

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 200 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	77.70	864.73	199909.	8.05	24830.	1042.	10.21	0.0400	0.	54.	0.29
MILE	75.60	857.85	199729.	8.92	22399.	1736.	9.55	0.0400	0.	51.	0.44
MILE	73.50	849.42	199449.	9.60	20786.	1270.	9.56	0.0330	0.	50.	0.42
MILE	71.40	846.09	199145.	7.01	28410.	1132.	9.12	0.0400	0.	48.	0.25
MILE	69.30	841.42	198739.	7.50	26486.	1107.	9.21	0.0340	0.	43.	0.27
MILE	67.20	839.12	197970.	4.88	40551.	2380.	8.74	0.0340	0.	48.	0.21
MILE	65.10	835.85	196626.	6.41	30699.	2938.	9.19	0.0320	0.	49.	0.35
MILE	63.00	833.88	195179.	5.32	36674.	2355.	8.76	0.0400	0.	53.	0.24
MILE	60.90	829.08	193923.	7.20	26937.	1894.	9.28	0.0450	0.	53.	0.34
MILE	58.80	821.81	192962.	7.69	25091.	1339.	8.29	0.0400	0.	49.	0.31
MILE	57.00	820.07	192333.	7.89	24389.	1384.	8.85	0.0200	0.	45.	0.33
MILE	55.00	817.76	191663.	8.91	21522.	1350.	8.63	0.0200	0.	44.	0.39
MILE	53.10	816.93	191023.	6.08	31419.	1611.	8.55	0.0200	0.	44.	0.24
MILE	51.00	815.65	190152.	6.28	30297.	2142.	8.13	0.0200	0.	46.	0.29
MILE	48.30	814.88	188364.	4.51	41808.	4298.	9.44	0.0200	0.	46.	0.25
MILE	46.20	814.29	186576.	5.02	37188.	4350.	10.25	0.0200	0.	52.	0.30
MILE	44.10	814.23	185197.	3.06	60444.	2443.	10.60	0.0300	0.	59.	0.11
MILE	43.70	813.51	185028.	6.83	27078.	2292.	11.53	0.0300	0.	61.	0.35
MILE	42.00	813.13	184496.	3.68	50091.	2166.	9.13	0.0300	0.	63.	0.13
MILE	39.10	811.55	183806.	5.34	34408.	2134.	10.97	0.0230	0.	61.	0.23
MILE	37.00	811.49	183487.	2.98	61674.	1615.	10.82	0.0280	0.	60.	0.08
MILE	36.00	810.96	183386.	5.26	34857.	1208.	11.42	0.0280	0.	62.	0.17
MILE	34.60	810.76	183305.	3.81	48103.	1710.	12.54	0.0280	0.	62.	0.13
MILE	33.60	810.86	183206.	1.68	108868.	3038.	11.49	0.0290	0.	68.	0.05
MILE	31.50	810.50	182979.	3.92	46721.	2406.	13.13	0.0250	0.	72.	0.16
MILE	30.10	810.33	182938.	3.59	50997.	1090.	12.44	0.0200	0.	70.	0.09
MILE	29.00	810.26	182918.	3.46	52836.	1401.	13.59	0.0200	0.	71.	0.10
MILE	27.30	810.15	182893.	3.40	53725.	1359.	13.91	0.0230	0.	73.	0.10
MILE	25.20	810.05	182887.	2.85	64108.	1347.	14.73	0.0230	0.	76.	0.07
MILE	23.10	809.86	182868.	3.38	54064.	1473.	13.98	0.0230	0.	80.	0.10

ODATE 10-07-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 7.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	867.08	200000.	10.25	19515.	864.	9.42	0.0290	0.	48.	0.38
MILE	77.70	864.76	199925.	8.04	24853.	1042.	10.21	0.0400	0.	54.	0.29
MILE	75.60	857.88	199778.	8.91	22424.	1738.	9.56	0.0400	0.	51.	0.44
MILE	73.50	849.48	199552.	9.58	20820.	1272.	9.56	0.0330	0.	50.	0.42
MILE	71.40	846.16	199307.	7.00	28487.	1134.	9.13	0.0400	0.	48.	0.25
MILE	69.30	841.53	198983.	7.49	26580.	1110.	9.22	0.0340	0.	43.	0.27
MILE	67.20	839.25	198373.	4.87	40724.	2389.	8.76	0.0340	0.	49.	0.21
MILE	65.10	835.99	197310.	6.40	30839.	2950.	9.20	0.0320	0.	49.	0.35
MILE	63.00	834.03	196168.	5.32	36900.	2363.	8.77	0.0400	0.	53.	0.24
MILE	60.90	829.24	195180.	7.20	27098.	1902.	9.29	0.0450	0.	53.	0.34
MILE	58.80	821.97	194421.	7.69	25271.	1346.	8.29	0.0400	0.	49.	0.31
MILE	57.00	820.22	193926.	7.89	24563.	1392.	8.84	0.0200	0.	45.	0.33

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Appendix E		Checked	ACM

MILE	55.00	817.91	193382.	8.93	21667.	1356.	8.63	0.0200	0.	44.	0.39
MILE	53.10	817.07	192864.	6.10	31594.	1618.	8.56	0.0200	0.	44.	0.24
MILE	51.00	815.78	192167.	6.31	30447.	2149.	8.14	0.0200	0.	46.	0.30
MILE	48.30	815.01	190736.	4.54	41996.	4315.	9.46	0.0200	0.	46.	0.26
MILE	46.20	814.41	189302.	5.07	37336.	4365.	10.27	0.0200	0.	53.	0.31
MILE	44.10	814.34	188206.	3.10	60693.	2449.	10.61	0.0300	0.	59.	0.11
MILE	43.70	813.61	188071.	6.93	27146.	2297.	11.55	0.0300	0.	61.	0.36
MILE	42.00	813.22	187648.	3.73	50271.	2170.	9.14	0.0300	0.	63.	0.14
MILE	39.10	811.60	187090.	5.43	34456.	2136.	10.98	0.0230	0.	61.	0.24
MILE	37.00	811.53	186840.	3.03	61759.	1617.	10.83	0.0280	0.	60.	0.09
MILE	36.00	810.99	186760.	5.35	34886.	1208.	11.42	0.0280	0.	62.	0.18
MILE	34.60	810.79	186697.	3.88	48131.	1711.	12.55	0.0280	0.	62.	0.13
MILE	33.60	810.89	186621.	1.71	108952.	3039.	11.50	0.0290	0.	68.	0.05
MILE	31.50	810.51	186446.	3.99	46739.	2407.	13.13	0.0250	0.	72.	0.16
MILE	30.10	810.34	186413.	3.65	51012.	1090.	12.44	0.0200	0.	70.	0.09
MILE	29.00	810.27	186396.	3.53	52847.	1401.	13.59	0.0200	0.	71.	0.10
MILE	27.30	810.15	186371.	3.47	53733.	1359.	13.91	0.0230	0.	73.	0.10
MILE	25.20	810.06	186354.	2.91	64115.	1347.	14.73	0.0230	0.	76.	0.07
MILE	23.10	809.86	186347.	3.45	54064.	1473.	13.98	0.0230	0.	80.	0.10

0DATE 10-07-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	8.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
INFLOW	DEPTH	FROUDE									
MILE	79.80	867.10	200000.	10.24	19528.	864.	9.42	0.0290	0.	48.	0.38
MILE	77.70	864.78	199939.	8.04	24871.	1043.	10.21	0.0400	0.	54.	0.29
MILE	75.60	857.91	199819.	8.90	22443.	1739.	9.56	0.0400	0.	51.	0.44
MILE	73.50	849.52	199636.	9.58	20847.	1274.	9.56	0.0330	0.	50.	0.42
MILE	71.40	846.22	199440.	6.99	28547.	1135.	9.14	0.0400	0.	48.	0.25
MILE	69.30	841.61	199182.	7.47	26655.	1112.	9.23	0.0340	0.	43.	0.27
MILE	67.20	839.35	198700.	4.86	40860.	2396.	8.77	0.0340	0.	49.	0.21
MILE	65.10	836.10	197858.	6.39	30949.	2960.	9.21	0.0320	0.	49.	0.35
MILE	63.00	834.15	196956.	5.31	37079.	2370.	8.78	0.0400	0.	53.	0.24
MILE	60.90	829.36	196176.	7.21	27227.	1909.	9.29	0.0450	0.	53.	0.34
MILE	58.80	822.10	195576.	7.69	25416.	1351.	8.29	0.0400	0.	49.	0.31
MILE	57.00	820.35	195179.	7.90	24701.	1398.	8.84	0.0200	0.	46.	0.33
MILE	55.00	818.03	194749.	8.94	21782.	1360.	8.63	0.0200	0.	45.	0.39
MILE	53.10	817.19	194336.	6.12	31732.	1623.	8.57	0.0200	0.	44.	0.24
MILE	51.00	815.89	193775.	6.34	30567.	2155.	8.15	0.0200	0.	47.	0.30
MILE	48.30	815.11	192625.	4.57	42147.	4328.	9.48	0.0200	0.	46.	0.26
MILE	46.20	814.51	191473.	5.11	37455.	4377.	10.28	0.0200	0.	53.	0.31
MILE	44.10	814.44	190593.	3.13	60893.	2453.	10.61	0.0300	0.	59.	0.11
MILE	43.70	813.69	190485.	7.00	27201.	2301.	11.56	0.0300	0.	61.	0.36
MILE	42.00	813.29	190144.	3.77	50416.	2174.	9.15	0.0300	0.	63.	0.14
MILE	39.10	811.64	189695.	5.50	34496.	2138.	10.98	0.0230	0.	61.	0.24
MILE	37.00	811.57	189494.	3.06	61828.	1618.	10.83	0.0280	0.	60.	0.09
MILE	36.00	811.02	189430.	5.43	34910.	1209.	11.43	0.0280	0.	62.	0.18

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Appendix E		Checked	ACM

MILE	34.60	810.81	189380.	3.93	48154.	1712.	12.55	0.0280	0.	62.	0.13
MILE	33.60	810.91	189317.	1.74	109020.	3040.	11.50	0.0290	0.	68.	0.05
MILE	31.50	810.53	189171.	4.05	46754.	2407.	13.13	0.0250	0.	72.	0.16
MILE	30.10	810.35	189142.	3.71	51025.	1090.	12.44	0.0200	0.	70.	0.10
MILE	29.00	810.28	189130.	3.58	52856.	1402.	13.59	0.0200	0.	71.	0.10
MILE	27.30	810.16	189115.	3.52	53740.	1359.	13.91	0.0230	0.	73.	0.10
MILE	25.20	810.06	189100.	2.95	64121.	1347.	14.73	0.0230	0.	76.	0.08
MILE	23.10	809.86	189097.	3.50	54064.	1473.	13.98	0.0230	0.	80.	0.10

ODATE 10-07-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	9.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL	
INFLOW	DEPTH	FROUDE									
MILE	79.80	867.12	200000.	10.24	19539.	864.	9.43	0.0290	0.	48.	0.38
MILE	77.70	864.80	199951.	8.03	24886.	1043.	10.21	0.0400	0.	54.	0.29
MILE	75.60	857.94	199855.	8.90	22459.	1740.	9.56	0.0400	0.	51.	0.44
MILE	73.50	849.55	199708.	9.57	20869.	1275.	9.57	0.0330	0.	50.	0.42
MILE	71.40	846.26	199551.	6.98	28595.	1136.	9.15	0.0400	0.	48.	0.25
MILE	69.30	841.68	199347.	7.46	26714.	1114.	9.24	0.0340	0.	43.	0.27
MILE	67.20	839.42	198963.	4.86	40968.	2402.	8.77	0.0340	0.	49.	0.21
MILE	65.10	836.18	198296.	6.39	31037.	2968.	9.21	0.0320	0.	49.	0.35
MILE	63.00	834.24	197583.	5.31	37220.	2375.	8.78	0.0400	0.	53.	0.24
MILE	60.90	829.46	196965.	7.21	27328.	1914.	9.30	0.0450	0.	53.	0.34
MILE	58.80	822.20	196490.	7.70	25532.	1356.	8.29	0.0400	0.	49.	0.31
MILE	57.00	820.45	196174.	7.91	24812.	1403.	8.83	0.0200	0.	46.	0.33
MILE	55.00	818.12	195830.	8.95	21874.	1364.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.28	195499.	6.14	31843.	1628.	8.57	0.0200	0.	44.	0.24
MILE	51.00	815.98	195050.	6.36	30663.	2160.	8.16	0.0200	0.	47.	0.30
MILE	48.30	815.20	194126.	4.59	42268.	4339.	9.49	0.0200	0.	46.	0.26
MILE	46.20	814.58	193200.	5.15	37550.	4387.	10.29	0.0200	0.	53.	0.31
MILE	44.10	814.51	192491.	3.15	61054.	2457.	10.62	0.0300	0.	59.	0.11
MILE	43.70	813.75	192404.	7.06	27245.	2304.	11.57	0.0300	0.	61.	0.36
MILE	42.00	813.35	192130.	3.80	50533.	2176.	9.16	0.0300	0.	63.	0.14
MILE	39.10	811.67	191767.	5.55	34527.	2139.	10.99	0.0230	0.	61.	0.24
MILE	37.00	811.60	191603.	3.10	61884.	1619.	10.84	0.0280	0.	60.	0.09
MILE	36.00	811.04	191551.	5.48	34929.	1209.	11.43	0.0280	0.	62.	0.18
MILE	34.60	810.82	191510.	3.98	48173.	1712.	12.55	0.0280	0.	62.	0.13
MILE	33.60	810.93	191459.	1.76	109076.	3041.	11.50	0.0290	0.	68.	0.05
MILE	31.50	810.54	191342.	4.09	46766.	2407.	13.13	0.0250	0.	72.	0.16
MILE	30.10	810.36	191322.	3.75	51035.	1090.	12.45	0.0200	0.	70.	0.10
MILE	29.00	810.28	191311.	3.62	52864.	1402.	13.59	0.0200	0.	71.	0.10
MILE	27.30	810.16	191295.	3.56	53745.	1359.	13.91	0.0230	0.	73.	0.10
MILE	25.20	810.07	191287.	2.98	64125.	1347.	14.73	0.0230	0.	76.	0.08
MILE	23.10	809.86	191282.	3.54	54064.	1473.	13.98	0.0230	0.	80.	0.10

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

0DATE 10-07-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 10.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL
	INFLOW DEPTH	FROUDE							
MILE 79.80	867.14	200000.	10.23	19548.	864.	9.43	0.0290	0.	48. 0.38
MILE 77.70	864.81	199961.	8.03	24898.	1043.	10.21	0.0400	0.	54. 0.29
MILE 75.60	857.95	199884.	8.89	22472.	1741.	9.56	0.0400	0.	51. 0.44
MILE 73.50	849.58	199768.	9.56	20886.	1277.	9.57	0.0330	0.	50. 0.42
MILE 71.40	846.30	199643.	6.97	28634.	1137.	9.15	0.0400	0.	48. 0.24
MILE 69.30	841.73	199480.	7.45	26761.	1116.	9.24	0.0340	0.	43. 0.27
MILE 67.20	839.48	199176.	4.85	41054.	2406.	8.78	0.0340	0.	49. 0.21
MILE 65.10	836.25	198647.	6.39	31106.	2974.	9.22	0.0320	0.	49. 0.35
MILE 63.00	834.31	198081.	5.31	37332.	2379.	8.79	0.0400	0.	53. 0.24
MILE 60.90	829.53	197591.	7.21	27409.	1919.	9.30	0.0450	0.	53. 0.34
MILE 58.80	822.28	197214.	7.70	25624.	1360.	8.29	0.0400	0.	49. 0.31
MILE 57.00	820.53	196961.	7.91	24900.	1407.	8.83	0.0200	0.	46. 0.33
MILE 55.00	818.20	196686.	8.96	21948.	1367.	8.64	0.0200	0.	45. 0.39
MILE 53.10	817.35	196421.	6.15	31932.	1631.	8.58	0.0200	0.	44. 0.24
MILE 51.00	816.04	196060.	6.38	30740.	2164.	8.17	0.0200	0.	47. 0.30
MILE 48.30	815.26	195318.	4.61	42364.	4347.	9.51	0.0200	0.	46. 0.26
MILE 46.20	814.64	194573.	5.17	37627.	4394.	10.30	0.0200	0.	53. 0.31
MILE 44.10	814.57	194004.	3.17	61183.	2459.	10.62	0.0300	0.	59. 0.11
MILE 43.70	813.80	193934.	7.11	27281.	2306.	11.58	0.0300	0.	61. 0.36
MILE 42.00	813.40	193713.	3.83	50627.	2178.	9.16	0.0300	0.	63. 0.14
MILE 39.10	811.69	193420.	5.60	34553.	2140.	10.99	0.0230	0.	61. 0.25
MILE 37.00	811.63	193288.	3.12	61929.	1619.	10.84	0.0280	0.	60. 0.09
MILE 36.00	811.05	193246.	5.53	34945.	1209.	11.43	0.0280	0.	62. 0.18
MILE 34.60	810.84	193213.	4.01	48189.	1712.	12.55	0.0280	0.	62. 0.13
MILE 33.60	810.94	193172.	1.77	109120.	3042.	11.51	0.0290	0.	68. 0.05
MILE 31.50	810.55	193077.	4.13	46776.	2408.	13.13	0.0250	0.	72. 0.17
MILE 30.10	810.37	193058.	3.78	51043.	1090.	12.45	0.0200	0.	70. 0.10
MILE 29.00	810.29	193049.	3.65	52870.	1402.	13.59	0.0200	0.	71. 0.10
MILE 27.30	810.17	193039.	3.59	53750.	1359.	13.91	0.0230	0.	73. 0.10
MILE 25.20	810.07	193030.	3.01	64129.	1347.	14.73	0.0230	0.	76. 0.08
MILE 23.10	809.86	193027.	3.57	54064.	1473.	13.98	0.0230	0.	80. 0.10

0DATE 10-07-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 11.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL
	INFLOW DEPTH	FROUDE							
MILE 79.80	867.15	200000.	10.23	19554.	864.	9.43	0.0290	0.	48. 0.38
MILE 77.70	864.83	199969.	8.03	24907.	1043.	10.21	0.0400	0.	54. 0.29
MILE 75.60	857.97	199908.	8.89	22482.	1742.	9.56	0.0400	0.	51. 0.44
MILE 73.50	849.60	199816.	9.56	20900.	1277.	9.57	0.0330	0.	50. 0.42
MILE 71.40	846.33	199717.	6.97	28665.	1138.	9.16	0.0400	0.	49. 0.24

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	69.30	841.77	199587.	7.45	26799.	1117.	9.25	0.0340	0.	43.	0.27
MILE	67.20	839.53	199346.	4.85	41122.	2410.	8.78	0.0340	0.	49.	0.21
MILE	65.10	836.30	198925.	6.38	31161.	2979.	9.22	0.0320	0.	49.	0.35
MILE	63.00	834.37	198476.	5.30	37421.	2382.	8.79	0.0400	0.	53.	0.24
MILE	60.90	829.59	198088.	7.21	27473.	1922.	9.30	0.0450	0.	53.	0.34
MILE	58.80	822.35	197788.	7.70	25697.	1363.	8.29	0.0400	0.	49.	0.31
MILE	57.00	820.59	197586.	7.91	24970.	1410.	8.83	0.0200	0.	46.	0.33
MILE	55.00	818.26	197365.	8.97	22007.	1369.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.41	197153.	6.16	32003.	1634.	8.58	0.0200	0.	44.	0.25
MILE	51.00	816.10	196864.	6.39	30802.	2168.	8.17	0.0200	0.	47.	0.30
MILE	48.30	815.31	196267.	4.62	42442.	4354.	9.52	0.0200	0.	46.	0.26
MILE	46.20	814.69	195668.	5.19	37688.	4401.	10.30	0.0200	0.	53.	0.31
MILE	44.10	814.62	195210.	3.19	61286.	2462.	10.63	0.0300	0.	59.	0.11
MILE	43.70	813.84	195154.	7.15	27309.	2308.	11.58	0.0300	0.	61.	0.37
MILE	42.00	813.44	194976.	3.85	50703.	2180.	9.17	0.0300	0.	63.	0.14
MILE	39.10	811.71	194740.	5.63	34574.	2141.	11.00	0.0230	0.	61.	0.25
MILE	37.00	811.65	194633.	3.14	61965.	1620.	10.85	0.0280	0.	60.	0.09
MILE	36.00	811.06	194599.	5.57	34957.	1210.	11.43	0.0280	0.	62.	0.18
MILE	34.60	810.85	194572.	4.04	48201.	1713.	12.56	0.0280	0.	62.	0.13
MILE	33.60	810.96	194539.	1.78	109156.	3043.	11.51	0.0290	0.	68.	0.05
MILE	31.50	810.56	194462.	4.16	46784.	2408.	13.14	0.0250	0.	72.	0.17
MILE	30.10	810.37	194447.	3.81	51050.	1090.	12.45	0.0200	0.	70.	0.10
MILE	29.00	810.29	194440.	3.68	52875.	1402.	13.59	0.0200	0.	71.	0.11
MILE	27.30	810.17	194431.	3.62	53753.	1359.	13.92	0.0230	0.	73.	0.10
MILE	25.20	810.07	194424.	3.03	64132.	1347.	14.73	0.0230	0.	76.	0.08
MILE	23.10	809.86	194422.	3.60	54064.	1473.	13.98	0.0230	0.	80.	0.10

0DATE 10-07-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 12.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	867.16	200000.	10.23	19560.	864.	9.43	0.0290	0.	48.	0.38
MILE	77.70	864.84	199976.	8.03	24914.	1043.	10.21	0.0400	0.	54.	0.29
MILE	75.60	857.98	199927.	8.89	22490.	1742.	9.56	0.0400	0.	51.	0.44
MILE	73.50	849.62	199854.	9.56	20911.	1278.	9.57	0.0330	0.	50.	0.42
MILE	71.40	846.35	199775.	6.96	28689.	1139.	9.16	0.0400	0.	49.	0.24
MILE	69.30	841.80	199673.	7.44	26829.	1118.	9.25	0.0340	0.	43.	0.27
MILE	67.20	839.57	199481.	4.84	41176.	2413.	8.79	0.0340	0.	49.	0.21
MILE	65.10	836.35	199147.	6.38	31205.	2983.	9.23	0.0320	0.	49.	0.35
MILE	63.00	834.41	198790.	5.30	37491.	2385.	8.80	0.0400	0.	53.	0.24
MILE	60.90	829.64	198482.	7.21	27524.	1924.	9.30	0.0450	0.	53.	0.34
MILE	58.80	822.40	198243.	7.70	25756.	1365.	8.29	0.0400	0.	49.	0.31
MILE	57.00	820.64	198081.	7.91	25026.	1412.	8.83	0.0200	0.	46.	0.33
MILE	55.00	818.31	197905.	8.97	22055.	1371.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.46	197735.	6.17	32060.	1636.	8.59	0.0200	0.	44.	0.25
MILE	51.00	816.14	197503.	6.40	30852.	2170.	8.18	0.0200	0.	47.	0.30
MILE	48.30	815.36	197023.	4.64	42504.	4360.	9.52	0.0200	0.	46.	0.26

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 205 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	46.20	814.73	196542.	5.21	37737.	4406.	10.31	0.0200	0.	53.	0.31
MILE	44.10	814.66	196174.	3.20	61370.	2463.	10.63	0.0300	0.	59.	0.11
MILE	43.70	813.88	196129.	7.18	27332.	2310.	11.59	0.0300	0.	61.	0.37
MILE	42.00	813.47	195986.	3.86	50764.	2181.	9.17	0.0300	0.	63.	0.14
MILE	39.10	811.73	195795.	5.66	34591.	2142.	11.00	0.0230	0.	61.	0.25
MILE	37.00	811.67	195709.	3.16	61994.	1620.	10.85	0.0280	0.	60.	0.09
MILE	36.00	811.08	195682.	5.60	34968.	1210.	11.44	0.0280	0.	62.	0.18
MILE	34.60	810.85	195660.	4.06	48211.	1713.	12.56	0.0280	0.	62.	0.13
MILE	33.60	810.97	195634.	1.79	109185.	3043.	11.51	0.0290	0.	68.	0.05
MILE	31.50	810.56	195571.	4.18	46790.	2408.	13.14	0.0250	0.	72.	0.17
MILE	30.10	810.38	195560.	3.83	51055.	1090.	12.45	0.0200	0.	70.	0.10
MILE	29.00	810.30	195554.	3.70	52879.	1402.	13.59	0.0200	0.	71.	0.11
MILE	27.30	810.17	195546.	3.64	53756.	1359.	13.92	0.0230	0.	73.	0.10
MILE	25.20	810.08	195541.	3.05	64134.	1347.	14.73	0.0230	0.	76.	0.08
MILE	23.10	809.86	195538.	3.62	54064.	1473.	13.98	0.0230	0.	80.	0.11

ODATE 10-07-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 13.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	867.17	200000.	10.22	19564.	864.	9.43	0.0290	0.	48.	0.38
MILE	77.70	864.84	199981.	8.02	24920.	1043.	10.21	0.0400	0.	54.	0.29
MILE	75.60	857.99	199943.	8.89	22496.	1743.	9.56	0.0400	0.	51.	0.44
MILE	73.50	849.63	199884.	9.55	20920.	1279.	9.58	0.0330	0.	50.	0.42
MILE	71.40	846.37	199822.	6.96	28709.	1139.	9.16	0.0400	0.	49.	0.24
MILE	69.30	841.83	199740.	7.44	26852.	1118.	9.25	0.0340	0.	43.	0.27
MILE	67.20	839.60	199588.	4.84	41219.	2415.	8.79	0.0340	0.	49.	0.21
MILE	65.10	836.38	199323.	6.38	31240.	2986.	9.23	0.0320	0.	49.	0.35
MILE	63.00	834.45	199039.	5.30	37548.	2387.	8.80	0.0400	0.	53.	0.24
MILE	60.90	829.68	198794.	7.21	27564.	1927.	9.31	0.0450	0.	53.	0.34
MILE	58.80	822.44	198604.	7.70	25803.	1367.	8.29	0.0400	0.	49.	0.31
MILE	57.00	820.68	198475.	7.92	25071.	1414.	8.83	0.0200	0.	46.	0.33
MILE	55.00	818.35	198334.	8.98	22092.	1372.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.49	198197.	6.17	32106.	1638.	8.59	0.0200	0.	44.	0.25
MILE	51.00	816.18	198011.	6.41	30891.	2172.	8.18	0.0200	0.	47.	0.30
MILE	48.30	815.39	197626.	4.64	42554.	4364.	9.53	0.0200	0.	46.	0.26
MILE	46.20	814.76	197240.	5.22	37777.	4410.	10.31	0.0200	0.	53.	0.31
MILE	44.10	814.69	196944.	3.21	61436.	2465.	10.63	0.0300	0.	59.	0.11
MILE	43.70	813.90	196908.	7.20	27351.	2311.	11.59	0.0300	0.	61.	0.37
MILE	42.00	813.49	196793.	3.87	50813.	2182.	9.17	0.0300	0.	63.	0.14
MILE	39.10	811.74	196640.	5.68	34604.	2143.	11.00	0.0230	0.	61.	0.25
MILE	37.00	811.68	196571.	3.17	62018.	1621.	10.85	0.0280	0.	60.	0.09
MILE	36.00	811.08	196549.	5.62	34976.	1210.	11.44	0.0280	0.	62.	0.18
MILE	34.60	810.86	196531.	4.08	48219.	1713.	12.56	0.0280	0.	62.	0.14
MILE	33.60	810.97	196510.	1.80	109209.	3044.	11.51	0.0290	0.	68.	0.05
MILE	31.50	810.57	196460.	4.20	46796.	2409.	13.14	0.0250	0.	72.	0.17
MILE	30.10	810.38	196450.	3.85	51060.	1090.	12.45	0.0200	0.	70.	0.10

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Appendix E		Checked	ACM

MILE	29.00	810.30	196445.	3.71	52882.	1402.	13.59	0.0200	0.	71.	0.11
MILE	27.30	810.18	196439.	3.65	53759.	1359.	13.92	0.0230	0.	73.	0.10
MILE	25.20	810.08	196434.	3.06	64136.	1347.	14.73	0.0230	0.	76.	0.08
MILE	23.10	809.86	196433.	3.63	54064.	1473.	13.98	0.0230	0.	80.	0.11

0DATE 10-07-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 14.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	867.17	200000.	10.22	19567.	865.	9.43	0.0290	0.	48.	0.38
MILE	77.70	864.85	199985.	8.02	24925.	1043.	10.21	0.0400	0.	54.	0.29
MILE	75.60	858.00	199954.	8.89	22501.	1743.	9.56	0.0400	0.	51.	0.44
MILE	73.50	849.64	199908.	9.55	20927.	1279.	9.58	0.0330	0.	50.	0.42
MILE	71.40	846.38	199859.	6.96	28724.	1140.	9.17	0.0400	0.	49.	0.24
MILE	69.30	841.85	199794.	7.44	26871.	1119.	9.25	0.0340	0.	43.	0.27
MILE	67.20	839.63	199673.	4.84	41253.	2417.	8.79	0.0340	0.	49.	0.21
MILE	65.10	836.41	199462.	6.38	31267.	2989.	9.23	0.0320	0.	49.	0.35
MILE	63.00	834.48	199237.	5.30	37592.	2388.	8.80	0.0400	0.	53.	0.24
MILE	60.90	829.71	199042.	7.21	27596.	1928.	9.31	0.0450	0.	53.	0.34
MILE	58.80	822.47	198891.	7.70	25840.	1368.	8.29	0.0400	0.	49.	0.31
MILE	57.00	820.71	198788.	7.92	25107.	1416.	8.82	0.0200	0.	46.	0.33
MILE	55.00	818.38	198675.	8.98	22123.	1374.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.52	198565.	6.18	32142.	1639.	8.59	0.0200	0.	44.	0.25
MILE	51.00	816.21	198416.	6.42	30923.	2174.	8.18	0.0200	0.	47.	0.30
MILE	48.30	815.42	198107.	4.65	42594.	4368.	9.53	0.0200	0.	46.	0.26
MILE	46.20	814.79	197797.	5.23	37808.	4413.	10.31	0.0200	0.	53.	0.31
MILE	44.10	814.72	197560.	3.21	61490.	2466.	10.63	0.0300	0.	60.	0.11
MILE	43.70	813.92	197531.	7.22	27365.	2312.	11.60	0.0300	0.	61.	0.37
MILE	42.00	813.51	197439.	3.88	50852.	2183.	9.18	0.0300	0.	64.	0.14
MILE	39.10	811.75	197316.	5.70	34615.	2143.	11.00	0.0230	0.	61.	0.25
MILE	37.00	811.69	197260.	3.18	62037.	1621.	10.85	0.0280	0.	60.	0.09
MILE	36.00	811.09	197242.	5.64	34982.	1210.	11.44	0.0280	0.	62.	0.18
MILE	34.60	810.87	197228.	4.09	48225.	1713.	12.56	0.0280	0.	62.	0.14
MILE	33.60	810.98	197211.	1.81	109227.	3044.	11.51	0.0290	0.	68.	0.05
MILE	31.50	810.57	197171.	4.21	46800.	2409.	13.14	0.0250	0.	72.	0.17
MILE	30.10	810.38	197163.	3.86	51063.	1090.	12.45	0.0200	0.	70.	0.10
MILE	29.00	810.30	197159.	3.73	52885.	1402.	13.60	0.0200	0.	71.	0.11
MILE	27.30	810.18	197154.	3.67	53760.	1359.	13.92	0.0230	0.	73.	0.10
MILE	25.20	810.08	197150.	3.07	64138.	1347.	14.73	0.0230	0.	76.	0.08
MILE	23.10	809.86	197149.	3.65	54064.	1473.	13.98	0.0230	0.	80.	0.11

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

TIME 15.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	867.18	200000.	10.22	19570.	865.	9.43	0.0290	0.	48.	0.38
MILE 77.70	864.85	199988.	8.02	24929.	1043.	10.21	0.0400	0.	54.	0.29
MILE 75.60	858.00	199964.	8.89	22505.	1743.	9.56	0.0400	0.	52.	0.44
MILE 73.50	849.65	199927.	9.55	20933.	1280.	9.58	0.0330	0.	50.	0.42
MILE 71.40	846.39	199888.	6.96	28737.	1140.	9.17	0.0400	0.	49.	0.24
MILE 69.30	841.87	199836.	7.43	26886.	1119.	9.26	0.0340	0.	43.	0.27
MILE 67.20	839.64	199740.	4.84	41280.	2418.	8.80	0.0340	0.	49.	0.21
MILE 65.10	836.43	199573.	6.38	31289.	2991.	9.23	0.0320	0.	49.	0.35
MILE 63.00	834.50	199394.	5.30	37628.	2390.	8.80	0.0400	0.	54.	0.24
MILE 60.90	829.74	199239.	7.21	27622.	1930.	9.31	0.0450	0.	53.	0.34
MILE 58.80	822.50	199118.	7.70	25870.	1369.	8.29	0.0400	0.	49.	0.31
MILE 57.00	820.73	199036.	7.92	25136.	1417.	8.82	0.0200	0.	46.	0.33
MILE 55.00	818.40	198946.	8.98	22147.	1375.	8.64	0.0200	0.	45.	0.39
MILE 53.10	817.55	198858.	6.18	32171.	1640.	8.59	0.0200	0.	44.	0.25
MILE 51.00	816.23	198739.	6.42	30949.	2175.	8.18	0.0200	0.	47.	0.30
MILE 48.30	815.44	198491.	4.66	42626.	4371.	9.54	0.0200	0.	47.	0.26
MILE 46.20	814.81	198243.	5.24	37834.	4415.	10.32	0.0200	0.	53.	0.32
MILE 44.10	814.74	198053.	3.22	61533.	2467.	10.63	0.0300	0.	60.	0.11
MILE 43.70	813.94	198029.	7.23	27377.	2313.	11.60	0.0300	0.	61.	0.37
MILE 42.00	813.53	197955.	3.89	50883.	2184.	9.18	0.0300	0.	64.	0.14
MILE 39.10	811.76	197856.	5.71	34623.	2144.	11.00	0.0230	0.	61.	0.25
MILE 37.00	811.70	197812.	3.19	62052.	1621.	10.85	0.0280	0.	60.	0.09
MILE 36.00	811.10	197797.	5.65	34988.	1210.	11.44	0.0280	0.	62.	0.19
MILE 34.60	810.87	197786.	4.10	48231.	1713.	12.56	0.0280	0.	62.	0.14
MILE 33.60	810.99	197772.	1.81	109242.	3044.	11.51	0.0290	0.	68.	0.05
MILE 31.50	810.57	197740.	4.22	46803.	2409.	13.14	0.0250	0.	72.	0.17
MILE 30.10	810.39	197733.	3.87	51066.	1090.	12.45	0.0200	0.	70.	0.10
MILE 29.00	810.30	197730.	3.74	52887.	1402.	13.60	0.0200	0.	71.	0.11
MILE 27.30	810.18	197726.	3.68	53762.	1359.	13.92	0.0230	0.	73.	0.10
MILE 25.20	810.08	197723.	3.08	64139.	1347.	14.73	0.0230	0.	76.	0.08
MILE 23.10	809.86	197722.	3.66	54064.	1473.	13.98	0.0230	0.	80.	0.11

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TIME 16.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	867.18	200000.	10.22	19572.	865.	9.43	0.0290	0.	48.	0.38
MILE 77.70	864.86	199990.	8.02	24932.	1043.	10.21	0.0400	0.	54.	0.29
MILE 75.60	858.01	199971.	8.88	22509.	1743.	9.56	0.0400	0.	52.	0.44
MILE 73.50	849.66	199942.	9.55	20937.	1280.	9.58	0.0330	0.	50.	0.42
MILE 71.40	846.40	199911.	6.95	28747.	1140.	9.17	0.0400	0.	49.	0.24
MILE 69.30	841.88	199870.	7.43	26898.	1120.	9.26	0.0340	0.	43.	0.27
MILE 67.20	839.66	199794.	4.84	41302.	2419.	8.80	0.0340	0.	49.	0.21
MILE 65.10	836.45	199660.	6.38	31307.	2992.	9.23	0.0320	0.	49.	0.35

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 208 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	63.00	834.52	199518.	5.30	37656.	2391.	8.80	0.0400	0.	54.	0.24
MILE	60.90	829.75	199395.	7.21	27642.	1931.	9.31	0.0450	0.	53.	0.34
MILE	58.80	822.52	199299.	7.70	25893.	1370.	8.29	0.0400	0.	49.	0.31
MILE	57.00	820.75	199233.	7.92	25159.	1418.	8.82	0.0200	0.	46.	0.33
MILE	55.00	818.42	199161.	8.98	22166.	1375.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.56	199091.	6.18	32195.	1641.	8.59	0.0200	0.	44.	0.25
MILE	51.00	816.25	198995.	6.43	30969.	2176.	8.19	0.0200	0.	47.	0.30
MILE	48.30	815.46	198797.	4.66	42652.	4373.	9.54	0.0200	0.	47.	0.26
MILE	46.20	814.82	198598.	5.25	37854.	4417.	10.32	0.0200	0.	53.	0.32
MILE	44.10	814.75	198446.	3.22	61567.	2468.	10.63	0.0300	0.	60.	0.11
MILE	43.70	813.95	198427.	7.25	27386.	2313.	11.60	0.0300	0.	61.	0.37
MILE	42.00	813.54	198368.	3.90	50908.	2184.	9.18	0.0300	0.	64.	0.14
MILE	39.10	811.77	198289.	5.73	34630.	2144.	11.00	0.0230	0.	61.	0.25
MILE	37.00	811.70	198253.	3.19	62064.	1621.	10.86	0.0280	0.	60.	0.09
MILE	36.00	811.10	198241.	5.67	34992.	1210.	11.44	0.0280	0.	62.	0.19
MILE	34.60	810.88	198232.	4.11	48235.	1714.	12.56	0.0280	0.	62.	0.14
MILE	33.60	810.99	198221.	1.81	109255.	3044.	11.51	0.0290	0.	68.	0.05
MILE	31.50	810.58	198195.	4.23	46806.	2409.	13.14	0.0250	0.	72.	0.17
MILE	30.10	810.39	198190.	3.88	51068.	1091.	12.45	0.0200	0.	70.	0.10
MILE	29.00	810.30	198187.	3.75	52889.	1402.	13.60	0.0200	0.	71.	0.11
MILE	27.30	810.18	198184.	3.69	53763.	1359.	13.92	0.0230	0.	73.	0.10
MILE	25.20	810.08	198182.	3.09	64140.	1347.	14.73	0.0230	0.	76.	0.08
MILE	23.10	809.86	198181.	3.67	54064.	1473.	13.98	0.0230	0.	80.	0.11

0DATE 10-07-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 17.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE	79.80	867.18	200000.	10.22	19574.	865.	9.43	0.0290	0.	48.	0.38
MILE	77.70	864.86	199992.	8.02	24934.	1043.	10.21	0.0400	0.	54.	0.29
MILE	75.60	858.01	199977.	8.88	22511.	1744.	9.56	0.0400	0.	52.	0.44
MILE	73.50	849.67	199954.	9.55	20941.	1280.	9.58	0.0330	0.	50.	0.42
MILE	71.40	846.41	199929.	6.95	28754.	1140.	9.17	0.0400	0.	49.	0.24
MILE	69.30	841.89	199897.	7.43	26907.	1120.	9.26	0.0340	0.	43.	0.27
MILE	67.20	839.67	199836.	4.84	41319.	2420.	8.80	0.0340	0.	49.	0.21
MILE	65.10	836.46	199730.	6.38	31321.	2993.	9.24	0.0320	0.	49.	0.35
MILE	63.00	834.54	199617.	5.30	37678.	2391.	8.81	0.0400	0.	54.	0.24
MILE	60.90	829.77	199519.	7.21	27659.	1931.	9.31	0.0450	0.	53.	0.34
MILE	58.80	822.53	199442.	7.70	25912.	1371.	8.29	0.0400	0.	49.	0.31
MILE	57.00	820.77	199390.	7.92	25177.	1419.	8.82	0.0200	0.	46.	0.33
MILE	55.00	818.44	199332.	8.99	22182.	1376.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.58	199276.	6.19	32213.	1642.	8.60	0.0200	0.	44.	0.25
MILE	51.00	816.26	199200.	6.43	30985.	2177.	8.19	0.0200	0.	47.	0.30
MILE	48.30	815.47	199041.	4.66	42672.	4375.	9.54	0.0200	0.	47.	0.26
MILE	46.20	814.84	198882.	5.25	37870.	4419.	10.32	0.0200	0.	53.	0.32
MILE	44.10	814.77	198760.	3.23	61594.	2468.	10.64	0.0300	0.	60.	0.11
MILE	43.70	813.96	198745.	7.26	27394.	2314.	11.60	0.0300	0.	61.	0.37

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	42.00	813.55	198697.	3.90	50928.	2185.	9.18	0.0300	0.	64.	0.14
MILE	39.10	811.77	198634.	5.73	34636.	2144.	11.00	0.0230	0.	61.	0.25
MILE	37.00	811.71	198605.	3.20	62074.	1622.	10.86	0.0280	0.	60.	0.09
MILE	36.00	811.10	198596.	5.67	34995.	1210.	11.44	0.0280	0.	62.	0.19
MILE	34.60	810.88	198589.	4.12	48238.	1714.	12.56	0.0280	0.	62.	0.14
MILE	33.60	810.99	198580.	1.82	109264.	3045.	11.51	0.0290	0.	68.	0.05
MILE	31.50	810.58	198559.	4.24	46808.	2409.	13.14	0.0250	0.	72.	0.17
MILE	30.10	810.39	198555.	3.89	51070.	1091.	12.45	0.0200	0.	70.	0.10
MILE	29.00	810.31	198553.	3.75	52890.	1402.	13.60	0.0200	0.	71.	0.11
MILE	27.30	810.18	198550.	3.69	53764.	1359.	13.92	0.0230	0.	73.	0.10
MILE	25.20	810.08	198548.	3.10	64141.	1347.	14.73	0.0230	0.	76.	0.08
MILE	23.10	809.86	198548.	3.67	54064.	1473.	13.98	0.0230	0.	80.	0.11

0DATE 10-07-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	18.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL	
INFLOW	DEPTH	FROUDE									
MILE	79.80	867.18	200000.	10.22	19575.	865.	9.43	0.0290	0.	48.	0.38
MILE	77.70	864.86	199994.	8.02	24936.	1043.	10.21	0.0400	0.	54.	0.29
MILE	75.60	858.02	199982.	8.88	22513.	1744.	9.56	0.0400	0.	52.	0.44
MILE	73.50	849.67	199963.	9.55	20944.	1280.	9.58	0.0330	0.	50.	0.42
MILE	71.40	846.41	199944.	6.95	28761.	1140.	9.17	0.0400	0.	49.	0.24
MILE	69.30	841.90	199918.	7.43	26915.	1120.	9.26	0.0340	0.	43.	0.27
MILE	67.20	839.68	199869.	4.84	41332.	2421.	8.80	0.0340	0.	49.	0.21
MILE	65.10	836.47	199785.	6.38	31332.	2994.	9.24	0.0320	0.	49.	0.35
MILE	63.00	834.55	199695.	5.30	37696.	2392.	8.81	0.0400	0.	54.	0.24
MILE	60.90	829.78	199617.	7.21	27672.	1932.	9.31	0.0450	0.	53.	0.34
MILE	58.80	822.55	199556.	7.70	25927.	1372.	8.29	0.0400	0.	49.	0.31
MILE	57.00	820.78	199514.	7.92	25191.	1419.	8.82	0.0200	0.	46.	0.33
MILE	55.00	818.45	199468.	8.99	22194.	1376.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.59	199423.	6.19	32228.	1642.	8.60	0.0200	0.	44.	0.25
MILE	51.00	816.27	199362.	6.43	30998.	2178.	8.19	0.0200	0.	47.	0.30
MILE	48.30	815.48	199236.	4.67	42688.	4376.	9.55	0.0200	0.	47.	0.26
MILE	46.20	814.85	199108.	5.26	37883.	4420.	10.32	0.0200	0.	53.	0.32
MILE	44.10	814.78	199011.	3.23	61616.	2469.	10.64	0.0300	0.	60.	0.11
MILE	43.70	813.97	198999.	7.26	27400.	2314.	11.60	0.0300	0.	61.	0.37
MILE	42.00	813.56	198961.	3.91	50944.	2185.	9.18	0.0300	0.	64.	0.14
MILE	39.10	811.78	198910.	5.74	34640.	2144.	11.00	0.0230	0.	61.	0.25
MILE	37.00	811.71	198887.	3.20	62082.	1622.	10.86	0.0280	0.	60.	0.09
MILE	36.00	811.11	198880.	5.68	34998.	1210.	11.44	0.0280	0.	62.	0.19
MILE	34.60	810.88	198874.	4.12	48241.	1714.	12.56	0.0280	0.	62.	0.14
MILE	33.60	811.00	198867.	1.82	109272.	3045.	11.51	0.0290	0.	68.	0.05
MILE	31.50	810.58	198850.	4.25	46810.	2409.	13.14	0.0250	0.	72.	0.17
MILE	30.10	810.39	198847.	3.89	51071.	1091.	12.45	0.0200	0.	70.	0.10
MILE	29.00	810.31	198845.	3.76	52891.	1402.	13.60	0.0200	0.	71.	0.11
MILE	27.30	810.18	198843.	3.70	53765.	1359.	13.92	0.0230	0.	73.	0.10
MILE	25.20	810.08	198841.	3.10	64141.	1347.	14.73	0.0230	0.	76.	0.08

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 210 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 23.10 809.86 198841. 3.68 54064. 1473. 13.98 0.0230 0. 80. 0.11

ODATE 10-07-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 19.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	867.19	200000.	10.22	19576.	865.	9.43	0.0290	0.	48.	0.38
MILE 77.70	864.87	199995.	8.02	24937.	1043.	10.21	0.0400	0.	54.	0.29
MILE 75.60	858.02	199986.	8.88	22515.	1744.	9.57	0.0400	0.	52.	0.44
MILE 73.50	849.67	199971.	9.55	20946.	1280.	9.58	0.0330	0.	50.	0.42
MILE 71.40	846.42	199955.	6.95	28765.	1141.	9.17	0.0400	0.	49.	0.24
MILE 69.30	841.91	199934.	7.43	26921.	1120.	9.26	0.0340	0.	43.	0.27
MILE 67.20	839.69	199896.	4.84	41343.	2421.	8.80	0.0340	0.	49.	0.21
MILE 65.10	836.48	199829.	6.38	31340.	2995.	9.24	0.0320	0.	49.	0.35
MILE 63.00	834.56	199757.	5.30	37710.	2392.	8.81	0.0400	0.	54.	0.24
MILE 60.90	829.79	199695.	7.21	27682.	1933.	9.31	0.0450	0.	53.	0.34
MILE 58.80	822.56	199647.	7.70	25939.	1372.	8.29	0.0400	0.	49.	0.31
MILE 57.00	820.79	199613.	7.92	25203.	1420.	8.82	0.0200	0.	46.	0.33
MILE 55.00	818.46	199576.	8.99	22204.	1377.	8.64	0.0200	0.	45.	0.39
MILE 53.10	817.60	199541.	6.19	32240.	1643.	8.60	0.0200	0.	44.	0.25
MILE 51.00	816.28	199492.	6.43	31009.	2178.	8.19	0.0200	0.	47.	0.30
MILE 48.30	815.49	199391.	4.67	42701.	4377.	9.55	0.0200	0.	47.	0.26
MILE 46.20	814.85	199289.	5.26	37893.	4421.	10.32	0.0200	0.	53.	0.32
MILE 44.10	814.78	199211.	3.23	61634.	2469.	10.64	0.0300	0.	60.	0.11
MILE 43.70	813.98	199201.	7.27	27405.	2314.	11.60	0.0300	0.	61.	0.37
MILE 42.00	813.56	199171.	3.91	50957.	2185.	9.18	0.0300	0.	64.	0.14
MILE 39.10	811.78	199130.	5.75	34644.	2144.	11.01	0.0230	0.	61.	0.25
MILE 37.00	811.72	199112.	3.21	62088.	1622.	10.86	0.0280	0.	60.	0.09
MILE 36.00	811.11	199106.	5.69	35000.	1210.	11.44	0.0280	0.	62.	0.19
MILE 34.60	810.88	199101.	4.13	48243.	1714.	12.56	0.0280	0.	62.	0.14
MILE 33.60	811.00	199096.	1.82	109278.	3045.	11.52	0.0290	0.	68.	0.05
MILE 31.50	810.58	199082.	4.25	46811.	2409.	13.14	0.0250	0.	72.	0.17
MILE 30.10	810.39	199080.	3.90	51072.	1091.	12.45	0.0200	0.	70.	0.10
MILE 29.00	810.31	199078.	3.76	52892.	1402.	13.60	0.0200	0.	71.	0.11
MILE 27.30	810.18	199077.	3.70	53766.	1359.	13.92	0.0230	0.	73.	0.10
MILE 25.20	810.08	199075.	3.10	64142.	1347.	14.73	0.0230	0.	76.	0.08
MILE 23.10	809.86	199075.	3.68	54064.	1473.	13.98	0.0230	0.	80.	0.11

ODATE 10-07-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 20.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80 867.19 200000. 10.22 19577. 865. 9.43 0.0290 0. 48. 0.38

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 211 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	77.70	864.87	199996.	8.02	24938.	1043.	10.21	0.0400	0.	54.	0.29
MILE	75.60	858.02	199988.	8.88	22516.	1744.	9.57	0.0400	0.	52.	0.44
MILE	73.50	849.68	199977.	9.55	20948.	1281.	9.58	0.0330	0.	50.	0.42
MILE	71.40	846.42	199964.	6.95	28769.	1141.	9.17	0.0400	0.	49.	0.24
MILE	69.30	841.91	199948.	7.43	26926.	1121.	9.26	0.0340	0.	43.	0.27
MILE	67.20	839.70	199917.	4.83	41352.	2422.	8.80	0.0340	0.	49.	0.21
MILE	65.10	836.49	199864.	6.38	31347.	2996.	9.24	0.0320	0.	49.	0.35
MILE	63.00	834.56	199806.	5.30	37722.	2393.	8.81	0.0400	0.	54.	0.24
MILE	60.90	829.80	199757.	7.21	27690.	1933.	9.31	0.0450	0.	53.	0.34
MILE	58.80	822.56	199718.	7.70	25949.	1372.	8.29	0.0400	0.	49.	0.31
MILE	57.00	820.80	199692.	7.92	25212.	1420.	8.82	0.0200	0.	46.	0.33
MILE	55.00	818.47	199662.	8.99	22212.	1377.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.61	199634.	6.19	32249.	1643.	8.60	0.0200	0.	44.	0.25
MILE	51.00	816.29	199595.	6.44	31017.	2178.	8.19	0.0200	0.	47.	0.30
MILE	48.30	815.50	199514.	4.67	42712.	4378.	9.55	0.0200	0.	47.	0.26
MILE	46.20	814.86	199433.	5.26	37902.	4422.	10.32	0.0200	0.	53.	0.32
MILE	44.10	814.79	199371.	3.23	61648.	2469.	10.64	0.0300	0.	60.	0.11
MILE	43.70	813.99	199363.	7.27	27409.	2315.	11.61	0.0300	0.	61.	0.37
MILE	42.00	813.57	199339.	3.91	50967.	2186.	9.18	0.0300	0.	64.	0.14
MILE	39.10	811.78	199306.	5.75	34647.	2145.	11.01	0.0230	0.	61.	0.25
MILE	37.00	811.72	199291.	3.21	62093.	1622.	10.86	0.0280	0.	60.	0.09
MILE	36.00	811.11	199287.	5.69	35002.	1210.	11.44	0.0280	0.	62.	0.19
MILE	34.60	810.88	199283.	4.13	48245.	1714.	12.56	0.0280	0.	62.	0.14
MILE	33.60	811.00	199278.	1.82	109283.	3045.	11.52	0.0290	0.	68.	0.05
MILE	31.50	810.58	199268.	4.26	46812.	2409.	13.14	0.0250	0.	72.	0.17
MILE	30.10	810.39	199266.	3.90	51073.	1091.	12.45	0.0200	0.	70.	0.10
MILE	29.00	810.31	199265.	3.77	52893.	1402.	13.60	0.0200	0.	71.	0.11
MILE	27.30	810.18	199263.	3.71	53766.	1359.	13.92	0.0230	0.	73.	0.10
MILE	25.20	810.08	199262.	3.11	64142.	1347.	14.73	0.0230	0.	76.	0.08
MILE	23.10	809.86	199262.	3.69	54064.	1473.	13.98	0.0230	0.	80.	0.11

ODATE 10-07-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 21.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE	79.80	867.19	200000.	10.22	19578.	865.	9.43	0.0290	0.	48.	0.38
MILE	77.70	864.87	199997.	8.02	24939.	1043.	10.21	0.0400	0.	54.	0.29
MILE	75.60	858.02	199991.	8.88	22517.	1744.	9.57	0.0400	0.	52.	0.44
MILE	73.50	849.68	199981.	9.55	20949.	1281.	9.58	0.0330	0.	50.	0.42
MILE	71.40	846.42	199971.	6.95	28772.	1141.	9.18	0.0400	0.	49.	0.24
MILE	69.30	841.91	199958.	7.43	26929.	1121.	9.26	0.0340	0.	43.	0.27
MILE	67.20	839.70	199934.	4.83	41359.	2422.	8.80	0.0340	0.	49.	0.21
MILE	65.10	836.49	199891.	6.38	31353.	2996.	9.24	0.0320	0.	49.	0.35
MILE	63.00	834.57	199846.	5.30	37731.	2393.	8.81	0.0400	0.	54.	0.24
MILE	60.90	829.81	199806.	7.21	27696.	1933.	9.31	0.0450	0.	53.	0.34
MILE	58.80	822.57	199776.	7.70	25956.	1373.	8.29	0.0400	0.	49.	0.31
MILE	57.00	820.81	199754.	7.92	25219.	1421.	8.82	0.0200	0.	46.	0.33

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Appendix E		Checked	ACM

MILE	55.00	818.47	199731.	8.99	22218.	1377.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.62	199708.	6.19	32257.	1643.	8.60	0.0200	0.	44.	0.25
MILE	51.00	816.29	199677.	6.44	31023.	2179.	8.19	0.0200	0.	47.	0.30
MILE	48.30	815.50	199612.	4.67	42720.	4379.	9.55	0.0200	0.	47.	0.26
MILE	46.20	814.87	199548.	5.26	37908.	4423.	10.32	0.0200	0.	53.	0.32
MILE	44.10	814.80	199498.	3.24	61659.	2470.	10.64	0.0300	0.	60.	0.11
MILE	43.70	813.99	199492.	7.28	27412.	2315.	11.61	0.0300	0.	61.	0.37
MILE	42.00	813.57	199472.	3.91	50975.	2186.	9.18	0.0300	0.	64.	0.14
MILE	39.10	811.79	199446.	5.76	34649.	2145.	11.01	0.0230	0.	61.	0.25
MILE	37.00	811.72	199435.	3.21	62097.	1622.	10.86	0.0280	0.	60.	0.09
MILE	36.00	811.11	199431.	5.70	35003.	1210.	11.44	0.0280	0.	62.	0.19
MILE	34.60	810.88	199428.	4.13	48246.	1714.	12.56	0.0280	0.	62.	0.14
MILE	33.60	811.00	199424.	1.82	109287.	3045.	11.52	0.0290	0.	68.	0.05
MILE	31.50	810.58	199416.	4.26	46813.	2409.	13.14	0.0250	0.	72.	0.17
MILE	30.10	810.39	199414.	3.90	51074.	1091.	12.45	0.0200	0.	70.	0.10
MILE	29.00	810.31	199413.	3.77	52893.	1402.	13.60	0.0200	0.	71.	0.11
MILE	27.30	810.18	199412.	3.71	53766.	1359.	13.92	0.0230	0.	73.	0.10
MILE	25.20	810.08	199411.	3.11	64143.	1347.	14.73	0.0230	0.	76.	0.08
MILE	23.10	809.86	199411.	3.69	54064.	1473.	13.98	0.0230	0.	80.	0.11

0DATE 10-07-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 22.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	867.19	200000.	10.22	19578.	865.	9.43	0.0290	0.	48.	0.38
MILE	77.70	864.87	199998.	8.02	24940.	1044.	10.21	0.0400	0.	54.	0.29
MILE	75.60	858.02	199993.	8.88	22518.	1744.	9.57	0.0400	0.	52.	0.44
MILE	73.50	849.68	199985.	9.55	20950.	1281.	9.58	0.0330	0.	50.	0.42
MILE	71.40	846.43	199977.	6.95	28775.	1141.	9.18	0.0400	0.	49.	0.24
MILE	69.30	841.92	199967.	7.42	26932.	1121.	9.26	0.0340	0.	43.	0.27
MILE	67.20	839.70	199947.	4.83	41364.	2422.	8.80	0.0340	0.	49.	0.21
MILE	65.10	836.50	199913.	6.38	31357.	2997.	9.24	0.0320	0.	49.	0.35
MILE	63.00	834.57	199877.	5.30	37738.	2393.	8.81	0.0400	0.	54.	0.24
MILE	60.90	829.81	199846.	7.21	27702.	1934.	9.31	0.0450	0.	53.	0.34
MILE	58.80	822.58	199821.	7.70	25962.	1373.	8.29	0.0400	0.	49.	0.31
MILE	57.00	820.81	199804.	7.92	25225.	1421.	8.82	0.0200	0.	46.	0.33
MILE	55.00	818.48	199785.	8.99	22223.	1378.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.62	199767.	6.19	32263.	1644.	8.60	0.0200	0.	44.	0.25
MILE	51.00	816.30	199742.	6.44	31029.	2179.	8.19	0.0200	0.	47.	0.30
MILE	48.30	815.51	199691.	4.67	42727.	4380.	9.55	0.0200	0.	47.	0.26
MILE	46.20	814.87	199639.	5.27	37913.	4423.	10.32	0.0200	0.	53.	0.32
MILE	44.10	814.80	199599.	3.24	61668.	2470.	10.64	0.0300	0.	60.	0.11
MILE	43.70	813.99	199595.	7.28	27414.	2315.	11.61	0.0300	0.	61.	0.37
MILE	42.00	813.58	199579.	3.91	50982.	2186.	9.18	0.0300	0.	64.	0.14
MILE	39.10	811.79	199558.	5.76	34651.	2145.	11.01	0.0230	0.	61.	0.25
MILE	37.00	811.72	199549.	3.21	62100.	1622.	10.86	0.0280	0.	60.	0.09
MILE	36.00	811.11	199546.	5.70	35004.	1210.	11.44	0.0280	0.	62.	0.19

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 213 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	34.60	810.89	199544.	4.14	48247.	1714.	12.56	0.0280	0.	62.	0.14
MILE	33.60	811.00	199541.	1.83	109290.	3045.	11.52	0.0290	0.	68.	0.05
MILE	31.50	810.58	199534.	4.26	46814.	2409.	13.14	0.0250	0.	72.	0.17
MILE	30.10	810.39	199532.	3.91	51075.	1091.	12.45	0.0200	0.	70.	0.10
MILE	29.00	810.31	199532.	3.77	52894.	1402.	13.60	0.0200	0.	71.	0.11
MILE	27.30	810.18	199531.	3.71	53767.	1359.	13.92	0.0230	0.	73.	0.10
MILE	25.20	810.08	199530.	3.11	64143.	1347.	14.73	0.0230	0.	76.	0.08
MILE	23.10	809.86	199530.	3.69	54064.	1473.	13.98	0.0230	0.	80.	0.11

ODATE 10-07-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 23.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	867.19	200000.	10.22	19579.	865.	9.43	0.0290	0.	48.	0.38
MILE	77.70	864.87	199998.	8.02	24941.	1044.	10.21	0.0400	0.	54.	0.29
MILE	75.60	858.02	199994.	8.88	22519.	1744.	9.57	0.0400	0.	52.	0.44
MILE	73.50	849.68	199988.	9.55	20951.	1281.	9.58	0.0330	0.	50.	0.42
MILE	71.40	846.43	199982.	6.95	28777.	1141.	9.18	0.0400	0.	49.	0.24
MILE	69.30	841.92	199973.	7.42	26935.	1121.	9.26	0.0340	0.	43.	0.27
MILE	67.20	839.71	199958.	4.83	41368.	2423.	8.80	0.0340	0.	49.	0.21
MILE	65.10	836.50	199931.	6.38	31361.	2997.	9.24	0.0320	0.	50.	0.35
MILE	63.00	834.58	199902.	5.30	37743.	2394.	8.81	0.0400	0.	54.	0.24
MILE	60.90	829.81	199877.	7.21	27706.	1934.	9.31	0.0450	0.	53.	0.34
MILE	58.80	822.58	199857.	7.70	25967.	1373.	8.29	0.0400	0.	50.	0.31
MILE	57.00	820.82	199844.	7.92	25230.	1421.	8.82	0.0200	0.	46.	0.33
MILE	55.00	818.48	199829.	8.99	22227.	1378.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.62	199814.	6.19	32268.	1644.	8.60	0.0200	0.	44.	0.25
MILE	51.00	816.30	199794.	6.44	31033.	2179.	8.19	0.0200	0.	47.	0.30
MILE	48.30	815.51	199753.	4.67	42732.	4380.	9.55	0.0200	0.	47.	0.26
MILE	46.20	814.87	199712.	5.27	37918.	4424.	10.32	0.0200	0.	53.	0.32
MILE	44.10	814.80	199680.	3.24	61675.	2470.	10.64	0.0300	0.	60.	0.11
MILE	43.70	814.00	199676.	7.28	27416.	2315.	11.61	0.0300	0.	61.	0.37
MILE	42.00	813.58	199664.	3.92	50987.	2186.	9.18	0.0300	0.	64.	0.14
MILE	39.10	811.79	199648.	5.76	34652.	2145.	11.01	0.0230	0.	61.	0.25
MILE	37.00	811.73	199640.	3.21	62102.	1622.	10.86	0.0280	0.	60.	0.09
MILE	36.00	811.11	199638.	5.70	35005.	1210.	11.44	0.0280	0.	62.	0.19
MILE	34.60	810.89	199636.	4.14	48248.	1714.	12.56	0.0280	0.	62.	0.14
MILE	33.60	811.00	199633.	1.83	109293.	3045.	11.52	0.0290	0.	68.	0.05
MILE	31.50	810.58	199628.	4.26	46814.	2409.	13.14	0.0250	0.	72.	0.17
MILE	30.10	810.39	199627.	3.91	51075.	1091.	12.45	0.0200	0.	70.	0.10
MILE	29.00	810.31	199626.	3.77	52894.	1402.	13.60	0.0200	0.	71.	0.11
MILE	27.30	810.18	199626.	3.71	53767.	1359.	13.92	0.0230	0.	73.	0.10
MILE	25.20	810.08	199625.	3.11	64143.	1347.	14.73	0.0230	0.	76.	0.08
MILE	23.10	809.86	199625.	3.69	54064.	1473.	13.98	0.0230	0.	80.	0.11

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 214 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

0DATE 10-08-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 0.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL
	INFLOW DEPTH	FROUDE							
MILE 79.80	867.19	200000.	10.21	19579.	865.	9.43	0.0290	0.	48. 0.38
MILE 77.70	864.87	199998.	8.02	24941.	1044.	10.22	0.0400	0.	54. 0.29
MILE 75.60	858.02	199995.	8.88	22519.	1744.	9.57	0.0400	0.	52. 0.44
MILE 73.50	849.68	199990.	9.55	20952.	1281.	9.58	0.0330	0.	50. 0.42
MILE 71.40	846.43	199985.	6.95	28778.	1141.	9.18	0.0400	0.	49. 0.24
MILE 69.30	841.92	199979.	7.42	26937.	1121.	9.26	0.0340	0.	43. 0.27
MILE 67.20	839.71	199966.	4.83	41372.	2423.	8.80	0.0340	0.	49. 0.21
MILE 65.10	836.50	199945.	6.38	31364.	2997.	9.24	0.0320	0.	50. 0.35
MILE 63.00	834.58	199922.	5.30	37748.	2394.	8.81	0.0400	0.	54. 0.24
MILE 60.90	829.82	199902.	7.21	27709.	1934.	9.31	0.0450	0.	53. 0.34
MILE 58.80	822.58	199886.	7.70	25971.	1373.	8.29	0.0400	0.	50. 0.31
MILE 57.00	820.82	199875.	7.92	25234.	1421.	8.82	0.0200	0.	46. 0.33
MILE 55.00	818.48	199863.	8.99	22230.	1378.	8.64	0.0200	0.	45. 0.39
MILE 53.10	817.63	199852.	6.19	32272.	1644.	8.60	0.0200	0.	44. 0.25
MILE 51.00	816.31	199836.	6.44	31036.	2179.	8.19	0.0200	0.	47. 0.30
MILE 48.30	815.51	199803.	4.68	42736.	4381.	9.55	0.0200	0.	47. 0.26
MILE 46.20	814.88	199770.	5.27	37921.	4424.	10.32	0.0200	0.	53. 0.32
MILE 44.10	814.81	199745.	3.24	61680.	2470.	10.64	0.0300	0.	60. 0.11
MILE 43.70	814.00	199742.	7.29	27417.	2315.	11.61	0.0300	0.	61. 0.37
MILE 42.00	813.58	199732.	3.92	50991.	2186.	9.18	0.0300	0.	64. 0.14
MILE 39.10	811.79	199719.	5.76	34653.	2145.	11.01	0.0230	0.	61. 0.25
MILE 37.00	811.73	199713.	3.22	62104.	1622.	10.86	0.0280	0.	60. 0.09
MILE 36.00	811.11	199711.	5.71	35006.	1210.	11.44	0.0280	0.	62. 0.19
MILE 34.60	810.89	199709.	4.14	48249.	1714.	12.56	0.0280	0.	62. 0.14
MILE 33.60	811.00	199707.	1.83	109295.	3045.	11.52	0.0290	0.	68. 0.05
MILE 31.50	810.58	199703.	4.27	46815.	2409.	13.14	0.0250	0.	72. 0.17
MILE 30.10	810.39	199702.	3.91	51075.	1091.	12.45	0.0200	0.	70. 0.10
MILE 29.00	810.31	199702.	3.78	52894.	1402.	13.60	0.0200	0.	71. 0.11
MILE 27.30	810.18	199701.	3.71	53767.	1359.	13.92	0.0230	0.	73. 0.10
MILE 25.20	810.08	199701.	3.11	64143.	1347.	14.73	0.0230	0.	76. 0.08
MILE 23.10	809.86	199701.	3.69	54064.	1473.	13.98	0.0230	0.	80. 0.11

0DATE 10-08-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 1.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL
	INFLOW DEPTH	FROUDE							
MILE 79.80	867.19	200000.	10.21	19580.	865.	9.43	0.0290	0.	48. 0.38
MILE 77.70	864.87	199999.	8.02	24942.	1044.	10.22	0.0400	0.	54. 0.29
MILE 75.60	858.03	199996.	8.88	22520.	1744.	9.57	0.0400	0.	52. 0.44
MILE 73.50	849.68	199992.	9.55	20952.	1281.	9.58	0.0330	0.	50. 0.42
MILE 71.40	846.43	199988.	6.95	28780.	1141.	9.18	0.0400	0.	49. 0.24

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 215 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	69.30	841.92	199983.	7.42	26938.	1121.	9.26	0.0340	0.	43.	0.27
MILE	67.20	839.71	199973.	4.83	41374.	2423.	8.80	0.0340	0.	49.	0.21
MILE	65.10	836.51	199956.	6.37	31366.	2997.	9.24	0.0320	0.	50.	0.35
MILE	63.00	834.58	199937.	5.30	37752.	2394.	8.81	0.0400	0.	54.	0.24
MILE	60.90	829.82	199921.	7.21	27712.	1934.	9.31	0.0450	0.	53.	0.34
MILE	58.80	822.59	199909.	7.70	25974.	1373.	8.29	0.0400	0.	50.	0.31
MILE	57.00	820.82	199900.	7.92	25236.	1421.	8.82	0.0200	0.	46.	0.33
MILE	55.00	818.49	199891.	8.99	22232.	1378.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.63	199882.	6.19	32275.	1644.	8.60	0.0200	0.	44.	0.25
MILE	51.00	816.31	199869.	6.44	31039.	2180.	8.19	0.0200	0.	47.	0.30
MILE	48.30	815.51	199843.	4.68	42739.	4381.	9.55	0.0200	0.	47.	0.26
MILE	46.20	814.88	199816.	5.27	37924.	4424.	10.33	0.0200	0.	53.	0.32
MILE	44.10	814.81	199796.	3.24	61685.	2470.	10.64	0.0300	0.	60.	0.11
MILE	43.70	814.00	199794.	7.29	27419.	2315.	11.61	0.0300	0.	61.	0.37
MILE	42.00	813.58	199786.	3.92	50995.	2186.	9.18	0.0300	0.	64.	0.14
MILE	39.10	811.79	199775.	5.76	34654.	2145.	11.01	0.0230	0.	61.	0.25
MILE	37.00	811.73	199771.	3.22	62106.	1622.	10.86	0.0280	0.	60.	0.09
MILE	36.00	811.12	199769.	5.71	35007.	1210.	11.44	0.0280	0.	62.	0.19
MILE	34.60	810.89	199768.	4.14	48249.	1714.	12.56	0.0280	0.	62.	0.14
MILE	33.60	811.00	199766.	1.83	109296.	3045.	11.52	0.0290	0.	68.	0.05
MILE	31.50	810.58	199763.	4.27	46815.	2409.	13.14	0.0250	0.	72.	0.17
MILE	30.10	810.39	199762.	3.91	51076.	1091.	12.45	0.0200	0.	70.	0.10
MILE	29.00	810.31	199762.	3.78	52895.	1402.	13.60	0.0200	0.	71.	0.11
MILE	27.30	810.18	199761.	3.72	53767.	1359.	13.92	0.0230	0.	73.	0.10
MILE	25.20	810.08	199761.	3.11	64143.	1347.	14.73	0.0230	0.	76.	0.08
MILE	23.10	809.86	199761.	3.69	54064.	1473.	13.98	0.0230	0.	80.	0.11

0DATE 10-08-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 2.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE	79.80	867.19	200000.	10.21	19580.	865.	9.43	0.0290	0.	48.	0.38
MILE	77.70	864.87	199999.	8.02	24942.	1044.	10.22	0.0400	0.	54.	0.29
MILE	75.60	858.03	199997.	8.88	22520.	1744.	9.57	0.0400	0.	52.	0.44
MILE	73.50	849.68	199994.	9.54	20953.	1281.	9.58	0.0330	0.	50.	0.42
MILE	71.40	846.43	199991.	6.95	28781.	1141.	9.18	0.0400	0.	49.	0.24
MILE	69.30	841.93	199986.	7.42	26939.	1121.	9.26	0.0340	0.	43.	0.27
MILE	67.20	839.71	199978.	4.83	41377.	2423.	8.80	0.0340	0.	49.	0.21
MILE	65.10	836.51	199965.	6.37	31368.	2998.	9.24	0.0320	0.	50.	0.35
MILE	63.00	834.58	199950.	5.30	37754.	2394.	8.81	0.0400	0.	54.	0.24
MILE	60.90	829.82	199937.	7.21	27714.	1934.	9.31	0.0450	0.	53.	0.34
MILE	58.80	822.59	199927.	7.70	25977.	1373.	8.29	0.0400	0.	50.	0.31
MILE	57.00	820.82	199920.	7.92	25239.	1421.	8.82	0.0200	0.	46.	0.33
MILE	55.00	818.49	199913.	8.99	22234.	1378.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.63	199905.	6.19	32277.	1644.	8.60	0.0200	0.	44.	0.25
MILE	51.00	816.31	199895.	6.44	31041.	2180.	8.19	0.0200	0.	47.	0.30
MILE	48.30	815.52	199874.	4.68	42742.	4381.	9.55	0.0200	0.	47.	0.26

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 216 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	46.20	814.88	199853.	5.27	37926.	4425.	10.33	0.0200	0.	53.	0.32
MILE	44.10	814.81	199837.	3.24	61689.	2470.	10.64	0.0300	0.	60.	0.11
MILE	43.70	814.00	199835.	7.29	27420.	2315.	11.61	0.0300	0.	61.	0.37
MILE	42.00	813.59	199829.	3.92	50997.	2186.	9.18	0.0300	0.	64.	0.14
MILE	39.10	811.79	199821.	5.77	34655.	2145.	11.01	0.0230	0.	61.	0.25
MILE	37.00	811.73	199817.	3.22	62107.	1622.	10.86	0.0280	0.	60.	0.09
MILE	36.00	811.12	199816.	5.71	35007.	1210.	11.44	0.0280	0.	62.	0.19
MILE	34.60	810.89	199815.	4.14	48250.	1714.	12.56	0.0280	0.	62.	0.14
MILE	33.60	811.00	199813.	1.83	109298.	3045.	11.52	0.0290	0.	68.	0.05
MILE	31.50	810.58	199811.	4.27	46815.	2409.	13.14	0.0250	0.	72.	0.17
MILE	30.10	810.40	199810.	3.91	51076.	1091.	12.45	0.0200	0.	70.	0.10
MILE	29.00	810.31	199810.	3.78	52895.	1402.	13.60	0.0200	0.	71.	0.11
MILE	27.30	810.18	199809.	3.72	53767.	1359.	13.92	0.0230	0.	73.	0.10
MILE	25.20	810.08	199809.	3.12	64143.	1347.	14.73	0.0230	0.	76.	0.08
MILE	23.10	809.86	199809.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

ODATE 10-08-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	3.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL	
INFLOW	DEPTH	FROUDE									
MILE	79.80	867.19	200000.	10.21	19580.	865.	9.43	0.0290	0.	48.	0.38
MILE	77.70	864.87	199999.	8.02	24942.	1044.	10.22	0.0400	0.	54.	0.29
MILE	75.60	858.03	199998.	8.88	22520.	1744.	9.57	0.0400	0.	52.	0.44
MILE	73.50	849.68	199995.	9.54	20953.	1281.	9.58	0.0330	0.	50.	0.42
MILE	71.40	846.43	199992.	6.95	28781.	1141.	9.18	0.0400	0.	49.	0.24
MILE	69.30	841.93	199989.	7.42	26940.	1121.	9.26	0.0340	0.	43.	0.27
MILE	67.20	839.71	199983.	4.83	41378.	2423.	8.80	0.0340	0.	49.	0.21
MILE	65.10	836.51	199972.	6.37	31369.	2998.	9.24	0.0320	0.	50.	0.35
MILE	63.00	834.59	199960.	5.30	37757.	2394.	8.81	0.0400	0.	54.	0.24
MILE	60.90	829.82	199950.	7.21	27715.	1934.	9.31	0.0450	0.	53.	0.34
MILE	58.80	822.59	199942.	7.70	25978.	1374.	8.29	0.0400	0.	50.	0.31
MILE	57.00	820.83	199936.	7.92	25241.	1422.	8.82	0.0200	0.	46.	0.33
MILE	55.00	818.49	199930.	8.99	22236.	1378.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.63	199924.	6.19	32279.	1644.	8.60	0.0200	0.	44.	0.25
MILE	51.00	816.31	199916.	6.44	31043.	2180.	8.19	0.0200	0.	47.	0.30
MILE	48.30	815.52	199900.	4.68	42744.	4381.	9.55	0.0200	0.	47.	0.26
MILE	46.20	814.88	199883.	5.27	37927.	4425.	10.33	0.0200	0.	53.	0.32
MILE	44.10	814.81	199870.	3.24	61691.	2470.	10.64	0.0300	0.	60.	0.11
MILE	43.70	814.00	199868.	7.29	27420.	2316.	11.61	0.0300	0.	61.	0.37
MILE	42.00	813.59	199863.	3.92	50999.	2186.	9.18	0.0300	0.	64.	0.14
MILE	39.10	811.79	199857.	5.77	34656.	2145.	11.01	0.0230	0.	61.	0.25
MILE	37.00	811.73	199854.	3.22	62108.	1622.	10.86	0.0280	0.	60.	0.09
MILE	36.00	811.12	199853.	5.71	35007.	1210.	11.44	0.0280	0.	62.	0.19
MILE	34.60	810.89	199852.	4.14	48250.	1714.	12.56	0.0280	0.	62.	0.14
MILE	33.60	811.00	199851.	1.83	109299.	3045.	11.52	0.0290	0.	68.	0.05
MILE	31.50	810.58	199849.	4.27	46816.	2409.	13.14	0.0250	0.	72.	0.17
MILE	30.10	810.40	199848.	3.91	51076.	1091.	12.45	0.0200	0.	70.	0.10

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 217 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	29.00	810.31	199848.	3.78	52895.	1402.	13.60	0.0200	0.	71.	0.11
MILE	27.30	810.18	199848.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE	25.20	810.08	199848.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE	23.10	809.86	199847.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

0DATE 10-08-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 4.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	867.19	200000.	10.21	19580.	865.	9.43	0.0290	0.	48.	0.38
MILE	77.70	864.87	199999.	8.02	24942.	1044.	10.22	0.0400	0.	54.	0.29
MILE	75.60	858.03	199998.	8.88	22520.	1744.	9.57	0.0400	0.	52.	0.44
MILE	73.50	849.69	199996.	9.54	20953.	1281.	9.58	0.0330	0.	50.	0.42
MILE	71.40	846.43	199994.	6.95	28782.	1141.	9.18	0.0400	0.	49.	0.24
MILE	69.30	841.93	199991.	7.42	26941.	1121.	9.26	0.0340	0.	43.	0.27
MILE	67.20	839.72	199986.	4.83	41380.	2423.	8.80	0.0340	0.	49.	0.21
MILE	65.10	836.51	199977.	6.37	31370.	2998.	9.24	0.0320	0.	50.	0.35
MILE	63.00	834.59	199968.	5.30	37758.	2394.	8.81	0.0400	0.	54.	0.24
MILE	60.90	829.82	199960.	7.21	27717.	1934.	9.31	0.0450	0.	53.	0.34
MILE	58.80	822.59	199953.	7.70	25980.	1374.	8.29	0.0400	0.	50.	0.31
MILE	57.00	820.83	199949.	7.92	25242.	1422.	8.82	0.0200	0.	46.	0.33
MILE	55.00	818.49	199944.	8.99	22237.	1378.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.63	199939.	6.19	32280.	1644.	8.60	0.0200	0.	44.	0.25
MILE	51.00	816.31	199933.	6.44	31044.	2180.	8.19	0.0200	0.	47.	0.30
MILE	48.30	815.52	199920.	4.68	42746.	4381.	9.55	0.0200	0.	47.	0.26
MILE	46.20	814.88	199906.	5.27	37929.	4425.	10.33	0.0200	0.	53.	0.32
MILE	44.10	814.81	199896.	3.24	61694.	2470.	10.64	0.0300	0.	60.	0.11
MILE	43.70	814.00	199895.	7.29	27421.	2316.	11.61	0.0300	0.	61.	0.37
MILE	42.00	813.59	199891.	3.92	51001.	2186.	9.18	0.0300	0.	64.	0.14
MILE	39.10	811.79	199885.	5.77	34656.	2145.	11.01	0.0230	0.	61.	0.25
MILE	37.00	811.73	199883.	3.22	62109.	1622.	10.86	0.0280	0.	60.	0.09
MILE	36.00	811.12	199882.	5.71	35008.	1210.	11.44	0.0280	0.	62.	0.19
MILE	34.60	810.89	199882.	4.14	48250.	1714.	12.56	0.0280	0.	62.	0.14
MILE	33.60	811.00	199881.	1.83	109299.	3045.	11.52	0.0290	0.	68.	0.05
MILE	31.50	810.58	199879.	4.27	46816.	2409.	13.14	0.0250	0.	72.	0.17
MILE	30.10	810.40	199879.	3.91	51076.	1091.	12.45	0.0200	0.	70.	0.10
MILE	29.00	810.31	199879.	3.78	52895.	1402.	13.60	0.0200	0.	71.	0.11
MILE	27.30	810.18	199878.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE	25.20	810.08	199878.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE	23.10	809.86	199878.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

0DATE 10-08-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 218 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

	TIME 5.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
INFLOW	DEPTH	FROUDE									
MILE	79.80	867.19	200000.	10.21	19580.	865.	9.43	0.0290	0.	48.	0.38
MILE	77.70	864.87	199999.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE	75.60	858.03	199998.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE	73.50	849.69	199997.	9.54	20954.	1281.	9.58	0.0330	0.	50.	0.42
MILE	71.40	846.43	199995.	6.95	28783.	1141.	9.18	0.0400	0.	49.	0.24
MILE	69.30	841.93	199993.	7.42	26942.	1121.	9.26	0.0340	0.	43.	0.27
MILE	67.20	839.72	199989.	4.83	41381.	2423.	8.80	0.0340	0.	49.	0.21
MILE	65.10	836.51	199982.	6.37	31371.	2998.	9.24	0.0320	0.	50.	0.35
MILE	63.00	834.59	199974.	5.30	37760.	2394.	8.81	0.0400	0.	54.	0.24
MILE	60.90	829.83	199968.	7.21	27718.	1934.	9.31	0.0450	0.	53.	0.34
MILE	58.80	822.59	199963.	7.70	25981.	1374.	8.29	0.0400	0.	50.	0.31
MILE	57.00	820.83	199959.	7.92	25243.	1422.	8.82	0.0200	0.	46.	0.33
MILE	55.00	818.49	199955.	8.99	22238.	1378.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.64	199952.	6.19	32282.	1644.	8.60	0.0200	0.	44.	0.25
MILE	51.00	816.31	199946.	6.44	31045.	2180.	8.19	0.0200	0.	47.	0.30
MILE	48.30	815.52	199936.	4.68	42747.	4382.	9.55	0.0200	0.	47.	0.26
MILE	46.20	814.88	199925.	5.27	37930.	4425.	10.33	0.0200	0.	53.	0.32
MILE	44.10	814.81	199917.	3.24	61695.	2470.	10.64	0.0300	0.	60.	0.11
MILE	43.70	814.00	199916.	7.29	27422.	2316.	11.61	0.0300	0.	61.	0.37
MILE	42.00	813.59	199913.	3.92	51002.	2186.	9.18	0.0300	0.	64.	0.14
MILE	39.10	811.79	199908.	5.77	34656.	2145.	11.01	0.0230	0.	61.	0.25
MILE	37.00	811.73	199907.	3.22	62110.	1622.	10.86	0.0280	0.	60.	0.09
MILE	36.00	811.12	199906.	5.71	35008.	1210.	11.44	0.0280	0.	62.	0.19
MILE	34.60	810.89	199905.	4.14	48250.	1714.	12.56	0.0280	0.	62.	0.14
MILE	33.60	811.01	199905.	1.83	109300.	3045.	11.52	0.0290	0.	68.	0.05
MILE	31.50	810.59	199903.	4.27	46816.	2409.	13.14	0.0250	0.	72.	0.17
MILE	30.10	810.40	199903.	3.91	51076.	1091.	12.45	0.0200	0.	70.	0.10
MILE	29.00	810.31	199903.	3.78	52895.	1402.	13.60	0.0200	0.	71.	0.11
MILE	27.30	810.18	199903.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE	25.20	810.08	199903.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE	23.10	809.86	199903.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

0DATE 10-08-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 6.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
INFLOW	DEPTH	FROUDE									
MILE	79.80	867.19	200000.	10.21	19580.	865.	9.43	0.0290	0.	48.	0.38
MILE	77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE	75.60	858.03	199999.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE	73.50	849.69	199997.	9.54	20954.	1281.	9.58	0.0330	0.	50.	0.42
MILE	71.40	846.43	199996.	6.95	28783.	1141.	9.18	0.0400	0.	49.	0.24
MILE	69.30	841.93	199994.	7.42	26942.	1121.	9.26	0.0340	0.	43.	0.27
MILE	67.20	839.72	199991.	4.83	41382.	2423.	8.80	0.0340	0.	49.	0.21
MILE	65.10	836.51	199985.	6.37	31372.	2998.	9.24	0.0320	0.	50.	0.35

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 219 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	63.00	834.59	199979.	5.30	37761.	2394.	8.81	0.0400	0.	54.	0.24
MILE	60.90	829.83	199974.	7.21	27719.	1935.	9.31	0.0450	0.	53.	0.34
MILE	58.80	822.59	199970.	7.70	25982.	1374.	8.29	0.0400	0.	50.	0.31
MILE	57.00	820.83	199967.	7.92	25244.	1422.	8.82	0.0200	0.	46.	0.33
MILE	55.00	818.49	199964.	8.99	22239.	1378.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.64	199961.	6.19	32283.	1644.	8.60	0.0200	0.	44.	0.25
MILE	51.00	816.31	199957.	6.44	31046.	2180.	8.19	0.0200	0.	47.	0.30
MILE	48.30	815.52	199949.	4.68	42748.	4382.	9.55	0.0200	0.	47.	0.26
MILE	46.20	814.88	199940.	5.27	37931.	4425.	10.33	0.0200	0.	53.	0.32
MILE	44.10	814.81	199934.	3.24	61697.	2470.	10.64	0.0300	0.	60.	0.11
MILE	43.70	814.00	199933.	7.29	27422.	2316.	11.61	0.0300	0.	61.	0.37
MILE	42.00	813.59	199930.	3.92	51003.	2186.	9.18	0.0300	0.	64.	0.14
MILE	39.10	811.79	199927.	5.77	34657.	2145.	11.01	0.0230	0.	61.	0.25
MILE	37.00	811.73	199925.	3.22	62110.	1622.	10.86	0.0280	0.	60.	0.09
MILE	36.00	811.12	199925.	5.71	35008.	1210.	11.44	0.0280	0.	62.	0.19
MILE	34.60	810.89	199924.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE	33.60	811.01	199924.	1.83	109301.	3045.	11.52	0.0290	0.	68.	0.05
MILE	31.50	810.59	199923.	4.27	46816.	2409.	13.14	0.0250	0.	72.	0.17
MILE	30.10	810.40	199922.	3.91	51077.	1091.	12.45	0.0200	0.	70.	0.10
MILE	29.00	810.31	199922.	3.78	52895.	1402.	13.60	0.0200	0.	71.	0.11
MILE	27.30	810.18	199922.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE	25.20	810.08	199922.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE	23.10	809.86	199922.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

ODATE 10-08-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	7.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL	
INFLOW	DEPTH	FROUDE									
MILE	79.80	867.19	200000.	10.21	19580.	865.	9.43	0.0290	0.	48.	0.38
MILE	77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE	75.60	858.03	199999.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE	73.50	849.69	199998.	9.54	20954.	1281.	9.58	0.0330	0.	50.	0.42
MILE	71.40	846.43	199997.	6.95	28783.	1141.	9.18	0.0400	0.	49.	0.24
MILE	69.30	841.93	199995.	7.42	26942.	1121.	9.26	0.0340	0.	43.	0.27
MILE	67.20	839.72	199993.	4.83	41382.	2423.	8.80	0.0340	0.	49.	0.21
MILE	65.10	836.51	199988.	6.37	31372.	2998.	9.24	0.0320	0.	50.	0.35
MILE	63.00	834.59	199983.	5.30	37762.	2394.	8.81	0.0400	0.	54.	0.24
MILE	60.90	829.83	199979.	7.21	27719.	1935.	9.31	0.0450	0.	53.	0.34
MILE	58.80	822.59	199976.	7.70	25983.	1374.	8.29	0.0400	0.	50.	0.31
MILE	57.00	820.83	199974.	7.92	25245.	1422.	8.82	0.0200	0.	46.	0.33
MILE	55.00	818.49	199971.	8.99	22240.	1378.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.64	199969.	6.19	32283.	1644.	8.60	0.0200	0.	44.	0.25
MILE	51.00	816.31	199966.	6.44	31047.	2180.	8.19	0.0200	0.	47.	0.30
MILE	48.30	815.52	199959.	4.68	42749.	4382.	9.55	0.0200	0.	47.	0.26
MILE	46.20	814.88	199952.	5.27	37931.	4425.	10.33	0.0200	0.	53.	0.32
MILE	44.10	814.81	199947.	3.24	61698.	2470.	10.64	0.0300	0.	60.	0.11
MILE	43.70	814.01	199946.	7.29	27422.	2316.	11.61	0.0300	0.	61.	0.37

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 220 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	42.00	813.59	199944.	3.92	51004.	2186.	9.18	0.0300	0.	64.	0.14
MILE	39.10	811.79	199941.	5.77	34657.	2145.	11.01	0.0230	0.	61.	0.25
MILE	37.00	811.73	199940.	3.22	62111.	1622.	10.86	0.0280	0.	60.	0.09
MILE	36.00	811.12	199940.	5.71	35008.	1210.	11.44	0.0280	0.	62.	0.19
MILE	34.60	810.89	199939.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE	33.60	811.01	199939.	1.83	109301.	3045.	11.52	0.0290	0.	68.	0.05
MILE	31.50	810.59	199938.	4.27	46816.	2409.	13.14	0.0250	0.	72.	0.17
MILE	30.10	810.40	199938.	3.91	51077.	1091.	12.45	0.0200	0.	70.	0.10
MILE	29.00	810.31	199938.	3.78	52895.	1402.	13.60	0.0200	0.	71.	0.11
MILE	27.30	810.18	199938.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE	25.20	810.08	199938.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE	23.10	809.86	199938.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

ODATE 10-08-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 8.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	867.19	200000.	10.21	19580.	865.	9.43	0.0290	0.	48.	0.38
MILE	77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE	75.60	858.03	199999.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE	73.50	849.69	199998.	9.54	20954.	1281.	9.58	0.0330	0.	50.	0.42
MILE	71.40	846.43	199997.	6.95	28784.	1141.	9.18	0.0400	0.	49.	0.24
MILE	69.30	841.93	199996.	7.42	26943.	1121.	9.26	0.0340	0.	43.	0.27
MILE	67.20	839.72	199994.	4.83	41383.	2423.	8.80	0.0340	0.	49.	0.21
MILE	65.10	836.51	199991.	6.37	31373.	2998.	9.24	0.0320	0.	50.	0.35
MILE	63.00	834.59	199987.	5.30	37763.	2394.	8.81	0.0400	0.	54.	0.24
MILE	60.90	829.83	199983.	7.21	27720.	1935.	9.31	0.0450	0.	53.	0.34
MILE	58.80	822.59	199981.	7.70	25984.	1374.	8.29	0.0400	0.	50.	0.31
MILE	57.00	820.83	199979.	7.92	25246.	1422.	8.82	0.0200	0.	46.	0.33
MILE	55.00	818.50	199977.	8.99	22240.	1378.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.64	199975.	6.19	32284.	1644.	8.60	0.0200	0.	44.	0.25
MILE	51.00	816.32	199972.	6.44	31047.	2180.	8.19	0.0200	0.	47.	0.30
MILE	48.30	815.52	199967.	4.68	42750.	4382.	9.55	0.0200	0.	47.	0.26
MILE	46.20	814.89	199962.	5.27	37932.	4425.	10.33	0.0200	0.	53.	0.32
MILE	44.10	814.82	199957.	3.24	61699.	2470.	10.64	0.0300	0.	60.	0.11
MILE	43.70	814.01	199957.	7.29	27423.	2316.	11.61	0.0300	0.	61.	0.37
MILE	42.00	813.59	199955.	3.92	51005.	2186.	9.18	0.0300	0.	64.	0.14
MILE	39.10	811.79	199953.	5.77	34657.	2145.	11.01	0.0230	0.	61.	0.25
MILE	37.00	811.73	199952.	3.22	62111.	1622.	10.86	0.0280	0.	60.	0.09
MILE	36.00	811.12	199952.	5.71	35008.	1210.	11.44	0.0280	0.	62.	0.19
MILE	34.60	810.89	199952.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE	33.60	811.01	199951.	1.83	109301.	3045.	11.52	0.0290	0.	68.	0.05
MILE	31.50	810.59	199950.	4.27	46816.	2409.	13.14	0.0250	0.	72.	0.17
MILE	30.10	810.40	199950.	3.91	51077.	1091.	12.45	0.0200	0.	70.	0.10
MILE	29.00	810.31	199950.	3.78	52895.	1402.	13.60	0.0200	0.	71.	0.11
MILE	27.30	810.18	199950.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE	25.20	810.08	199950.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 221 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 23.10 809.86 199950. 3.70 54064. 1473. 13.98 0.0230 0. 80. 0.11

0DATE 10-08-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	9.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL
INFLOW	DEPTH	FROUDE								
MILE	79.80	867.19	200000.	10.21	19580.	865.	9.43	0.0290	0.	48. 0.38
MILE	77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54. 0.29
MILE	75.60	858.03	199999.	8.88	22521.	1744.	9.57	0.0400	0.	52. 0.44
MILE	73.50	849.69	199999.	9.54	20954.	1281.	9.58	0.0330	0.	50. 0.42
MILE	71.40	846.43	199998.	6.95	28784.	1141.	9.18	0.0400	0.	49. 0.24
MILE	69.30	841.93	199997.	7.42	26943.	1121.	9.26	0.0340	0.	43. 0.27
MILE	67.20	839.72	199995.	4.83	41383.	2423.	8.80	0.0340	0.	49. 0.21
MILE	65.10	836.51	199992.	6.37	31373.	2998.	9.24	0.0320	0.	50. 0.35
MILE	63.00	834.59	199989.	5.30	37763.	2394.	8.81	0.0400	0.	54. 0.23
MILE	60.90	829.83	199987.	7.21	27720.	1935.	9.31	0.0450	0.	53. 0.34
MILE	58.80	822.59	199985.	7.70	25984.	1374.	8.29	0.0400	0.	50. 0.31
MILE	57.00	820.83	199983.	7.92	25246.	1422.	8.82	0.0200	0.	46. 0.33
MILE	55.00	818.50	199982.	8.99	22241.	1378.	8.64	0.0200	0.	45. 0.39
MILE	53.10	817.64	199980.	6.19	32285.	1644.	8.60	0.0200	0.	44. 0.25
MILE	51.00	816.32	199978.	6.44	31048.	2180.	8.19	0.0200	0.	47. 0.30
MILE	48.30	815.52	199974.	4.68	42750.	4382.	9.55	0.0200	0.	47. 0.26
MILE	46.20	814.89	199969.	5.27	37932.	4425.	10.33	0.0200	0.	53. 0.32
MILE	44.10	814.82	199966.	3.24	61700.	2471.	10.64	0.0300	0.	60. 0.11
MILE	43.70	814.01	199965.	7.29	27423.	2316.	11.61	0.0300	0.	61. 0.37
MILE	42.00	813.59	199964.	3.92	51005.	2186.	9.18	0.0300	0.	64. 0.14
MILE	39.10	811.79	199962.	5.77	34657.	2145.	11.01	0.0230	0.	61. 0.25
MILE	37.00	811.73	199962.	3.22	62111.	1622.	10.86	0.0280	0.	60. 0.09
MILE	36.00	811.12	199961.	5.71	35008.	1210.	11.44	0.0280	0.	62. 0.19
MILE	34.60	810.89	199961.	4.14	48251.	1714.	12.56	0.0280	0.	62. 0.14
MILE	33.60	811.01	199961.	1.83	109302.	3045.	11.52	0.0290	0.	68. 0.05
MILE	31.50	810.59	199960.	4.27	46816.	2409.	13.14	0.0250	0.	72. 0.17
MILE	30.10	810.40	199960.	3.91	51077.	1091.	12.45	0.0200	0.	70. 0.10
MILE	29.00	810.31	199960.	3.78	52895.	1402.	13.60	0.0200	0.	71. 0.11
MILE	27.30	810.18	199960.	3.72	53768.	1359.	13.92	0.0230	0.	73. 0.10
MILE	25.20	810.08	199960.	3.12	64144.	1347.	14.73	0.0230	0.	76. 0.08
MILE	23.10	809.86	199960.	3.70	54064.	1473.	13.98	0.0230	0.	80. 0.11

0DATE 10-08-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	10.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL
INFLOW	DEPTH	FROUDE								
MILE	79.80	867.19	200000.	10.21	19581.	865.	9.43	0.0290	0.	48. 0.38

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 222 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE 75.60	858.03	199999.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE 73.50	849.69	199999.	9.54	20954.	1281.	9.58	0.0330	0.	50.	0.42
MILE 71.40	846.43	199998.	6.95	28784.	1141.	9.18	0.0400	0.	49.	0.24
MILE 69.30	841.93	199998.	7.42	26943.	1121.	9.26	0.0340	0.	43.	0.27
MILE 67.20	839.72	199996.	4.83	41384.	2423.	8.80	0.0340	0.	49.	0.21
MILE 65.10	836.51	199994.	6.37	31373.	2998.	9.24	0.0320	0.	50.	0.35
MILE 63.00	834.59	199991.	5.30	37764.	2394.	8.81	0.0400	0.	54.	0.23
MILE 60.90	829.83	199989.	7.21	27720.	1935.	9.31	0.0450	0.	53.	0.34
MILE 58.80	822.59	199988.	7.70	25985.	1374.	8.29	0.0400	0.	50.	0.31
MILE 57.00	820.83	199986.	7.92	25247.	1422.	8.82	0.0200	0.	46.	0.33
MILE 55.00	818.50	199985.	8.99	22241.	1378.	8.64	0.0200	0.	45.	0.39
MILE 53.10	817.64	199984.	6.19	32285.	1644.	8.60	0.0200	0.	44.	0.25
MILE 51.00	816.32	199982.	6.44	31048.	2180.	8.19	0.0200	0.	47.	0.30
MILE 48.30	815.52	199979.	4.68	42751.	4382.	9.55	0.0200	0.	47.	0.26
MILE 46.20	814.89	199975.	5.27	37933.	4425.	10.33	0.0200	0.	53.	0.32
MILE 44.10	814.82	199973.	3.24	61700.	2471.	10.64	0.0300	0.	60.	0.11
MILE 43.70	814.01	199972.	7.29	27423.	2316.	11.61	0.0300	0.	61.	0.37
MILE 42.00	813.59	199971.	3.92	51006.	2186.	9.18	0.0300	0.	64.	0.14
MILE 39.10	811.79	199970.	5.77	34657.	2145.	11.01	0.0230	0.	61.	0.25
MILE 37.00	811.73	199969.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE 36.00	811.12	199969.	5.71	35008.	1210.	11.44	0.0280	0.	62.	0.19
MILE 34.60	810.89	199969.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE 33.60	811.01	199969.	1.83	109302.	3045.	11.52	0.0290	0.	68.	0.05
MILE 31.50	810.59	199968.	4.27	46816.	2409.	13.14	0.0250	0.	72.	0.17
MILE 30.10	810.40	199968.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10
MILE 29.00	810.31	199968.	3.78	52895.	1402.	13.60	0.0200	0.	71.	0.11
MILE 27.30	810.18	199968.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE 25.20	810.08	199968.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE 23.10	809.86	199968.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

ODATE 10-08-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 11.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	867.19	200000.	10.21	19581.	865.	9.43	0.0290	0.	48.	0.38
MILE 77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE 75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE 73.50	849.69	199999.	9.54	20954.	1281.	9.58	0.0330	0.	50.	0.42
MILE 71.40	846.43	199999.	6.95	28784.	1141.	9.18	0.0400	0.	49.	0.24
MILE 69.30	841.93	199998.	7.42	26943.	1121.	9.26	0.0340	0.	43.	0.27
MILE 67.20	839.72	199997.	4.83	41384.	2423.	8.80	0.0340	0.	49.	0.21
MILE 65.10	836.51	199995.	6.37	31374.	2998.	9.24	0.0320	0.	50.	0.35
MILE 63.00	834.59	199993.	5.30	37764.	2394.	8.81	0.0400	0.	54.	0.23
MILE 60.90	829.83	199991.	7.21	27721.	1935.	9.31	0.0450	0.	53.	0.34
MILE 58.80	822.60	199990.	7.70	25985.	1374.	8.29	0.0400	0.	50.	0.31
MILE 57.00	820.83	199989.	7.92	25247.	1422.	8.82	0.0200	0.	46.	0.33

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 223 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	55.00	818.50	199988.	8.99	22241.	1378.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.64	199987.	6.19	32285.	1644.	8.60	0.0200	0.	44.	0.25
MILE	51.00	816.32	199986.	6.44	31048.	2180.	8.19	0.0200	0.	47.	0.30
MILE	48.30	815.52	199983.	4.68	42751.	4382.	9.55	0.0200	0.	47.	0.26
MILE	46.20	814.89	199980.	5.27	37933.	4425.	10.33	0.0200	0.	53.	0.32
MILE	44.10	814.82	199978.	3.24	61701.	2471.	10.64	0.0300	0.	60.	0.11
MILE	43.70	814.01	199978.	7.29	27423.	2316.	11.61	0.0300	0.	61.	0.37
MILE	42.00	813.59	199977.	3.92	51006.	2187.	9.18	0.0300	0.	64.	0.14
MILE	39.10	811.79	199976.	5.77	34657.	2145.	11.01	0.0230	0.	61.	0.25
MILE	37.00	811.73	199975.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE	36.00	811.12	199975.	5.71	35008.	1210.	11.44	0.0280	0.	62.	0.19
MILE	34.60	810.89	199975.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE	33.60	811.01	199975.	1.83	109302.	3045.	11.52	0.0290	0.	68.	0.05
MILE	31.50	810.59	199975.	4.27	46816.	2409.	13.14	0.0250	0.	72.	0.17
MILE	30.10	810.40	199974.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10
MILE	29.00	810.31	199974.	3.78	52895.	1402.	13.60	0.0200	0.	71.	0.11
MILE	27.30	810.18	199974.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE	25.20	810.08	199974.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE	23.10	809.86	199974.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

0DATE 10-08-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	12.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
INFLOW	DEPTH	FROUDE									
MILE	79.80	867.19	200000.	10.21	19581.	865.	9.43	0.0290	0.	48.	0.38
MILE	77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE	75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE	73.50	849.69	199999.	9.54	20954.	1281.	9.58	0.0330	0.	50.	0.42
MILE	71.40	846.43	199999.	6.95	28784.	1141.	9.18	0.0400	0.	49.	0.24
MILE	69.30	841.93	199998.	7.42	26944.	1121.	9.26	0.0340	0.	43.	0.27
MILE	67.20	839.72	199998.	4.83	41384.	2424.	8.80	0.0340	0.	49.	0.21
MILE	65.10	836.51	199996.	6.37	31374.	2998.	9.24	0.0320	0.	50.	0.35
MILE	63.00	834.59	199994.	5.30	37764.	2394.	8.81	0.0400	0.	54.	0.23
MILE	60.90	829.83	199993.	7.21	27721.	1935.	9.31	0.0450	0.	53.	0.34
MILE	58.80	822.60	199992.	7.70	25985.	1374.	8.29	0.0400	0.	50.	0.31
MILE	57.00	820.83	199991.	7.92	25247.	1422.	8.82	0.0200	0.	46.	0.33
MILE	55.00	818.50	199990.	8.99	22241.	1378.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.64	199990.	6.19	32286.	1644.	8.60	0.0200	0.	44.	0.25
MILE	51.00	816.32	199989.	6.44	31048.	2180.	8.19	0.0200	0.	47.	0.30
MILE	48.30	815.52	199986.	4.68	42752.	4382.	9.55	0.0200	0.	47.	0.26
MILE	46.20	814.89	199984.	5.27	37933.	4425.	10.33	0.0200	0.	53.	0.32
MILE	44.10	814.82	199982.	3.24	61701.	2471.	10.64	0.0300	0.	60.	0.11
MILE	43.70	814.01	199982.	7.29	27423.	2316.	11.61	0.0300	0.	61.	0.37
MILE	42.00	813.59	199982.	3.92	51007.	2187.	9.18	0.0300	0.	64.	0.14
MILE	39.10	811.79	199981.	5.77	34658.	2145.	11.01	0.0230	0.	61.	0.25
MILE	37.00	811.73	199980.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE	36.00	811.12	199980.	5.71	35009.	1210.	11.44	0.0280	0.	62.	0.19

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 224 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	34.60	810.89	199980.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE	33.60	811.01	199980.	1.83	109302.	3045.	11.52	0.0290	0.	68.	0.05
MILE	31.50	810.59	199980.	4.27	46816.	2409.	13.14	0.0250	0.	72.	0.17
MILE	30.10	810.40	199979.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10
MILE	29.00	810.31	199979.	3.78	52895.	1402.	13.60	0.0200	0.	71.	0.11
MILE	27.30	810.18	199979.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE	25.20	810.08	199979.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE	23.10	809.86	199979.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

ODATE 10-08-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 13.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE	79.80	867.19	200000.	10.21	19581.	865.	9.43	0.0290	0.	48.	0.38
MILE	77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE	75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE	73.50	849.69	199999.	9.54	20954.	1281.	9.58	0.0330	0.	50.	0.42
MILE	71.40	846.43	199999.	6.95	28784.	1141.	9.18	0.0400	0.	49.	0.24
MILE	69.30	841.93	199999.	7.42	26944.	1121.	9.26	0.0340	0.	43.	0.27
MILE	67.20	839.72	199998.	4.83	41385.	2424.	8.80	0.0340	0.	49.	0.21
MILE	65.10	836.51	199997.	6.37	31374.	2998.	9.24	0.0320	0.	50.	0.35
MILE	63.00	834.59	199996.	5.30	37765.	2394.	8.81	0.0400	0.	54.	0.23
MILE	60.90	829.83	199994.	7.21	27721.	1935.	9.31	0.0450	0.	53.	0.34
MILE	58.80	822.60	199994.	7.70	25985.	1374.	8.29	0.0400	0.	50.	0.31
MILE	57.00	820.83	199993.	7.92	25247.	1422.	8.82	0.0200	0.	46.	0.33
MILE	55.00	818.50	199992.	8.99	22242.	1378.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.64	199992.	6.19	32286.	1644.	8.60	0.0200	0.	44.	0.25
MILE	51.00	816.32	199991.	6.44	31049.	2180.	8.19	0.0200	0.	47.	0.30
MILE	48.30	815.52	199989.	4.68	42752.	4382.	9.55	0.0200	0.	47.	0.26
MILE	46.20	814.89	199987.	5.27	37933.	4425.	10.33	0.0200	0.	53.	0.32
MILE	44.10	814.82	199986.	3.24	61701.	2471.	10.64	0.0300	0.	60.	0.11
MILE	43.70	814.01	199986.	7.29	27423.	2316.	11.61	0.0300	0.	61.	0.37
MILE	42.00	813.59	199985.	3.92	51007.	2187.	9.18	0.0300	0.	64.	0.14
MILE	39.10	811.79	199984.	5.77	34658.	2145.	11.01	0.0230	0.	61.	0.25
MILE	37.00	811.73	199984.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE	36.00	811.12	199984.	5.71	35009.	1210.	11.44	0.0280	0.	62.	0.19
MILE	34.60	810.89	199984.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE	33.60	811.01	199984.	1.83	109302.	3045.	11.52	0.0290	0.	68.	0.05
MILE	31.50	810.59	199984.	4.27	46816.	2409.	13.14	0.0250	0.	72.	0.17
MILE	30.10	810.40	199984.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10
MILE	29.00	810.31	199984.	3.78	52895.	1402.	13.60	0.0200	0.	71.	0.11
MILE	27.30	810.18	199983.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE	25.20	810.08	199983.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE	23.10	809.86	199983.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 225 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

0DATE 10-08-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 14.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL
	INFLOW DEPTH	FROUDE							
MILE 79.80	867.19	200000.	10.21	19581.	865.	9.43	0.0290	0.	48. 0.38
MILE 77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54. 0.29
MILE 75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52. 0.44
MILE 73.50	849.69	200000.	9.54	20954.	1281.	9.58	0.0330	0.	50. 0.42
MILE 71.40	846.43	199999.	6.95	28784.	1141.	9.18	0.0400	0.	49. 0.24
MILE 69.30	841.93	199999.	7.42	26944.	1121.	9.26	0.0340	0.	43. 0.27
MILE 67.20	839.72	199998.	4.83	41385.	2424.	8.80	0.0340	0.	49. 0.21
MILE 65.10	836.51	199997.	6.37	31374.	2998.	9.24	0.0320	0.	50. 0.35
MILE 63.00	834.59	199996.	5.30	37765.	2394.	8.81	0.0400	0.	54. 0.23
MILE 60.90	829.83	199996.	7.21	27721.	1935.	9.31	0.0450	0.	53. 0.34
MILE 58.80	822.60	199995.	7.70	25985.	1374.	8.29	0.0400	0.	50. 0.31
MILE 57.00	820.83	199994.	7.92	25247.	1422.	8.82	0.0200	0.	46. 0.33
MILE 55.00	818.50	199994.	8.99	22242.	1378.	8.64	0.0200	0.	45. 0.39
MILE 53.10	817.64	199993.	6.19	32286.	1645.	8.60	0.0200	0.	44. 0.25
MILE 51.00	816.32	199993.	6.44	31049.	2180.	8.19	0.0200	0.	47. 0.30
MILE 48.30	815.52	199991.	4.68	42752.	4382.	9.55	0.0200	0.	47. 0.26
MILE 46.20	814.89	199990.	5.27	37934.	4425.	10.33	0.0200	0.	53. 0.32
MILE 44.10	814.82	199989.	3.24	61702.	2471.	10.64	0.0300	0.	60. 0.11
MILE 43.70	814.01	199989.	7.29	27423.	2316.	11.61	0.0300	0.	61. 0.37
MILE 42.00	813.59	199988.	3.92	51007.	2187.	9.18	0.0300	0.	64. 0.14
MILE 39.10	811.79	199988.	5.77	34658.	2145.	11.01	0.0230	0.	61. 0.25
MILE 37.00	811.73	199987.	3.22	62112.	1622.	10.86	0.0280	0.	60. 0.09
MILE 36.00	811.12	199987.	5.71	35009.	1210.	11.44	0.0280	0.	62. 0.19
MILE 34.60	810.89	199987.	4.14	48251.	1714.	12.56	0.0280	0.	62. 0.14
MILE 33.60	811.01	199987.	1.83	109302.	3045.	11.52	0.0290	0.	68. 0.05
MILE 31.50	810.59	199987.	4.27	46817.	2409.	13.14	0.0250	0.	72. 0.17
MILE 30.10	810.40	199987.	3.92	51077.	1091.	12.45	0.0200	0.	70. 0.10
MILE 29.00	810.31	199987.	3.78	52895.	1402.	13.60	0.0200	0.	71. 0.11
MILE 27.30	810.18	199987.	3.72	53768.	1359.	13.92	0.0230	0.	73. 0.10
MILE 25.20	810.08	199987.	3.12	64144.	1347.	14.73	0.0230	0.	76. 0.08
MILE 23.10	809.86	199987.	3.70	54064.	1473.	13.98	0.0230	0.	80. 0.11

0DATE 10-08-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 15.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL
	INFLOW DEPTH	FROUDE							
MILE 79.80	867.19	200000.	10.21	19581.	865.	9.43	0.0290	0.	48. 0.38
MILE 77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54. 0.29
MILE 75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52. 0.44
MILE 73.50	849.69	200000.	9.54	20954.	1281.	9.58	0.0330	0.	50. 0.42
MILE 71.40	846.43	199999.	6.95	28784.	1141.	9.18	0.0400	0.	49. 0.24

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 226 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	69.30	841.93	199999.	7.42	26944.	1121.	9.26	0.0340	0.	43.	0.27
MILE	67.20	839.72	199999.	4.83	41385.	2424.	8.80	0.0340	0.	49.	0.21
MILE	65.10	836.51	199998.	6.37	31374.	2998.	9.24	0.0320	0.	50.	0.35
MILE	63.00	834.59	199997.	5.30	37765.	2394.	8.81	0.0400	0.	54.	0.23
MILE	60.90	829.83	199996.	7.21	27721.	1935.	9.31	0.0450	0.	53.	0.34
MILE	58.80	822.60	199996.	7.70	25986.	1374.	8.29	0.0400	0.	50.	0.31
MILE	57.00	820.83	199995.	7.92	25248.	1422.	8.82	0.0200	0.	46.	0.33
MILE	55.00	818.50	199995.	8.99	22242.	1378.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.64	199995.	6.19	32286.	1645.	8.60	0.0200	0.	44.	0.25
MILE	51.00	816.32	199994.	6.44	31049.	2180.	8.19	0.0200	0.	47.	0.30
MILE	48.30	815.52	199993.	4.68	42752.	4382.	9.55	0.0200	0.	47.	0.26
MILE	46.20	814.89	199992.	5.27	37934.	4425.	10.33	0.0200	0.	53.	0.32
MILE	44.10	814.82	199991.	3.24	61702.	2471.	10.64	0.0300	0.	60.	0.11
MILE	43.70	814.01	199991.	7.29	27423.	2316.	11.61	0.0300	0.	61.	0.37
MILE	42.00	813.59	199990.	3.92	51007.	2187.	9.18	0.0300	0.	64.	0.14
MILE	39.10	811.79	199990.	5.77	34658.	2145.	11.01	0.0230	0.	61.	0.25
MILE	37.00	811.73	199990.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE	36.00	811.12	199990.	5.71	35009.	1210.	11.44	0.0280	0.	62.	0.19
MILE	34.60	810.89	199990.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE	33.60	811.01	199990.	1.83	109302.	3045.	11.52	0.0290	0.	68.	0.05
MILE	31.50	810.59	199989.	4.27	46817.	2409.	13.14	0.0250	0.	72.	0.17
MILE	30.10	810.40	199989.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10
MILE	29.00	810.31	199989.	3.78	52895.	1402.	13.60	0.0200	0.	71.	0.11
MILE	27.30	810.18	199989.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE	25.20	810.08	199989.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE	23.10	809.86	199989.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

0DATE 10-08-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	16.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
INFLOW	DEPTH	FROUDE									
MILE	79.80	867.19	200000.	10.21	19581.	865.	9.43	0.0290	0.	48.	0.38
MILE	77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE	75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE	73.50	849.69	200000.	9.54	20954.	1281.	9.58	0.0330	0.	50.	0.42
MILE	71.40	846.43	200000.	6.95	28784.	1141.	9.18	0.0400	0.	49.	0.24
MILE	69.30	841.93	199999.	7.42	26944.	1121.	9.26	0.0340	0.	43.	0.27
MILE	67.20	839.72	199999.	4.83	41385.	2424.	8.80	0.0340	0.	49.	0.21
MILE	65.10	836.51	199998.	6.37	31374.	2998.	9.24	0.0320	0.	50.	0.35
MILE	63.00	834.59	199998.	5.30	37765.	2394.	8.81	0.0400	0.	54.	0.23
MILE	60.90	829.83	199997.	7.21	27721.	1935.	9.31	0.0450	0.	53.	0.34
MILE	58.80	822.60	199997.	7.70	25986.	1374.	8.29	0.0400	0.	50.	0.31
MILE	57.00	820.83	199996.	7.92	25248.	1422.	8.82	0.0200	0.	46.	0.33
MILE	55.00	818.50	199996.	8.99	22242.	1378.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.64	199996.	6.19	32286.	1645.	8.60	0.0200	0.	44.	0.25
MILE	51.00	816.32	199995.	6.44	31049.	2180.	8.19	0.0200	0.	47.	0.30
MILE	48.30	815.52	199994.	4.68	42752.	4382.	9.55	0.0200	0.	47.	0.26

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 46.20	814.89	199993.	5.27	37934.	4425.	10.33	0.0200	0.	53.	0.32
MILE 44.10	814.82	199993.	3.24	61702.	2471.	10.64	0.0300	0.	60.	0.11
MILE 43.70	814.01	199993.	7.29	27423.	2316.	11.61	0.0300	0.	61.	0.37
MILE 42.00	813.59	199992.	3.92	51007.	2187.	9.18	0.0300	0.	64.	0.14
MILE 39.10	811.79	199992.	5.77	34658.	2145.	11.01	0.0230	0.	61.	0.25
MILE 37.00	811.73	199992.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE 36.00	811.12	199992.	5.71	35009.	1210.	11.44	0.0280	0.	62.	0.19
MILE 34.60	810.89	199992.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE 33.60	811.01	199992.	1.83	109302.	3045.	11.52	0.0290	0.	68.	0.05
MILE 31.50	810.59	199991.	4.27	46817.	2409.	13.14	0.0250	0.	72.	0.17
MILE 30.10	810.40	199991.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10
MILE 29.00	810.31	199991.	3.78	52895.	1402.	13.60	0.0200	0.	71.	0.11
MILE 27.30	810.18	199991.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE 25.20	810.08	199991.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE 23.10	809.86	199991.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

ODATE 10-08-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 17.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
INFLOW DEPTH	FROUDE									
MILE 79.80	867.19	200000.	10.21	19581.	865.	9.43	0.0290	0.	48.	0.38
MILE 77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE 75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE 73.50	849.69	200000.	9.54	20954.	1281.	9.58	0.0330	0.	50.	0.42
MILE 71.40	846.43	200000.	6.95	28784.	1141.	9.18	0.0400	0.	49.	0.24
MILE 69.30	841.93	199999.	7.42	26944.	1121.	9.26	0.0340	0.	43.	0.27
MILE 67.20	839.72	199999.	4.83	41385.	2424.	8.80	0.0340	0.	49.	0.21
MILE 65.10	836.51	199999.	6.37	31374.	2998.	9.24	0.0320	0.	50.	0.35
MILE 63.00	834.59	199998.	5.30	37765.	2394.	8.81	0.0400	0.	54.	0.23
MILE 60.90	829.83	199998.	7.21	27722.	1935.	9.31	0.0450	0.	53.	0.34
MILE 58.80	822.60	199997.	7.70	25986.	1374.	8.29	0.0400	0.	50.	0.31
MILE 57.00	820.83	199997.	7.92	25248.	1422.	8.82	0.0200	0.	46.	0.33
MILE 55.00	818.50	199997.	8.99	22242.	1378.	8.64	0.0200	0.	45.	0.39
MILE 53.10	817.64	199997.	6.19	32286.	1645.	8.60	0.0200	0.	44.	0.25
MILE 51.00	816.32	199996.	6.44	31049.	2180.	8.19	0.0200	0.	47.	0.30
MILE 48.30	815.52	199995.	4.68	42752.	4382.	9.55	0.0200	0.	47.	0.26
MILE 46.20	814.89	199995.	5.27	37934.	4425.	10.33	0.0200	0.	53.	0.32
MILE 44.10	814.82	199994.	3.24	61702.	2471.	10.64	0.0300	0.	60.	0.11
MILE 43.70	814.01	199994.	7.29	27423.	2316.	11.61	0.0300	0.	61.	0.37
MILE 42.00	813.59	199994.	3.92	51007.	2187.	9.18	0.0300	0.	64.	0.14
MILE 39.10	811.79	199994.	5.77	34658.	2145.	11.01	0.0230	0.	61.	0.25
MILE 37.00	811.73	199993.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE 36.00	811.12	199993.	5.71	35009.	1210.	11.44	0.0280	0.	62.	0.19
MILE 34.60	810.89	199993.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE 33.60	811.01	199993.	1.83	109302.	3045.	11.52	0.0290	0.	68.	0.05
MILE 31.50	810.59	199993.	4.27	46817.	2409.	13.14	0.0250	0.	72.	0.17
MILE 30.10	810.40	199993.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 228 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	29.00	810.31	199993.	3.78	52895.	1402.	13.60	0.0200	0.	71.	0.11
MILE	27.30	810.18	199993.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE	25.20	810.08	199993.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE	23.10	809.86	199993.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

ODATE 10-08-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 18.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	867.19	200000.	10.21	19581.	865.	9.43	0.0290	0.	48.	0.38
MILE	77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE	75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE	73.50	849.69	200000.	9.54	20954.	1281.	9.58	0.0330	0.	50.	0.42
MILE	71.40	846.43	200000.	6.95	28785.	1141.	9.18	0.0400	0.	49.	0.24
MILE	69.30	841.93	200000.	7.42	26944.	1121.	9.26	0.0340	0.	43.	0.27
MILE	67.20	839.72	199999.	4.83	41385.	2424.	8.80	0.0340	0.	49.	0.21
MILE	65.10	836.51	199999.	6.37	31374.	2998.	9.24	0.0320	0.	50.	0.35
MILE	63.00	834.59	199998.	5.30	37765.	2394.	8.81	0.0400	0.	54.	0.23
MILE	60.90	829.83	199998.	7.21	27722.	1935.	9.31	0.0450	0.	53.	0.34
MILE	58.80	822.60	199998.	7.70	25986.	1374.	8.29	0.0400	0.	50.	0.31
MILE	57.00	820.83	199998.	7.92	25248.	1422.	8.82	0.0200	0.	46.	0.33
MILE	55.00	818.50	199997.	8.99	22242.	1378.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.64	199997.	6.19	32286.	1645.	8.60	0.0200	0.	44.	0.25
MILE	51.00	816.32	199997.	6.44	31049.	2180.	8.19	0.0200	0.	47.	0.30
MILE	48.30	815.52	199996.	4.68	42752.	4382.	9.55	0.0200	0.	47.	0.26
MILE	46.20	814.89	199996.	5.27	37934.	4426.	10.33	0.0200	0.	53.	0.32
MILE	44.10	814.82	199995.	3.24	61702.	2471.	10.64	0.0300	0.	60.	0.11
MILE	43.70	814.01	199995.	7.29	27423.	2316.	11.61	0.0300	0.	61.	0.37
MILE	42.00	813.59	199995.	3.92	51007.	2187.	9.18	0.0300	0.	64.	0.14
MILE	39.10	811.79	199995.	5.77	34658.	2145.	11.01	0.0230	0.	61.	0.25
MILE	37.00	811.73	199995.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE	36.00	811.12	199995.	5.71	35009.	1210.	11.44	0.0280	0.	62.	0.19
MILE	34.60	810.89	199995.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE	33.60	811.01	199995.	1.83	109302.	3045.	11.52	0.0290	0.	68.	0.05
MILE	31.50	810.59	199994.	4.27	46817.	2409.	13.14	0.0250	0.	72.	0.17
MILE	30.10	810.40	199994.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10
MILE	29.00	810.31	199994.	3.78	52895.	1402.	13.60	0.0200	0.	71.	0.11
MILE	27.30	810.18	199994.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE	25.20	810.08	199994.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE	23.10	809.86	199994.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

ODATE 10-08-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 229 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

TIME 19.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	867.19	200000.	10.21	19581.	865.	9.43	0.0290	0.	48.	0.38
MILE 77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE 75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE 73.50	849.69	200000.	9.54	20955.	1281.	9.58	0.0330	0.	50.	0.42
MILE 71.40	846.43	200000.	6.95	28785.	1141.	9.18	0.0400	0.	49.	0.24
MILE 69.30	841.93	200000.	7.42	26944.	1121.	9.26	0.0340	0.	43.	0.27
MILE 67.20	839.72	199999.	4.83	41385.	2424.	8.80	0.0340	0.	49.	0.21
MILE 65.10	836.51	199999.	6.37	31374.	2998.	9.24	0.0320	0.	50.	0.35
MILE 63.00	834.59	199999.	5.30	37765.	2394.	8.81	0.0400	0.	54.	0.23
MILE 60.90	829.83	199998.	7.21	27722.	1935.	9.31	0.0450	0.	53.	0.34
MILE 58.80	822.60	199998.	7.70	25986.	1374.	8.29	0.0400	0.	50.	0.31
MILE 57.00	820.83	199998.	7.92	25248.	1422.	8.82	0.0200	0.	46.	0.33
MILE 55.00	818.50	199998.	8.99	22242.	1378.	8.64	0.0200	0.	45.	0.39
MILE 53.10	817.64	199998.	6.19	32286.	1645.	8.60	0.0200	0.	44.	0.25
MILE 51.00	816.32	199998.	6.44	31049.	2180.	8.19	0.0200	0.	47.	0.30
MILE 48.30	815.52	199997.	4.68	42752.	4382.	9.55	0.0200	0.	47.	0.26
MILE 46.20	814.89	199997.	5.27	37934.	4426.	10.33	0.0200	0.	53.	0.32
MILE 44.10	814.82	199996.	3.24	61702.	2471.	10.64	0.0300	0.	60.	0.11
MILE 43.70	814.01	199996.	7.29	27423.	2316.	11.61	0.0300	0.	61.	0.37
MILE 42.00	813.59	199996.	3.92	51007.	2187.	9.18	0.0300	0.	64.	0.14
MILE 39.10	811.79	199996.	5.77	34658.	2145.	11.01	0.0230	0.	61.	0.25
MILE 37.00	811.73	199996.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE 36.00	811.12	199996.	5.71	35009.	1210.	11.44	0.0280	0.	62.	0.19
MILE 34.60	810.89	199996.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE 33.60	811.01	199996.	1.83	109303.	3045.	11.52	0.0290	0.	68.	0.05
MILE 31.50	810.59	199996.	4.27	46817.	2409.	13.14	0.0250	0.	72.	0.17
MILE 30.10	810.40	199996.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10
MILE 29.00	810.31	199996.	3.78	52895.	1402.	13.60	0.0200	0.	71.	0.11
MILE 27.30	810.18	199996.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE 25.20	810.08	199996.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE 23.10	809.86	199996.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

ODATE 10-08-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 20.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	867.19	200000.	10.21	19581.	865.	9.43	0.0290	0.	48.	0.38
MILE 77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE 75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE 73.50	849.69	200000.	9.54	20955.	1281.	9.58	0.0330	0.	50.	0.42
MILE 71.40	846.43	200000.	6.95	28785.	1141.	9.18	0.0400	0.	49.	0.24
MILE 69.30	841.93	200000.	7.42	26944.	1121.	9.26	0.0340	0.	43.	0.27
MILE 67.20	839.72	200000.	4.83	41385.	2424.	8.80	0.0340	0.	49.	0.21
MILE 65.10	836.51	199999.	6.37	31375.	2998.	9.24	0.0320	0.	50.	0.35

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 230 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	63.00	834.59	199999.	5.30	37765.	2394.	8.81	0.0400	0.	54.	0.23
MILE	60.90	829.83	199999.	7.21	27722.	1935.	9.31	0.0450	0.	53.	0.34
MILE	58.80	822.60	199999.	7.70	25986.	1374.	8.29	0.0400	0.	50.	0.31
MILE	57.00	820.83	199998.	7.92	25248.	1422.	8.82	0.0200	0.	46.	0.33
MILE	55.00	818.50	199998.	8.99	22242.	1378.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.64	199998.	6.19	32286.	1645.	8.60	0.0200	0.	44.	0.25
MILE	51.00	816.32	199998.	6.44	31049.	2180.	8.19	0.0200	0.	47.	0.30
MILE	48.30	815.52	199998.	4.68	42752.	4382.	9.55	0.0200	0.	47.	0.26
MILE	46.20	814.89	199997.	5.27	37934.	4426.	10.33	0.0200	0.	53.	0.32
MILE	44.10	814.82	199997.	3.24	61702.	2471.	10.64	0.0300	0.	60.	0.11
MILE	43.70	814.01	199997.	7.29	27424.	2316.	11.61	0.0300	0.	61.	0.37
MILE	42.00	813.59	199997.	3.92	51007.	2187.	9.18	0.0300	0.	64.	0.14
MILE	39.10	811.79	199997.	5.77	34658.	2145.	11.01	0.0230	0.	61.	0.25
MILE	37.00	811.73	199997.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE	36.00	811.12	199997.	5.71	35009.	1210.	11.44	0.0280	0.	62.	0.19
MILE	34.60	810.89	199997.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE	33.60	811.01	199996.	1.83	109303.	3045.	11.52	0.0290	0.	68.	0.05
MILE	31.50	810.59	199996.	4.27	46817.	2409.	13.14	0.0250	0.	72.	0.17
MILE	30.10	810.40	199996.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10
MILE	29.00	810.31	199996.	3.78	52895.	1402.	13.60	0.0200	0.	71.	0.11
MILE	27.30	810.18	199996.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE	25.20	810.08	199996.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE	23.10	809.86	199996.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

ODATE 10-08-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 21.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	867.19	200000.	10.21	19581.	865.	9.43	0.0290	0.	48.	0.38
MILE	77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE	75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE	73.50	849.69	200000.	9.54	20955.	1281.	9.58	0.0330	0.	50.	0.42
MILE	71.40	846.43	200000.	6.95	28785.	1141.	9.18	0.0400	0.	49.	0.24
MILE	69.30	841.93	200000.	7.42	26944.	1121.	9.26	0.0340	0.	43.	0.27
MILE	67.20	839.72	200000.	4.83	41385.	2424.	8.80	0.0340	0.	49.	0.21
MILE	65.10	836.51	199999.	6.37	31375.	2998.	9.24	0.0320	0.	50.	0.35
MILE	63.00	834.59	199999.	5.30	37766.	2394.	8.81	0.0400	0.	54.	0.23
MILE	60.90	829.83	199999.	7.21	27722.	1935.	9.31	0.0450	0.	53.	0.34
MILE	58.80	822.60	199999.	7.70	25986.	1374.	8.29	0.0400	0.	50.	0.31
MILE	57.00	820.83	199999.	7.92	25248.	1422.	8.82	0.0200	0.	46.	0.33
MILE	55.00	818.50	199999.	8.99	22242.	1378.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.64	199999.	6.19	32286.	1645.	8.60	0.0200	0.	44.	0.25
MILE	51.00	816.32	199998.	6.44	31049.	2180.	8.19	0.0200	0.	47.	0.30
MILE	48.30	815.52	199998.	4.68	42753.	4382.	9.55	0.0200	0.	47.	0.26
MILE	46.20	814.89	199998.	5.27	37934.	4426.	10.33	0.0200	0.	53.	0.32
MILE	44.10	814.82	199998.	3.24	61703.	2471.	10.64	0.0300	0.	60.	0.11
MILE	43.70	814.01	199997.	7.29	27424.	2316.	11.61	0.0300	0.	61.	0.37

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 231 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 42.00	813.59	199997.	3.92	51007.	2187.	9.18	0.0300	0.	64.	0.14
MILE 39.10	811.79	199997.	5.77	34658.	2145.	11.01	0.0230	0.	61.	0.25
MILE 37.00	811.73	199997.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE 36.00	811.12	199997.	5.71	35009.	1210.	11.44	0.0280	0.	62.	0.19
MILE 34.60	810.89	199997.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE 33.60	811.01	199997.	1.83	109303.	3045.	11.52	0.0290	0.	68.	0.05
MILE 31.50	810.59	199997.	4.27	46817.	2409.	13.14	0.0250	0.	72.	0.17
MILE 30.10	810.40	199997.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10
MILE 29.00	810.31	199997.	3.78	52895.	1402.	13.60	0.0200	0.	71.	0.11
MILE 27.30	810.18	199997.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE 25.20	810.08	199997.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE 23.10	809.86	199997.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

ODATE 10-08-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 22.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	867.19	200000.	10.21	19581.	865.	9.43	0.0290	0.	48.	0.38
MILE 77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE 75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE 73.50	849.69	200000.	9.54	20955.	1281.	9.58	0.0330	0.	50.	0.42
MILE 71.40	846.43	200000.	6.95	28785.	1141.	9.18	0.0400	0.	49.	0.24
MILE 69.30	841.93	200000.	7.42	26944.	1121.	9.26	0.0340	0.	43.	0.27
MILE 67.20	839.72	200000.	4.83	41385.	2424.	8.80	0.0340	0.	49.	0.21
MILE 65.10	836.51	200000.	6.37	31375.	2998.	9.24	0.0320	0.	50.	0.35
MILE 63.00	834.59	199999.	5.30	37766.	2394.	8.81	0.0400	0.	54.	0.23
MILE 60.90	829.83	199999.	7.21	27722.	1935.	9.31	0.0450	0.	53.	0.34
MILE 58.80	822.60	199999.	7.70	25986.	1374.	8.29	0.0400	0.	50.	0.31
MILE 57.00	820.83	199999.	7.92	25248.	1422.	8.82	0.0200	0.	46.	0.33
MILE 55.00	818.50	199999.	8.99	22242.	1378.	8.64	0.0200	0.	45.	0.39
MILE 53.10	817.64	199999.	6.19	32286.	1645.	8.60	0.0200	0.	44.	0.25
MILE 51.00	816.32	199999.	6.44	31049.	2180.	8.19	0.0200	0.	47.	0.30
MILE 48.30	815.52	199998.	4.68	42753.	4382.	9.55	0.0200	0.	47.	0.26
MILE 46.20	814.89	199998.	5.27	37934.	4426.	10.33	0.0200	0.	53.	0.32
MILE 44.10	814.82	199998.	3.24	61703.	2471.	10.64	0.0300	0.	60.	0.11
MILE 43.70	814.01	199998.	7.29	27424.	2316.	11.61	0.0300	0.	61.	0.37
MILE 42.00	813.59	199998.	3.92	51007.	2187.	9.18	0.0300	0.	64.	0.14
MILE 39.10	811.79	199998.	5.77	34658.	2145.	11.01	0.0230	0.	61.	0.25
MILE 37.00	811.73	199998.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE 36.00	811.12	199998.	5.71	35009.	1210.	11.44	0.0280	0.	62.	0.19
MILE 34.60	810.89	199998.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE 33.60	811.01	199998.	1.83	109303.	3045.	11.52	0.0290	0.	68.	0.05
MILE 31.50	810.59	199998.	4.27	46817.	2409.	13.14	0.0250	0.	72.	0.17
MILE 30.10	810.40	199998.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10
MILE 29.00	810.31	199998.	3.78	52895.	1402.	13.60	0.0200	0.	71.	0.11
MILE 27.30	810.18	199998.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE 25.20	810.08	199998.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 232 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 23.10 809.86 199998. 3.70 54064. 1473. 13.98 0.0230 0. 80. 0.11

0DATE 10-08-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 23.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80 867.19 200000. 10.21 19581. 865. 9.43 0.0290 0. 48. 0.38
MILE 77.70 864.87 200000. 8.02 24943. 1044. 10.22 0.0400 0. 54. 0.29
MILE 75.60 858.03 200000. 8.88 22521. 1744. 9.57 0.0400 0. 52. 0.44
MILE 73.50 849.69 200000. 9.54 20955. 1281. 9.58 0.0330 0. 50. 0.42
MILE 71.40 846.43 200000. 6.95 28785. 1141. 9.18 0.0400 0. 49. 0.24
MILE 69.30 841.93 200000. 7.42 26944. 1121. 9.26 0.0340 0. 43. 0.27
MILE 67.20 839.72 200000. 4.83 41385. 2424. 8.80 0.0340 0. 49. 0.21
MILE 65.10 836.51 200000. 6.37 31375. 2998. 9.24 0.0320 0. 50. 0.35
MILE 63.00 834.59 199999. 5.30 37766. 2394. 8.81 0.0400 0. 54. 0.23
MILE 60.90 829.83 199999. 7.21 27722. 1935. 9.31 0.0450 0. 53. 0.34
MILE 58.80 822.60 199999. 7.70 25986. 1374. 8.29 0.0400 0. 50. 0.31
MILE 57.00 820.83 199999. 7.92 25248. 1422. 8.82 0.0200 0. 46. 0.33
MILE 55.00 818.50 199999. 8.99 22242. 1378. 8.64 0.0200 0. 45. 0.39
MILE 53.10 817.64 199999. 6.19 32286. 1645. 8.60 0.0200 0. 44. 0.25
MILE 51.00 816.32 199999. 6.44 31049. 2180. 8.19 0.0200 0. 47. 0.30
MILE 48.30 815.52 199999. 4.68 42753. 4382. 9.55 0.0200 0. 47. 0.26
MILE 46.20 814.89 199999. 5.27 37934. 4426. 10.33 0.0200 0. 53. 0.32
MILE 44.10 814.82 199998. 3.24 61703. 2471. 10.64 0.0300 0. 60. 0.11
MILE 43.70 814.01 199998. 7.29 27424. 2316. 11.61 0.0300 0. 61. 0.37
MILE 42.00 813.59 199998. 3.92 51008. 2187. 9.18 0.0300 0. 64. 0.14
MILE 39.10 811.79 199998. 5.77 34658. 2145. 11.01 0.0230 0. 61. 0.25
MILE 37.00 811.73 199998. 3.22 62112. 1622. 10.86 0.0280 0. 60. 0.09
MILE 36.00 811.12 199998. 5.71 35009. 1210. 11.44 0.0280 0. 62. 0.19
MILE 34.60 810.89 199998. 4.14 48251. 1714. 12.56 0.0280 0. 62. 0.14
MILE 33.60 811.01 199998. 1.83 109303. 3045. 11.52 0.0290 0. 68. 0.05
MILE 31.50 810.59 199998. 4.27 46817. 2409. 13.14 0.0250 0. 72. 0.17
MILE 30.10 810.40 199998. 3.92 51077. 1091. 12.45 0.0200 0. 70. 0.10
MILE 29.00 810.31 199998. 3.78 52895. 1402. 13.60 0.0200 0. 71. 0.11
MILE 27.30 810.18 199998. 3.72 53768. 1359. 13.92 0.0230 0. 73. 0.10
MILE 25.20 810.08 199998. 3.12 64144. 1347. 14.73 0.0230 0. 76. 0.08
MILE 23.10 809.86 199998. 3.70 54064. 1473. 13.98 0.0230 0. 80. 0.11

0DATE 10-09-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 0.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80 867.19 200000. 10.21 19581. 865. 9.43 0.0290 0. 48. 0.38

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 233 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE 75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE 73.50	849.69	200000.	9.54	20955.	1281.	9.58	0.0330	0.	50.	0.42
MILE 71.40	846.43	200000.	6.95	28785.	1141.	9.18	0.0400	0.	49.	0.24
MILE 69.30	841.93	200000.	7.42	26944.	1121.	9.26	0.0340	0.	43.	0.27
MILE 67.20	839.72	200000.	4.83	41385.	2424.	8.80	0.0340	0.	49.	0.21
MILE 65.10	836.51	200000.	6.37	31375.	2998.	9.24	0.0320	0.	50.	0.35
MILE 63.00	834.59	200000.	5.30	37766.	2394.	8.81	0.0400	0.	54.	0.23
MILE 60.90	829.83	199999.	7.21	27722.	1935.	9.31	0.0450	0.	53.	0.34
MILE 58.80	822.60	199999.	7.70	25986.	1374.	8.29	0.0400	0.	50.	0.31
MILE 57.00	820.83	199999.	7.92	25248.	1422.	8.82	0.0200	0.	46.	0.33
MILE 55.00	818.50	199999.	8.99	22242.	1378.	8.64	0.0200	0.	45.	0.39
MILE 53.10	817.64	199999.	6.19	32286.	1645.	8.60	0.0200	0.	44.	0.25
MILE 51.00	816.32	199999.	6.44	31049.	2180.	8.19	0.0200	0.	47.	0.30
MILE 48.30	815.52	199999.	4.68	42753.	4382.	9.55	0.0200	0.	47.	0.26
MILE 46.20	814.89	199999.	5.27	37934.	4426.	10.33	0.0200	0.	53.	0.32
MILE 44.10	814.82	199999.	3.24	61703.	2471.	10.64	0.0300	0.	60.	0.11
MILE 43.70	814.01	199999.	7.29	27424.	2316.	11.61	0.0300	0.	61.	0.37
MILE 42.00	813.59	199999.	3.92	51008.	2187.	9.18	0.0300	0.	64.	0.14
MILE 39.10	811.79	199999.	5.77	34658.	2145.	11.01	0.0230	0.	61.	0.25
MILE 37.00	811.73	199999.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE 36.00	811.12	199999.	5.71	35009.	1210.	11.44	0.0280	0.	62.	0.19
MILE 34.60	810.89	199999.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE 33.60	811.01	199999.	1.83	109303.	3045.	11.52	0.0290	0.	68.	0.05
MILE 31.50	810.59	199998.	4.27	46817.	2409.	13.14	0.0250	0.	72.	0.17
MILE 30.10	810.40	199998.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10
MILE 29.00	810.31	199998.	3.78	52895.	1402.	13.60	0.0200	0.	71.	0.11
MILE 27.30	810.18	199998.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE 25.20	810.08	199998.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE 23.10	809.86	199998.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

0DATE 10-09-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 1.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	867.19	200000.	10.21	19581.	865.	9.43	0.0290	0.	48.	0.38
MILE 77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE 75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE 73.50	849.69	200000.	9.54	20955.	1281.	9.58	0.0330	0.	50.	0.42
MILE 71.40	846.43	200000.	6.95	28785.	1141.	9.18	0.0400	0.	49.	0.24
MILE 69.30	841.93	200000.	7.42	26944.	1121.	9.26	0.0340	0.	43.	0.27
MILE 67.20	839.72	200000.	4.83	41385.	2424.	8.80	0.0340	0.	49.	0.21
MILE 65.10	836.51	200000.	6.37	31375.	2998.	9.24	0.0320	0.	50.	0.35
MILE 63.00	834.59	200000.	5.30	37766.	2394.	8.81	0.0400	0.	54.	0.23
MILE 60.90	829.83	200000.	7.21	27722.	1935.	9.31	0.0450	0.	53.	0.34
MILE 58.80	822.60	200000.	7.70	25986.	1374.	8.29	0.0400	0.	50.	0.31
MILE 57.00	820.83	199999.	7.92	25248.	1422.	8.82	0.0200	0.	46.	0.33

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 234 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	55.00	818.50	199999.	8.99	22242.	1378.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.64	199999.	6.19	32286.	1645.	8.60	0.0200	0.	44.	0.25
MILE	51.00	816.32	199999.	6.44	31049.	2180.	8.19	0.0200	0.	47.	0.30
MILE	48.30	815.52	199999.	4.68	42753.	4382.	9.55	0.0200	0.	47.	0.26
MILE	46.20	814.89	199999.	5.27	37934.	4426.	10.33	0.0200	0.	53.	0.32
MILE	44.10	814.82	199999.	3.24	61703.	2471.	10.64	0.0300	0.	60.	0.11
MILE	43.70	814.01	199999.	7.29	27424.	2316.	11.61	0.0300	0.	61.	0.37
MILE	42.00	813.59	199999.	3.92	51008.	2187.	9.18	0.0300	0.	64.	0.14
MILE	39.10	811.79	199999.	5.77	34658.	2145.	11.01	0.0230	0.	61.	0.25
MILE	37.00	811.73	199999.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE	36.00	811.12	199999.	5.71	35009.	1210.	11.44	0.0280	0.	62.	0.19
MILE	34.60	810.89	199999.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE	33.60	811.01	199999.	1.83	109303.	3045.	11.52	0.0290	0.	68.	0.05
MILE	31.50	810.59	199999.	4.27	46817.	2409.	13.14	0.0250	0.	72.	0.17
MILE	30.10	810.40	199999.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10
MILE	29.00	810.31	199999.	3.78	52896.	1402.	13.60	0.0200	0.	71.	0.11
MILE	27.30	810.18	199999.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE	25.20	810.08	199999.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE	23.10	809.86	199999.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

0DATE 10-09-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL	
	2.0000										
	INFLOW	DEPTH	FROUDE								
MILE	79.80	867.19	200000.	10.21	19581.	865.	9.43	0.0290	0.	48.	0.38
MILE	77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE	75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE	73.50	849.69	200000.	9.54	20955.	1281.	9.58	0.0330	0.	50.	0.42
MILE	71.40	846.43	200000.	6.95	28785.	1141.	9.18	0.0400	0.	49.	0.24
MILE	69.30	841.93	200000.	7.42	26944.	1121.	9.26	0.0340	0.	43.	0.27
MILE	67.20	839.72	200000.	4.83	41385.	2424.	8.80	0.0340	0.	49.	0.21
MILE	65.10	836.51	200000.	6.37	31375.	2998.	9.24	0.0320	0.	50.	0.35
MILE	63.00	834.59	200000.	5.30	37766.	2394.	8.81	0.0400	0.	54.	0.23
MILE	60.90	829.83	200000.	7.21	27722.	1935.	9.31	0.0450	0.	53.	0.34
MILE	58.80	822.60	200000.	7.70	25986.	1374.	8.29	0.0400	0.	50.	0.31
MILE	57.00	820.83	200000.	7.92	25248.	1422.	8.82	0.0200	0.	46.	0.33
MILE	55.00	818.50	200000.	8.99	22242.	1378.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.64	199999.	6.19	32286.	1645.	8.60	0.0200	0.	44.	0.25
MILE	51.00	816.32	199999.	6.44	31049.	2180.	8.19	0.0200	0.	47.	0.30
MILE	48.30	815.52	199999.	4.68	42753.	4382.	9.55	0.0200	0.	47.	0.26
MILE	46.20	814.89	199999.	5.27	37934.	4426.	10.33	0.0200	0.	53.	0.32
MILE	44.10	814.82	199999.	3.24	61703.	2471.	10.64	0.0300	0.	60.	0.11
MILE	43.70	814.01	199999.	7.29	27424.	2316.	11.61	0.0300	0.	61.	0.37
MILE	42.00	813.59	199999.	3.92	51008.	2187.	9.18	0.0300	0.	64.	0.14
MILE	39.10	811.79	199999.	5.77	34658.	2145.	11.01	0.0230	0.	61.	0.25
MILE	37.00	811.73	199999.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE	36.00	811.12	199999.	5.71	35009.	1210.	11.44	0.0280	0.	62.	0.19

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 235 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 34.60	810.89	199999.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE 33.60	811.01	199999.	1.83	109303.	3045.	11.52	0.0290	0.	68.	0.05
MILE 31.50	810.59	199999.	4.27	46817.	2409.	13.14	0.0250	0.	72.	0.17
MILE 30.10	810.40	199999.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10
MILE 29.00	810.31	199999.	3.78	52896.	1402.	13.60	0.0200	0.	71.	0.11
MILE 27.30	810.18	199999.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE 25.20	810.08	199999.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE 23.10	809.86	199999.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

ODATE 10-09-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	3.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL
INFLOW	DEPTH	FROUDE								
MILE 79.80	867.19	200000.	10.21	19581.	865.	9.43	0.0290	0.	48.	0.38
MILE 77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE 75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE 73.50	849.69	200000.	9.54	20955.	1281.	9.58	0.0330	0.	50.	0.42
MILE 71.40	846.43	200000.	6.95	28785.	1141.	9.18	0.0400	0.	49.	0.24
MILE 69.30	841.93	200000.	7.42	26944.	1121.	9.26	0.0340	0.	43.	0.27
MILE 67.20	839.72	200000.	4.83	41385.	2424.	8.80	0.0340	0.	49.	0.21
MILE 65.10	836.51	200000.	6.37	31375.	2998.	9.24	0.0320	0.	50.	0.35
MILE 63.00	834.59	200000.	5.30	37766.	2394.	8.81	0.0400	0.	54.	0.23
MILE 60.90	829.83	200000.	7.21	27722.	1935.	9.31	0.0450	0.	53.	0.34
MILE 58.80	822.60	200000.	7.70	25986.	1374.	8.29	0.0400	0.	50.	0.31
MILE 57.00	820.83	200000.	7.92	25248.	1422.	8.82	0.0200	0.	46.	0.33
MILE 55.00	818.50	200000.	8.99	22242.	1378.	8.64	0.0200	0.	45.	0.39
MILE 53.10	817.64	200000.	6.19	32286.	1645.	8.60	0.0200	0.	44.	0.25
MILE 51.00	816.32	200000.	6.44	31049.	2180.	8.19	0.0200	0.	47.	0.30
MILE 48.30	815.52	199999.	4.68	42753.	4382.	9.55	0.0200	0.	47.	0.26
MILE 46.20	814.89	199999.	5.27	37934.	4426.	10.33	0.0200	0.	53.	0.32
MILE 44.10	814.82	199999.	3.24	61703.	2471.	10.64	0.0300	0.	60.	0.11
MILE 43.70	814.01	199999.	7.29	27424.	2316.	11.61	0.0300	0.	61.	0.37
MILE 42.00	813.59	199999.	3.92	51008.	2187.	9.18	0.0300	0.	64.	0.14
MILE 39.10	811.79	199999.	5.77	34658.	2145.	11.01	0.0230	0.	61.	0.25
MILE 37.00	811.73	199999.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE 36.00	811.12	199999.	5.71	35009.	1210.	11.44	0.0280	0.	62.	0.19
MILE 34.60	810.89	199999.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE 33.60	811.01	199999.	1.83	109303.	3045.	11.52	0.0290	0.	68.	0.05
MILE 31.50	810.59	199999.	4.27	46817.	2409.	13.14	0.0250	0.	72.	0.17
MILE 30.10	810.40	199999.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10
MILE 29.00	810.31	199999.	3.78	52896.	1402.	13.60	0.0200	0.	71.	0.11
MILE 27.30	810.18	199999.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE 25.20	810.08	199999.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE 23.10	809.86	199999.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 236 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

0DATE 10-09-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 4.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL
	INFLOW DEPTH	FROUDE							
MILE 79.80	867.19	200000.	10.21	19581.	865.	9.43	0.0290	0.	48. 0.38
MILE 77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54. 0.29
MILE 75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52. 0.44
MILE 73.50	849.69	200000.	9.54	20955.	1281.	9.58	0.0330	0.	50. 0.42
MILE 71.40	846.43	200000.	6.95	28785.	1141.	9.18	0.0400	0.	49. 0.24
MILE 69.30	841.93	200000.	7.42	26944.	1121.	9.26	0.0340	0.	43. 0.27
MILE 67.20	839.72	200000.	4.83	41385.	2424.	8.80	0.0340	0.	49. 0.21
MILE 65.10	836.51	200000.	6.37	31375.	2998.	9.24	0.0320	0.	50. 0.35
MILE 63.00	834.59	200000.	5.30	37766.	2394.	8.81	0.0400	0.	54. 0.23
MILE 60.90	829.83	200000.	7.21	27722.	1935.	9.31	0.0450	0.	53. 0.34
MILE 58.80	822.60	200000.	7.70	25986.	1374.	8.29	0.0400	0.	50. 0.31
MILE 57.00	820.83	200000.	7.92	25248.	1422.	8.82	0.0200	0.	46. 0.33
MILE 55.00	818.50	200000.	8.99	22242.	1378.	8.64	0.0200	0.	45. 0.39
MILE 53.10	817.64	200000.	6.19	32287.	1645.	8.60	0.0200	0.	44. 0.25
MILE 51.00	816.32	200000.	6.44	31049.	2180.	8.19	0.0200	0.	47. 0.30
MILE 48.30	815.52	200000.	4.68	42753.	4382.	9.55	0.0200	0.	47. 0.26
MILE 46.20	814.89	199999.	5.27	37934.	4426.	10.33	0.0200	0.	53. 0.32
MILE 44.10	814.82	199999.	3.24	61703.	2471.	10.64	0.0300	0.	60. 0.11
MILE 43.70	814.01	199999.	7.29	27424.	2316.	11.61	0.0300	0.	61. 0.37
MILE 42.00	813.59	199999.	3.92	51008.	2187.	9.18	0.0300	0.	64. 0.14
MILE 39.10	811.79	199999.	5.77	34658.	2145.	11.01	0.0230	0.	61. 0.25
MILE 37.00	811.73	199999.	3.22	62112.	1622.	10.86	0.0280	0.	60. 0.09
MILE 36.00	811.12	199999.	5.71	35009.	1210.	11.44	0.0280	0.	62. 0.19
MILE 34.60	810.89	199999.	4.14	48251.	1714.	12.56	0.0280	0.	62. 0.14
MILE 33.60	811.01	199999.	1.83	109303.	3045.	11.52	0.0290	0.	68. 0.05
MILE 31.50	810.59	199999.	4.27	46817.	2409.	13.14	0.0250	0.	72. 0.17
MILE 30.10	810.40	199999.	3.92	51077.	1091.	12.45	0.0200	0.	70. 0.10
MILE 29.00	810.31	199999.	3.78	52896.	1402.	13.60	0.0200	0.	71. 0.11
MILE 27.30	810.18	199999.	3.72	53768.	1359.	13.92	0.0230	0.	73. 0.10
MILE 25.20	810.08	199999.	3.12	64144.	1347.	14.73	0.0230	0.	76. 0.08
MILE 23.10	809.86	199999.	3.70	54064.	1473.	13.98	0.0230	0.	80. 0.11

0DATE 10-09-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 5.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL
	INFLOW DEPTH	FROUDE							
MILE 79.80	867.19	200000.	10.21	19581.	865.	9.43	0.0290	0.	48. 0.38
MILE 77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54. 0.29
MILE 75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52. 0.44
MILE 73.50	849.69	200000.	9.54	20955.	1281.	9.58	0.0330	0.	50. 0.42
MILE 71.40	846.43	200000.	6.95	28785.	1141.	9.18	0.0400	0.	49. 0.24

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 237 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 69.30	841.93	200000.	7.42	26944.	1121.	9.26	0.0340	0.	43.	0.27
MILE 67.20	839.72	200000.	4.83	41385.	2424.	8.80	0.0340	0.	49.	0.21
MILE 65.10	836.51	200000.	6.37	31375.	2998.	9.24	0.0320	0.	50.	0.35
MILE 63.00	834.59	200000.	5.30	37766.	2394.	8.81	0.0400	0.	54.	0.23
MILE 60.90	829.83	200000.	7.21	27722.	1935.	9.31	0.0450	0.	53.	0.34
MILE 58.80	822.60	200000.	7.70	25986.	1374.	8.29	0.0400	0.	50.	0.31
MILE 57.00	820.83	200000.	7.92	25248.	1422.	8.82	0.0200	0.	46.	0.33
MILE 55.00	818.50	200000.	8.99	22242.	1378.	8.64	0.0200	0.	45.	0.39
MILE 53.10	817.64	200000.	6.19	32287.	1645.	8.60	0.0200	0.	44.	0.25
MILE 51.00	816.32	200000.	6.44	31049.	2180.	8.19	0.0200	0.	47.	0.30
MILE 48.30	815.52	200000.	4.68	42753.	4382.	9.55	0.0200	0.	47.	0.26
MILE 46.20	814.89	200000.	5.27	37934.	4426.	10.33	0.0200	0.	53.	0.32
MILE 44.10	814.82	200000.	3.24	61703.	2471.	10.64	0.0300	0.	60.	0.11
MILE 43.70	814.01	200000.	7.29	27424.	2316.	11.61	0.0300	0.	61.	0.37
MILE 42.00	813.59	200000.	3.92	51008.	2187.	9.18	0.0300	0.	64.	0.14
MILE 39.10	811.79	200000.	5.77	34658.	2145.	11.01	0.0230	0.	61.	0.25
MILE 37.00	811.73	199999.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE 36.00	811.12	199999.	5.71	35009.	1210.	11.44	0.0280	0.	62.	0.19
MILE 34.60	810.89	199999.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE 33.60	811.01	199999.	1.83	109303.	3045.	11.52	0.0290	0.	68.	0.05
MILE 31.50	810.59	199999.	4.27	46817.	2409.	13.14	0.0250	0.	72.	0.17
MILE 30.10	810.40	199999.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10
MILE 29.00	810.31	199999.	3.78	52896.	1402.	13.60	0.0200	0.	71.	0.11
MILE 27.30	810.18	199999.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE 25.20	810.08	199999.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE 23.10	809.86	199999.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

0DATE 10-09-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	6.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL
INFLOW	DEPTH	FROUDE								
MILE 79.80	867.19	200000.	10.21	19581.	865.	9.43	0.0290	0.	48.	0.38
MILE 77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE 75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE 73.50	849.69	200000.	9.54	20955.	1281.	9.58	0.0330	0.	50.	0.42
MILE 71.40	846.43	200000.	6.95	28785.	1141.	9.18	0.0400	0.	49.	0.24
MILE 69.30	841.93	200000.	7.42	26944.	1121.	9.26	0.0340	0.	43.	0.27
MILE 67.20	839.72	200000.	4.83	41385.	2424.	8.80	0.0340	0.	49.	0.21
MILE 65.10	836.51	200000.	6.37	31375.	2998.	9.24	0.0320	0.	50.	0.35
MILE 63.00	834.59	200000.	5.30	37766.	2394.	8.81	0.0400	0.	54.	0.23
MILE 60.90	829.83	200000.	7.21	27722.	1935.	9.31	0.0450	0.	53.	0.34
MILE 58.80	822.60	200000.	7.70	25986.	1374.	8.29	0.0400	0.	50.	0.31
MILE 57.00	820.83	200000.	7.92	25248.	1422.	8.82	0.0200	0.	46.	0.33
MILE 55.00	818.50	200000.	8.99	22242.	1378.	8.64	0.0200	0.	45.	0.39
MILE 53.10	817.64	200000.	6.19	32287.	1645.	8.60	0.0200	0.	44.	0.25
MILE 51.00	816.32	200000.	6.44	31049.	2180.	8.19	0.0200	0.	47.	0.30
MILE 48.30	815.52	200000.	4.68	42753.	4382.	9.55	0.0200	0.	47.	0.26

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 238 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 46.20	814.89	200000.	5.27	37934.	4426.	10.33	0.0200	0.	53.	0.32
MILE 44.10	814.82	200000.	3.24	61703.	2471.	10.64	0.0300	0.	60.	0.11
MILE 43.70	814.01	200000.	7.29	27424.	2316.	11.61	0.0300	0.	61.	0.37
MILE 42.00	813.59	200000.	3.92	51008.	2187.	9.18	0.0300	0.	64.	0.14
MILE 39.10	811.79	200000.	5.77	34658.	2145.	11.01	0.0230	0.	61.	0.25
MILE 37.00	811.73	200000.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE 36.00	811.12	200000.	5.71	35009.	1210.	11.44	0.0280	0.	62.	0.19
MILE 34.60	810.89	200000.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE 33.60	811.01	200000.	1.83	109303.	3045.	11.52	0.0290	0.	68.	0.05
MILE 31.50	810.59	200000.	4.27	46817.	2409.	13.14	0.0250	0.	72.	0.17
MILE 30.10	810.40	200000.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10
MILE 29.00	810.31	200000.	3.78	52896.	1402.	13.60	0.0200	0.	71.	0.11
MILE 27.30	810.18	200000.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE 25.20	810.08	200000.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE 23.10	809.86	200000.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

ODATE 10-09-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 7.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	867.19	200000.	10.21	19581.	865.	9.43	0.0290	0.	48.	0.38
MILE 77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE 75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE 73.50	849.69	200000.	9.54	20955.	1281.	9.58	0.0330	0.	50.	0.42
MILE 71.40	846.43	200000.	6.95	28785.	1141.	9.18	0.0400	0.	49.	0.24
MILE 69.30	841.93	200000.	7.42	26944.	1121.	9.26	0.0340	0.	43.	0.27
MILE 67.20	839.72	200000.	4.83	41385.	2424.	8.80	0.0340	0.	49.	0.21
MILE 65.10	836.51	200000.	6.37	31375.	2998.	9.24	0.0320	0.	50.	0.35
MILE 63.00	834.59	200000.	5.30	37766.	2394.	8.81	0.0400	0.	54.	0.23
MILE 60.90	829.83	200000.	7.21	27722.	1935.	9.31	0.0450	0.	53.	0.34
MILE 58.80	822.60	200000.	7.70	25986.	1374.	8.29	0.0400	0.	50.	0.31
MILE 57.00	820.83	200000.	7.92	25248.	1422.	8.82	0.0200	0.	46.	0.33
MILE 55.00	818.50	200000.	8.99	22242.	1378.	8.64	0.0200	0.	45.	0.39
MILE 53.10	817.64	200000.	6.19	32287.	1645.	8.60	0.0200	0.	44.	0.25
MILE 51.00	816.32	200000.	6.44	31049.	2180.	8.19	0.0200	0.	47.	0.30
MILE 48.30	815.52	200000.	4.68	42753.	4382.	9.55	0.0200	0.	47.	0.26
MILE 46.20	814.89	200000.	5.27	37934.	4426.	10.33	0.0200	0.	53.	0.32
MILE 44.10	814.82	200000.	3.24	61703.	2471.	10.64	0.0300	0.	60.	0.11
MILE 43.70	814.01	200000.	7.29	27424.	2316.	11.61	0.0300	0.	61.	0.37
MILE 42.00	813.59	200000.	3.92	51008.	2187.	9.18	0.0300	0.	64.	0.14
MILE 39.10	811.79	200000.	5.77	34658.	2145.	11.01	0.0230	0.	61.	0.25
MILE 37.00	811.73	200000.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE 36.00	811.12	200000.	5.71	35009.	1210.	11.44	0.0280	0.	62.	0.19
MILE 34.60	810.89	200000.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE 33.60	811.01	200000.	1.83	109303.	3045.	11.52	0.0290	0.	68.	0.05
MILE 31.50	810.59	200000.	4.27	46817.	2409.	13.14	0.0250	0.	72.	0.17
MILE 30.10	810.40	200000.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	29.00	810.31	200000.	3.78	52896.	1402.	13.60	0.0200	0.	71.	0.11
MILE	27.30	810.18	200000.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE	25.20	810.08	200000.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE	23.10	809.86	200000.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

0DATE 10-09-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 8.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE	79.80	867.19	200000.	10.21	19581.	865.	9.43	0.0290	0.	48.	0.38
MILE	77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE	75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE	73.50	849.69	200000.	9.54	20955.	1281.	9.58	0.0330	0.	50.	0.42
MILE	71.40	846.43	200000.	6.95	28785.	1141.	9.18	0.0400	0.	49.	0.24
MILE	69.30	841.93	200000.	7.42	26944.	1121.	9.26	0.0340	0.	43.	0.27
MILE	67.20	839.72	200000.	4.83	41385.	2424.	8.80	0.0340	0.	49.	0.21
MILE	65.10	836.51	200000.	6.37	31375.	2998.	9.24	0.0320	0.	50.	0.35
MILE	63.00	834.59	200000.	5.30	37766.	2394.	8.81	0.0400	0.	54.	0.23
MILE	60.90	829.83	200000.	7.21	27722.	1935.	9.31	0.0450	0.	53.	0.34
MILE	58.80	822.60	200000.	7.70	25986.	1374.	8.29	0.0400	0.	50.	0.31
MILE	57.00	820.83	200000.	7.92	25248.	1422.	8.82	0.0200	0.	46.	0.33
MILE	55.00	818.50	200000.	8.99	22242.	1378.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.64	200000.	6.19	32287.	1645.	8.60	0.0200	0.	44.	0.25
MILE	51.00	816.32	200000.	6.44	31049.	2180.	8.19	0.0200	0.	47.	0.30
MILE	48.30	815.52	200000.	4.68	42753.	4382.	9.55	0.0200	0.	47.	0.26
MILE	46.20	814.89	200000.	5.27	37934.	4426.	10.33	0.0200	0.	53.	0.32
MILE	44.10	814.82	200000.	3.24	61703.	2471.	10.64	0.0300	0.	60.	0.11
MILE	43.70	814.01	200000.	7.29	27424.	2316.	11.61	0.0300	0.	61.	0.37
MILE	42.00	813.59	200000.	3.92	51008.	2187.	9.18	0.0300	0.	64.	0.14
MILE	39.10	811.79	200000.	5.77	34658.	2145.	11.01	0.0230	0.	61.	0.25
MILE	37.00	811.73	200000.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE	36.00	811.12	200000.	5.71	35009.	1210.	11.44	0.0280	0.	62.	0.19
MILE	34.60	810.89	200000.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE	33.60	811.01	200000.	1.83	109303.	3045.	11.52	0.0290	0.	68.	0.05
MILE	31.50	810.59	200000.	4.27	46817.	2409.	13.14	0.0250	0.	72.	0.17
MILE	30.10	810.40	200000.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10
MILE	29.00	810.31	200000.	3.78	52896.	1402.	13.60	0.0200	0.	71.	0.11
MILE	27.30	810.18	200000.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE	25.20	810.08	200000.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE	23.10	809.86	200000.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

0DATE 10-09-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 240 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

	TIME 9.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
	INFLOW DEPTH	FROUDE									
MILE	79.80	867.19	200000.	10.21	19581.	865.	9.43	0.0290	0.	48.	0.38
MILE	77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE	75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE	73.50	849.69	200000.	9.54	20955.	1281.	9.58	0.0330	0.	50.	0.42
MILE	71.40	846.43	200000.	6.95	28785.	1141.	9.18	0.0400	0.	49.	0.24
MILE	69.30	841.93	200000.	7.42	26944.	1121.	9.26	0.0340	0.	43.	0.27
MILE	67.20	839.72	200000.	4.83	41385.	2424.	8.80	0.0340	0.	49.	0.21
MILE	65.10	836.51	200000.	6.37	31375.	2998.	9.24	0.0320	0.	50.	0.35
MILE	63.00	834.59	200000.	5.30	37766.	2394.	8.81	0.0400	0.	54.	0.23
MILE	60.90	829.83	200000.	7.21	27722.	1935.	9.31	0.0450	0.	53.	0.34
MILE	58.80	822.60	200000.	7.70	25986.	1374.	8.29	0.0400	0.	50.	0.31
MILE	57.00	820.83	200000.	7.92	25248.	1422.	8.82	0.0200	0.	46.	0.33
MILE	55.00	818.50	200000.	8.99	22242.	1378.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.64	200000.	6.19	32287.	1645.	8.60	0.0200	0.	44.	0.25
MILE	51.00	816.32	200000.	6.44	31049.	2180.	8.19	0.0200	0.	47.	0.30
MILE	48.30	815.52	200000.	4.68	42753.	4382.	9.55	0.0200	0.	47.	0.26
MILE	46.20	814.89	200000.	5.27	37934.	4426.	10.33	0.0200	0.	53.	0.32
MILE	44.10	814.82	200000.	3.24	61703.	2471.	10.64	0.0300	0.	60.	0.11
MILE	43.70	814.01	200000.	7.29	27424.	2316.	11.61	0.0300	0.	61.	0.37
MILE	42.00	813.59	200000.	3.92	51008.	2187.	9.18	0.0300	0.	64.	0.14
MILE	39.10	811.79	200000.	5.77	34658.	2145.	11.01	0.0230	0.	61.	0.25
MILE	37.00	811.73	200000.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE	36.00	811.12	200000.	5.71	35009.	1210.	11.44	0.0280	0.	62.	0.19
MILE	34.60	810.89	200000.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE	33.60	811.01	200000.	1.83	109303.	3045.	11.52	0.0290	0.	68.	0.05
MILE	31.50	810.59	200000.	4.27	46817.	2409.	13.14	0.0250	0.	72.	0.17
MILE	30.10	810.40	200000.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10
MILE	29.00	810.31	200000.	3.78	52896.	1402.	13.60	0.0200	0.	71.	0.11
MILE	27.30	810.18	200000.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE	25.20	810.08	200000.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE	23.10	809.86	200000.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

0DATE 10-09-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 10.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
	INFLOW DEPTH	FROUDE									
MILE	79.80	867.19	200000.	10.21	19581.	865.	9.43	0.0290	0.	48.	0.38
MILE	77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE	75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE	73.50	849.69	200000.	9.54	20955.	1281.	9.58	0.0330	0.	50.	0.42
MILE	71.40	846.43	200000.	6.95	28785.	1141.	9.18	0.0400	0.	49.	0.24
MILE	69.30	841.93	200000.	7.42	26944.	1121.	9.26	0.0340	0.	43.	0.27
MILE	67.20	839.72	200000.	4.83	41385.	2424.	8.80	0.0340	0.	49.	0.21
MILE	65.10	836.51	200000.	6.37	31375.	2998.	9.24	0.0320	0.	50.	0.35

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 241 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	63.00	834.59	200000.	5.30	37766.	2394.	8.81	0.0400	0.	54.	0.23
MILE	60.90	829.83	200000.	7.21	27722.	1935.	9.31	0.0450	0.	53.	0.34
MILE	58.80	822.60	200000.	7.70	25986.	1374.	8.29	0.0400	0.	50.	0.31
MILE	57.00	820.83	200000.	7.92	25248.	1422.	8.82	0.0200	0.	46.	0.33
MILE	55.00	818.50	200000.	8.99	22242.	1378.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.64	200000.	6.19	32287.	1645.	8.60	0.0200	0.	44.	0.25
MILE	51.00	816.32	200000.	6.44	31049.	2180.	8.19	0.0200	0.	47.	0.30
MILE	48.30	815.52	200000.	4.68	42753.	4382.	9.55	0.0200	0.	47.	0.26
MILE	46.20	814.89	200000.	5.27	37934.	4426.	10.33	0.0200	0.	53.	0.32
MILE	44.10	814.82	200000.	3.24	61703.	2471.	10.64	0.0300	0.	60.	0.11
MILE	43.70	814.01	200000.	7.29	27424.	2316.	11.61	0.0300	0.	61.	0.37
MILE	42.00	813.59	200000.	3.92	51008.	2187.	9.18	0.0300	0.	64.	0.14
MILE	39.10	811.79	200000.	5.77	34658.	2145.	11.01	0.0230	0.	61.	0.25
MILE	37.00	811.73	200000.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE	36.00	811.12	200000.	5.71	35009.	1210.	11.44	0.0280	0.	62.	0.19
MILE	34.60	810.89	200000.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE	33.60	811.01	200000.	1.83	109303.	3045.	11.52	0.0290	0.	68.	0.05
MILE	31.50	810.59	200000.	4.27	46817.	2409.	13.14	0.0250	0.	72.	0.17
MILE	30.10	810.40	200000.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10
MILE	29.00	810.31	200000.	3.78	52896.	1402.	13.60	0.0200	0.	71.	0.11
MILE	27.30	810.18	200000.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE	25.20	810.08	200000.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE	23.10	809.86	200000.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

0DATE 10-09-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 11.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE	79.80	867.19	200000.	10.21	19581.	865.	9.43	0.0290	0.	48.	0.38
MILE	77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE	75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE	73.50	849.69	200000.	9.54	20955.	1281.	9.58	0.0330	0.	50.	0.42
MILE	71.40	846.43	200000.	6.95	28785.	1141.	9.18	0.0400	0.	49.	0.24
MILE	69.30	841.93	200000.	7.42	26944.	1121.	9.26	0.0340	0.	43.	0.27
MILE	67.20	839.72	200000.	4.83	41385.	2424.	8.80	0.0340	0.	49.	0.21
MILE	65.10	836.51	200000.	6.37	31375.	2998.	9.24	0.0320	0.	50.	0.35
MILE	63.00	834.59	200000.	5.30	37766.	2394.	8.81	0.0400	0.	54.	0.23
MILE	60.90	829.83	200000.	7.21	27722.	1935.	9.31	0.0450	0.	53.	0.34
MILE	58.80	822.60	200000.	7.70	25986.	1374.	8.29	0.0400	0.	50.	0.31
MILE	57.00	820.83	200000.	7.92	25248.	1422.	8.82	0.0200	0.	46.	0.33
MILE	55.00	818.50	200000.	8.99	22242.	1378.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.64	200000.	6.19	32287.	1645.	8.60	0.0200	0.	44.	0.25
MILE	51.00	816.32	200000.	6.44	31049.	2180.	8.19	0.0200	0.	47.	0.30
MILE	48.30	815.52	200000.	4.68	42753.	4382.	9.55	0.0200	0.	47.	0.26
MILE	46.20	814.89	200000.	5.27	37934.	4426.	10.33	0.0200	0.	53.	0.32
MILE	44.10	814.82	200000.	3.24	61703.	2471.	10.64	0.0300	0.	60.	0.11
MILE	43.70	814.01	200000.	7.29	27424.	2316.	11.61	0.0300	0.	61.	0.37

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 242 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	42.00	813.59	200000.	3.92	51008.	2187.	9.18	0.0300	0.	64.	0.14
MILE	39.10	811.79	200000.	5.77	34658.	2145.	11.01	0.0230	0.	61.	0.25
MILE	37.00	811.73	200000.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE	36.00	811.12	200000.	5.71	35009.	1210.	11.44	0.0280	0.	62.	0.19
MILE	34.60	810.89	200000.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE	33.60	811.01	200000.	1.83	109303.	3045.	11.52	0.0290	0.	68.	0.05
MILE	31.50	810.59	200000.	4.27	46817.	2409.	13.14	0.0250	0.	72.	0.17
MILE	30.10	810.40	200000.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10
MILE	29.00	810.31	200000.	3.78	52896.	1402.	13.60	0.0200	0.	71.	0.11
MILE	27.30	810.18	200000.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE	25.20	810.08	200000.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE	23.10	809.86	200000.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

0DATE 10-09-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 12.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE	79.80	867.19	200000.	10.21	19581.	865.	9.43	0.0290	0.	48.	0.38
MILE	77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE	75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE	73.50	849.69	200000.	9.54	20955.	1281.	9.58	0.0330	0.	50.	0.42
MILE	71.40	846.43	200000.	6.95	28785.	1141.	9.18	0.0400	0.	49.	0.24
MILE	69.30	841.93	200000.	7.42	26944.	1121.	9.26	0.0340	0.	43.	0.27
MILE	67.20	839.72	200000.	4.83	41385.	2424.	8.80	0.0340	0.	49.	0.21
MILE	65.10	836.51	200000.	6.37	31375.	2998.	9.24	0.0320	0.	50.	0.35
MILE	63.00	834.59	200000.	5.30	37766.	2394.	8.81	0.0400	0.	54.	0.23
MILE	60.90	829.83	200000.	7.21	27722.	1935.	9.31	0.0450	0.	53.	0.34
MILE	58.80	822.60	200000.	7.70	25986.	1374.	8.29	0.0400	0.	50.	0.31
MILE	57.00	820.83	200000.	7.92	25248.	1422.	8.82	0.0200	0.	46.	0.33
MILE	55.00	818.50	200000.	8.99	22242.	1378.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.64	200000.	6.19	32287.	1645.	8.60	0.0200	0.	44.	0.25
MILE	51.00	816.32	200000.	6.44	31049.	2180.	8.19	0.0200	0.	47.	0.30
MILE	48.30	815.52	200000.	4.68	42753.	4382.	9.55	0.0200	0.	47.	0.26
MILE	46.20	814.89	200000.	5.27	37934.	4426.	10.33	0.0200	0.	53.	0.32
MILE	44.10	814.82	200000.	3.24	61703.	2471.	10.64	0.0300	0.	60.	0.11
MILE	43.70	814.01	200000.	7.29	27424.	2316.	11.61	0.0300	0.	61.	0.37
MILE	42.00	813.59	200000.	3.92	51008.	2187.	9.18	0.0300	0.	64.	0.14
MILE	39.10	811.79	200000.	5.77	34658.	2145.	11.01	0.0230	0.	61.	0.25
MILE	37.00	811.73	200000.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE	36.00	811.12	200000.	5.71	35009.	1210.	11.44	0.0280	0.	62.	0.19
MILE	34.60	810.89	200000.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE	33.60	811.01	200000.	1.83	109303.	3045.	11.52	0.0290	0.	68.	0.05
MILE	31.50	810.59	200000.	4.27	46817.	2409.	13.14	0.0250	0.	72.	0.17
MILE	30.10	810.40	200000.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10
MILE	29.00	810.31	200000.	3.78	52896.	1402.	13.60	0.0200	0.	71.	0.11
MILE	27.30	810.18	200000.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE	25.20	810.08	200000.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 243 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 23.10 809.86 200000. 3.70 54064. 1473. 13.98 0.0230 0. 80. 0.11

ODATE 10-09-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 13.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80 867.19 200000. 10.21 19581. 865. 9.43 0.0290 0. 48. 0.38
MILE 77.70 864.87 200000. 8.02 24943. 1044. 10.22 0.0400 0. 54. 0.29
MILE 75.60 858.03 200000. 8.88 22521. 1744. 9.57 0.0400 0. 52. 0.44
MILE 73.50 849.69 200000. 9.54 20955. 1281. 9.58 0.0330 0. 50. 0.42
MILE 71.40 846.43 200000. 6.95 28785. 1141. 9.18 0.0400 0. 49. 0.24
MILE 69.30 841.93 200000. 7.42 26944. 1121. 9.26 0.0340 0. 43. 0.27
MILE 67.20 839.72 200000. 4.83 41385. 2424. 8.80 0.0340 0. 49. 0.21
MILE 65.10 836.51 200000. 6.37 31375. 2998. 9.24 0.0320 0. 50. 0.35
MILE 63.00 834.59 200000. 5.30 37766. 2394. 8.81 0.0400 0. 54. 0.23
MILE 60.90 829.83 200000. 7.21 27722. 1935. 9.31 0.0450 0. 53. 0.34
MILE 58.80 822.60 200000. 7.70 25986. 1374. 8.29 0.0400 0. 50. 0.31
MILE 57.00 820.83 200000. 7.92 25248. 1422. 8.82 0.0200 0. 46. 0.33
MILE 55.00 818.50 200000. 8.99 22242. 1378. 8.64 0.0200 0. 45. 0.39
MILE 53.10 817.64 200000. 6.19 32287. 1645. 8.60 0.0200 0. 44. 0.25
MILE 51.00 816.32 200000. 6.44 31049. 2180. 8.19 0.0200 0. 47. 0.30
MILE 48.30 815.52 200000. 4.68 42753. 4382. 9.55 0.0200 0. 47. 0.26
MILE 46.20 814.89 200000. 5.27 37934. 4426. 10.33 0.0200 0. 53. 0.32
MILE 44.10 814.82 200000. 3.24 61703. 2471. 10.64 0.0300 0. 60. 0.11
MILE 43.70 814.01 200000. 7.29 27424. 2316. 11.61 0.0300 0. 61. 0.37
MILE 42.00 813.59 200000. 3.92 51008. 2187. 9.18 0.0300 0. 64. 0.14
MILE 39.10 811.79 200000. 5.77 34658. 2145. 11.01 0.0230 0. 61. 0.25
MILE 37.00 811.73 200000. 3.22 62112. 1622. 10.86 0.0280 0. 60. 0.09
MILE 36.00 811.12 200000. 5.71 35009. 1210. 11.44 0.0280 0. 62. 0.19
MILE 34.60 810.89 200000. 4.14 48251. 1714. 12.56 0.0280 0. 62. 0.14
MILE 33.60 811.01 200000. 1.83 109303. 3045. 11.52 0.0290 0. 68. 0.05
MILE 31.50 810.59 200000. 4.27 46817. 2409. 13.14 0.0250 0. 72. 0.17
MILE 30.10 810.40 200000. 3.92 51077. 1091. 12.45 0.0200 0. 70. 0.10
MILE 29.00 810.31 200000. 3.78 52896. 1402. 13.60 0.0200 0. 71. 0.11
MILE 27.30 810.18 200000. 3.72 53768. 1359. 13.92 0.0230 0. 73. 0.10
MILE 25.20 810.08 200000. 3.12 64144. 1347. 14.73 0.0230 0. 76. 0.08
MILE 23.10 809.86 200000. 3.70 54064. 1473. 13.98 0.0230 0. 80. 0.11

ODATE 10-09-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 14.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80 867.19 200000. 10.21 19581. 865. 9.43 0.0290 0. 48. 0.38

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 244 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE 75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE 73.50	849.69	200000.	9.54	20955.	1281.	9.58	0.0330	0.	50.	0.42
MILE 71.40	846.43	200000.	6.95	28785.	1141.	9.18	0.0400	0.	49.	0.24
MILE 69.30	841.93	200000.	7.42	26944.	1121.	9.26	0.0340	0.	43.	0.27
MILE 67.20	839.72	200000.	4.83	41385.	2424.	8.80	0.0340	0.	49.	0.21
MILE 65.10	836.51	200000.	6.37	31375.	2998.	9.24	0.0320	0.	50.	0.35
MILE 63.00	834.59	200000.	5.30	37766.	2394.	8.81	0.0400	0.	54.	0.23
MILE 60.90	829.83	200000.	7.21	27722.	1935.	9.31	0.0450	0.	53.	0.34
MILE 58.80	822.60	200000.	7.70	25986.	1374.	8.29	0.0400	0.	50.	0.31
MILE 57.00	820.83	200000.	7.92	25248.	1422.	8.82	0.0200	0.	46.	0.33
MILE 55.00	818.50	200000.	8.99	22242.	1378.	8.64	0.0200	0.	45.	0.39
MILE 53.10	817.64	200000.	6.19	32287.	1645.	8.60	0.0200	0.	44.	0.25
MILE 51.00	816.32	200000.	6.44	31049.	2180.	8.19	0.0200	0.	47.	0.30
MILE 48.30	815.52	200000.	4.68	42753.	4382.	9.55	0.0200	0.	47.	0.26
MILE 46.20	814.89	200000.	5.27	37934.	4426.	10.33	0.0200	0.	53.	0.32
MILE 44.10	814.82	200000.	3.24	61703.	2471.	10.64	0.0300	0.	60.	0.11
MILE 43.70	814.01	200000.	7.29	27424.	2316.	11.61	0.0300	0.	61.	0.37
MILE 42.00	813.59	200000.	3.92	51008.	2187.	9.18	0.0300	0.	64.	0.14
MILE 39.10	811.79	200000.	5.77	34658.	2145.	11.01	0.0230	0.	61.	0.25
MILE 37.00	811.73	200000.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE 36.00	811.12	200000.	5.71	35009.	1210.	11.44	0.0280	0.	62.	0.19
MILE 34.60	810.89	200000.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE 33.60	811.01	200000.	1.83	109303.	3045.	11.52	0.0290	0.	68.	0.05
MILE 31.50	810.59	200000.	4.27	46817.	2409.	13.14	0.0250	0.	72.	0.17
MILE 30.10	810.40	200000.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10
MILE 29.00	810.31	200000.	3.78	52896.	1402.	13.60	0.0200	0.	71.	0.11
MILE 27.30	810.18	200000.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE 25.20	810.08	200000.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE 23.10	809.86	200000.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

0DATE 10-09-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 15.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	867.19	200000.	10.21	19581.	865.	9.43	0.0290	0.	48.	0.38
MILE 77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE 75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE 73.50	849.69	200000.	9.54	20955.	1281.	9.58	0.0330	0.	50.	0.42
MILE 71.40	846.43	200000.	6.95	28785.	1141.	9.18	0.0400	0.	49.	0.24
MILE 69.30	841.93	200000.	7.42	26944.	1121.	9.26	0.0340	0.	43.	0.27
MILE 67.20	839.72	200000.	4.83	41385.	2424.	8.80	0.0340	0.	49.	0.21
MILE 65.10	836.51	200000.	6.37	31375.	2998.	9.24	0.0320	0.	50.	0.35
MILE 63.00	834.59	200000.	5.30	37766.	2394.	8.81	0.0400	0.	54.	0.23
MILE 60.90	829.83	200000.	7.21	27722.	1935.	9.31	0.0450	0.	53.	0.34
MILE 58.80	822.60	200000.	7.70	25986.	1374.	8.29	0.0400	0.	50.	0.31
MILE 57.00	820.83	200000.	7.92	25248.	1422.	8.82	0.0200	0.	46.	0.33

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 245 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	55.00	818.50	200000.	8.99	22242.	1378.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.64	200000.	6.19	32287.	1645.	8.60	0.0200	0.	44.	0.25
MILE	51.00	816.32	200000.	6.44	31049.	2180.	8.19	0.0200	0.	47.	0.30
MILE	48.30	815.52	200000.	4.68	42753.	4382.	9.55	0.0200	0.	47.	0.26
MILE	46.20	814.89	200000.	5.27	37934.	4426.	10.33	0.0200	0.	53.	0.32
MILE	44.10	814.82	200000.	3.24	61703.	2471.	10.64	0.0300	0.	60.	0.11
MILE	43.70	814.01	200000.	7.29	27424.	2316.	11.61	0.0300	0.	61.	0.37
MILE	42.00	813.59	200000.	3.92	51008.	2187.	9.18	0.0300	0.	64.	0.14
MILE	39.10	811.79	200000.	5.77	34658.	2145.	11.01	0.0230	0.	61.	0.25
MILE	37.00	811.73	200000.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE	36.00	811.12	200000.	5.71	35009.	1210.	11.44	0.0280	0.	62.	0.19
MILE	34.60	810.89	200000.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE	33.60	811.01	200000.	1.83	109303.	3045.	11.52	0.0290	0.	68.	0.05
MILE	31.50	810.59	200000.	4.27	46817.	2409.	13.14	0.0250	0.	72.	0.17
MILE	30.10	810.40	200000.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10
MILE	29.00	810.31	200000.	3.78	52896.	1402.	13.60	0.0200	0.	71.	0.11
MILE	27.30	810.18	200000.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE	25.20	810.08	200000.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE	23.10	809.86	200000.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

0DATE 10-09-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 16.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	867.19	200000.	10.21	19581.	865.	9.43	0.0290	0.	48.	0.38
MILE	77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE	75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE	73.50	849.69	200000.	9.54	20955.	1281.	9.58	0.0330	0.	50.	0.42
MILE	71.40	846.43	200000.	6.95	28785.	1141.	9.18	0.0400	0.	49.	0.24
MILE	69.30	841.93	200000.	7.42	26944.	1121.	9.26	0.0340	0.	43.	0.27
MILE	67.20	839.72	200000.	4.83	41385.	2424.	8.80	0.0340	0.	49.	0.21
MILE	65.10	836.51	200000.	6.37	31375.	2998.	9.24	0.0320	0.	50.	0.35
MILE	63.00	834.59	200000.	5.30	37766.	2394.	8.81	0.0400	0.	54.	0.23
MILE	60.90	829.83	200000.	7.21	27722.	1935.	9.31	0.0450	0.	53.	0.34
MILE	58.80	822.60	200000.	7.70	25986.	1374.	8.29	0.0400	0.	50.	0.31
MILE	57.00	820.83	200000.	7.92	25248.	1422.	8.82	0.0200	0.	46.	0.33
MILE	55.00	818.50	200000.	8.99	22242.	1378.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.64	200000.	6.19	32287.	1645.	8.60	0.0200	0.	44.	0.25
MILE	51.00	816.32	200000.	6.44	31049.	2180.	8.19	0.0200	0.	47.	0.30
MILE	48.30	815.52	200000.	4.68	42753.	4382.	9.55	0.0200	0.	47.	0.26
MILE	46.20	814.89	200000.	5.27	37934.	4426.	10.33	0.0200	0.	53.	0.32
MILE	44.10	814.82	200000.	3.24	61703.	2471.	10.64	0.0300	0.	60.	0.11
MILE	43.70	814.01	200000.	7.29	27424.	2316.	11.61	0.0300	0.	61.	0.37
MILE	42.00	813.59	200000.	3.92	51008.	2187.	9.18	0.0300	0.	64.	0.14
MILE	39.10	811.79	200000.	5.77	34658.	2145.	11.01	0.0230	0.	61.	0.25
MILE	37.00	811.73	200000.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE	36.00	811.12	200000.	5.71	35009.	1210.	11.44	0.0280	0.	62.	0.19

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 246 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	34.60	810.89	200000.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE	33.60	811.01	200000.	1.83	109303.	3045.	11.52	0.0290	0.	68.	0.05
MILE	31.50	810.59	200000.	4.27	46817.	2409.	13.14	0.0250	0.	72.	0.17
MILE	30.10	810.40	200000.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10
MILE	29.00	810.31	200000.	3.78	52896.	1402.	13.60	0.0200	0.	71.	0.11
MILE	27.30	810.18	200000.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE	25.20	810.08	200000.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE	23.10	809.86	200000.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

ODATE 10-09-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 17.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	867.19	200000.	10.21	19581.	865.	9.43	0.0290	0.	48.	0.38
MILE	77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE	75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE	73.50	849.69	200000.	9.54	20955.	1281.	9.58	0.0330	0.	50.	0.42
MILE	71.40	846.43	200000.	6.95	28785.	1141.	9.18	0.0400	0.	49.	0.24
MILE	69.30	841.93	200000.	7.42	26944.	1121.	9.26	0.0340	0.	43.	0.27
MILE	67.20	839.72	200000.	4.83	41385.	2424.	8.80	0.0340	0.	49.	0.21
MILE	65.10	836.51	200000.	6.37	31375.	2998.	9.24	0.0320	0.	50.	0.35
MILE	63.00	834.59	200000.	5.30	37766.	2394.	8.81	0.0400	0.	54.	0.23
MILE	60.90	829.83	200000.	7.21	27722.	1935.	9.31	0.0450	0.	53.	0.34
MILE	58.80	822.60	200000.	7.70	25986.	1374.	8.29	0.0400	0.	50.	0.31
MILE	57.00	820.83	200000.	7.92	25248.	1422.	8.82	0.0200	0.	46.	0.33
MILE	55.00	818.50	200000.	8.99	22242.	1378.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.64	200000.	6.19	32287.	1645.	8.60	0.0200	0.	44.	0.25
MILE	51.00	816.32	200000.	6.44	31049.	2180.	8.19	0.0200	0.	47.	0.30
MILE	48.30	815.52	200000.	4.68	42753.	4382.	9.55	0.0200	0.	47.	0.26
MILE	46.20	814.89	200000.	5.27	37934.	4426.	10.33	0.0200	0.	53.	0.32
MILE	44.10	814.82	200000.	3.24	61703.	2471.	10.64	0.0300	0.	60.	0.11
MILE	43.70	814.01	200000.	7.29	27424.	2316.	11.61	0.0300	0.	61.	0.37
MILE	42.00	813.59	200000.	3.92	51008.	2187.	9.18	0.0300	0.	64.	0.14
MILE	39.10	811.79	200000.	5.77	34658.	2145.	11.01	0.0230	0.	61.	0.25
MILE	37.00	811.73	200000.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE	36.00	811.12	200000.	5.71	35009.	1210.	11.44	0.0280	0.	62.	0.19
MILE	34.60	810.89	200000.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE	33.60	811.01	200000.	1.83	109303.	3045.	11.52	0.0290	0.	68.	0.05
MILE	31.50	810.59	200000.	4.27	46817.	2409.	13.14	0.0250	0.	72.	0.17
MILE	30.10	810.40	200000.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10
MILE	29.00	810.31	200000.	3.78	52896.	1402.	13.60	0.0200	0.	71.	0.11
MILE	27.30	810.18	200000.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE	25.20	810.08	200000.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE	23.10	809.86	200000.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 247 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

ODATE 10-09-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 18.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL
	INFLOW DEPTH	FROUDE							
MILE 79.80	867.19	200000.	10.21	19581.	865.	9.43 0.0290	0.	48.	0.38
MILE 77.70	864.87	200000.	8.02	24943.	1044.	10.22 0.0400	0.	54.	0.29
MILE 75.60	858.03	200000.	8.88	22521.	1744.	9.57 0.0400	0.	52.	0.44
MILE 73.50	849.69	200000.	9.54	20955.	1281.	9.58 0.0330	0.	50.	0.42
MILE 71.40	846.43	200000.	6.95	28785.	1141.	9.18 0.0400	0.	49.	0.24
MILE 69.30	841.93	200000.	7.42	26944.	1121.	9.26 0.0340	0.	43.	0.27
MILE 67.20	839.72	200000.	4.83	41385.	2424.	8.80 0.0340	0.	49.	0.21
MILE 65.10	836.51	200000.	6.37	31375.	2998.	9.24 0.0320	0.	50.	0.35
MILE 63.00	834.59	200000.	5.30	37766.	2394.	8.81 0.0400	0.	54.	0.23
MILE 60.90	829.83	200000.	7.21	27722.	1935.	9.31 0.0450	0.	53.	0.34
MILE 58.80	822.60	200000.	7.70	25986.	1374.	8.29 0.0400	0.	50.	0.31
MILE 57.00	820.83	200000.	7.92	25248.	1422.	8.82 0.0200	0.	46.	0.33
MILE 55.00	818.50	200000.	8.99	22242.	1378.	8.64 0.0200	0.	45.	0.39
MILE 53.10	817.64	200000.	6.19	32287.	1645.	8.60 0.0200	0.	44.	0.25
MILE 51.00	816.32	200000.	6.44	31049.	2180.	8.19 0.0200	0.	47.	0.30
MILE 48.30	815.52	200000.	4.68	42753.	4382.	9.55 0.0200	0.	47.	0.26
MILE 46.20	814.89	200000.	5.27	37934.	4426.	10.33 0.0200	0.	53.	0.32
MILE 44.10	814.82	200000.	3.24	61703.	2471.	10.64 0.0300	0.	60.	0.11
MILE 43.70	814.01	200000.	7.29	27424.	2316.	11.61 0.0300	0.	61.	0.37
MILE 42.00	813.59	200000.	3.92	51008.	2187.	9.18 0.0300	0.	64.	0.14
MILE 39.10	811.79	200000.	5.77	34658.	2145.	11.01 0.0230	0.	61.	0.25
MILE 37.00	811.73	200000.	3.22	62112.	1622.	10.86 0.0280	0.	60.	0.09
MILE 36.00	811.12	200000.	5.71	35009.	1210.	11.44 0.0280	0.	62.	0.19
MILE 34.60	810.89	200000.	4.14	48251.	1714.	12.56 0.0280	0.	62.	0.14
MILE 33.60	811.01	200000.	1.83	109303.	3045.	11.52 0.0290	0.	68.	0.05
MILE 31.50	810.59	200000.	4.27	46817.	2409.	13.14 0.0250	0.	72.	0.17
MILE 30.10	810.40	200000.	3.92	51077.	1091.	12.45 0.0200	0.	70.	0.10
MILE 29.00	810.31	200000.	3.78	52896.	1402.	13.60 0.0200	0.	71.	0.11
MILE 27.30	810.18	200000.	3.72	53768.	1359.	13.92 0.0230	0.	73.	0.10
MILE 25.20	810.08	200000.	3.12	64144.	1347.	14.73 0.0230	0.	76.	0.08
MILE 23.10	809.86	200000.	3.70	54064.	1473.	13.98 0.0230	0.	80.	0.11

ODATE 10-09-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 19.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL
	INFLOW DEPTH	FROUDE							
MILE 79.80	867.19	200000.	10.21	19581.	865.	9.43 0.0290	0.	48.	0.38
MILE 77.70	864.87	200000.	8.02	24943.	1044.	10.22 0.0400	0.	54.	0.29
MILE 75.60	858.03	200000.	8.88	22521.	1744.	9.57 0.0400	0.	52.	0.44
MILE 73.50	849.69	200000.	9.54	20955.	1281.	9.58 0.0330	0.	50.	0.42
MILE 71.40	846.43	200000.	6.95	28785.	1141.	9.18 0.0400	0.	49.	0.24

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 248 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 69.30	841.93	200000.	7.42	26944.	1121.	9.26	0.0340	0.	43.	0.27
MILE 67.20	839.72	200000.	4.83	41385.	2424.	8.80	0.0340	0.	49.	0.21
MILE 65.10	836.51	200000.	6.37	31375.	2998.	9.24	0.0320	0.	50.	0.35
MILE 63.00	834.59	200000.	5.30	37766.	2394.	8.81	0.0400	0.	54.	0.23
MILE 60.90	829.83	200000.	7.21	27722.	1935.	9.31	0.0450	0.	53.	0.34
MILE 58.80	822.60	200000.	7.70	25986.	1374.	8.29	0.0400	0.	50.	0.31
MILE 57.00	820.83	200000.	7.92	25248.	1422.	8.82	0.0200	0.	46.	0.33
MILE 55.00	818.50	200000.	8.99	22242.	1378.	8.64	0.0200	0.	45.	0.39
MILE 53.10	817.64	200000.	6.19	32287.	1645.	8.60	0.0200	0.	44.	0.25
MILE 51.00	816.32	200000.	6.44	31049.	2180.	8.19	0.0200	0.	47.	0.30
MILE 48.30	815.52	200000.	4.68	42753.	4382.	9.55	0.0200	0.	47.	0.26
MILE 46.20	814.89	200000.	5.27	37934.	4426.	10.33	0.0200	0.	53.	0.32
MILE 44.10	814.82	200000.	3.24	61703.	2471.	10.64	0.0300	0.	60.	0.11
MILE 43.70	814.01	200000.	7.29	27424.	2316.	11.61	0.0300	0.	61.	0.37
MILE 42.00	813.59	200000.	3.92	51008.	2187.	9.18	0.0300	0.	64.	0.14
MILE 39.10	811.79	200000.	5.77	34658.	2145.	11.01	0.0230	0.	61.	0.25
MILE 37.00	811.73	200000.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE 36.00	811.12	200000.	5.71	35009.	1210.	11.44	0.0280	0.	62.	0.19
MILE 34.60	810.89	200000.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE 33.60	811.01	200000.	1.83	109303.	3045.	11.52	0.0290	0.	68.	0.05
MILE 31.50	810.59	200000.	4.27	46817.	2409.	13.14	0.0250	0.	72.	0.17
MILE 30.10	810.40	200000.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10
MILE 29.00	810.31	200000.	3.78	52896.	1402.	13.60	0.0200	0.	71.	0.11
MILE 27.30	810.18	200000.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE 25.20	810.08	200000.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE 23.10	809.86	200000.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

ODATE 10-09-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 20.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	867.19	200000.	10.21	19581.	865.	9.43	0.0290	0.	48.	0.38
MILE 77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE 75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE 73.50	849.69	200000.	9.54	20955.	1281.	9.58	0.0330	0.	50.	0.42
MILE 71.40	846.43	200000.	6.95	28785.	1141.	9.18	0.0400	0.	49.	0.24
MILE 69.30	841.93	200000.	7.42	26944.	1121.	9.26	0.0340	0.	43.	0.27
MILE 67.20	839.72	200000.	4.83	41385.	2424.	8.80	0.0340	0.	49.	0.21
MILE 65.10	836.51	200000.	6.37	31375.	2998.	9.24	0.0320	0.	50.	0.35
MILE 63.00	834.59	200000.	5.30	37766.	2394.	8.81	0.0400	0.	54.	0.23
MILE 60.90	829.83	200000.	7.21	27722.	1935.	9.31	0.0450	0.	53.	0.34
MILE 58.80	822.60	200000.	7.70	25986.	1374.	8.29	0.0400	0.	50.	0.31
MILE 57.00	820.83	200000.	7.92	25248.	1422.	8.82	0.0200	0.	46.	0.33
MILE 55.00	818.50	200000.	8.99	22242.	1378.	8.64	0.0200	0.	45.	0.39
MILE 53.10	817.64	200000.	6.19	32287.	1645.	8.60	0.0200	0.	44.	0.25
MILE 51.00	816.32	200000.	6.44	31049.	2180.	8.19	0.0200	0.	47.	0.30
MILE 48.30	815.52	200000.	4.68	42753.	4382.	9.55	0.0200	0.	47.	0.26

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 249 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 46.20	814.89	200000.	5.27	37934.	4426.	10.33	0.0200	0.	53.	0.32
MILE 44.10	814.82	200000.	3.24	61703.	2471.	10.64	0.0300	0.	60.	0.11
MILE 43.70	814.01	200000.	7.29	27424.	2316.	11.61	0.0300	0.	61.	0.37
MILE 42.00	813.59	200000.	3.92	51008.	2187.	9.18	0.0300	0.	64.	0.14
MILE 39.10	811.79	200000.	5.77	34658.	2145.	11.01	0.0230	0.	61.	0.25
MILE 37.00	811.73	200000.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE 36.00	811.12	200000.	5.71	35009.	1210.	11.44	0.0280	0.	62.	0.19
MILE 34.60	810.89	200000.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE 33.60	811.01	200000.	1.83	109303.	3045.	11.52	0.0290	0.	68.	0.05
MILE 31.50	810.59	200000.	4.27	46817.	2409.	13.14	0.0250	0.	72.	0.17
MILE 30.10	810.40	200000.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10
MILE 29.00	810.31	200000.	3.78	52896.	1402.	13.60	0.0200	0.	71.	0.11
MILE 27.30	810.18	200000.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE 25.20	810.08	200000.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE 23.10	809.86	200000.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

ODATE 10-09-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 21.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	867.19	200000.	10.21	19581.	865.	9.43	0.0290	0.	48.	0.38
MILE 77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE 75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE 73.50	849.69	200000.	9.54	20955.	1281.	9.58	0.0330	0.	50.	0.42
MILE 71.40	846.43	200000.	6.95	28785.	1141.	9.18	0.0400	0.	49.	0.24
MILE 69.30	841.93	200000.	7.42	26944.	1121.	9.26	0.0340	0.	43.	0.27
MILE 67.20	839.72	200000.	4.83	41385.	2424.	8.80	0.0340	0.	49.	0.21
MILE 65.10	836.51	200000.	6.37	31375.	2998.	9.24	0.0320	0.	50.	0.35
MILE 63.00	834.59	200000.	5.30	37766.	2394.	8.81	0.0400	0.	54.	0.23
MILE 60.90	829.83	200000.	7.21	27722.	1935.	9.31	0.0450	0.	53.	0.34
MILE 58.80	822.60	200000.	7.70	25986.	1374.	8.29	0.0400	0.	50.	0.31
MILE 57.00	820.83	200000.	7.92	25248.	1422.	8.82	0.0200	0.	46.	0.33
MILE 55.00	818.50	200000.	8.99	22242.	1378.	8.64	0.0200	0.	45.	0.39
MILE 53.10	817.64	200000.	6.19	32287.	1645.	8.60	0.0200	0.	44.	0.25
MILE 51.00	816.32	200000.	6.44	31049.	2180.	8.19	0.0200	0.	47.	0.30
MILE 48.30	815.52	200000.	4.68	42753.	4382.	9.55	0.0200	0.	47.	0.26
MILE 46.20	814.89	200000.	5.27	37934.	4426.	10.33	0.0200	0.	53.	0.32
MILE 44.10	814.82	200000.	3.24	61703.	2471.	10.64	0.0300	0.	60.	0.11
MILE 43.70	814.01	200000.	7.29	27424.	2316.	11.61	0.0300	0.	61.	0.37
MILE 42.00	813.59	200000.	3.92	51008.	2187.	9.18	0.0300	0.	64.	0.14
MILE 39.10	811.79	200000.	5.77	34658.	2145.	11.01	0.0230	0.	61.	0.25
MILE 37.00	811.73	200000.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE 36.00	811.12	200000.	5.71	35009.	1210.	11.44	0.0280	0.	62.	0.19
MILE 34.60	810.89	200000.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE 33.60	811.01	200000.	1.83	109303.	3045.	11.52	0.0290	0.	68.	0.05
MILE 31.50	810.59	200000.	4.27	46817.	2409.	13.14	0.0250	0.	72.	0.17
MILE 30.10	810.40	200000.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 250 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	29.00	810.31	200000.	3.78	52896.	1402.	13.60	0.0200	0.	71.	0.11
MILE	27.30	810.18	200000.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE	25.20	810.08	200000.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE	23.10	809.86	200000.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

0DATE 10-09-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 22.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	867.19	200000.	10.21	19581.	865.	9.43	0.0290	0.	48.	0.38
MILE	77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE	75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE	73.50	849.69	200000.	9.54	20955.	1281.	9.58	0.0330	0.	50.	0.42
MILE	71.40	846.43	200000.	6.95	28785.	1141.	9.18	0.0400	0.	49.	0.24
MILE	69.30	841.93	200000.	7.42	26944.	1121.	9.26	0.0340	0.	43.	0.27
MILE	67.20	839.72	200000.	4.83	41385.	2424.	8.80	0.0340	0.	49.	0.21
MILE	65.10	836.51	200000.	6.37	31375.	2998.	9.24	0.0320	0.	50.	0.35
MILE	63.00	834.59	200000.	5.30	37766.	2394.	8.81	0.0400	0.	54.	0.23
MILE	60.90	829.83	200000.	7.21	27722.	1935.	9.31	0.0450	0.	53.	0.34
MILE	58.80	822.60	200000.	7.70	25986.	1374.	8.29	0.0400	0.	50.	0.31
MILE	57.00	820.83	200000.	7.92	25248.	1422.	8.82	0.0200	0.	46.	0.33
MILE	55.00	818.50	200000.	8.99	22242.	1378.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.64	200000.	6.19	32287.	1645.	8.60	0.0200	0.	44.	0.25
MILE	51.00	816.32	200000.	6.44	31049.	2180.	8.19	0.0200	0.	47.	0.30
MILE	48.30	815.52	200000.	4.68	42753.	4382.	9.55	0.0200	0.	47.	0.26
MILE	46.20	814.89	200000.	5.27	37934.	4426.	10.33	0.0200	0.	53.	0.32
MILE	44.10	814.82	200000.	3.24	61703.	2471.	10.64	0.0300	0.	60.	0.11
MILE	43.70	814.01	200000.	7.29	27424.	2316.	11.61	0.0300	0.	61.	0.37
MILE	42.00	813.59	200000.	3.92	51008.	2187.	9.18	0.0300	0.	64.	0.14
MILE	39.10	811.79	200000.	5.77	34658.	2145.	11.01	0.0230	0.	61.	0.25
MILE	37.00	811.73	200000.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE	36.00	811.12	200000.	5.71	35009.	1210.	11.44	0.0280	0.	62.	0.19
MILE	34.60	810.89	200000.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE	33.60	811.01	200000.	1.83	109303.	3045.	11.52	0.0290	0.	68.	0.05
MILE	31.50	810.59	200000.	4.27	46817.	2409.	13.14	0.0250	0.	72.	0.17
MILE	30.10	810.40	200000.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10
MILE	29.00	810.31	200000.	3.78	52896.	1402.	13.60	0.0200	0.	71.	0.11
MILE	27.30	810.18	200000.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE	25.20	810.08	200000.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE	23.10	809.86	200000.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

0DATE 10-09-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 251 of 665
Subject: SOCH Model Calibration, Melton Hill			Prepped
Appendix E			Checked
			JAW
			ACM

	TIME 23.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
	INFLOW DEPTH	FROUDE									
MILE	79.80	867.19	200000.	10.21	19581.	865.	9.43	0.0290	0.	48.	0.38
MILE	77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE	75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE	73.50	849.69	200000.	9.54	20955.	1281.	9.58	0.0330	0.	50.	0.42
MILE	71.40	846.43	200000.	6.95	28785.	1141.	9.18	0.0400	0.	49.	0.24
MILE	69.30	841.93	200000.	7.42	26944.	1121.	9.26	0.0340	0.	43.	0.27
MILE	67.20	839.72	200000.	4.83	41385.	2424.	8.80	0.0340	0.	49.	0.21
MILE	65.10	836.51	200000.	6.37	31375.	2998.	9.24	0.0320	0.	50.	0.35
MILE	63.00	834.59	200000.	5.30	37766.	2394.	8.81	0.0400	0.	54.	0.23
MILE	60.90	829.83	200000.	7.21	27722.	1935.	9.31	0.0450	0.	53.	0.34
MILE	58.80	822.60	200000.	7.70	25986.	1374.	8.29	0.0400	0.	50.	0.31
MILE	57.00	820.83	200000.	7.92	25248.	1422.	8.82	0.0200	0.	46.	0.33
MILE	55.00	818.50	200000.	8.99	22242.	1378.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.64	200000.	6.19	32287.	1645.	8.60	0.0200	0.	44.	0.25
MILE	51.00	816.32	200000.	6.44	31049.	2180.	8.19	0.0200	0.	47.	0.30
MILE	48.30	815.52	200000.	4.68	42753.	4382.	9.55	0.0200	0.	47.	0.26
MILE	46.20	814.89	200000.	5.27	37934.	4426.	10.33	0.0200	0.	53.	0.32
MILE	44.10	814.82	200000.	3.24	61703.	2471.	10.64	0.0300	0.	60.	0.11
MILE	43.70	814.01	200000.	7.29	27424.	2316.	11.61	0.0300	0.	61.	0.37
MILE	42.00	813.59	200000.	3.92	51008.	2187.	9.18	0.0300	0.	64.	0.14
MILE	39.10	811.79	200000.	5.77	34658.	2145.	11.01	0.0230	0.	61.	0.25
MILE	37.00	811.73	200000.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE	36.00	811.12	200000.	5.71	35009.	1210.	11.44	0.0280	0.	62.	0.19
MILE	34.60	810.89	200000.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE	33.60	811.01	200000.	1.83	109303.	3045.	11.52	0.0290	0.	68.	0.05
MILE	31.50	810.59	200000.	4.27	46817.	2409.	13.14	0.0250	0.	72.	0.17
MILE	30.10	810.40	200000.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10
MILE	29.00	810.31	200000.	3.78	52896.	1402.	13.60	0.0200	0.	71.	0.11
MILE	27.30	810.18	200000.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE	25.20	810.08	200000.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE	23.10	809.86	200000.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

0DATE 10-10-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 0.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
	INFLOW DEPTH	FROUDE									
MILE	79.80	867.19	200000.	10.21	19581.	865.	9.43	0.0290	0.	48.	0.38
MILE	77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE	75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE	73.50	849.69	200000.	9.54	20955.	1281.	9.58	0.0330	0.	50.	0.42
MILE	71.40	846.43	200000.	6.95	28785.	1141.	9.18	0.0400	0.	49.	0.24
MILE	69.30	841.93	200000.	7.42	26944.	1121.	9.26	0.0340	0.	43.	0.27
MILE	67.20	839.72	200000.	4.83	41385.	2424.	8.80	0.0340	0.	49.	0.21
MILE	65.10	836.51	200000.	6.37	31375.	2998.	9.24	0.0320	0.	50.	0.35

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 252 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 63.00	834.59	200000.	5.30	37766.	2394.	8.81	0.0400	0.	54.	0.23
MILE 60.90	829.83	200000.	7.21	27722.	1935.	9.31	0.0450	0.	53.	0.34
MILE 58.80	822.60	200000.	7.70	25986.	1374.	8.29	0.0400	0.	50.	0.31
MILE 57.00	820.83	200000.	7.92	25248.	1422.	8.82	0.0200	0.	46.	0.33
MILE 55.00	818.50	200000.	8.99	22242.	1378.	8.64	0.0200	0.	45.	0.39
MILE 53.10	817.64	200000.	6.19	32287.	1645.	8.60	0.0200	0.	44.	0.25
MILE 51.00	816.32	200000.	6.44	31049.	2180.	8.19	0.0200	0.	47.	0.30
MILE 48.30	815.52	200000.	4.68	42753.	4382.	9.55	0.0200	0.	47.	0.26
MILE 46.20	814.89	200000.	5.27	37934.	4426.	10.33	0.0200	0.	53.	0.32
MILE 44.10	814.82	200000.	3.24	61703.	2471.	10.64	0.0300	0.	60.	0.11
MILE 43.70	814.01	200000.	7.29	27424.	2316.	11.61	0.0300	0.	61.	0.37
MILE 42.00	813.59	200000.	3.92	51008.	2187.	9.18	0.0300	0.	64.	0.14
MILE 39.10	811.79	200000.	5.77	34658.	2145.	11.01	0.0230	0.	61.	0.25
MILE 37.00	811.73	200000.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE 36.00	811.12	200000.	5.71	35009.	1210.	11.44	0.0280	0.	62.	0.19
MILE 34.60	810.89	200000.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE 33.60	811.01	200000.	1.83	109303.	3045.	11.52	0.0290	0.	68.	0.05
MILE 31.50	810.59	200000.	4.27	46817.	2409.	13.14	0.0250	0.	72.	0.17
MILE 30.10	810.40	200000.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10
MILE 29.00	810.31	200000.	3.78	52896.	1402.	13.60	0.0200	0.	71.	0.11
MILE 27.30	810.18	200000.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE 25.20	810.08	200000.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE 23.10	809.86	200000.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

ODATE 10-10-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	1.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL
INFLOW	DEPTH	FROUDE								
MILE 79.80	867.19	200000.	10.21	19581.	865.	9.43	0.0290	0.	48.	0.38
MILE 77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE 75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE 73.50	849.69	200000.	9.54	20955.	1281.	9.58	0.0330	0.	50.	0.42
MILE 71.40	846.43	200000.	6.95	28785.	1141.	9.18	0.0400	0.	49.	0.24
MILE 69.30	841.93	200000.	7.42	26944.	1121.	9.26	0.0340	0.	43.	0.27
MILE 67.20	839.72	200000.	4.83	41385.	2424.	8.80	0.0340	0.	49.	0.21
MILE 65.10	836.51	200000.	6.37	31375.	2998.	9.24	0.0320	0.	50.	0.35
MILE 63.00	834.59	200000.	5.30	37766.	2394.	8.81	0.0400	0.	54.	0.23
MILE 60.90	829.83	200000.	7.21	27722.	1935.	9.31	0.0450	0.	53.	0.34
MILE 58.80	822.60	200000.	7.70	25986.	1374.	8.29	0.0400	0.	50.	0.31
MILE 57.00	820.83	200000.	7.92	25248.	1422.	8.82	0.0200	0.	46.	0.33
MILE 55.00	818.50	200000.	8.99	22242.	1378.	8.64	0.0200	0.	45.	0.39
MILE 53.10	817.64	200000.	6.19	32287.	1645.	8.60	0.0200	0.	44.	0.25
MILE 51.00	816.32	200000.	6.44	31049.	2180.	8.19	0.0200	0.	47.	0.30
MILE 48.30	815.52	200000.	4.68	42753.	4382.	9.55	0.0200	0.	47.	0.26
MILE 46.20	814.89	200000.	5.27	37934.	4426.	10.33	0.0200	0.	53.	0.32
MILE 44.10	814.82	200000.	3.24	61703.	2471.	10.64	0.0300	0.	60.	0.11
MILE 43.70	814.01	200000.	7.29	27424.	2316.	11.61	0.0300	0.	61.	0.37

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 253 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	42.00	813.59	200000.	3.92	51008.	2187.	9.18	0.0300	0.	64.	0.14
MILE	39.10	811.79	200000.	5.77	34658.	2145.	11.01	0.0230	0.	61.	0.25
MILE	37.00	811.73	200000.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE	36.00	811.12	200000.	5.71	35009.	1210.	11.44	0.0280	0.	62.	0.19
MILE	34.60	810.89	200000.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE	33.60	811.01	200000.	1.83	109303.	3045.	11.52	0.0290	0.	68.	0.05
MILE	31.50	810.59	200000.	4.27	46817.	2409.	13.14	0.0250	0.	72.	0.17
MILE	30.10	810.40	200000.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10
MILE	29.00	810.31	200000.	3.78	52896.	1402.	13.60	0.0200	0.	71.	0.11
MILE	27.30	810.18	200000.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE	25.20	810.08	200000.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE	23.10	809.86	200000.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

0DATE 10-10-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 2.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE	79.80	867.19	200000.	10.21	19581.	865.	9.43	0.0290	0.	48.	0.38
MILE	77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE	75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE	73.50	849.69	200000.	9.54	20955.	1281.	9.58	0.0330	0.	50.	0.42
MILE	71.40	846.43	200000.	6.95	28785.	1141.	9.18	0.0400	0.	49.	0.24
MILE	69.30	841.93	200000.	7.42	26944.	1121.	9.26	0.0340	0.	43.	0.27
MILE	67.20	839.72	200000.	4.83	41385.	2424.	8.80	0.0340	0.	49.	0.21
MILE	65.10	836.51	200000.	6.37	31375.	2998.	9.24	0.0320	0.	50.	0.35
MILE	63.00	834.59	200000.	5.30	37766.	2394.	8.81	0.0400	0.	54.	0.23
MILE	60.90	829.83	200000.	7.21	27722.	1935.	9.31	0.0450	0.	53.	0.34
MILE	58.80	822.60	200000.	7.70	25986.	1374.	8.29	0.0400	0.	50.	0.31
MILE	57.00	820.83	200000.	7.92	25248.	1422.	8.82	0.0200	0.	46.	0.33
MILE	55.00	818.50	200000.	8.99	22242.	1378.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.64	200000.	6.19	32287.	1645.	8.60	0.0200	0.	44.	0.25
MILE	51.00	816.32	200000.	6.44	31049.	2180.	8.19	0.0200	0.	47.	0.30
MILE	48.30	815.52	200000.	4.68	42753.	4382.	9.55	0.0200	0.	47.	0.26
MILE	46.20	814.89	200000.	5.27	37934.	4426.	10.33	0.0200	0.	53.	0.32
MILE	44.10	814.82	200000.	3.24	61703.	2471.	10.64	0.0300	0.	60.	0.11
MILE	43.70	814.01	200000.	7.29	27424.	2316.	11.61	0.0300	0.	61.	0.37
MILE	42.00	813.59	200000.	3.92	51008.	2187.	9.18	0.0300	0.	64.	0.14
MILE	39.10	811.79	200000.	5.77	34658.	2145.	11.01	0.0230	0.	61.	0.25
MILE	37.00	811.73	200000.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE	36.00	811.12	200000.	5.71	35009.	1210.	11.44	0.0280	0.	62.	0.19
MILE	34.60	810.89	200000.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE	33.60	811.01	200000.	1.83	109303.	3045.	11.52	0.0290	0.	68.	0.05
MILE	31.50	810.59	200000.	4.27	46817.	2409.	13.14	0.0250	0.	72.	0.17
MILE	30.10	810.40	200000.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10
MILE	29.00	810.31	200000.	3.78	52896.	1402.	13.60	0.0200	0.	71.	0.11
MILE	27.30	810.18	200000.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE	25.20	810.08	200000.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 254 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 23.10 809.86 200000. 3.70 54064. 1473. 13.98 0.0230 0. 80. 0.11

ODATE 10-10-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 3.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80 867.19 200000. 10.21 19581. 865. 9.43 0.0290 0. 48. 0.38
MILE 77.70 864.87 200000. 8.02 24943. 1044. 10.22 0.0400 0. 54. 0.29
MILE 75.60 858.03 200000. 8.88 22521. 1744. 9.57 0.0400 0. 52. 0.44
MILE 73.50 849.69 200000. 9.54 20955. 1281. 9.58 0.0330 0. 50. 0.42
MILE 71.40 846.43 200000. 6.95 28785. 1141. 9.18 0.0400 0. 49. 0.24
MILE 69.30 841.93 200000. 7.42 26944. 1121. 9.26 0.0340 0. 43. 0.27
MILE 67.20 839.72 200000. 4.83 41385. 2424. 8.80 0.0340 0. 49. 0.21
MILE 65.10 836.51 200000. 6.37 31375. 2998. 9.24 0.0320 0. 50. 0.35
MILE 63.00 834.59 200000. 5.30 37766. 2394. 8.81 0.0400 0. 54. 0.23
MILE 60.90 829.83 200000. 7.21 27722. 1935. 9.31 0.0450 0. 53. 0.34
MILE 58.80 822.60 200000. 7.70 25986. 1374. 8.29 0.0400 0. 50. 0.31
MILE 57.00 820.83 200000. 7.92 25248. 1422. 8.82 0.0200 0. 46. 0.33
MILE 55.00 818.50 200000. 8.99 22242. 1378. 8.64 0.0200 0. 45. 0.39
MILE 53.10 817.64 200000. 6.19 32287. 1645. 8.60 0.0200 0. 44. 0.25
MILE 51.00 816.32 200000. 6.44 31049. 2180. 8.19 0.0200 0. 47. 0.30
MILE 48.30 815.52 200000. 4.68 42753. 4382. 9.55 0.0200 0. 47. 0.26
MILE 46.20 814.89 200000. 5.27 37934. 4426. 10.33 0.0200 0. 53. 0.32
MILE 44.10 814.82 200000. 3.24 61703. 2471. 10.64 0.0300 0. 60. 0.11
MILE 43.70 814.01 200000. 7.29 27424. 2316. 11.61 0.0300 0. 61. 0.37
MILE 42.00 813.59 200000. 3.92 51008. 2187. 9.18 0.0300 0. 64. 0.14
MILE 39.10 811.79 200000. 5.77 34658. 2145. 11.01 0.0230 0. 61. 0.25
MILE 37.00 811.73 200000. 3.22 62112. 1622. 10.86 0.0280 0. 60. 0.09
MILE 36.00 811.12 200000. 5.71 35009. 1210. 11.44 0.0280 0. 62. 0.19
MILE 34.60 810.89 200000. 4.14 48251. 1714. 12.56 0.0280 0. 62. 0.14
MILE 33.60 811.01 200000. 1.83 109303. 3045. 11.52 0.0290 0. 68. 0.05
MILE 31.50 810.59 200000. 4.27 46817. 2409. 13.14 0.0250 0. 72. 0.17
MILE 30.10 810.40 200000. 3.92 51077. 1091. 12.45 0.0200 0. 70. 0.10
MILE 29.00 810.31 200000. 3.78 52896. 1402. 13.60 0.0200 0. 71. 0.11
MILE 27.30 810.18 200000. 3.72 53768. 1359. 13.92 0.0230 0. 73. 0.10
MILE 25.20 810.08 200000. 3.12 64144. 1347. 14.73 0.0230 0. 76. 0.08
MILE 23.10 809.86 200000. 3.70 54064. 1473. 13.98 0.0230 0. 80. 0.11

ODATE 10-10-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 4.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80 867.19 200000. 10.21 19581. 865. 9.43 0.0290 0. 48. 0.38

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 255 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE	75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE	73.50	849.69	200000.	9.54	20955.	1281.	9.58	0.0330	0.	50.	0.42
MILE	71.40	846.43	200000.	6.95	28785.	1141.	9.18	0.0400	0.	49.	0.24
MILE	69.30	841.93	200000.	7.42	26944.	1121.	9.26	0.0340	0.	43.	0.27
MILE	67.20	839.72	200000.	4.83	41385.	2424.	8.80	0.0340	0.	49.	0.21
MILE	65.10	836.51	200000.	6.37	31375.	2998.	9.24	0.0320	0.	50.	0.35
MILE	63.00	834.59	200000.	5.30	37766.	2394.	8.81	0.0400	0.	54.	0.23
MILE	60.90	829.83	200000.	7.21	27722.	1935.	9.31	0.0450	0.	53.	0.34
MILE	58.80	822.60	200000.	7.70	25986.	1374.	8.29	0.0400	0.	50.	0.31
MILE	57.00	820.83	200000.	7.92	25248.	1422.	8.82	0.0200	0.	46.	0.33
MILE	55.00	818.50	200000.	8.99	22242.	1378.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.64	200000.	6.19	32287.	1645.	8.60	0.0200	0.	44.	0.25
MILE	51.00	816.32	200000.	6.44	31049.	2180.	8.19	0.0200	0.	47.	0.30
MILE	48.30	815.52	200000.	4.68	42753.	4382.	9.55	0.0200	0.	47.	0.26
MILE	46.20	814.89	200000.	5.27	37934.	4426.	10.33	0.0200	0.	53.	0.32
MILE	44.10	814.82	200000.	3.24	61703.	2471.	10.64	0.0300	0.	60.	0.11
MILE	43.70	814.01	200000.	7.29	27424.	2316.	11.61	0.0300	0.	61.	0.37
MILE	42.00	813.59	200000.	3.92	51008.	2187.	9.18	0.0300	0.	64.	0.14
MILE	39.10	811.79	200000.	5.77	34658.	2145.	11.01	0.0230	0.	61.	0.25
MILE	37.00	811.73	200000.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE	36.00	811.12	200000.	5.71	35009.	1210.	11.44	0.0280	0.	62.	0.19
MILE	34.60	810.89	200000.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE	33.60	811.01	200000.	1.83	109303.	3045.	11.52	0.0290	0.	68.	0.05
MILE	31.50	810.59	200000.	4.27	46817.	2409.	13.14	0.0250	0.	72.	0.17
MILE	30.10	810.40	200000.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10
MILE	29.00	810.31	200000.	3.78	52896.	1402.	13.60	0.0200	0.	71.	0.11
MILE	27.30	810.18	200000.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE	25.20	810.08	200000.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE	23.10	809.86	200000.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

ODATE 10-10-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 5.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	867.19	200000.	10.21	19581.	865.	9.43	0.0290	0.	48.	0.38
MILE	77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE	75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE	73.50	849.69	200000.	9.54	20955.	1281.	9.58	0.0330	0.	50.	0.42
MILE	71.40	846.43	200000.	6.95	28785.	1141.	9.18	0.0400	0.	49.	0.24
MILE	69.30	841.93	200000.	7.42	26944.	1121.	9.26	0.0340	0.	43.	0.27
MILE	67.20	839.72	200000.	4.83	41385.	2424.	8.80	0.0340	0.	49.	0.21
MILE	65.10	836.51	200000.	6.37	31375.	2998.	9.24	0.0320	0.	50.	0.35
MILE	63.00	834.59	200000.	5.30	37766.	2394.	8.81	0.0400	0.	54.	0.23
MILE	60.90	829.83	200000.	7.21	27722.	1935.	9.31	0.0450	0.	53.	0.34
MILE	58.80	822.60	200000.	7.70	25986.	1374.	8.29	0.0400	0.	50.	0.31
MILE	57.00	820.83	200000.	7.92	25248.	1422.	8.82	0.0200	0.	46.	0.33

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 256 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 55.00	818.50	200000.	8.99	22242.	1378.	8.64	0.0200	0.	45.	0.39
MILE 53.10	817.64	200000.	6.19	32287.	1645.	8.60	0.0200	0.	44.	0.25
MILE 51.00	816.32	200000.	6.44	31049.	2180.	8.19	0.0200	0.	47.	0.30
MILE 48.30	815.52	200000.	4.68	42753.	4382.	9.55	0.0200	0.	47.	0.26
MILE 46.20	814.89	200000.	5.27	37934.	4426.	10.33	0.0200	0.	53.	0.32
MILE 44.10	814.82	200000.	3.24	61703.	2471.	10.64	0.0300	0.	60.	0.11
MILE 43.70	814.01	200000.	7.29	27424.	2316.	11.61	0.0300	0.	61.	0.37
MILE 42.00	813.59	200000.	3.92	51008.	2187.	9.18	0.0300	0.	64.	0.14
MILE 39.10	811.79	200000.	5.77	34658.	2145.	11.01	0.0230	0.	61.	0.25
MILE 37.00	811.73	200000.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE 36.00	811.12	200000.	5.71	35009.	1210.	11.44	0.0280	0.	62.	0.19
MILE 34.60	810.89	200000.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE 33.60	811.01	200000.	1.83	109303.	3045.	11.52	0.0290	0.	68.	0.05
MILE 31.50	810.59	200000.	4.27	46817.	2409.	13.14	0.0250	0.	72.	0.17
MILE 30.10	810.40	200000.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10
MILE 29.00	810.31	200000.	3.78	52896.	1402.	13.60	0.0200	0.	71.	0.11
MILE 27.30	810.18	200000.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE 25.20	810.08	200000.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE 23.10	809.86	200000.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

0DATE 10-10-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	6.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL	
INFLOW	DEPTH	FROUDE								
MILE 79.80	867.19	200000.	10.21	19581.	865.	9.43	0.0290	0.	48.	0.38
MILE 77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE 75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE 73.50	849.69	200000.	9.54	20955.	1281.	9.58	0.0330	0.	50.	0.42
MILE 71.40	846.43	200000.	6.95	28785.	1141.	9.18	0.0400	0.	49.	0.24
MILE 69.30	841.93	200000.	7.42	26944.	1121.	9.26	0.0340	0.	43.	0.27
MILE 67.20	839.72	200000.	4.83	41385.	2424.	8.80	0.0340	0.	49.	0.21
MILE 65.10	836.51	200000.	6.37	31375.	2998.	9.24	0.0320	0.	50.	0.35
MILE 63.00	834.59	200000.	5.30	37766.	2394.	8.81	0.0400	0.	54.	0.23
MILE 60.90	829.83	200000.	7.21	27722.	1935.	9.31	0.0450	0.	53.	0.34
MILE 58.80	822.60	200000.	7.70	25986.	1374.	8.29	0.0400	0.	50.	0.31
MILE 57.00	820.83	200000.	7.92	25248.	1422.	8.82	0.0200	0.	46.	0.33
MILE 55.00	818.50	200000.	8.99	22242.	1378.	8.64	0.0200	0.	45.	0.39
MILE 53.10	817.64	200000.	6.19	32287.	1645.	8.60	0.0200	0.	44.	0.25
MILE 51.00	816.32	200000.	6.44	31049.	2180.	8.19	0.0200	0.	47.	0.30
MILE 48.30	815.52	200000.	4.68	42753.	4382.	9.55	0.0200	0.	47.	0.26
MILE 46.20	814.89	200000.	5.27	37934.	4426.	10.33	0.0200	0.	53.	0.32
MILE 44.10	814.82	200000.	3.24	61703.	2471.	10.64	0.0300	0.	60.	0.11
MILE 43.70	814.01	200000.	7.29	27424.	2316.	11.61	0.0300	0.	61.	0.37
MILE 42.00	813.59	200000.	3.92	51008.	2187.	9.18	0.0300	0.	64.	0.14
MILE 39.10	811.79	200000.	5.77	34658.	2145.	11.01	0.0230	0.	61.	0.25
MILE 37.00	811.73	200000.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE 36.00	811.12	200000.	5.71	35009.	1210.	11.44	0.0280	0.	62.	0.19

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 257 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	34.60	810.89	200000.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE	33.60	811.01	200000.	1.83	109303.	3045.	11.52	0.0290	0.	68.	0.05
MILE	31.50	810.59	200000.	4.27	46817.	2409.	13.14	0.0250	0.	72.	0.17
MILE	30.10	810.40	200000.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10
MILE	29.00	810.31	200000.	3.78	52896.	1402.	13.60	0.0200	0.	71.	0.11
MILE	27.30	810.18	200000.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE	25.20	810.08	200000.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE	23.10	809.86	200000.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

0DATE 10-10-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	7.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL	
INFLOW	DEPTH	FROUDE									
MILE	79.80	867.19	200000.	10.21	19581.	865.	9.43	0.0290	0.	48.	0.38
MILE	77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE	75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE	73.50	849.69	200000.	9.54	20955.	1281.	9.58	0.0330	0.	50.	0.42
MILE	71.40	846.43	200000.	6.95	28785.	1141.	9.18	0.0400	0.	49.	0.24
MILE	69.30	841.93	200000.	7.42	26944.	1121.	9.26	0.0340	0.	43.	0.27
MILE	67.20	839.72	200000.	4.83	41385.	2424.	8.80	0.0340	0.	49.	0.21
MILE	65.10	836.51	200000.	6.37	31375.	2998.	9.24	0.0320	0.	50.	0.35
MILE	63.00	834.59	200000.	5.30	37766.	2394.	8.81	0.0400	0.	54.	0.23
MILE	60.90	829.83	200000.	7.21	27722.	1935.	9.31	0.0450	0.	53.	0.34
MILE	58.80	822.60	200000.	7.70	25986.	1374.	8.29	0.0400	0.	50.	0.31
MILE	57.00	820.83	200000.	7.92	25248.	1422.	8.82	0.0200	0.	46.	0.33
MILE	55.00	818.50	200000.	8.99	22242.	1378.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.64	200000.	6.19	32287.	1645.	8.60	0.0200	0.	44.	0.25
MILE	51.00	816.32	200000.	6.44	31049.	2180.	8.19	0.0200	0.	47.	0.30
MILE	48.30	815.52	200000.	4.68	42753.	4382.	9.55	0.0200	0.	47.	0.26
MILE	46.20	814.89	200000.	5.27	37934.	4426.	10.33	0.0200	0.	53.	0.32
MILE	44.10	814.82	200000.	3.24	61703.	2471.	10.64	0.0300	0.	60.	0.11
MILE	43.70	814.01	200000.	7.29	27424.	2316.	11.61	0.0300	0.	61.	0.37
MILE	42.00	813.59	200000.	3.92	51008.	2187.	9.18	0.0300	0.	64.	0.14
MILE	39.10	811.79	200000.	5.77	34658.	2145.	11.01	0.0230	0.	61.	0.25
MILE	37.00	811.73	200000.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE	36.00	811.12	200000.	5.71	35009.	1210.	11.44	0.0280	0.	62.	0.19
MILE	34.60	810.89	200000.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE	33.60	811.01	200000.	1.83	109303.	3045.	11.52	0.0290	0.	68.	0.05
MILE	31.50	810.59	200000.	4.27	46817.	2409.	13.14	0.0250	0.	72.	0.17
MILE	30.10	810.40	200000.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10
MILE	29.00	810.31	200000.	3.78	52896.	1402.	13.60	0.0200	0.	71.	0.11
MILE	27.30	810.18	200000.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE	25.20	810.08	200000.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE	23.10	809.86	200000.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 258 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

0DATE 10-10-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 8.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL
	INFLOW DEPTH	FROUDE							
MILE 79.80	867.19	200000.	10.21	19581.	865.	9.43	0.0290	0.	48. 0.38
MILE 77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54. 0.29
MILE 75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52. 0.44
MILE 73.50	849.69	200000.	9.54	20955.	1281.	9.58	0.0330	0.	50. 0.42
MILE 71.40	846.43	200000.	6.95	28785.	1141.	9.18	0.0400	0.	49. 0.24
MILE 69.30	841.93	200000.	7.42	26944.	1121.	9.26	0.0340	0.	43. 0.27
MILE 67.20	839.72	200000.	4.83	41385.	2424.	8.80	0.0340	0.	49. 0.21
MILE 65.10	836.51	200000.	6.37	31375.	2998.	9.24	0.0320	0.	50. 0.35
MILE 63.00	834.59	200000.	5.30	37766.	2394.	8.81	0.0400	0.	54. 0.23
MILE 60.90	829.83	200000.	7.21	27722.	1935.	9.31	0.0450	0.	53. 0.34
MILE 58.80	822.60	200000.	7.70	25986.	1374.	8.29	0.0400	0.	50. 0.31
MILE 57.00	820.83	200000.	7.92	25248.	1422.	8.82	0.0200	0.	46. 0.33
MILE 55.00	818.50	200000.	8.99	22242.	1378.	8.64	0.0200	0.	45. 0.39
MILE 53.10	817.64	200000.	6.19	32287.	1645.	8.60	0.0200	0.	44. 0.25
MILE 51.00	816.32	200000.	6.44	31049.	2180.	8.19	0.0200	0.	47. 0.30
MILE 48.30	815.52	200000.	4.68	42753.	4382.	9.55	0.0200	0.	47. 0.26
MILE 46.20	814.89	200000.	5.27	37934.	4426.	10.33	0.0200	0.	53. 0.32
MILE 44.10	814.82	200000.	3.24	61703.	2471.	10.64	0.0300	0.	60. 0.11
MILE 43.70	814.01	200000.	7.29	27424.	2316.	11.61	0.0300	0.	61. 0.37
MILE 42.00	813.59	200000.	3.92	51008.	2187.	9.18	0.0300	0.	64. 0.14
MILE 39.10	811.79	200000.	5.77	34658.	2145.	11.01	0.0230	0.	61. 0.25
MILE 37.00	811.73	200000.	3.22	62112.	1622.	10.86	0.0280	0.	60. 0.09
MILE 36.00	811.12	200000.	5.71	35009.	1210.	11.44	0.0280	0.	62. 0.19
MILE 34.60	810.89	200000.	4.14	48251.	1714.	12.56	0.0280	0.	62. 0.14
MILE 33.60	811.01	200000.	1.83	109303.	3045.	11.52	0.0290	0.	68. 0.05
MILE 31.50	810.59	200000.	4.27	46817.	2409.	13.14	0.0250	0.	72. 0.17
MILE 30.10	810.40	200000.	3.92	51077.	1091.	12.45	0.0200	0.	70. 0.10
MILE 29.00	810.31	200000.	3.78	52896.	1402.	13.60	0.0200	0.	71. 0.11
MILE 27.30	810.18	200000.	3.72	53768.	1359.	13.92	0.0230	0.	73. 0.10
MILE 25.20	810.08	200000.	3.12	64144.	1347.	14.73	0.0230	0.	76. 0.08
MILE 23.10	809.86	200000.	3.70	54064.	1473.	13.98	0.0230	0.	80. 0.11

0DATE 10-10-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 9.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL
	INFLOW DEPTH	FROUDE							
MILE 79.80	867.19	200000.	10.21	19581.	865.	9.43	0.0290	0.	48. 0.38
MILE 77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54. 0.29
MILE 75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52. 0.44
MILE 73.50	849.69	200000.	9.54	20955.	1281.	9.58	0.0330	0.	50. 0.42
MILE 71.40	846.43	200000.	6.95	28785.	1141.	9.18	0.0400	0.	49. 0.24

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 259 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	69.30	841.93	200000.	7.42	26944.	1121.	9.26	0.0340	0.	43.	0.27
MILE	67.20	839.72	200000.	4.83	41385.	2424.	8.80	0.0340	0.	49.	0.21
MILE	65.10	836.51	200000.	6.37	31375.	2998.	9.24	0.0320	0.	50.	0.35
MILE	63.00	834.59	200000.	5.30	37766.	2394.	8.81	0.0400	0.	54.	0.23
MILE	60.90	829.83	200000.	7.21	27722.	1935.	9.31	0.0450	0.	53.	0.34
MILE	58.80	822.60	200000.	7.70	25986.	1374.	8.29	0.0400	0.	50.	0.31
MILE	57.00	820.83	200000.	7.92	25248.	1422.	8.82	0.0200	0.	46.	0.33
MILE	55.00	818.50	200000.	8.99	22242.	1378.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.64	200000.	6.19	32287.	1645.	8.60	0.0200	0.	44.	0.25
MILE	51.00	816.32	200000.	6.44	31049.	2180.	8.19	0.0200	0.	47.	0.30
MILE	48.30	815.52	200000.	4.68	42753.	4382.	9.55	0.0200	0.	47.	0.26
MILE	46.20	814.89	200000.	5.27	37934.	4426.	10.33	0.0200	0.	53.	0.32
MILE	44.10	814.82	200000.	3.24	61703.	2471.	10.64	0.0300	0.	60.	0.11
MILE	43.70	814.01	200000.	7.29	27424.	2316.	11.61	0.0300	0.	61.	0.37
MILE	42.00	813.59	200000.	3.92	51008.	2187.	9.18	0.0300	0.	64.	0.14
MILE	39.10	811.79	200000.	5.77	34658.	2145.	11.01	0.0230	0.	61.	0.25
MILE	37.00	811.73	200000.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE	36.00	811.12	200000.	5.71	35009.	1210.	11.44	0.0280	0.	62.	0.19
MILE	34.60	810.89	200000.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE	33.60	811.01	200000.	1.83	109303.	3045.	11.52	0.0290	0.	68.	0.05
MILE	31.50	810.59	200000.	4.27	46817.	2409.	13.14	0.0250	0.	72.	0.17
MILE	30.10	810.40	200000.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10
MILE	29.00	810.31	200000.	3.78	52896.	1402.	13.60	0.0200	0.	71.	0.11
MILE	27.30	810.18	200000.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE	25.20	810.08	200000.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE	23.10	809.86	200000.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

0DATE 10-10-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 10.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE	79.80	867.19	200000.	10.21	19581.	865.	9.43	0.0290	0.	48.	0.38
MILE	77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE	75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE	73.50	849.69	200000.	9.54	20955.	1281.	9.58	0.0330	0.	50.	0.42
MILE	71.40	846.43	200000.	6.95	28785.	1141.	9.18	0.0400	0.	49.	0.24
MILE	69.30	841.93	200000.	7.42	26944.	1121.	9.26	0.0340	0.	43.	0.27
MILE	67.20	839.72	200000.	4.83	41385.	2424.	8.80	0.0340	0.	49.	0.21
MILE	65.10	836.51	200000.	6.37	31375.	2998.	9.24	0.0320	0.	50.	0.35
MILE	63.00	834.59	200000.	5.30	37766.	2394.	8.81	0.0400	0.	54.	0.23
MILE	60.90	829.83	200000.	7.21	27722.	1935.	9.31	0.0450	0.	53.	0.34
MILE	58.80	822.60	200000.	7.70	25986.	1374.	8.29	0.0400	0.	50.	0.31
MILE	57.00	820.83	200000.	7.92	25248.	1422.	8.82	0.0200	0.	46.	0.33
MILE	55.00	818.50	200000.	8.99	22242.	1378.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.64	200000.	6.19	32287.	1645.	8.60	0.0200	0.	44.	0.25
MILE	51.00	816.32	200000.	6.44	31049.	2180.	8.19	0.0200	0.	47.	0.30
MILE	48.30	815.52	200000.	4.68	42753.	4382.	9.55	0.0200	0.	47.	0.26

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 260 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	46.20	814.89	200000.	5.27	37934.	4426.	10.33	0.0200	0.	53.	0.32
MILE	44.10	814.82	200000.	3.24	61703.	2471.	10.64	0.0300	0.	60.	0.11
MILE	43.70	814.01	200000.	7.29	27424.	2316.	11.61	0.0300	0.	61.	0.37
MILE	42.00	813.59	200000.	3.92	51008.	2187.	9.18	0.0300	0.	64.	0.14
MILE	39.10	811.79	200000.	5.77	34658.	2145.	11.01	0.0230	0.	61.	0.25
MILE	37.00	811.73	200000.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE	36.00	811.12	200000.	5.71	35009.	1210.	11.44	0.0280	0.	62.	0.19
MILE	34.60	810.89	200000.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE	33.60	811.01	200000.	1.83	109303.	3045.	11.52	0.0290	0.	68.	0.05
MILE	31.50	810.59	200000.	4.27	46817.	2409.	13.14	0.0250	0.	72.	0.17
MILE	30.10	810.40	200000.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10
MILE	29.00	810.31	200000.	3.78	52896.	1402.	13.60	0.0200	0.	71.	0.11
MILE	27.30	810.18	200000.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE	25.20	810.08	200000.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE	23.10	809.86	200000.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

ODATE 10-10-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 11.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	867.19	200000.	10.21	19581.	865.	9.43	0.0290	0.	48.	0.38
MILE	77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE	75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE	73.50	849.69	200000.	9.54	20955.	1281.	9.58	0.0330	0.	50.	0.42
MILE	71.40	846.43	200000.	6.95	28785.	1141.	9.18	0.0400	0.	49.	0.24
MILE	69.30	841.93	200000.	7.42	26944.	1121.	9.26	0.0340	0.	43.	0.27
MILE	67.20	839.72	200000.	4.83	41385.	2424.	8.80	0.0340	0.	49.	0.21
MILE	65.10	836.51	200000.	6.37	31375.	2998.	9.24	0.0320	0.	50.	0.35
MILE	63.00	834.59	200000.	5.30	37766.	2394.	8.81	0.0400	0.	54.	0.23
MILE	60.90	829.83	200000.	7.21	27722.	1935.	9.31	0.0450	0.	53.	0.34
MILE	58.80	822.60	200000.	7.70	25986.	1374.	8.29	0.0400	0.	50.	0.31
MILE	57.00	820.83	200000.	7.92	25248.	1422.	8.82	0.0200	0.	46.	0.33
MILE	55.00	818.50	200000.	8.99	22242.	1378.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.64	200000.	6.19	32287.	1645.	8.60	0.0200	0.	44.	0.25
MILE	51.00	816.32	200000.	6.44	31049.	2180.	8.19	0.0200	0.	47.	0.30
MILE	48.30	815.52	200000.	4.68	42753.	4382.	9.55	0.0200	0.	47.	0.26
MILE	46.20	814.89	200000.	5.27	37934.	4426.	10.33	0.0200	0.	53.	0.32
MILE	44.10	814.82	200000.	3.24	61703.	2471.	10.64	0.0300	0.	60.	0.11
MILE	43.70	814.01	200000.	7.29	27424.	2316.	11.61	0.0300	0.	61.	0.37
MILE	42.00	813.59	200000.	3.92	51008.	2187.	9.18	0.0300	0.	64.	0.14
MILE	39.10	811.79	200000.	5.77	34658.	2145.	11.01	0.0230	0.	61.	0.25
MILE	37.00	811.73	200000.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE	36.00	811.12	200000.	5.71	35009.	1210.	11.44	0.0280	0.	62.	0.19
MILE	34.60	810.89	200000.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE	33.60	811.01	200000.	1.83	109303.	3045.	11.52	0.0290	0.	68.	0.05
MILE	31.50	810.59	200000.	4.27	46817.	2409.	13.14	0.0250	0.	72.	0.17
MILE	30.10	810.40	200000.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 261 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	29.00	810.31	200000.	3.78	52896.	1402.	13.60	0.0200	0.	71.	0.11
MILE	27.30	810.18	200000.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE	25.20	810.08	200000.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE	23.10	809.86	200000.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

0DATE 10-10-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 12.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	867.19	200000.	10.21	19581.	865.	9.43	0.0290	0.	48.	0.38
MILE	77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE	75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE	73.50	849.69	200000.	9.54	20955.	1281.	9.58	0.0330	0.	50.	0.42
MILE	71.40	846.43	200000.	6.95	28785.	1141.	9.18	0.0400	0.	49.	0.24
MILE	69.30	841.93	200000.	7.42	26944.	1121.	9.26	0.0340	0.	43.	0.27
MILE	67.20	839.72	200000.	4.83	41385.	2424.	8.80	0.0340	0.	49.	0.21
MILE	65.10	836.51	200000.	6.37	31375.	2998.	9.24	0.0320	0.	50.	0.35
MILE	63.00	834.59	200000.	5.30	37766.	2394.	8.81	0.0400	0.	54.	0.23
MILE	60.90	829.83	200000.	7.21	27722.	1935.	9.31	0.0450	0.	53.	0.34
MILE	58.80	822.60	200000.	7.70	25986.	1374.	8.29	0.0400	0.	50.	0.31
MILE	57.00	820.83	200000.	7.92	25248.	1422.	8.82	0.0200	0.	46.	0.33
MILE	55.00	818.50	200000.	8.99	22242.	1378.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.64	200000.	6.19	32287.	1645.	8.60	0.0200	0.	44.	0.25
MILE	51.00	816.32	200000.	6.44	31049.	2180.	8.19	0.0200	0.	47.	0.30
MILE	48.30	815.52	200000.	4.68	42753.	4382.	9.55	0.0200	0.	47.	0.26
MILE	46.20	814.89	200000.	5.27	37934.	4426.	10.33	0.0200	0.	53.	0.32
MILE	44.10	814.82	200000.	3.24	61703.	2471.	10.64	0.0300	0.	60.	0.11
MILE	43.70	814.01	200000.	7.29	27424.	2316.	11.61	0.0300	0.	61.	0.37
MILE	42.00	813.59	200000.	3.92	51008.	2187.	9.18	0.0300	0.	64.	0.14
MILE	39.10	811.79	200000.	5.77	34658.	2145.	11.01	0.0230	0.	61.	0.25
MILE	37.00	811.73	200000.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE	36.00	811.12	200000.	5.71	35009.	1210.	11.44	0.0280	0.	62.	0.19
MILE	34.60	810.89	200000.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE	33.60	811.01	200000.	1.83	109303.	3045.	11.52	0.0290	0.	68.	0.05
MILE	31.50	810.59	200000.	4.27	46817.	2409.	13.14	0.0250	0.	72.	0.17
MILE	30.10	810.40	200000.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10
MILE	29.00	810.31	200000.	3.78	52896.	1402.	13.60	0.0200	0.	71.	0.11
MILE	27.30	810.18	200000.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE	25.20	810.08	200000.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE	23.10	809.86	200000.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

0DATE 10-10-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 262 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

	TIME 13.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
	INFLOW DEPTH	FROUDE									
MILE	79.80	867.19	200000.	10.21	19581.	865.	9.43	0.0290	0.	48.	0.38
MILE	77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE	75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE	73.50	849.69	200000.	9.54	20955.	1281.	9.58	0.0330	0.	50.	0.42
MILE	71.40	846.43	200000.	6.95	28785.	1141.	9.18	0.0400	0.	49.	0.24
MILE	69.30	841.93	200000.	7.42	26944.	1121.	9.26	0.0340	0.	43.	0.27
MILE	67.20	839.72	200000.	4.83	41385.	2424.	8.80	0.0340	0.	49.	0.21
MILE	65.10	836.51	200000.	6.37	31375.	2998.	9.24	0.0320	0.	50.	0.35
MILE	63.00	834.59	200000.	5.30	37766.	2394.	8.81	0.0400	0.	54.	0.23
MILE	60.90	829.83	200000.	7.21	27722.	1935.	9.31	0.0450	0.	53.	0.34
MILE	58.80	822.60	200000.	7.70	25986.	1374.	8.29	0.0400	0.	50.	0.31
MILE	57.00	820.83	200000.	7.92	25248.	1422.	8.82	0.0200	0.	46.	0.33
MILE	55.00	818.50	200000.	8.99	22242.	1378.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.64	200000.	6.19	32287.	1645.	8.60	0.0200	0.	44.	0.25
MILE	51.00	816.32	200000.	6.44	31049.	2180.	8.19	0.0200	0.	47.	0.30
MILE	48.30	815.52	200000.	4.68	42753.	4382.	9.55	0.0200	0.	47.	0.26
MILE	46.20	814.89	200000.	5.27	37934.	4426.	10.33	0.0200	0.	53.	0.32
MILE	44.10	814.82	200000.	3.24	61703.	2471.	10.64	0.0300	0.	60.	0.11
MILE	43.70	814.01	200000.	7.29	27424.	2316.	11.61	0.0300	0.	61.	0.37
MILE	42.00	813.59	200000.	3.92	51008.	2187.	9.18	0.0300	0.	64.	0.14
MILE	39.10	811.79	200000.	5.77	34658.	2145.	11.01	0.0230	0.	61.	0.25
MILE	37.00	811.73	200000.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE	36.00	811.12	200000.	5.71	35009.	1210.	11.44	0.0280	0.	62.	0.19
MILE	34.60	810.89	200000.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE	33.60	811.01	200000.	1.83	109303.	3045.	11.52	0.0290	0.	68.	0.05
MILE	31.50	810.59	200000.	4.27	46817.	2409.	13.14	0.0250	0.	72.	0.17
MILE	30.10	810.40	200000.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10
MILE	29.00	810.31	200000.	3.78	52896.	1402.	13.60	0.0200	0.	71.	0.11
MILE	27.30	810.18	200000.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE	25.20	810.08	200000.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE	23.10	809.86	200000.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

0DATE 10-10-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 14.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
	INFLOW DEPTH	FROUDE									
MILE	79.80	867.19	200000.	10.21	19581.	865.	9.43	0.0290	0.	48.	0.38
MILE	77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE	75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE	73.50	849.69	200000.	9.54	20955.	1281.	9.58	0.0330	0.	50.	0.42
MILE	71.40	846.43	200000.	6.95	28785.	1141.	9.18	0.0400	0.	49.	0.24
MILE	69.30	841.93	200000.	7.42	26944.	1121.	9.26	0.0340	0.	43.	0.27
MILE	67.20	839.72	200000.	4.83	41385.	2424.	8.80	0.0340	0.	49.	0.21
MILE	65.10	836.51	200000.	6.37	31375.	2998.	9.24	0.0320	0.	50.	0.35

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 263 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 63.00	834.59	200000.	5.30	37766.	2394.	8.81	0.0400	0.	54.	0.23
MILE 60.90	829.83	200000.	7.21	27722.	1935.	9.31	0.0450	0.	53.	0.34
MILE 58.80	822.60	200000.	7.70	25986.	1374.	8.29	0.0400	0.	50.	0.31
MILE 57.00	820.83	200000.	7.92	25248.	1422.	8.82	0.0200	0.	46.	0.33
MILE 55.00	818.50	200000.	8.99	22242.	1378.	8.64	0.0200	0.	45.	0.39
MILE 53.10	817.64	200000.	6.19	32287.	1645.	8.60	0.0200	0.	44.	0.25
MILE 51.00	816.32	200000.	6.44	31049.	2180.	8.19	0.0200	0.	47.	0.30
MILE 48.30	815.52	200000.	4.68	42753.	4382.	9.55	0.0200	0.	47.	0.26
MILE 46.20	814.89	200000.	5.27	37934.	4426.	10.33	0.0200	0.	53.	0.32
MILE 44.10	814.82	200000.	3.24	61703.	2471.	10.64	0.0300	0.	60.	0.11
MILE 43.70	814.01	200000.	7.29	27424.	2316.	11.61	0.0300	0.	61.	0.37
MILE 42.00	813.59	200000.	3.92	51008.	2187.	9.18	0.0300	0.	64.	0.14
MILE 39.10	811.79	200000.	5.77	34658.	2145.	11.01	0.0230	0.	61.	0.25
MILE 37.00	811.73	200000.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE 36.00	811.12	200000.	5.71	35009.	1210.	11.44	0.0280	0.	62.	0.19
MILE 34.60	810.89	200000.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE 33.60	811.01	200000.	1.83	109303.	3045.	11.52	0.0290	0.	68.	0.05
MILE 31.50	810.59	200000.	4.27	46817.	2409.	13.14	0.0250	0.	72.	0.17
MILE 30.10	810.40	200000.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10
MILE 29.00	810.31	200000.	3.78	52896.	1402.	13.60	0.0200	0.	71.	0.11
MILE 27.30	810.18	200000.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE 25.20	810.08	200000.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE 23.10	809.86	200000.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

ODATE 10-10-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 15.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	867.19	200000.	10.21	19581.	865.	9.43	0.0290	0.	48.	0.38
MILE 77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE 75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE 73.50	849.69	200000.	9.54	20955.	1281.	9.58	0.0330	0.	50.	0.42
MILE 71.40	846.43	200000.	6.95	28785.	1141.	9.18	0.0400	0.	49.	0.24
MILE 69.30	841.93	200000.	7.42	26944.	1121.	9.26	0.0340	0.	43.	0.27
MILE 67.20	839.72	200000.	4.83	41385.	2424.	8.80	0.0340	0.	49.	0.21
MILE 65.10	836.51	200000.	6.37	31375.	2998.	9.24	0.0320	0.	50.	0.35
MILE 63.00	834.59	200000.	5.30	37766.	2394.	8.81	0.0400	0.	54.	0.23
MILE 60.90	829.83	200000.	7.21	27722.	1935.	9.31	0.0450	0.	53.	0.34
MILE 58.80	822.60	200000.	7.70	25986.	1374.	8.29	0.0400	0.	50.	0.31
MILE 57.00	820.83	200000.	7.92	25248.	1422.	8.82	0.0200	0.	46.	0.33
MILE 55.00	818.50	200000.	8.99	22242.	1378.	8.64	0.0200	0.	45.	0.39
MILE 53.10	817.64	200000.	6.19	32287.	1645.	8.60	0.0200	0.	44.	0.25
MILE 51.00	816.32	200000.	6.44	31049.	2180.	8.19	0.0200	0.	47.	0.30
MILE 48.30	815.52	200000.	4.68	42753.	4382.	9.55	0.0200	0.	47.	0.26
MILE 46.20	814.89	200000.	5.27	37934.	4426.	10.33	0.0200	0.	53.	0.32
MILE 44.10	814.82	200000.	3.24	61703.	2471.	10.64	0.0300	0.	60.	0.11
MILE 43.70	814.01	200000.	7.29	27424.	2316.	11.61	0.0300	0.	61.	0.37

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 264 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 42.00	813.59	200000.	3.92	51008.	2187.	9.18	0.0300	0.	64.	0.14
MILE 39.10	811.79	200000.	5.77	34658.	2145.	11.01	0.0230	0.	61.	0.25
MILE 37.00	811.73	200000.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE 36.00	811.12	200000.	5.71	35009.	1210.	11.44	0.0280	0.	62.	0.19
MILE 34.60	810.89	200000.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE 33.60	811.01	200000.	1.83	109303.	3045.	11.52	0.0290	0.	68.	0.05
MILE 31.50	810.59	200000.	4.27	46817.	2409.	13.14	0.0250	0.	72.	0.17
MILE 30.10	810.40	200000.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10
MILE 29.00	810.31	200000.	3.78	52896.	1402.	13.60	0.0200	0.	71.	0.11
MILE 27.30	810.18	200000.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE 25.20	810.08	200000.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE 23.10	809.86	200000.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

0DATE 10-10-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 16.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	867.19	200000.	10.21	19581.	865.	9.43	0.0290	0.	48.	0.38
MILE 77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE 75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE 73.50	849.69	200000.	9.54	20955.	1281.	9.58	0.0330	0.	50.	0.42
MILE 71.40	846.43	200000.	6.95	28785.	1141.	9.18	0.0400	0.	49.	0.24
MILE 69.30	841.93	200000.	7.42	26944.	1121.	9.26	0.0340	0.	43.	0.27
MILE 67.20	839.72	200000.	4.83	41385.	2424.	8.80	0.0340	0.	49.	0.21
MILE 65.10	836.51	200000.	6.37	31375.	2998.	9.24	0.0320	0.	50.	0.35
MILE 63.00	834.59	200000.	5.30	37766.	2394.	8.81	0.0400	0.	54.	0.23
MILE 60.90	829.83	200000.	7.21	27722.	1935.	9.31	0.0450	0.	53.	0.34
MILE 58.80	822.60	200000.	7.70	25986.	1374.	8.29	0.0400	0.	50.	0.31
MILE 57.00	820.83	200000.	7.92	25248.	1422.	8.82	0.0200	0.	46.	0.33
MILE 55.00	818.50	200000.	8.99	22242.	1378.	8.64	0.0200	0.	45.	0.39
MILE 53.10	817.64	200000.	6.19	32287.	1645.	8.60	0.0200	0.	44.	0.25
MILE 51.00	816.32	200000.	6.44	31049.	2180.	8.19	0.0200	0.	47.	0.30
MILE 48.30	815.52	200000.	4.68	42753.	4382.	9.55	0.0200	0.	47.	0.26
MILE 46.20	814.89	200000.	5.27	37934.	4426.	10.33	0.0200	0.	53.	0.32
MILE 44.10	814.82	200000.	3.24	61703.	2471.	10.64	0.0300	0.	60.	0.11
MILE 43.70	814.01	200000.	7.29	27424.	2316.	11.61	0.0300	0.	61.	0.37
MILE 42.00	813.59	200000.	3.92	51008.	2187.	9.18	0.0300	0.	64.	0.14
MILE 39.10	811.79	200000.	5.77	34658.	2145.	11.01	0.0230	0.	61.	0.25
MILE 37.00	811.73	200000.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE 36.00	811.12	200000.	5.71	35009.	1210.	11.44	0.0280	0.	62.	0.19
MILE 34.60	810.89	200000.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE 33.60	811.01	200000.	1.83	109303.	3045.	11.52	0.0290	0.	68.	0.05
MILE 31.50	810.59	200000.	4.27	46817.	2409.	13.14	0.0250	0.	72.	0.17
MILE 30.10	810.40	200000.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10
MILE 29.00	810.31	200000.	3.78	52896.	1402.	13.60	0.0200	0.	71.	0.11
MILE 27.30	810.18	200000.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE 25.20	810.08	200000.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 265 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 23.10 809.86 200000. 3.70 54064. 1473. 13.98 0.0230 0. 80. 0.11

0DATE 10-10-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 17.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80 867.19 200000. 10.21 19581. 865. 9.43 0.0290 0. 48. 0.38
MILE 77.70 864.87 200000. 8.02 24943. 1044. 10.22 0.0400 0. 54. 0.29
MILE 75.60 858.03 200000. 8.88 22521. 1744. 9.57 0.0400 0. 52. 0.44
MILE 73.50 849.69 200000. 9.54 20955. 1281. 9.58 0.0330 0. 50. 0.42
MILE 71.40 846.43 200000. 6.95 28785. 1141. 9.18 0.0400 0. 49. 0.24
MILE 69.30 841.93 200000. 7.42 26944. 1121. 9.26 0.0340 0. 43. 0.27
MILE 67.20 839.72 200000. 4.83 41385. 2424. 8.80 0.0340 0. 49. 0.21
MILE 65.10 836.51 200000. 6.37 31375. 2998. 9.24 0.0320 0. 50. 0.35
MILE 63.00 834.59 200000. 5.30 37766. 2394. 8.81 0.0400 0. 54. 0.23
MILE 60.90 829.83 200000. 7.21 27722. 1935. 9.31 0.0450 0. 53. 0.34
MILE 58.80 822.60 200000. 7.70 25986. 1374. 8.29 0.0400 0. 50. 0.31
MILE 57.00 820.83 200000. 7.92 25248. 1422. 8.82 0.0200 0. 46. 0.33
MILE 55.00 818.50 200000. 8.99 22242. 1378. 8.64 0.0200 0. 45. 0.39
MILE 53.10 817.64 200000. 6.19 32287. 1645. 8.60 0.0200 0. 44. 0.25
MILE 51.00 816.32 200000. 6.44 31049. 2180. 8.19 0.0200 0. 47. 0.30
MILE 48.30 815.52 200000. 4.68 42753. 4382. 9.55 0.0200 0. 47. 0.26
MILE 46.20 814.89 200000. 5.27 37934. 4426. 10.33 0.0200 0. 53. 0.32
MILE 44.10 814.82 200000. 3.24 61703. 2471. 10.64 0.0300 0. 60. 0.11
MILE 43.70 814.01 200000. 7.29 27424. 2316. 11.61 0.0300 0. 61. 0.37
MILE 42.00 813.59 200000. 3.92 51008. 2187. 9.18 0.0300 0. 64. 0.14
MILE 39.10 811.79 200000. 5.77 34658. 2145. 11.01 0.0230 0. 61. 0.25
MILE 37.00 811.73 200000. 3.22 62112. 1622. 10.86 0.0280 0. 60. 0.09
MILE 36.00 811.12 200000. 5.71 35009. 1210. 11.44 0.0280 0. 62. 0.19
MILE 34.60 810.89 200000. 4.14 48251. 1714. 12.56 0.0280 0. 62. 0.14
MILE 33.60 811.01 200000. 1.83 109303. 3045. 11.52 0.0290 0. 68. 0.05
MILE 31.50 810.59 200000. 4.27 46817. 2409. 13.14 0.0250 0. 72. 0.17
MILE 30.10 810.40 200000. 3.92 51077. 1091. 12.45 0.0200 0. 70. 0.10
MILE 29.00 810.31 200000. 3.78 52896. 1402. 13.60 0.0200 0. 71. 0.11
MILE 27.30 810.18 200000. 3.72 53768. 1359. 13.92 0.0230 0. 73. 0.10
MILE 25.20 810.08 200000. 3.12 64144. 1347. 14.73 0.0230 0. 76. 0.08
MILE 23.10 809.86 200000. 3.70 54064. 1473. 13.98 0.0230 0. 80. 0.11

0DATE 10-10-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 18.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80 867.19 200000. 10.21 19581. 865. 9.43 0.0290 0. 48. 0.38

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 266 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE 75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE 73.50	849.69	200000.	9.54	20955.	1281.	9.58	0.0330	0.	50.	0.42
MILE 71.40	846.43	200000.	6.95	28785.	1141.	9.18	0.0400	0.	49.	0.24
MILE 69.30	841.93	200000.	7.42	26944.	1121.	9.26	0.0340	0.	43.	0.27
MILE 67.20	839.72	200000.	4.83	41385.	2424.	8.80	0.0340	0.	49.	0.21
MILE 65.10	836.51	200000.	6.37	31375.	2998.	9.24	0.0320	0.	50.	0.35
MILE 63.00	834.59	200000.	5.30	37766.	2394.	8.81	0.0400	0.	54.	0.23
MILE 60.90	829.83	200000.	7.21	27722.	1935.	9.31	0.0450	0.	53.	0.34
MILE 58.80	822.60	200000.	7.70	25986.	1374.	8.29	0.0400	0.	50.	0.31
MILE 57.00	820.83	200000.	7.92	25248.	1422.	8.82	0.0200	0.	46.	0.33
MILE 55.00	818.50	200000.	8.99	22242.	1378.	8.64	0.0200	0.	45.	0.39
MILE 53.10	817.64	200000.	6.19	32287.	1645.	8.60	0.0200	0.	44.	0.25
MILE 51.00	816.32	200000.	6.44	31049.	2180.	8.19	0.0200	0.	47.	0.30
MILE 48.30	815.52	200000.	4.68	42753.	4382.	9.55	0.0200	0.	47.	0.26
MILE 46.20	814.89	200000.	5.27	37934.	4426.	10.33	0.0200	0.	53.	0.32
MILE 44.10	814.82	200000.	3.24	61703.	2471.	10.64	0.0300	0.	60.	0.11
MILE 43.70	814.01	200000.	7.29	27424.	2316.	11.61	0.0300	0.	61.	0.37
MILE 42.00	813.59	200000.	3.92	51008.	2187.	9.18	0.0300	0.	64.	0.14
MILE 39.10	811.79	200000.	5.77	34658.	2145.	11.01	0.0230	0.	61.	0.25
MILE 37.00	811.73	200000.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE 36.00	811.12	200000.	5.71	35009.	1210.	11.44	0.0280	0.	62.	0.19
MILE 34.60	810.89	200000.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE 33.60	811.01	200000.	1.83	109303.	3045.	11.52	0.0290	0.	68.	0.05
MILE 31.50	810.59	200000.	4.27	46817.	2409.	13.14	0.0250	0.	72.	0.17
MILE 30.10	810.40	200000.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10
MILE 29.00	810.31	200000.	3.78	52896.	1402.	13.60	0.0200	0.	71.	0.11
MILE 27.30	810.18	200000.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE 25.20	810.08	200000.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE 23.10	809.86	200000.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

0DATE 10-10-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 19.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	867.19	200000.	10.21	19581.	865.	9.43	0.0290	0.	48.	0.38
MILE 77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE 75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE 73.50	849.69	200000.	9.54	20955.	1281.	9.58	0.0330	0.	50.	0.42
MILE 71.40	846.43	200000.	6.95	28785.	1141.	9.18	0.0400	0.	49.	0.24
MILE 69.30	841.93	200000.	7.42	26944.	1121.	9.26	0.0340	0.	43.	0.27
MILE 67.20	839.72	200000.	4.83	41385.	2424.	8.80	0.0340	0.	49.	0.21
MILE 65.10	836.51	200000.	6.37	31375.	2998.	9.24	0.0320	0.	50.	0.35
MILE 63.00	834.59	200000.	5.30	37766.	2394.	8.81	0.0400	0.	54.	0.23
MILE 60.90	829.83	200000.	7.21	27722.	1935.	9.31	0.0450	0.	53.	0.34
MILE 58.80	822.60	200000.	7.70	25986.	1374.	8.29	0.0400	0.	50.	0.31
MILE 57.00	820.83	200000.	7.92	25248.	1422.	8.82	0.0200	0.	46.	0.33

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 267 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	55.00	818.50	200000.	8.99	22242.	1378.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.64	200000.	6.19	32287.	1645.	8.60	0.0200	0.	44.	0.25
MILE	51.00	816.32	200000.	6.44	31049.	2180.	8.19	0.0200	0.	47.	0.30
MILE	48.30	815.52	200000.	4.68	42753.	4382.	9.55	0.0200	0.	47.	0.26
MILE	46.20	814.89	200000.	5.27	37934.	4426.	10.33	0.0200	0.	53.	0.32
MILE	44.10	814.82	200000.	3.24	61703.	2471.	10.64	0.0300	0.	60.	0.11
MILE	43.70	814.01	200000.	7.29	27424.	2316.	11.61	0.0300	0.	61.	0.37
MILE	42.00	813.59	200000.	3.92	51008.	2187.	9.18	0.0300	0.	64.	0.14
MILE	39.10	811.79	200000.	5.77	34658.	2145.	11.01	0.0230	0.	61.	0.25
MILE	37.00	811.73	200000.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE	36.00	811.12	200000.	5.71	35009.	1210.	11.44	0.0280	0.	62.	0.19
MILE	34.60	810.89	200000.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE	33.60	811.01	200000.	1.83	109303.	3045.	11.52	0.0290	0.	68.	0.05
MILE	31.50	810.59	200000.	4.27	46817.	2409.	13.14	0.0250	0.	72.	0.17
MILE	30.10	810.40	200000.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10
MILE	29.00	810.31	200000.	3.78	52896.	1402.	13.60	0.0200	0.	71.	0.11
MILE	27.30	810.18	200000.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE	25.20	810.08	200000.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE	23.10	809.86	200000.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

0DATE 10-10-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	20.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL	
INFLOW	DEPTH	FROUDE									
MILE	79.80	867.19	200000.	10.21	19581.	865.	9.43	0.0290	0.	48.	0.38
MILE	77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE	75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE	73.50	849.69	200000.	9.54	20955.	1281.	9.58	0.0330	0.	50.	0.42
MILE	71.40	846.43	200000.	6.95	28785.	1141.	9.18	0.0400	0.	49.	0.24
MILE	69.30	841.93	200000.	7.42	26944.	1121.	9.26	0.0340	0.	43.	0.27
MILE	67.20	839.72	200000.	4.83	41385.	2424.	8.80	0.0340	0.	49.	0.21
MILE	65.10	836.51	200000.	6.37	31375.	2998.	9.24	0.0320	0.	50.	0.35
MILE	63.00	834.59	200000.	5.30	37766.	2394.	8.81	0.0400	0.	54.	0.23
MILE	60.90	829.83	200000.	7.21	27722.	1935.	9.31	0.0450	0.	53.	0.34
MILE	58.80	822.60	200000.	7.70	25986.	1374.	8.29	0.0400	0.	50.	0.31
MILE	57.00	820.83	200000.	7.92	25248.	1422.	8.82	0.0200	0.	46.	0.33
MILE	55.00	818.50	200000.	8.99	22242.	1378.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.64	200000.	6.19	32287.	1645.	8.60	0.0200	0.	44.	0.25
MILE	51.00	816.32	200000.	6.44	31049.	2180.	8.19	0.0200	0.	47.	0.30
MILE	48.30	815.52	200000.	4.68	42753.	4382.	9.55	0.0200	0.	47.	0.26
MILE	46.20	814.89	200000.	5.27	37934.	4426.	10.33	0.0200	0.	53.	0.32
MILE	44.10	814.82	200000.	3.24	61703.	2471.	10.64	0.0300	0.	60.	0.11
MILE	43.70	814.01	200000.	7.29	27424.	2316.	11.61	0.0300	0.	61.	0.37
MILE	42.00	813.59	200000.	3.92	51008.	2187.	9.18	0.0300	0.	64.	0.14
MILE	39.10	811.79	200000.	5.77	34658.	2145.	11.01	0.0230	0.	61.	0.25
MILE	37.00	811.73	200000.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE	36.00	811.12	200000.	5.71	35009.	1210.	11.44	0.0280	0.	62.	0.19

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 268 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	34.60	810.89	200000.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE	33.60	811.01	200000.	1.83	109303.	3045.	11.52	0.0290	0.	68.	0.05
MILE	31.50	810.59	200000.	4.27	46817.	2409.	13.14	0.0250	0.	72.	0.17
MILE	30.10	810.40	200000.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10
MILE	29.00	810.31	200000.	3.78	52896.	1402.	13.60	0.0200	0.	71.	0.11
MILE	27.30	810.18	200000.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE	25.20	810.08	200000.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE	23.10	809.86	200000.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

0DATE 10-10-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 21.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
	INFLOW DEPTH	FROUDE									
MILE	79.80	867.19	200000.	10.21	19581.	865.	9.43	0.0290	0.	48.	0.38
MILE	77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE	75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE	73.50	849.69	200000.	9.54	20955.	1281.	9.58	0.0330	0.	50.	0.42
MILE	71.40	846.43	200000.	6.95	28785.	1141.	9.18	0.0400	0.	49.	0.24
MILE	69.30	841.93	200000.	7.42	26944.	1121.	9.26	0.0340	0.	43.	0.27
MILE	67.20	839.72	200000.	4.83	41385.	2424.	8.80	0.0340	0.	49.	0.21
MILE	65.10	836.51	200000.	6.37	31375.	2998.	9.24	0.0320	0.	50.	0.35
MILE	63.00	834.59	200000.	5.30	37766.	2394.	8.81	0.0400	0.	54.	0.23
MILE	60.90	829.83	200000.	7.21	27722.	1935.	9.31	0.0450	0.	53.	0.34
MILE	58.80	822.60	200000.	7.70	25986.	1374.	8.29	0.0400	0.	50.	0.31
MILE	57.00	820.83	200000.	7.92	25248.	1422.	8.82	0.0200	0.	46.	0.33
MILE	55.00	818.50	200000.	8.99	22242.	1378.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.64	200000.	6.19	32287.	1645.	8.60	0.0200	0.	44.	0.25
MILE	51.00	816.32	200000.	6.44	31049.	2180.	8.19	0.0200	0.	47.	0.30
MILE	48.30	815.52	200000.	4.68	42753.	4382.	9.55	0.0200	0.	47.	0.26
MILE	46.20	814.89	200000.	5.27	37934.	4426.	10.33	0.0200	0.	53.	0.32
MILE	44.10	814.82	200000.	3.24	61703.	2471.	10.64	0.0300	0.	60.	0.11
MILE	43.70	814.01	200000.	7.29	27424.	2316.	11.61	0.0300	0.	61.	0.37
MILE	42.00	813.59	200000.	3.92	51008.	2187.	9.18	0.0300	0.	64.	0.14
MILE	39.10	811.79	200000.	5.77	34658.	2145.	11.01	0.0230	0.	61.	0.25
MILE	37.00	811.73	200000.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE	36.00	811.12	200000.	5.71	35009.	1210.	11.44	0.0280	0.	62.	0.19
MILE	34.60	810.89	200000.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE	33.60	811.01	200000.	1.83	109303.	3045.	11.52	0.0290	0.	68.	0.05
MILE	31.50	810.59	200000.	4.27	46817.	2409.	13.14	0.0250	0.	72.	0.17
MILE	30.10	810.40	200000.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10
MILE	29.00	810.31	200000.	3.78	52896.	1402.	13.60	0.0200	0.	71.	0.11
MILE	27.30	810.18	200000.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE	25.20	810.08	200000.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE	23.10	809.86	200000.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 269 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

0DATE 10-10-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 22.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	867.19	200000.	10.21	19581.	865.	9.43	0.0290	0.	48.	0.38
MILE 77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE 75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE 73.50	849.69	200000.	9.54	20955.	1281.	9.58	0.0330	0.	50.	0.42
MILE 71.40	846.43	200000.	6.95	28785.	1141.	9.18	0.0400	0.	49.	0.24
MILE 69.30	841.93	200000.	7.42	26944.	1121.	9.26	0.0340	0.	43.	0.27
MILE 67.20	839.72	200000.	4.83	41385.	2424.	8.80	0.0340	0.	49.	0.21
MILE 65.10	836.51	200000.	6.37	31375.	2998.	9.24	0.0320	0.	50.	0.35
MILE 63.00	834.59	200000.	5.30	37766.	2394.	8.81	0.0400	0.	54.	0.23
MILE 60.90	829.83	200000.	7.21	27722.	1935.	9.31	0.0450	0.	53.	0.34
MILE 58.80	822.60	200000.	7.70	25986.	1374.	8.29	0.0400	0.	50.	0.31
MILE 57.00	820.83	200000.	7.92	25248.	1422.	8.82	0.0200	0.	46.	0.33
MILE 55.00	818.50	200000.	8.99	22242.	1378.	8.64	0.0200	0.	45.	0.39
MILE 53.10	817.64	200000.	6.19	32287.	1645.	8.60	0.0200	0.	44.	0.25
MILE 51.00	816.32	200000.	6.44	31049.	2180.	8.19	0.0200	0.	47.	0.30
MILE 48.30	815.52	200000.	4.68	42753.	4382.	9.55	0.0200	0.	47.	0.26
MILE 46.20	814.89	200000.	5.27	37934.	4426.	10.33	0.0200	0.	53.	0.32
MILE 44.10	814.82	200000.	3.24	61703.	2471.	10.64	0.0300	0.	60.	0.11
MILE 43.70	814.01	200000.	7.29	27424.	2316.	11.61	0.0300	0.	61.	0.37
MILE 42.00	813.59	200000.	3.92	51008.	2187.	9.18	0.0300	0.	64.	0.14
MILE 39.10	811.79	200000.	5.77	34658.	2145.	11.01	0.0230	0.	61.	0.25
MILE 37.00	811.73	200000.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE 36.00	811.12	200000.	5.71	35009.	1210.	11.44	0.0280	0.	62.	0.19
MILE 34.60	810.89	200000.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE 33.60	811.01	200000.	1.83	109303.	3045.	11.52	0.0290	0.	68.	0.05
MILE 31.50	810.59	200000.	4.27	46817.	2409.	13.14	0.0250	0.	72.	0.17
MILE 30.10	810.40	200000.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10
MILE 29.00	810.31	200000.	3.78	52896.	1402.	13.60	0.0200	0.	71.	0.11
MILE 27.30	810.18	200000.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE 25.20	810.08	200000.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE 23.10	809.86	200000.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

0DATE 10-10-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 23.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	867.19	200000.	10.21	19581.	865.	9.43	0.0290	0.	48.	0.38
MILE 77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE 75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE 73.50	849.69	200000.	9.54	20955.	1281.	9.58	0.0330	0.	50.	0.42
MILE 71.40	846.43	200000.	6.95	28785.	1141.	9.18	0.0400	0.	49.	0.24

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 69.30	841.93	200000.	7.42	26944.	1121.	9.26	0.0340	0.	43.	0.27
MILE 67.20	839.72	200000.	4.83	41385.	2424.	8.80	0.0340	0.	49.	0.21
MILE 65.10	836.51	200000.	6.37	31375.	2998.	9.24	0.0320	0.	50.	0.35
MILE 63.00	834.59	200000.	5.30	37766.	2394.	8.81	0.0400	0.	54.	0.23
MILE 60.90	829.83	200000.	7.21	27722.	1935.	9.31	0.0450	0.	53.	0.34
MILE 58.80	822.60	200000.	7.70	25986.	1374.	8.29	0.0400	0.	50.	0.31
MILE 57.00	820.83	200000.	7.92	25248.	1422.	8.82	0.0200	0.	46.	0.33
MILE 55.00	818.50	200000.	8.99	22242.	1378.	8.64	0.0200	0.	45.	0.39
MILE 53.10	817.64	200000.	6.19	32287.	1645.	8.60	0.0200	0.	44.	0.25
MILE 51.00	816.32	200000.	6.44	31049.	2180.	8.19	0.0200	0.	47.	0.30
MILE 48.30	815.52	200000.	4.68	42753.	4382.	9.55	0.0200	0.	47.	0.26
MILE 46.20	814.89	200000.	5.27	37934.	4426.	10.33	0.0200	0.	53.	0.32
MILE 44.10	814.82	200000.	3.24	61703.	2471.	10.64	0.0300	0.	60.	0.11
MILE 43.70	814.01	200000.	7.29	27424.	2316.	11.61	0.0300	0.	61.	0.37
MILE 42.00	813.59	200000.	3.92	51008.	2187.	9.18	0.0300	0.	64.	0.14
MILE 39.10	811.79	200000.	5.77	34658.	2145.	11.01	0.0230	0.	61.	0.25
MILE 37.00	811.73	200000.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE 36.00	811.12	200000.	5.71	35009.	1210.	11.44	0.0280	0.	62.	0.19
MILE 34.60	810.89	200000.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE 33.60	811.01	200000.	1.83	109303.	3045.	11.52	0.0290	0.	68.	0.05
MILE 31.50	810.59	200000.	4.27	46817.	2409.	13.14	0.0250	0.	72.	0.17
MILE 30.10	810.40	200000.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10
MILE 29.00	810.31	200000.	3.78	52896.	1402.	13.60	0.0200	0.	71.	0.11
MILE 27.30	810.18	200000.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE 25.20	810.08	200000.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE 23.10	809.86	200000.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

0DATE 10-11-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	0.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL	
INFLOW	DEPTH	FROUDE								
MILE 79.80	867.19	200000.	10.21	19581.	865.	9.43	0.0290	0.	48.	0.38
MILE 77.70	864.87	200000.	8.02	24943.	1044.	10.22	0.0400	0.	54.	0.29
MILE 75.60	858.03	200000.	8.88	22521.	1744.	9.57	0.0400	0.	52.	0.44
MILE 73.50	849.69	200000.	9.54	20955.	1281.	9.58	0.0330	0.	50.	0.42
MILE 71.40	846.43	200000.	6.95	28785.	1141.	9.18	0.0400	0.	49.	0.24
MILE 69.30	841.93	200000.	7.42	26944.	1121.	9.26	0.0340	0.	43.	0.27
MILE 67.20	839.72	200000.	4.83	41385.	2424.	8.80	0.0340	0.	49.	0.21
MILE 65.10	836.51	200000.	6.37	31375.	2998.	9.24	0.0320	0.	50.	0.35
MILE 63.00	834.59	200000.	5.30	37766.	2394.	8.81	0.0400	0.	54.	0.23
MILE 60.90	829.83	200000.	7.21	27722.	1935.	9.31	0.0450	0.	53.	0.34
MILE 58.80	822.60	200000.	7.70	25986.	1374.	8.29	0.0400	0.	50.	0.31
MILE 57.00	820.83	200000.	7.92	25248.	1422.	8.82	0.0200	0.	46.	0.33
MILE 55.00	818.50	200000.	8.99	22242.	1378.	8.64	0.0200	0.	45.	0.39
MILE 53.10	817.64	200000.	6.19	32287.	1645.	8.60	0.0200	0.	44.	0.25
MILE 51.00	816.32	200000.	6.44	31049.	2180.	8.19	0.0200	0.	47.	0.30
MILE 48.30	815.52	200000.	4.68	42753.	4382.	9.55	0.0200	0.	47.	0.26

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	46.20	814.89	200000.	5.27	37934.	4426.	10.33	0.0200	0.	53.	0.32
MILE	44.10	814.82	200000.	3.24	61703.	2471.	10.64	0.0300	0.	60.	0.11
MILE	43.70	814.01	200000.	7.29	27424.	2316.	11.61	0.0300	0.	61.	0.37
MILE	42.00	813.59	200000.	3.92	51008.	2187.	9.18	0.0300	0.	64.	0.14
MILE	39.10	811.79	200000.	5.77	34658.	2145.	11.01	0.0230	0.	61.	0.25
MILE	37.00	811.73	200000.	3.22	62112.	1622.	10.86	0.0280	0.	60.	0.09
MILE	36.00	811.12	200000.	5.71	35009.	1210.	11.44	0.0280	0.	62.	0.19
MILE	34.60	810.89	200000.	4.14	48251.	1714.	12.56	0.0280	0.	62.	0.14
MILE	33.60	811.01	200000.	1.83	109303.	3045.	11.52	0.0290	0.	68.	0.05
MILE	31.50	810.59	200000.	4.27	46817.	2409.	13.14	0.0250	0.	72.	0.17
MILE	30.10	810.40	200000.	3.92	51077.	1091.	12.45	0.0200	0.	70.	0.10
MILE	29.00	810.31	200000.	3.78	52896.	1402.	13.60	0.0200	0.	71.	0.11
MILE	27.30	810.18	200000.	3.72	53768.	1359.	13.92	0.0230	0.	73.	0.10
MILE	25.20	810.08	200000.	3.12	64144.	1347.	14.73	0.0230	0.	76.	0.08
MILE	23.10	809.86	200000.	3.70	54064.	1473.	13.98	0.0230	0.	80.	0.11

ODATE 10-11-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	1.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL	
INFLOW	DEPTH	FROUDE									
MILE	79.80	867.44	204167.	10.35	19726.	867.	9.45	0.0290	0.	49.	0.38
MILE	77.70	865.09	203181.	8.09	25112.	1046.	10.23	0.0400	0.	54.	0.29
MILE	75.60	858.15	202003.	8.94	22601.	1750.	9.57	0.0400	0.	52.	0.44
MILE	73.50	849.74	201165.	9.58	20988.	1283.	9.59	0.0330	0.	51.	0.42
MILE	71.40	846.47	200748.	6.96	28823.	1142.	9.18	0.0400	0.	49.	0.24
MILE	69.30	841.95	200484.	7.44	26959.	1122.	9.26	0.0340	0.	43.	0.27
MILE	67.20	839.73	200294.	4.84	41396.	2424.	8.80	0.0340	0.	49.	0.21
MILE	65.10	836.52	200104.	6.38	31377.	2998.	9.24	0.0320	0.	50.	0.35
MILE	63.00	834.59	200030.	5.30	37767.	2394.	8.81	0.0400	0.	54.	0.24
MILE	60.90	829.83	200006.	7.21	27722.	1935.	9.31	0.0450	0.	53.	0.34
MILE	58.80	822.60	200001.	7.70	25986.	1374.	8.29	0.0400	0.	50.	0.31
MILE	57.00	820.83	200000.	7.92	25248.	1422.	8.82	0.0200	0.	46.	0.33
MILE	55.00	818.50	200000.	8.99	22242.	1378.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.64	200000.	6.19	32287.	1645.	8.60	0.0200	0.	44.	0.25
MILE	51.00	816.32	200000.	6.44	31049.	2180.	8.19	0.0200	0.	47.	0.30
MILE	48.30	815.52	200000.	4.68	42753.	4382.	9.55	0.0200	0.	47.	0.26
MILE	46.20	814.89	200000.	5.27	37934.	4426.	10.33	0.0200	0.	53.	0.32
MILE	44.10	814.82	199983.	3.24	61704.	2471.	10.64	0.0300	0.	60.	0.11
MILE	43.70	814.01	199971.	7.29	27424.	2316.	11.61	0.0300	0.	61.	0.37
MILE	42.00	813.60	199811.	3.92	51019.	2187.	9.18	0.0300	0.	64.	0.14
MILE	39.10	811.83	198848.	5.73	34697.	2147.	11.01	0.0230	0.	61.	0.25
MILE	37.00	811.80	197175.	3.17	62242.	1624.	10.87	0.0280	0.	61.	0.09
MILE	36.00	811.23	196572.	5.60	35113.	1212.	11.46	0.0280	0.	62.	0.18
MILE	34.60	811.03	195589.	4.04	48412.	1718.	12.58	0.0280	0.	63.	0.13
MILE	33.60	811.15	194444.	1.77	109712.	3053.	11.54	0.0290	0.	68.	0.05
MILE	31.50	810.78	191526.	4.07	47027.	2417.	13.17	0.0250	0.	72.	0.16
MILE	30.10	810.63	190228.	3.70	51368.	1093.	12.48	0.0200	0.	70.	0.10

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Appendix E		Checked	ACM

MILE	29.00	810.57	189396.	3.56	53180.	1408.	13.64	0.0200	0.	71.	0.10
MILE	27.30	810.48	187782.	3.47	54091.	1365.	13.96	0.0230	0.	73.	0.10
MILE	25.20	810.42	185943.	2.88	64542.	1353.	14.78	0.0230	0.	76.	0.07
MILE	23.10	810.26	184251.	3.38	54515.	1482.	14.03	0.0230	0.	80.	0.10

0DATE 10-11-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 2.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE	79.80	867.83	208333.	10.44	19951.	870.	9.47	0.0290	0.	49.	0.38
MILE	77.70	865.46	207121.	8.15	25410.	1050.	10.26	0.0400	0.	55.	0.29
MILE	75.60	858.44	205531.	9.01	22803.	1763.	9.59	0.0400	0.	52.	0.44
MILE	73.50	849.93	204196.	9.67	21109.	1291.	9.60	0.0330	0.	51.	0.42
MILE	71.40	846.63	203408.	7.02	28995.	1146.	9.21	0.0400	0.	49.	0.25
MILE	69.30	842.05	202799.	7.50	27054.	1124.	9.27	0.0340	0.	43.	0.27
MILE	67.20	839.80	202164.	4.87	41501.	2429.	8.81	0.0340	0.	49.	0.21
MILE	65.10	836.56	201326.	6.41	31420.	3002.	9.24	0.0320	0.	50.	0.35
MILE	63.00	834.62	200732.	5.31	37817.	2396.	8.81	0.0400	0.	54.	0.24
MILE	60.90	829.85	200359.	7.22	27742.	1936.	9.31	0.0450	0.	53.	0.34
MILE	58.80	822.61	200192.	7.70	25997.	1374.	8.29	0.0400	0.	50.	0.31
MILE	57.00	820.84	200142.	7.92	25255.	1422.	8.82	0.0200	0.	46.	0.33
MILE	55.00	818.50	200090.	8.99	22247.	1378.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.65	200004.	6.19	32294.	1645.	8.60	0.0200	0.	44.	0.25
MILE	51.00	816.33	199792.	6.43	31063.	2181.	8.19	0.0200	0.	47.	0.30
MILE	48.30	815.55	198776.	4.64	42798.	4386.	9.56	0.0200	0.	47.	0.26
MILE	46.20	814.95	197319.	5.19	38013.	4434.	10.33	0.0200	0.	53.	0.31
MILE	44.10	814.90	195914.	3.17	61877.	2474.	10.64	0.0300	0.	60.	0.11
MILE	43.70	814.13	195705.	7.11	27510.	2322.	11.63	0.0300	0.	61.	0.36
MILE	42.00	813.76	194484.	3.79	51355.	2194.	9.20	0.0300	0.	64.	0.14
MILE	39.10	812.15	191938.	5.48	35027.	2161.	11.06	0.0230	0.	61.	0.24
MILE	37.00	812.12	190199.	3.03	62806.	1633.	10.93	0.0280	0.	61.	0.09
MILE	36.00	811.59	189518.	5.34	35466.	1219.	11.51	0.0280	0.	63.	0.17
MILE	34.60	811.41	188371.	3.86	48852.	1728.	12.64	0.0280	0.	63.	0.13
MILE	33.60	811.52	187068.	1.69	110782.	3072.	11.61	0.0290	0.	69.	0.05
MILE	31.50	811.18	183838.	3.87	47460.	2432.	13.22	0.0250	0.	72.	0.15
MILE	30.10	811.04	182358.	3.51	51883.	1098.	12.53	0.0200	0.	70.	0.09
MILE	29.00	810.98	181550.	3.38	53640.	1416.	13.70	0.0200	0.	71.	0.10
MILE	27.30	810.89	180213.	3.30	54537.	1372.	14.02	0.0230	0.	74.	0.09
MILE	25.20	810.82	178563.	2.75	65015.	1360.	14.85	0.0230	0.	76.	0.07
MILE	23.10	810.66	176916.	3.22	54978.	1492.	14.08	0.0230	0.	81.	0.09

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

TIME	3.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
INFLOW	DEPTH	FROUDE									
MILE	79.80	868.26	212500.	10.52	20204.	873.	9.51	0.0290	0.	50.	0.39
MILE	77.70	865.89	211199.	8.20	25750.	1055.	10.29	0.0400	0.	55.	0.29
MILE	75.60	858.81	209436.	9.08	23056.	1780.	9.62	0.0400	0.	52.	0.44
MILE	73.50	850.19	207853.	9.77	21276.	1302.	9.63	0.0330	0.	51.	0.43
MILE	71.40	846.86	206861.	7.07	29257.	1153.	9.25	0.0400	0.	49.	0.25
MILE	69.30	842.24	206016.	7.57	27226.	1130.	9.29	0.0340	0.	44.	0.27
MILE	67.20	839.96	204994.	4.91	41721.	2441.	8.83	0.0340	0.	49.	0.21
MILE	65.10	836.67	203519.	6.45	31535.	3012.	9.25	0.0320	0.	50.	0.35
MILE	63.00	834.72	202309.	5.33	37973.	2402.	8.82	0.0400	0.	54.	0.24
MILE	60.90	829.92	201436.	7.24	27823.	1940.	9.32	0.0450	0.	53.	0.34
MILE	58.80	822.66	200900.	7.71	26060.	1377.	8.29	0.0400	0.	50.	0.31
MILE	57.00	820.90	200529.	7.92	25320.	1425.	8.82	0.0200	0.	46.	0.33
MILE	55.00	818.57	200077.	8.96	22319.	1381.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.73	199545.	6.16	32400.	1649.	8.61	0.0200	0.	44.	0.24
MILE	51.00	816.44	198730.	6.37	31190.	2187.	8.20	0.0200	0.	47.	0.30
MILE	48.30	815.69	196594.	4.57	43001.	4404.	9.58	0.0200	0.	47.	0.26
MILE	46.20	815.11	194163.	5.08	38216.	4454.	10.35	0.0200	0.	53.	0.31
MILE	44.10	815.06	192029.	3.09	62228.	2482.	10.65	0.0300	0.	60.	0.11
MILE	43.70	814.33	191744.	6.93	27651.	2331.	11.66	0.0300	0.	61.	0.35
MILE	42.00	813.99	190414.	3.68	51800.	2204.	9.23	0.0300	0.	64.	0.13
MILE	39.10	812.47	187911.	5.31	35356.	2175.	11.11	0.0230	0.	61.	0.23
MILE	37.00	812.44	186058.	2.94	63383.	1642.	10.98	0.0280	0.	61.	0.08
MILE	36.00	811.94	185370.	5.18	35810.	1225.	11.57	0.0280	0.	63.	0.17
MILE	34.60	811.77	184302.	3.74	49272.	1739.	12.69	0.0280	0.	63.	0.12
MILE	33.60	811.87	183083.	1.64	111814.	3090.	11.67	0.0290	0.	69.	0.05
MILE	31.50	811.55	180073.	3.76	47866.	2446.	13.27	0.0250	0.	73.	0.15
MILE	30.10	811.42	178752.	3.41	52359.	1102.	12.58	0.0200	0.	71.	0.09
MILE	29.00	811.36	177992.	3.29	54064.	1424.	13.75	0.0200	0.	72.	0.09
MILE	27.30	811.27	176665.	3.21	54958.	1379.	14.08	0.0230	0.	74.	0.09
MILE	25.20	811.21	175070.	2.67	65473.	1367.	14.91	0.0230	0.	77.	0.07
MILE	23.10	811.06	173284.	3.13	55442.	1501.	14.13	0.0230	0.	81.	0.09

0DATE 10-11-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	4.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
INFLOW	DEPTH	FROUDE									
MILE	79.80	868.70	216667.	10.59	20469.	876.	9.54	0.0290	0.	50.	0.39
MILE	77.70	866.34	215329.	8.25	26110.	1060.	10.32	0.0400	0.	56.	0.29
MILE	75.60	859.22	213483.	9.15	23332.	1799.	9.65	0.0400	0.	53.	0.45
MILE	73.50	850.50	211760.	9.86	21469.	1315.	9.66	0.0330	0.	51.	0.43
MILE	71.40	847.15	210629.	7.12	29575.	1161.	9.30	0.0400	0.	49.	0.25
MILE	69.30	842.49	209608.	7.63	27454.	1136.	9.31	0.0340	0.	44.	0.27
MILE	67.20	840.18	208266.	4.96	42022.	2461.	8.85	0.0340	0.	49.	0.21
MILE	65.10	836.85	206250.	6.50	31722.	3029.	9.26	0.0320	0.	50.	0.35

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Appendix E		Checked	ACM

MILE	63.00	834.90	204464.	5.35	38242.	2411.	8.83	0.0400	0.	54.	0.24
MILE	60.90	830.08	203078.	7.26	27982.	1948.	9.32	0.0450	0.	54.	0.34
MILE	58.80	822.80	202159.	7.71	26218.	1383.	8.30	0.0400	0.	50.	0.31
MILE	57.00	821.03	201526.	7.91	25479.	1432.	8.81	0.0200	0.	46.	0.33
MILE	55.00	818.73	200791.	8.93	22473.	1387.	8.64	0.0200	0.	45.	0.39
MILE	53.10	817.89	199993.	6.13	32602.	1656.	8.62	0.0200	0.	45.	0.24
MILE	51.00	816.62	198832.	6.33	31395.	2198.	8.22	0.0200	0.	47.	0.30
MILE	48.30	815.89	196038.	4.53	43293.	4430.	9.62	0.0200	0.	47.	0.26
MILE	46.20	815.32	192907.	5.01	38487.	4481.	10.38	0.0200	0.	54.	0.30
MILE	44.10	815.28	190269.	3.03	62694.	2492.	10.66	0.0300	0.	60.	0.11
MILE	43.70	814.57	189918.	6.83	27818.	2342.	11.69	0.0300	0.	62.	0.35
MILE	42.00	814.25	188339.	3.60	52318.	2215.	9.26	0.0300	0.	64.	0.13
MILE	39.10	812.80	185405.	5.19	35699.	2190.	11.15	0.0230	0.	62.	0.23
MILE	37.00	812.77	183414.	2.87	63983.	1651.	11.04	0.0280	0.	61.	0.08
MILE	36.00	812.30	182672.	5.05	36158.	1231.	11.62	0.0280	0.	63.	0.16
MILE	34.60	812.14	181528.	3.65	49698.	1749.	12.75	0.0280	0.	64.	0.12
MILE	33.60	812.23	180219.	1.60	112869.	3109.	11.73	0.0290	0.	69.	0.05
MILE	31.50	811.93	176992.	3.67	48279.	2460.	13.32	0.0250	0.	73.	0.15
MILE	30.10	811.80	175581.	3.32	52847.	1107.	12.63	0.0200	0.	71.	0.08
MILE	29.00	811.75	174783.	3.21	54500.	1432.	13.81	0.0200	0.	72.	0.09
MILE	27.30	811.67	173404.	3.13	55389.	1386.	14.14	0.0230	0.	75.	0.09
MILE	25.20	811.61	171713.	2.60	65940.	1374.	14.97	0.0230	0.	77.	0.07
MILE	23.10	811.46	169961.	3.04	55907.	1511.	14.18	0.0230	0.	81.	0.09

ODATE 10-11-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	5.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL	
INFLOW	DEPTH	FROUDE									
MILE	79.80	869.15	220833.	10.65	20739.	880.	9.57	0.0290	0.	50.	0.39
MILE	77.70	866.79	219481.	8.29	26479.	1065.	10.35	0.0400	0.	56.	0.29
MILE	75.60	859.63	217591.	9.21	23623.	1818.	9.67	0.0400	0.	53.	0.45
MILE	73.50	850.84	215770.	9.95	21679.	1329.	9.69	0.0330	0.	52.	0.43
MILE	71.40	847.47	214538.	7.17	29930.	1169.	9.36	0.0400	0.	50.	0.25
MILE	69.30	842.79	213383.	7.70	27725.	1144.	9.34	0.0340	0.	44.	0.28
MILE	67.20	840.45	211777.	5.00	42393.	2487.	8.87	0.0340	0.	50.	0.21
MILE	65.10	837.10	209296.	6.55	31972.	3051.	9.28	0.0320	0.	50.	0.36
MILE	63.00	835.13	207015.	5.36	38592.	2424.	8.85	0.0400	0.	54.	0.24
MILE	60.90	830.29	205231.	7.28	28208.	1960.	9.33	0.0450	0.	54.	0.34
MILE	58.80	822.99	204011.	7.71	26446.	1392.	8.30	0.0400	0.	50.	0.31
MILE	57.00	821.23	203178.	7.90	25705.	1441.	8.81	0.0200	0.	46.	0.33
MILE	55.00	818.94	202227.	8.92	22683.	1395.	8.65	0.0200	0.	45.	0.39
MILE	53.10	818.11	201214.	6.12	32869.	1666.	8.64	0.0200	0.	45.	0.24
MILE	51.00	816.85	199748.	6.31	31657.	2211.	8.24	0.0200	0.	48.	0.29
MILE	48.30	816.13	196284.	4.50	43657.	4462.	9.66	0.0200	0.	47.	0.25
MILE	46.20	815.58	192499.	4.96	38818.	4515.	10.40	0.0200	0.	54.	0.30
MILE	44.10	815.54	189342.	2.99	63268.	2504.	10.66	0.0300	0.	60.	0.10
MILE	43.70	814.85	188929.	6.74	28016.	2356.	11.74	0.0300	0.	62.	0.34

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Appendix E		Checked	ACM

MILE	42.00	814.54	187153.	3.54	52922.	2228.	9.29	0.0300	0.	65.	0.13
MILE	39.10	813.16	183977.	5.10	36069.	2206.	11.21	0.0230	0.	62.	0.22
MILE	37.00	813.13	181836.	2.81	64631.	1661.	11.10	0.0280	0.	62.	0.08
MILE	36.00	812.68	181053.	4.96	36527.	1238.	11.68	0.0280	0.	64.	0.16
MILE	34.60	812.52	179878.	3.59	50144.	1760.	12.80	0.0280	0.	64.	0.12
MILE	33.60	812.61	178525.	1.57	113976.	3129.	11.79	0.0290	0.	70.	0.05
MILE	31.50	812.32	175192.	3.60	48707.	2475.	13.37	0.0250	0.	74.	0.14
MILE	30.10	812.20	173786.	3.26	53347.	1112.	12.68	0.0200	0.	71.	0.08
MILE	29.00	812.14	172988.	3.15	54942.	1440.	13.87	0.0200	0.	72.	0.09
MILE	27.30	812.06	171599.	3.07	55824.	1393.	14.19	0.0230	0.	75.	0.09
MILE	25.20	812.00	169913.	2.56	66409.	1380.	15.03	0.0230	0.	78.	0.07
MILE	23.10	811.87	168142.	2.98	56374.	1520.	14.23	0.0230	0.	82.	0.09

0DATE 10-11-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 6.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
	INFLOW DEPTH	FROUDE									
MILE	79.80	869.60	225000.	10.71	21012.	883.	9.60	0.0290	0.	51.	0.39
MILE	77.70	867.25	223634.	8.33	26854.	1071.	10.38	0.0400	0.	57.	0.29
MILE	75.60	860.06	221688.	9.27	23923.	1838.	9.70	0.0400	0.	54.	0.45
MILE	73.50	851.18	219814.	10.04	21898.	1343.	9.72	0.0330	0.	52.	0.44
MILE	71.40	847.82	218500.	7.21	30308.	1179.	9.42	0.0400	0.	50.	0.25
MILE	69.30	843.12	217240.	7.75	28028.	1153.	9.37	0.0340	0.	44.	0.28
MILE	67.20	840.77	215430.	5.03	42819.	2517.	8.90	0.0340	0.	50.	0.21
MILE	65.10	837.39	212593.	6.59	32272.	3077.	9.30	0.0320	0.	50.	0.36
MILE	63.00	835.42	209929.	5.38	38995.	2440.	8.87	0.0400	0.	54.	0.24
MILE	60.90	830.57	207820.	7.29	28491.	1975.	9.33	0.0450	0.	54.	0.34
MILE	58.80	823.23	206347.	7.72	26736.	1403.	8.30	0.0400	0.	50.	0.31
MILE	57.00	821.48	205335.	7.90	25991.	1453.	8.80	0.0200	0.	47.	0.33
MILE	55.00	819.20	204188.	8.90	22943.	1405.	8.65	0.0200	0.	46.	0.39
MILE	53.10	818.37	202982.	6.11	33197.	1679.	8.65	0.0200	0.	45.	0.24
MILE	51.00	817.12	201256.	6.29	31973.	2227.	8.27	0.0200	0.	48.	0.29
MILE	48.30	816.42	197258.	4.47	44086.	4500.	9.71	0.0200	0.	48.	0.25
MILE	46.20	815.88	192931.	4.92	39201.	4553.	10.44	0.0200	0.	54.	0.30
MILE	44.10	815.84	189381.	2.96	63929.	2518.	10.67	0.0300	0.	61.	0.10
MILE	43.70	815.16	188920.	6.69	28237.	2371.	11.78	0.0300	0.	62.	0.34
MILE	42.00	814.87	186993.	3.49	53588.	2242.	9.33	0.0300	0.	65.	0.13
MILE	39.10	813.53	183606.	5.04	36455.	2222.	11.26	0.0230	0.	63.	0.22
MILE	37.00	813.50	181381.	2.78	65304.	1671.	11.16	0.0280	0.	62.	0.08
MILE	36.00	813.06	180570.	4.89	36905.	1244.	11.73	0.0280	0.	64.	0.16
MILE	34.60	812.91	179369.	3.54	50598.	1770.	12.86	0.0280	0.	64.	0.12
MILE	33.60	813.00	177986.	1.55	115106.	3149.	11.86	0.0290	0.	70.	0.05
MILE	31.50	812.71	174590.	3.55	49139.	2490.	13.43	0.0250	0.	74.	0.14
MILE	30.10	812.59	173158.	3.22	53851.	1116.	12.73	0.0200	0.	72.	0.08
MILE	29.00	812.54	172346.	3.11	55387.	1448.	13.93	0.0200	0.	73.	0.09
MILE	27.30	812.46	170936.	3.04	56261.	1400.	14.25	0.0230	0.	75.	0.08
MILE	25.20	812.40	169227.	2.53	66881.	1387.	15.09	0.0230	0.	78.	0.06

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Appendix E		Checked	ACM

MILE 23.10 812.27 167440. 2.95 56842. 1530. 14.27 0.0230 0. 82. 0.09

ODATE 10-11-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	7.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL
INFLOW	DEPTH	FROUDE								
MILE	79.80	870.06	229167.	10.77	21288.	886.	9.63	0.0290	0.	51. 0.39
MILE	77.70	867.71	227780.	8.36	27236.	1076.	10.41	0.0400	0.	57. 0.29
MILE	75.60	860.50	225789.	9.32	24223.	1859.	9.73	0.0400	0.	54. 0.46
MILE	73.50	851.54	223860.	10.12	22126.	1358.	9.75	0.0330	0.	52. 0.44
MILE	71.40	848.17	222491.	7.25	30705.	1188.	9.48	0.0400	0.	50. 0.25
MILE	69.30	843.47	221154.	7.80	28356.	1163.	9.41	0.0340	0.	45. 0.28
MILE	67.20	841.12	219188.	5.06	43288.	2550.	8.94	0.0340	0.	50. 0.22
MILE	65.10	837.71	216067.	6.63	32611.	3106.	9.33	0.0320	0.	51. 0.36
MILE	63.00	835.74	213111.	5.40	39451.	2458.	8.90	0.0400	0.	55. 0.24
MILE	60.90	830.88	210747.	7.31	28816.	1992.	9.34	0.0450	0.	54. 0.34
MILE	58.80	823.52	209079.	7.72	27076.	1415.	8.30	0.0400	0.	50. 0.31
MILE	57.00	821.76	207924.	7.90	26327.	1467.	8.80	0.0200	0.	47. 0.33
MILE	55.00	819.49	206613.	8.89	23246.	1417.	8.66	0.0200	0.	46. 0.39
MILE	53.10	818.67	205255.	6.11	33576.	1693.	8.68	0.0200	0.	45. 0.24
MILE	51.00	817.43	203326.	6.29	32330.	2245.	8.30	0.0200	0.	48. 0.29
MILE	48.30	816.74	198890.	4.46	44564.	4542.	9.77	0.0200	0.	48. 0.25
MILE	46.20	816.21	194119.	4.90	39625.	4595.	10.47	0.0200	0.	54. 0.29
MILE	44.10	816.17	190231.	2.94	64663.	2533.	10.68	0.0300	0.	61. 0.10
MILE	43.70	815.50	189729.	6.66	28476.	2387.	11.83	0.0300	0.	62. 0.34
MILE	42.00	815.22	187666.	3.46	54298.	2258.	9.36	0.0300	0.	65. 0.12
MILE	39.10	813.91	184113.	5.00	36855.	2239.	11.31	0.0230	0.	63. 0.22
MILE	37.00	813.89	181805.	2.75	66000.	1682.	11.22	0.0280	0.	63. 0.08
MILE	36.00	813.45	180968.	4.85	37290.	1251.	11.79	0.0280	0.	64. 0.16
MILE	34.60	813.30	179744.	3.52	51061.	1781.	12.92	0.0280	0.	65. 0.12
MILE	33.60	813.39	178331.	1.53	116259.	3169.	11.93	0.0290	0.	70. 0.04
MILE	31.50	813.11	174864.	3.53	49577.	2505.	13.48	0.0250	0.	74. 0.14
MILE	30.10	812.99	173408.	3.19	54361.	1121.	12.77	0.0200	0.	72. 0.08
MILE	29.00	812.94	172589.	3.09	55837.	1456.	13.99	0.0200	0.	73. 0.09
MILE	27.30	812.86	171172.	3.02	56701.	1407.	14.31	0.0230	0.	76. 0.08
MILE	25.20	812.80	169459.	2.52	67354.	1394.	15.15	0.0230	0.	78. 0.06
MILE	23.10	812.67	167660.	2.93	57311.	1539.	14.32	0.0230	0.	83. 0.08

ODATE 10-11-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	8.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL
INFLOW	DEPTH	FROUDE								
MILE	79.80	870.51	233333.	10.83	21549.	890.	9.66	0.0290	0.	52. 0.39

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 277 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 77.70	868.17	231946.	8.40	27624.	1081.	10.45	0.0400	0.	57.	0.29
MILE 75.60	860.95	229943.	9.37	24531.	1879.	9.75	0.0400	0.	54.	0.46
MILE 73.50	851.91	227970.	10.19	22363.	1374.	9.78	0.0330	0.	53.	0.45
MILE 71.40	848.54	226553.	7.28	31119.	1198.	9.54	0.0400	0.	51.	0.25
MILE 69.30	843.84	225153.	7.84	28705.	1173.	9.44	0.0340	0.	45.	0.28
MILE 67.20	841.49	223063.	5.09	43792.	2585.	8.97	0.0340	0.	51.	0.22
MILE 65.10	838.06	219718.	6.66	32981.	3138.	9.35	0.0320	0.	51.	0.36
MILE 63.00	836.09	216531.	5.42	39952.	2477.	8.93	0.0400	0.	55.	0.24
MILE 60.90	831.22	213974.	7.33	29179.	2010.	9.35	0.0450	0.	55.	0.34
MILE 58.80	823.84	212150.	7.72	27463.	1430.	8.31	0.0400	0.	51.	0.31
MILE 57.00	822.09	210869.	7.89	26712.	1483.	8.79	0.0200	0.	47.	0.33
MILE 55.00	819.81	209431.	8.88	23579.	1429.	8.67	0.0200	0.	46.	0.39
MILE 53.10	819.00	207938.	6.12	33992.	1708.	8.70	0.0200	0.	46.	0.24
MILE 51.00	817.77	205824.	6.29	32719.	2264.	8.33	0.0200	0.	48.	0.29
MILE 48.30	817.09	201021.	4.46	45080.	4588.	9.83	0.0200	0.	48.	0.25
MILE 46.20	816.56	195885.	4.89	40080.	4641.	10.51	0.0200	0.	55.	0.29
MILE 44.10	816.52	191728.	2.93	65454.	2549.	10.69	0.0300	0.	61.	0.10
MILE 43.70	815.85	191194.	6.65	28730.	2404.	11.88	0.0300	0.	63.	0.34
MILE 42.00	815.59	189030.	3.43	55042.	2274.	9.39	0.0300	0.	66.	0.12
MILE 39.10	814.30	185341.	4.97	37265.	2257.	11.37	0.0230	0.	63.	0.22
MILE 37.00	814.28	182968.	2.74	66714.	1693.	11.29	0.0280	0.	63.	0.08
MILE 36.00	813.85	182110.	4.83	37683.	1258.	11.85	0.0280	0.	65.	0.16
MILE 34.60	813.70	180868.	3.51	51530.	1793.	12.97	0.0280	0.	65.	0.12
MILE 33.60	813.79	179433.	1.53	117429.	3190.	12.00	0.0290	0.	71.	0.04
MILE 31.50	813.51	175917.	3.52	50020.	2520.	13.53	0.0250	0.	75.	0.14
MILE 30.10	813.40	174450.	3.18	54875.	1125.	12.82	0.0200	0.	73.	0.08
MILE 29.00	813.34	173623.	3.08	56288.	1464.	14.05	0.0200	0.	74.	0.09
MILE 27.30	813.26	172191.	3.01	57143.	1414.	14.37	0.0230	0.	76.	0.08
MILE 25.20	813.20	170464.	2.51	67829.	1401.	15.21	0.0230	0.	79.	0.06
MILE 23.10	813.07	168654.	2.92	57782.	1549.	14.37	0.0230	0.	83.	0.08

ODATE 10-11-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 9.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
INFLOW DEPTH	FROUDE									
MILE 79.80	870.96	237500.	10.89	21812.	894.	9.68	0.0290	0.	52.	0.39
MILE 77.70	868.64	236119.	8.43	28014.	1086.	10.48	0.0400	0.	58.	0.29
MILE 75.60	861.40	234116.	9.42	24843.	1900.	9.77	0.0400	0.	55.	0.46
MILE 73.50	852.29	232117.	10.27	22607.	1390.	9.82	0.0330	0.	53.	0.45
MILE 71.40	848.93	230665.	7.31	31547.	1209.	9.61	0.0400	0.	51.	0.25
MILE 69.30	844.23	229222.	7.88	29072.	1183.	9.48	0.0340	0.	46.	0.28
MILE 67.20	841.87	227031.	5.12	44321.	2621.	9.01	0.0340	0.	51.	0.22
MILE 65.10	838.43	223512.	6.70	33374.	3172.	9.38	0.0320	0.	51.	0.36
MILE 63.00	836.46	220139.	5.44	40488.	2497.	8.96	0.0400	0.	55.	0.24
MILE 60.90	831.58	217424.	7.35	29570.	2030.	9.36	0.0450	0.	55.	0.34
MILE 58.80	824.18	215464.	7.73	27885.	1445.	8.31	0.0400	0.	51.	0.31
MILE 57.00	822.43	214060.	7.89	27131.	1500.	8.79	0.0200	0.	48.	0.33

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	55.00	820.16	212484.	8.88	23928.	1445.	8.67	0.0200	0.	47.	0.38
MILE	53.10	819.35	210905.	6.12	34441.	1724.	8.73	0.0200	0.	46.	0.24
MILE	51.00	818.12	208671.	6.30	33135.	2284.	8.36	0.0200	0.	49.	0.29
MILE	48.30	817.45	203595.	4.46	45625.	4636.	9.89	0.0200	0.	49.	0.25
MILE	46.20	816.93	198173.	4.89	40560.	4688.	10.55	0.0200	0.	55.	0.29
MILE	44.10	816.89	193796.	2.92	66291.	2566.	10.71	0.0300	0.	62.	0.10
MILE	43.70	816.22	193236.	6.66	28994.	2421.	11.94	0.0300	0.	63.	0.34
MILE	42.00	815.97	190986.	3.42	55818.	2290.	9.43	0.0300	0.	66.	0.12
MILE	39.10	814.70	187176.	4.97	37683.	2275.	11.43	0.0230	0.	64.	0.22
MILE	37.00	814.68	184746.	2.74	67439.	1704.	11.36	0.0280	0.	63.	0.08
MILE	36.00	814.25	183871.	4.83	38079.	1265.	11.91	0.0280	0.	65.	0.16
MILE	34.60	814.10	182611.	3.51	52003.	1804.	13.03	0.0280	0.	66.	0.12
MILE	33.60	814.19	181154.	1.53	118610.	3211.	12.06	0.0290	0.	71.	0.04
MILE	31.50	813.91	177584.	3.52	50465.	2536.	13.58	0.0250	0.	75.	0.14
MILE	30.10	813.80	176100.	3.18	55393.	1130.	12.87	0.0200	0.	73.	0.08
MILE	29.00	813.74	175265.	3.09	56742.	1472.	14.10	0.0200	0.	74.	0.09
MILE	27.30	813.67	173823.	3.02	57587.	1421.	14.42	0.0230	0.	77.	0.08
MILE	25.20	813.61	172082.	2.52	68305.	1408.	15.27	0.0230	0.	79.	0.06
MILE	23.10	813.47	170260.	2.92	58254.	1558.	14.42	0.0230	0.	83.	0.08

ODATE 10-11-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 10.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	871.41	241667.	10.95	22073.	897.	9.70	0.0290	0.	53.	0.39
MILE	77.70	869.09	240293.	8.46	28403.	1092.	10.51	0.0400	0.	58.	0.29
MILE	75.60	861.84	238292.	9.47	25157.	1921.	9.80	0.0400	0.	55.	0.46
MILE	73.50	852.67	236273.	10.34	22854.	1406.	9.85	0.0330	0.	53.	0.45
MILE	71.40	849.31	234793.	7.34	31983.	1219.	9.67	0.0400	0.	52.	0.25
MILE	69.30	844.63	233316.	7.92	29450.	1194.	9.52	0.0340	0.	46.	0.28
MILE	67.20	842.27	231045.	5.15	44871.	2658.	9.05	0.0340	0.	52.	0.22
MILE	65.10	838.82	227384.	6.73	33785.	3207.	9.41	0.0320	0.	52.	0.37
MILE	63.00	836.84	223860.	5.45	41049.	2519.	8.99	0.0400	0.	56.	0.24
MILE	60.90	831.96	221019.	7.37	29982.	2051.	9.37	0.0450	0.	55.	0.34
MILE	58.80	824.54	218952.	7.73	28333.	1461.	8.32	0.0400	0.	51.	0.31
MILE	57.00	822.80	217467.	7.89	27579.	1518.	8.79	0.0200	0.	48.	0.33
MILE	55.00	820.52	215795.	8.89	24282.	1465.	8.66	0.0200	0.	47.	0.38
MILE	53.10	819.71	214128.	6.13	34917.	1742.	8.76	0.0200	0.	46.	0.24
MILE	51.00	818.49	211769.	6.31	33575.	2306.	8.40	0.0200	0.	49.	0.29
MILE	48.30	817.83	206456.	4.47	46195.	4686.	9.95	0.0200	0.	49.	0.25
MILE	46.20	817.31	200804.	4.89	41061.	4737.	10.59	0.0200	0.	56.	0.29
MILE	44.10	817.28	196264.	2.92	67166.	2584.	10.72	0.0300	0.	62.	0.10
MILE	43.70	816.60	195685.	6.69	29266.	2439.	11.99	0.0300	0.	64.	0.34
MILE	42.00	816.37	193372.	3.42	56622.	2308.	9.47	0.0300	0.	66.	0.12
MILE	39.10	815.10	189472.	4.97	38107.	2292.	11.48	0.0230	0.	64.	0.21
MILE	37.00	815.08	186996.	2.74	68174.	1715.	11.42	0.0280	0.	64.	0.08
MILE	36.00	814.65	186107.	4.84	38479.	1272.	11.97	0.0280	0.	66.	0.15

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 34.60	814.51	184832.	3.52	52479.	1815.	13.09	0.0280	0.	66.	0.12
MILE 33.60	814.60	183356.	1.53	119801.	3232.	12.13	0.0290	0.	72.	0.04
MILE 31.50	814.32	179746.	3.53	50913.	2551.	13.64	0.0250	0.	76.	0.14
MILE 30.10	814.20	178250.	3.19	55913.	1135.	12.92	0.0200	0.	73.	0.08
MILE 29.00	814.15	177408.	3.10	57197.	1481.	14.16	0.0200	0.	74.	0.09
MILE 27.30	814.07	175954.	3.03	58031.	1428.	14.48	0.0230	0.	77.	0.08
MILE 25.20	814.01	174201.	2.53	68782.	1415.	15.33	0.0230	0.	80.	0.06
MILE 23.10	813.87	172364.	2.93	58727.	1568.	14.46	0.0230	0.	84.	0.08

ODATE 10-11-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 11.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
INFLOW DEPTH	FROUDE									
MILE 79.80	871.85	245833.	11.00	22339.	901.	9.72	0.0290	0.	53.	0.39
MILE 77.70	869.54	244460.	8.49	28789.	1097.	10.55	0.0400	0.	59.	0.29
MILE 75.60	862.28	242440.	9.52	25467.	1942.	9.82	0.0400	0.	56.	0.46
MILE 73.50	853.05	240399.	10.41	23102.	1422.	9.88	0.0330	0.	54.	0.45
MILE 71.40	849.70	238901.	7.37	32421.	1230.	9.74	0.0400	0.	52.	0.25
MILE 69.30	845.03	237392.	7.96	29833.	1205.	9.55	0.0340	0.	46.	0.28
MILE 67.20	842.67	235077.	5.17	45432.	2697.	9.09	0.0340	0.	52.	0.22
MILE 65.10	839.21	231316.	6.76	34209.	3242.	9.44	0.0320	0.	52.	0.37
MILE 63.00	837.23	227683.	5.47	41628.	2540.	9.03	0.0400	0.	56.	0.24
MILE 60.90	832.35	224755.	7.39	30411.	2072.	9.38	0.0450	0.	56.	0.34
MILE 58.80	824.92	222614.	7.73	28804.	1478.	8.33	0.0400	0.	52.	0.31
MILE 57.00	823.18	221064.	7.88	28049.	1537.	8.79	0.0200	0.	48.	0.33
MILE 55.00	820.90	219311.	8.90	24654.	1486.	8.66	0.0200	0.	47.	0.38
MILE 53.10	820.10	217566.	6.15	35404.	1761.	8.79	0.0200	0.	47.	0.24
MILE 51.00	818.87	215119.	6.32	34033.	2328.	8.43	0.0200	0.	50.	0.29
MILE 48.30	818.22	209620.	4.48	46783.	4737.	10.02	0.0200	0.	49.	0.25
MILE 46.20	817.71	203765.	4.90	41578.	4787.	10.63	0.0200	0.	56.	0.29
MILE 44.10	817.67	199078.	2.92	68074.	2602.	10.73	0.0300	0.	62.	0.10
MILE 43.70	816.99	198482.	6.72	29545.	2458.	12.05	0.0300	0.	64.	0.34
MILE 42.00	816.77	196111.	3.41	57450.	2325.	9.50	0.0300	0.	67.	0.12
MILE 39.10	815.50	192127.	4.99	38538.	2310.	11.54	0.0230	0.	65.	0.22
MILE 37.00	815.49	189611.	2.75	68919.	1727.	11.49	0.0280	0.	64.	0.08
MILE 36.00	815.06	188709.	4.85	38883.	1279.	12.03	0.0280	0.	66.	0.16
MILE 34.60	814.91	187421.	3.54	52959.	1827.	13.15	0.0280	0.	66.	0.12
MILE 33.60	815.01	185929.	1.54	121001.	3253.	12.20	0.0290	0.	72.	0.04
MILE 31.50	814.72	182279.	3.55	51364.	2566.	13.69	0.0250	0.	76.	0.14
MILE 30.10	814.61	180769.	3.20	56437.	1139.	12.97	0.0200	0.	74.	0.08
MILE 29.00	814.55	179921.	3.12	57654.	1489.	14.22	0.0200	0.	75.	0.09
MILE 27.30	814.47	178458.	3.05	58478.	1435.	14.54	0.0230	0.	77.	0.08
MILE 25.20	814.41	176696.	2.55	69260.	1422.	15.39	0.0230	0.	80.	0.06
MILE 23.10	814.27	174851.	2.95	59202.	1577.	14.51	0.0230	0.	84.	0.08

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 280 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

0DATE 10-11-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 12.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	872.30	250000.	11.06	22608.	904.	9.75	0.0290	0.	54.	0.39
MILE 77.70	869.99	248621.	8.52	29175.	1102.	10.58	0.0400	0.	59.	0.29
MILE 75.60	862.70	246579.	9.57	25771.	1961.	9.85	0.0400	0.	56.	0.47
MILE 73.50	853.43	244492.	10.47	23347.	1437.	9.92	0.0330	0.	54.	0.46
MILE 71.40	850.09	242954.	7.39	32860.	1240.	9.80	0.0400	0.	52.	0.25
MILE 69.30	845.44	241418.	7.99	30197.	1216.	9.59	0.0340	0.	47.	0.28
MILE 67.20	843.07	239051.	5.20	46001.	2735.	9.13	0.0340	0.	52.	0.22
MILE 65.10	839.60	235215.	6.79	34640.	3278.	9.47	0.0320	0.	53.	0.37
MILE 63.00	837.63	231488.	5.48	42219.	2562.	9.06	0.0400	0.	57.	0.24
MILE 60.90	832.75	228460.	7.41	30851.	2093.	9.39	0.0450	0.	56.	0.34
MILE 58.80	825.30	226170.	7.73	29245.	1496.	8.33	0.0400	0.	52.	0.31
MILE 57.00	823.57	224626.	7.87	28542.	1556.	8.79	0.0200	0.	49.	0.32
MILE 55.00	821.29	222861.	8.90	25046.	1507.	8.66	0.0200	0.	48.	0.38
MILE 53.10	820.48	221091.	6.16	35875.	1787.	8.81	0.0200	0.	47.	0.24
MILE 51.00	819.27	218593.	6.34	34504.	2351.	8.47	0.0200	0.	50.	0.29
MILE 48.30	818.62	212943.	4.49	47385.	4790.	10.09	0.0200	0.	50.	0.25
MILE 46.20	818.11	206938.	4.91	42109.	4839.	10.68	0.0200	0.	56.	0.29
MILE 44.10	818.08	202141.	2.93	69009.	2621.	10.75	0.0300	0.	63.	0.10
MILE 43.70	817.38	201534.	6.76	29829.	2477.	12.10	0.0300	0.	64.	0.34
MILE 42.00	817.17	199121.	3.42	58296.	2343.	9.54	0.0300	0.	67.	0.12
MILE 39.10	815.91	195077.	5.01	38974.	2328.	11.59	0.0230	0.	65.	0.22
MILE 37.00	815.90	192528.	2.76	69671.	1738.	11.56	0.0280	0.	65.	0.08
MILE 36.00	815.47	191616.	4.88	39293.	1286.	12.08	0.0280	0.	66.	0.16
MILE 34.60	815.32	190319.	3.56	53444.	1838.	13.20	0.0280	0.	67.	0.12
MILE 33.60	815.42	188814.	1.54	122213.	3275.	12.27	0.0290	0.	73.	0.04
MILE 31.50	815.13	185137.	3.57	51818.	2582.	13.74	0.0250	0.	76.	0.14
MILE 30.10	815.01	183617.	3.22	56963.	1144.	13.02	0.0200	0.	74.	0.08
MILE 29.00	814.96	182765.	3.15	58112.	1497.	14.28	0.0200	0.	75.	0.09
MILE 27.30	814.88	181293.	3.08	58925.	1442.	14.60	0.0230	0.	78.	0.08
MILE 25.20	814.81	179522.	2.57	69739.	1429.	15.45	0.0230	0.	80.	0.06
MILE 23.10	814.67	177666.	2.98	59678.	1587.	14.56	0.0230	0.	85.	0.09

0DATE 10-11-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 13.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	872.76	254167.	11.11	22887.	908.	9.77	0.0290	0.	54.	0.39
MILE 77.70	870.44	252754.	8.56	29534.	1107.	10.61	0.0400	0.	60.	0.29
MILE 75.60	863.13	250722.	9.61	26080.	1981.	9.87	0.0400	0.	57.	0.47
MILE 73.50	853.80	248609.	10.54	23594.	1453.	9.95	0.0330	0.	55.	0.46
MILE 71.40	850.48	247040.	7.42	33308.	1251.	9.87	0.0400	0.	53.	0.25

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 281 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 69.30	845.84	245474.	8.03	30564.	1227.	9.63	0.0340	0.	47.	0.28
MILE 67.20	843.48	243047.	5.22	46576.	2773.	9.16	0.0340	0.	53.	0.22
MILE 65.10	840.00	239115.	6.82	35073.	3314.	9.50	0.0320	0.	53.	0.37
MILE 63.00	838.03	235301.	5.50	42816.	2584.	9.09	0.0400	0.	57.	0.24
MILE 60.90	833.15	232215.	7.42	31300.	2115.	9.41	0.0450	0.	57.	0.34
MILE 58.80	825.69	229884.	7.74	29691.	1513.	8.33	0.0400	0.	53.	0.31
MILE 57.00	823.97	228302.	7.86	29058.	1576.	8.79	0.0200	0.	49.	0.32
MILE 55.00	821.69	226493.	8.90	25457.	1529.	8.66	0.0200	0.	48.	0.38
MILE 53.10	820.88	224677.	6.18	36361.	1814.	8.84	0.0200	0.	48.	0.24
MILE 51.00	819.66	222113.	6.35	34988.	2374.	8.51	0.0200	0.	50.	0.29
MILE 48.30	819.02	216367.	4.51	47997.	4843.	10.16	0.0200	0.	50.	0.25
MILE 46.20	818.51	210241.	4.93	42649.	4891.	10.72	0.0200	0.	57.	0.29
MILE 44.10	818.48	205363.	2.94	69961.	2639.	10.77	0.0300	0.	63.	0.10
MILE 43.70	817.78	204747.	6.80	30116.	2495.	12.16	0.0300	0.	65.	0.34
MILE 42.00	817.58	202307.	3.42	59155.	2361.	9.58	0.0300	0.	68.	0.12
MILE 39.10	816.32	198220.	5.03	39413.	2347.	11.65	0.0230	0.	65.	0.22
MILE 37.00	816.31	195647.	2.78	70427.	1749.	11.62	0.0280	0.	65.	0.08
MILE 36.00	815.87	194730.	4.90	39704.	1293.	12.14	0.0280	0.	67.	0.16
MILE 34.60	815.73	193425.	3.59	53931.	1850.	13.26	0.0280	0.	67.	0.12
MILE 33.60	815.83	191909.	1.55	123428.	3296.	12.34	0.0290	0.	73.	0.04
MILE 31.50	815.54	188210.	3.60	52272.	2597.	13.80	0.0250	0.	77.	0.14
MILE 30.10	815.42	186681.	3.25	57490.	1149.	13.07	0.0200	0.	75.	0.08
MILE 29.00	815.36	185825.	3.17	58571.	1505.	14.34	0.0200	0.	76.	0.09
MILE 27.30	815.28	184348.	3.10	59373.	1449.	14.66	0.0230	0.	78.	0.09
MILE 25.20	815.22	182569.	2.60	70219.	1436.	15.51	0.0230	0.	81.	0.07
MILE 23.10	815.08	180704.	3.00	60155.	1596.	14.61	0.0230	0.	85.	0.09

0DATE 10-11-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 14.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	873.22	258333.	11.15	23167.	912.	9.80	0.0290	0.	55.	0.39
MILE 77.70	870.90	256925.	8.59	29895.	1111.	10.64	0.0400	0.	60.	0.29
MILE 75.60	863.55	254889.	9.66	26393.	2001.	9.89	0.0400	0.	57.	0.47
MILE 73.50	854.18	252748.	10.60	23844.	1469.	9.99	0.0330	0.	55.	0.46
MILE 71.40	850.87	251151.	7.44	33761.	1261.	9.93	0.0400	0.	53.	0.25
MILE 69.30	846.24	249559.	8.07	30935.	1238.	9.66	0.0340	0.	48.	0.28
MILE 67.20	843.89	247071.	5.24	47157.	2812.	9.20	0.0340	0.	53.	0.23
MILE 65.10	840.40	243041.	6.85	35484.	3357.	9.53	0.0320	0.	53.	0.37
MILE 63.00	838.43	239204.	5.51	43420.	2606.	9.13	0.0400	0.	57.	0.24
MILE 60.90	833.55	236038.	7.43	31756.	2137.	9.42	0.0450	0.	57.	0.34
MILE 58.80	826.09	233695.	7.75	30148.	1531.	8.33	0.0400	0.	53.	0.31
MILE 57.00	824.38	232087.	7.84	29587.	1596.	8.79	0.0200	0.	50.	0.32
MILE 55.00	822.10	230240.	8.90	25879.	1552.	8.66	0.0200	0.	49.	0.38
MILE 53.10	821.28	228379.	6.20	36858.	1841.	8.87	0.0200	0.	48.	0.24
MILE 51.00	820.07	225751.	6.36	35478.	2399.	8.55	0.0200	0.	51.	0.29
MILE 48.30	819.43	219921.	4.52	48617.	4897.	10.23	0.0200	0.	51.	0.25

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 282 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	46.20	818.92	213687.	4.95	43198.	4944.	10.77	0.0200	0.	57.	0.29
MILE	44.10	818.89	208727.	2.94	70934.	2658.	10.78	0.0300	0.	64.	0.10
MILE	43.70	818.18	208104.	6.84	30406.	2515.	12.22	0.0300	0.	65.	0.35
MILE	42.00	817.99	205635.	3.43	60028.	2378.	9.61	0.0300	0.	68.	0.12
MILE	39.10	816.73	201504.	5.06	39856.	2365.	11.70	0.0230	0.	66.	0.22
MILE	37.00	816.72	198909.	2.79	71187.	1761.	11.69	0.0280	0.	65.	0.08
MILE	36.00	816.28	197983.	4.94	40117.	1300.	12.20	0.0280	0.	67.	0.16
MILE	34.60	816.14	196669.	3.61	54420.	1861.	13.32	0.0280	0.	68.	0.12
MILE	33.60	816.24	195142.	1.57	124648.	3317.	12.40	0.0290	0.	73.	0.05
MILE	31.50	815.94	191415.	3.63	52729.	2613.	13.85	0.0250	0.	77.	0.14
MILE	30.10	815.83	189875.	3.27	58020.	1153.	13.11	0.0200	0.	75.	0.08
MILE	29.00	815.77	189014.	3.20	59031.	1514.	14.40	0.0200	0.	76.	0.09
MILE	27.30	815.68	187527.	3.13	59822.	1457.	14.71	0.0230	0.	79.	0.09
MILE	25.20	815.62	185740.	2.63	70698.	1443.	15.57	0.0230	0.	81.	0.07
MILE	23.10	815.48	183865.	3.03	60634.	1606.	14.65	0.0230	0.	85.	0.09

ODATE 10-11-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 15.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	873.67	262500.	11.19	23448.	915.	9.82	0.0290	0.	55.	0.39
MILE	77.70	871.35	261099.	8.63	30255.	1116.	10.66	0.0400	0.	61.	0.29
MILE	75.60	863.98	259067.	9.70	26707.	2021.	9.92	0.0400	0.	57.	0.47
MILE	73.50	854.55	256915.	10.66	24096.	1484.	10.02	0.0330	0.	55.	0.47
MILE	71.40	851.26	255307.	7.46	34217.	1272.	9.99	0.0400	0.	53.	0.25
MILE	69.30	846.65	253704.	8.10	31312.	1249.	9.70	0.0340	0.	48.	0.29
MILE	67.20	844.30	251183.	5.26	47750.	2851.	9.24	0.0340	0.	54.	0.23
MILE	65.10	840.80	247084.	6.88	35906.	3402.	9.56	0.0320	0.	54.	0.37
MILE	63.00	838.84	243148.	5.52	44047.	2629.	9.16	0.0400	0.	58.	0.24
MILE	60.90	833.93	239913.	7.45	32200.	2158.	9.44	0.0450	0.	57.	0.34
MILE	58.80	826.48	237524.	7.76	30606.	1549.	8.34	0.0400	0.	53.	0.31
MILE	57.00	824.79	235888.	7.83	30121.	1615.	8.80	0.0200	0.	50.	0.32
MILE	55.00	822.50	234009.	8.89	26309.	1574.	8.66	0.0200	0.	49.	0.38
MILE	53.10	821.68	232114.	6.21	37363.	1868.	8.90	0.0200	0.	48.	0.24
MILE	51.00	820.47	229453.	6.38	35953.	2432.	8.59	0.0200	0.	51.	0.29
MILE	48.30	819.84	223532.	4.54	49244.	4951.	10.29	0.0200	0.	51.	0.25
MILE	46.20	819.33	217207.	4.96	43754.	4996.	10.81	0.0200	0.	58.	0.30
MILE	44.10	819.31	212185.	2.95	71923.	2677.	10.80	0.0300	0.	64.	0.10
MILE	43.70	818.59	211556.	6.89	30699.	2534.	12.27	0.0300	0.	66.	0.35
MILE	42.00	818.41	209064.	3.43	60914.	2397.	9.65	0.0300	0.	68.	0.12
MILE	39.10	817.14	204900.	5.08	40301.	2383.	11.75	0.0230	0.	66.	0.22
MILE	37.00	817.14	202286.	2.81	71951.	1772.	11.76	0.0280	0.	66.	0.08
MILE	36.00	816.69	201355.	4.97	40533.	1307.	12.25	0.0280	0.	68.	0.16
MILE	34.60	816.55	200035.	3.64	54911.	1873.	13.37	0.0280	0.	68.	0.12
MILE	33.60	816.65	198499.	1.58	125873.	3339.	12.47	0.0290	0.	74.	0.05
MILE	31.50	816.35	194754.	3.66	53187.	2628.	13.90	0.0250	0.	78.	0.14
MILE	30.10	816.23	193206.	3.30	58553.	1158.	13.16	0.0200	0.	75.	0.08

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	29.00	816.17	192342.	3.23	59492.	1522.	14.45	0.0200	0.	76.	0.09
MILE	27.30	816.09	190850.	3.17	60272.	1464.	14.77	0.0230	0.	79.	0.09
MILE	25.20	816.02	189056.	2.66	71179.	1450.	15.63	0.0230	0.	82.	0.07
MILE	23.10	815.88	187174.	3.06	61113.	1615.	14.70	0.0230	0.	86.	0.09

0DATE 10-11-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 16.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE	79.80	874.12	266667.	11.24	23728.	919.	9.85	0.0290	0.	55.	0.39
MILE	77.70	871.79	265278.	8.66	30615.	1120.	10.69	0.0400	0.	61.	0.29
MILE	75.60	864.40	263256.	9.74	27022.	2041.	9.94	0.0400	0.	58.	0.47
MILE	73.50	854.93	261097.	10.72	24350.	1500.	10.05	0.0330	0.	56.	0.47
MILE	71.40	851.65	259476.	7.48	34677.	1283.	10.05	0.0400	0.	54.	0.25
MILE	69.30	847.06	257861.	8.14	31693.	1260.	9.74	0.0340	0.	48.	0.29
MILE	67.20	844.72	255303.	5.28	48350.	2890.	9.28	0.0340	0.	54.	0.23
MILE	65.10	841.21	251138.	6.91	36334.	3446.	9.59	0.0320	0.	54.	0.38
MILE	63.00	839.25	247145.	5.53	44679.	2651.	9.20	0.0400	0.	58.	0.24
MILE	60.90	834.32	243876.	7.47	32651.	2179.	9.45	0.0450	0.	58.	0.34
MILE	58.80	826.88	241434.	7.77	31076.	1567.	8.34	0.0400	0.	54.	0.31
MILE	57.00	825.19	239747.	7.83	30635.	1635.	8.80	0.0200	0.	50.	0.32
MILE	55.00	822.91	237825.	8.89	26746.	1597.	8.66	0.0200	0.	49.	0.38
MILE	53.10	822.08	235910.	6.23	37874.	1895.	8.93	0.0200	0.	49.	0.25
MILE	51.00	820.88	233220.	6.40	36432.	2466.	8.63	0.0200	0.	52.	0.29
MILE	48.30	820.26	227226.	4.56	49871.	5016.	10.36	0.0200	0.	51.	0.25
MILE	46.20	819.75	220805.	4.98	44314.	5050.	10.85	0.0200	0.	58.	0.30
MILE	44.10	819.72	215718.	2.96	72923.	2696.	10.82	0.0300	0.	65.	0.10
MILE	43.70	818.99	215082.	6.94	30993.	2553.	12.33	0.0300	0.	66.	0.35
MILE	42.00	818.82	212571.	3.44	61808.	2415.	9.69	0.0300	0.	69.	0.12
MILE	39.10	817.55	208375.	5.11	40748.	2401.	11.81	0.0230	0.	67.	0.22
MILE	37.00	817.55	205745.	2.83	72716.	1784.	11.82	0.0280	0.	66.	0.08
MILE	36.00	817.10	204810.	5.00	40950.	1315.	12.31	0.0280	0.	68.	0.16
MILE	34.60	816.96	203484.	3.67	55403.	1884.	13.43	0.0280	0.	68.	0.12
MILE	33.60	817.06	201941.	1.59	127100.	3360.	12.54	0.0290	0.	74.	0.05
MILE	31.50	816.76	198180.	3.69	53646.	2644.	13.95	0.0250	0.	78.	0.14
MILE	30.10	816.64	196625.	3.33	59087.	1163.	13.21	0.0200	0.	76.	0.08
MILE	29.00	816.58	195757.	3.27	59954.	1530.	14.51	0.0200	0.	77.	0.09
MILE	27.30	816.49	194260.	3.20	60722.	1471.	14.83	0.0230	0.	79.	0.09
MILE	25.20	816.43	192459.	2.69	71660.	1457.	15.68	0.0230	0.	82.	0.07
MILE	23.10	816.28	190569.	3.09	61595.	1625.	14.75	0.0230	0.	86.	0.09

0DATE 10-11-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 284 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

TIME 17.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	874.56	270833.	11.28	24009.	922.	9.87	0.0290	0.	56.	0.39
MILE 77.70	872.23	269448.	8.70	30974.	1125.	10.72	0.0400	0.	62.	0.29
MILE 75.60	864.82	267421.	9.78	27338.	2061.	9.97	0.0400	0.	58.	0.47
MILE 73.50	855.31	265230.	10.78	24597.	1516.	10.09	0.0330	0.	56.	0.47
MILE 71.40	852.04	263610.	7.50	35137.	1293.	10.11	0.0400	0.	54.	0.25
MILE 69.30	847.47	261990.	8.17	32075.	1271.	9.78	0.0340	0.	49.	0.29
MILE 67.20	845.13	259403.	5.30	48943.	2929.	9.32	0.0340	0.	54.	0.23
MILE 65.10	841.61	255211.	6.94	36764.	3490.	9.62	0.0320	0.	55.	0.38
MILE 63.00	839.66	251192.	5.54	45317.	2674.	9.23	0.0400	0.	59.	0.24
MILE 60.90	834.71	247905.	7.49	33115.	2200.	9.47	0.0450	0.	58.	0.34
MILE 58.80	827.28	245439.	7.78	31562.	1585.	8.35	0.0400	0.	54.	0.31
MILE 57.00	825.59	243724.	7.83	31126.	1655.	8.79	0.0200	0.	51.	0.32
MILE 55.00	823.32	241780.	8.89	27190.	1619.	8.67	0.0200	0.	50.	0.38
MILE 53.10	822.49	239812.	6.25	38391.	1922.	8.95	0.0200	0.	49.	0.25
MILE 51.00	821.29	237067.	6.42	36917.	2500.	8.67	0.0200	0.	52.	0.29
MILE 48.30	820.67	230962.	4.57	50499.	5087.	10.43	0.0200	0.	52.	0.26
MILE 46.20	820.16	224446.	5.00	44875.	5107.	10.90	0.0200	0.	58.	0.30
MILE 44.10	820.14	219303.	2.97	73917.	2716.	10.83	0.0300	0.	65.	0.10
MILE 43.70	819.40	218663.	6.99	31287.	2572.	12.39	0.0300	0.	66.	0.35
MILE 42.00	819.24	216135.	3.45	62709.	2433.	9.73	0.0300	0.	69.	0.12
MILE 39.10	817.97	211914.	5.14	41197.	2420.	11.86	0.0230	0.	67.	0.22
MILE 37.00	817.96	209266.	2.85	73483.	1795.	11.89	0.0280	0.	67.	0.08
MILE 36.00	817.51	208326.	5.04	41367.	1322.	12.36	0.0280	0.	69.	0.16
MILE 34.60	817.37	206992.	3.70	55896.	1896.	13.48	0.0280	0.	69.	0.12
MILE 33.60	817.47	205438.	1.60	128328.	3382.	12.61	0.0290	0.	75.	0.05
MILE 31.50	817.17	201653.	3.73	54106.	2659.	14.00	0.0250	0.	78.	0.15
MILE 30.10	817.05	200087.	3.36	59622.	1167.	13.25	0.0200	0.	76.	0.08
MILE 29.00	816.98	199214.	3.30	60416.	1538.	14.57	0.0200	0.	77.	0.09
MILE 27.30	816.90	197709.	3.23	61173.	1478.	14.88	0.0230	0.	80.	0.09
MILE 25.20	816.83	195899.	2.72	72141.	1463.	15.74	0.0230	0.	82.	0.07
MILE 23.10	816.68	193997.	3.13	62077.	1634.	14.79	0.0230	0.	87.	0.09

ODATE 10-11-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 18.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	875.00	275000.	11.32	24290.	926.	9.90	0.0290	0.	56.	0.39
MILE 77.70	872.67	273606.	8.73	31335.	1129.	10.75	0.0400	0.	62.	0.29
MILE 75.60	865.24	271545.	9.82	27651.	2080.	9.99	0.0400	0.	59.	0.47
MILE 73.50	855.68	269358.	10.84	24842.	1533.	10.12	0.0330	0.	56.	0.47
MILE 71.40	852.43	267733.	7.52	35598.	1304.	10.17	0.0400	0.	55.	0.25
MILE 69.30	847.87	266113.	8.20	32457.	1282.	9.81	0.0340	0.	49.	0.29
MILE 67.20	845.54	263513.	5.32	49515.	2968.	9.36	0.0340	0.	55.	0.23
MILE 65.10	842.01	259300.	6.97	37196.	3534.	9.65	0.0320	0.	55.	0.38

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 285 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	63.00	840.07	255171.	5.55	46011.	2696.	9.24	0.0400	0.	59.	0.24
MILE	60.90	835.11	251930.	7.50	33580.	2222.	9.48	0.0450	0.	59.	0.34
MILE	58.80	827.68	249482.	7.78	32053.	1603.	8.36	0.0400	0.	55.	0.31
MILE	57.00	825.99	247753.	7.83	31625.	1674.	8.78	0.0200	0.	51.	0.32
MILE	55.00	823.73	245795.	8.89	27642.	1642.	8.67	0.0200	0.	50.	0.38
MILE	53.10	822.89	243794.	6.26	38914.	1950.	8.98	0.0200	0.	50.	0.25
MILE	51.00	821.69	241009.	6.44	37405.	2534.	8.71	0.0200	0.	52.	0.30
MILE	48.30	821.08	234798.	4.59	51131.	5158.	10.50	0.0200	0.	52.	0.26
MILE	46.20	820.57	228185.	5.02	45435.	5173.	10.94	0.0200	0.	59.	0.30
MILE	44.10	820.55	222967.	2.98	74889.	2736.	10.85	0.0300	0.	65.	0.10
MILE	43.70	819.80	222320.	7.04	31582.	2592.	12.44	0.0300	0.	67.	0.36
MILE	42.00	819.65	219766.	3.45	63619.	2451.	9.77	0.0300	0.	70.	0.12
MILE	39.10	818.38	215499.	5.17	41648.	2438.	11.91	0.0230	0.	67.	0.22
MILE	37.00	818.38	212827.	2.87	74252.	1807.	11.96	0.0280	0.	67.	0.08
MILE	36.00	817.92	211878.	5.07	41787.	1329.	12.42	0.0280	0.	69.	0.16
MILE	34.60	817.78	210535.	3.73	56391.	1907.	13.54	0.0280	0.	69.	0.12
MILE	33.60	817.89	208969.	1.61	129558.	3403.	12.67	0.0290	0.	75.	0.05
MILE	31.50	817.57	205157.	3.76	54568.	2675.	14.06	0.0250	0.	79.	0.15
MILE	30.10	817.45	203580.	3.38	60160.	1172.	13.30	0.0200	0.	77.	0.08
MILE	29.00	817.39	202702.	3.33	60879.	1547.	14.63	0.0200	0.	78.	0.09
MILE	27.30	817.30	201189.	3.26	61625.	1485.	14.94	0.0230	0.	80.	0.09
MILE	25.20	817.23	199371.	2.75	72622.	1470.	15.80	0.0230	0.	83.	0.07
MILE	23.10	817.08	197461.	3.16	62561.	1644.	14.84	0.0230	0.	87.	0.09

0DATE 10-11-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	19.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL	
INFLOW	DEPTH	FROUDE									
MILE	79.80	875.44	279167.	11.36	24574.	930.	9.92	0.0290	0.	57.	0.39
MILE	77.70	873.11	277771.	8.76	31700.	1134.	10.78	0.0400	0.	62.	0.29
MILE	75.60	865.67	275694.	9.86	27966.	2100.	10.01	0.0400	0.	59.	0.48
MILE	73.50	856.05	273467.	10.90	25087.	1549.	10.15	0.0330	0.	57.	0.48
MILE	71.40	852.82	271800.	7.54	36056.	1314.	10.23	0.0400	0.	55.	0.25
MILE	69.30	848.27	270136.	8.23	32837.	1292.	9.85	0.0340	0.	50.	0.29
MILE	67.20	845.95	267436.	5.34	50085.	3007.	9.40	0.0340	0.	55.	0.23
MILE	65.10	842.42	263045.	6.99	37632.	3578.	9.68	0.0320	0.	55.	0.38
MILE	63.00	840.49	258764.	5.50	47040.	2712.	9.12	0.0400	0.	59.	0.23
MILE	60.90	835.52	255664.	7.51	34048.	2244.	9.49	0.0450	0.	59.	0.34
MILE	58.80	828.07	253311.	7.79	32536.	1620.	8.37	0.0400	0.	55.	0.31
MILE	57.00	826.38	251607.	7.83	32119.	1693.	8.78	0.0200	0.	52.	0.32
MILE	55.00	824.13	249650.	8.89	28093.	1664.	8.68	0.0200	0.	51.	0.38
MILE	53.10	823.30	247641.	6.28	39437.	1977.	9.01	0.0200	0.	50.	0.25
MILE	51.00	822.10	244848.	6.46	37895.	2567.	8.75	0.0200	0.	53.	0.30
MILE	48.30	821.49	238578.	4.61	51762.	5229.	10.56	0.0200	0.	53.	0.26
MILE	46.20	820.99	231911.	5.04	45998.	5239.	10.98	0.0200	0.	59.	0.30
MILE	44.10	820.97	226665.	2.99	75872.	2756.	10.86	0.0300	0.	66.	0.10
MILE	43.70	820.21	226017.	7.09	31878.	2612.	12.50	0.0300	0.	67.	0.36

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 286 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 42.00	820.07	223448.	3.46	64549.	2470.	9.80	0.0300	0.	70.	0.12
MILE 39.10	818.79	219151.	5.21	42101.	2456.	11.97	0.0230	0.	68.	0.22
MILE 37.00	818.79	216458.	2.89	75024.	1818.	12.02	0.0280	0.	67.	0.08
MILE 36.00	818.33	215503.	5.11	42208.	1336.	12.47	0.0280	0.	69.	0.16
MILE 34.60	818.19	214152.	3.76	56887.	1919.	13.59	0.0280	0.	70.	0.12
MILE 33.60	818.30	212575.	1.63	130792.	3425.	12.74	0.0290	0.	75.	0.05
MILE 31.50	817.98	208740.	3.79	55031.	2690.	14.11	0.0250	0.	79.	0.15
MILE 30.10	817.86	207153.	3.41	60700.	1177.	13.34	0.0200	0.	77.	0.08
MILE 29.00	817.79	206270.	3.36	61343.	1555.	14.68	0.0200	0.	78.	0.09
MILE 27.30	817.70	204748.	3.30	62077.	1492.	14.99	0.0230	0.	81.	0.09
MILE 25.20	817.64	202920.	2.78	73104.	1477.	15.86	0.0230	0.	83.	0.07
MILE 23.10	817.48	200998.	3.19	63046.	1653.	14.88	0.0230	0.	87.	0.09

0DATE 10-11-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 20.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	875.88	283333.	11.40	24861.	933.	9.95	0.0290	0.	57.	0.39
MILE 77.70	873.54	281940.	8.79	32066.	1139.	10.81	0.0400	0.	63.	0.29
MILE 75.60	866.09	279859.	9.90	28283.	2120.	10.03	0.0400	0.	60.	0.48
MILE 73.50	856.43	277609.	10.96	25334.	1565.	10.18	0.0330	0.	57.	0.48
MILE 71.40	853.20	275924.	7.56	36517.	1325.	10.29	0.0400	0.	55.	0.25
MILE 69.30	848.68	274248.	8.25	33223.	1303.	9.89	0.0340	0.	50.	0.29
MILE 67.20	846.36	271522.	5.36	50669.	3046.	9.44	0.0340	0.	56.	0.23
MILE 65.10	842.83	267077.	7.01	38082.	3624.	9.71	0.0320	0.	56.	0.38
MILE 63.00	840.91	262739.	5.46	48087.	2729.	9.01	0.0400	0.	60.	0.23
MILE 60.90	835.92	259580.	7.52	34524.	2266.	9.50	0.0450	0.	59.	0.34
MILE 58.80	828.46	257205.	7.79	33027.	1638.	8.37	0.0400	0.	55.	0.31
MILE 57.00	826.77	255462.	7.83	32625.	1713.	8.77	0.0200	0.	52.	0.32
MILE 55.00	824.53	253495.	8.88	28548.	1686.	8.69	0.0200	0.	51.	0.38
MILE 53.10	823.70	251445.	6.29	39963.	2003.	9.04	0.0200	0.	50.	0.25
MILE 51.00	822.50	248619.	6.48	38385.	2601.	8.79	0.0200	0.	53.	0.30
MILE 48.30	821.90	242294.	4.62	52391.	5299.	10.63	0.0200	0.	53.	0.26
MILE 46.20	821.40	235568.	5.06	46560.	5304.	11.01	0.0200	0.	60.	0.30
MILE 44.10	821.38	230276.	3.00	76856.	2776.	10.87	0.0300	0.	66.	0.10
MILE 43.70	820.61	229622.	7.14	32173.	2635.	12.55	0.0300	0.	68.	0.36
MILE 42.00	820.48	227034.	3.46	65548.	2496.	9.81	0.0300	0.	70.	0.12
MILE 39.10	819.20	222735.	5.23	42553.	2475.	12.02	0.0230	0.	68.	0.22
MILE 37.00	819.21	220042.	2.90	75793.	1830.	12.09	0.0280	0.	68.	0.08
MILE 36.00	818.74	219088.	5.14	42629.	1343.	12.52	0.0280	0.	70.	0.16
MILE 34.60	818.60	217737.	3.79	57383.	1930.	13.64	0.0280	0.	70.	0.12
MILE 33.60	818.71	216159.	1.64	132023.	3446.	12.80	0.0290	0.	76.	0.05
MILE 31.50	818.39	212322.	3.83	55494.	2706.	14.16	0.0250	0.	80.	0.15
MILE 30.10	818.26	210731.	3.44	61241.	1181.	13.39	0.0200	0.	77.	0.08
MILE 29.00	818.20	209846.	3.40	61807.	1563.	14.74	0.0200	0.	78.	0.10
MILE 27.30	818.11	208320.	3.33	62530.	1500.	15.05	0.0230	0.	81.	0.09
MILE 25.20	818.04	206485.	2.81	73586.	1484.	15.92	0.0230	0.	84.	0.07

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 23.10 817.88 204553. 3.22 63533. 1663. 14.93 0.0230 0. 88. 0.09

ODATE 10-11-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 21.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	876.32	287500.	11.43	25146.	937.	9.97	0.0290	0.	58.	0.39
MILE 77.70	873.98	286120.	8.82	32432.	1143.	10.84	0.0400	0.	63.	0.29
MILE 75.60	866.51	284055.	9.93	28603.	2140.	10.05	0.0400	0.	60.	0.48
MILE 73.50	856.80	281805.	11.01	25585.	1581.	10.21	0.0330	0.	58.	0.48
MILE 71.40	853.60	280115.	7.57	36986.	1335.	10.35	0.0400	0.	56.	0.25
MILE 69.30	849.09	278435.	8.28	33618.	1314.	9.93	0.0340	0.	50.	0.29
MILE 67.20	846.78	275692.	5.38	51260.	3085.	9.48	0.0340	0.	56.	0.23
MILE 65.10	843.25	271214.	7.04	38537.	3669.	9.74	0.0320	0.	56.	0.38
MILE 63.00	841.33	266864.	5.43	49168.	2745.	8.92	0.0400	0.	60.	0.23
MILE 60.90	836.34	263656.	7.53	35011.	2289.	9.51	0.0450	0.	60.	0.34
MILE 58.80	828.86	261240.	7.79	33535.	1656.	8.39	0.0400	0.	56.	0.31
MILE 57.00	827.18	259477.	7.83	33147.	1732.	8.77	0.0200	0.	52.	0.32
MILE 55.00	824.93	257470.	8.88	29008.	1708.	8.70	0.0200	0.	51.	0.38
MILE 53.10	824.09	255389.	6.31	40492.	2030.	9.07	0.0200	0.	51.	0.25
MILE 51.00	822.90	252518.	6.50	38876.	2634.	8.83	0.0200	0.	54.	0.30
MILE 48.30	822.31	246081.	4.64	53016.	5369.	10.70	0.0200	0.	53.	0.26
MILE 46.20	821.80	239274.	5.08	47123.	5368.	11.05	0.0200	0.	60.	0.30
MILE 44.10	821.79	233919.	3.00	77846.	2795.	10.88	0.0300	0.	67.	0.10
MILE 43.70	821.01	233260.	7.18	32467.	2657.	12.61	0.0300	0.	68.	0.36
MILE 42.00	820.89	230641.	3.47	66554.	2522.	9.83	0.0300	0.	71.	0.12
MILE 39.10	819.61	226304.	5.26	43006.	2493.	12.07	0.0230	0.	69.	0.22
MILE 37.00	819.62	223590.	2.92	76562.	1841.	12.15	0.0280	0.	68.	0.08
MILE 36.00	819.15	222629.	5.17	43050.	1350.	12.58	0.0280	0.	70.	0.16
MILE 34.60	819.00	221267.	3.82	57879.	1942.	13.70	0.0280	0.	71.	0.12
MILE 33.60	819.12	219677.	1.65	133255.	3467.	12.87	0.0290	0.	76.	0.05
MILE 31.50	818.79	215813.	3.86	55958.	2721.	14.21	0.0250	0.	80.	0.15
MILE 30.10	818.67	214211.	3.47	61784.	1186.	13.43	0.0200	0.	78.	0.08
MILE 29.00	818.60	213322.	3.43	62271.	1571.	14.80	0.0200	0.	79.	0.10
MILE 27.30	818.51	211787.	3.36	62983.	1507.	15.11	0.0230	0.	81.	0.09
MILE 25.20	818.44	209944.	2.83	74069.	1491.	15.98	0.0230	0.	84.	0.07
MILE 23.10	818.29	208003.	3.25	64020.	1672.	14.98	0.0230	0.	88.	0.09

ODATE 10-11-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 22.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80 876.75 291667. 11.47 25430. 940. 10.00 0.0290 0. 58. 0.39

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 288 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	77.70	874.41	290302.	8.85	32797.	1147.	10.86	0.0400	0.	64.	0.29
MILE	75.60	866.93	288256.	9.97	28923.	2160.	10.07	0.0400	0.	60.	0.48
MILE	73.50	857.18	286013.	11.07	25838.	1597.	10.24	0.0330	0.	58.	0.48
MILE	71.40	853.99	284324.	7.59	37457.	1346.	10.41	0.0400	0.	56.	0.25
MILE	69.30	849.49	282648.	8.31	34015.	1325.	9.96	0.0340	0.	51.	0.29
MILE	67.20	847.19	279900.	5.40	51853.	3124.	9.52	0.0340	0.	56.	0.23
MILE	65.10	843.66	275409.	7.06	38994.	3714.	9.78	0.0320	0.	57.	0.38
MILE	63.00	841.75	271060.	5.39	50276.	2762.	8.83	0.0400	0.	61.	0.22
MILE	60.90	836.75	267806.	7.54	35507.	2312.	9.52	0.0450	0.	60.	0.34
MILE	58.80	829.26	265333.	7.79	34052.	1674.	8.40	0.0400	0.	56.	0.30
MILE	57.00	827.58	263508.	7.82	33681.	1752.	8.77	0.0200	0.	53.	0.31
MILE	55.00	825.32	261421.	8.88	29435.	1730.	8.70	0.0200	0.	52.	0.38
MILE	53.10	824.50	259320.	6.32	41028.	2057.	9.10	0.0200	0.	51.	0.25
MILE	51.00	823.30	256412.	6.51	39371.	2667.	8.87	0.0200	0.	54.	0.30
MILE	48.30	822.72	249905.	4.66	53644.	5439.	10.76	0.0200	0.	54.	0.26
MILE	46.20	822.21	243019.	5.10	47689.	5433.	11.09	0.0200	0.	60.	0.30
MILE	44.10	822.20	237615.	3.01	78844.	2815.	10.90	0.0300	0.	67.	0.10
MILE	43.70	821.41	236952.	7.23	32762.	2679.	12.66	0.0300	0.	68.	0.36
MILE	42.00	821.31	234306.	3.47	67572.	2548.	9.84	0.0300	0.	71.	0.12
MILE	39.10	820.02	229910.	5.29	43461.	2511.	12.12	0.0230	0.	69.	0.22
MILE	37.00	820.03	227169.	2.94	77334.	1853.	12.21	0.0280	0.	69.	0.08
MILE	36.00	819.56	226198.	5.20	43473.	1357.	12.63	0.0280	0.	71.	0.16
MILE	34.60	819.41	224823.	3.85	58377.	1953.	13.75	0.0280	0.	71.	0.12
MILE	33.60	819.53	223216.	1.66	134489.	3489.	12.94	0.0290	0.	77.	0.05
MILE	31.50	819.20	219319.	3.89	56423.	2737.	14.26	0.0250	0.	80.	0.15
MILE	30.10	819.08	217702.	3.49	62328.	1190.	13.48	0.0200	0.	78.	0.09
MILE	29.00	819.01	216805.	3.46	62736.	1580.	14.85	0.0200	0.	79.	0.10
MILE	27.30	818.92	215259.	3.39	63436.	1514.	15.16	0.0230	0.	82.	0.09
MILE	25.20	818.85	213406.	2.86	74551.	1498.	16.03	0.0230	0.	84.	0.07
MILE	23.10	818.69	211453.	3.28	64509.	1682.	15.02	0.0230	0.	89.	0.09

ODATE 10-11-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 23.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	877.17	295833.	11.51	25712.	943.	10.02	0.0290	0.	58.	0.39
MILE	77.70	874.83	294482.	8.88	33159.	1152.	10.89	0.0400	0.	64.	0.29
MILE	75.60	867.35	292452.	10.00	29243.	2179.	10.09	0.0400	0.	61.	0.48
MILE	73.50	857.55	290213.	11.12	26091.	1613.	10.27	0.0330	0.	58.	0.49
MILE	71.40	854.38	288525.	7.61	37926.	1356.	10.47	0.0400	0.	57.	0.25
MILE	69.30	849.90	286854.	8.34	34411.	1336.	10.00	0.0340	0.	51.	0.29
MILE	67.20	847.60	284104.	5.42	52445.	3163.	9.56	0.0340	0.	57.	0.23
MILE	65.10	844.07	279612.	7.09	39450.	3759.	9.81	0.0320	0.	57.	0.39
MILE	63.00	842.17	275276.	5.36	51403.	2778.	8.75	0.0400	0.	61.	0.22
MILE	60.90	837.17	271995.	7.55	36008.	2334.	9.53	0.0450	0.	61.	0.34
MILE	58.80	829.65	269493.	7.79	34576.	1691.	8.41	0.0400	0.	57.	0.30
MILE	57.00	827.98	267642.	7.82	34225.	1772.	8.77	0.0200	0.	53.	0.31

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	55.00	825.72	265521.	8.89	29861.	1752.	8.70	0.0200	0.	52.	0.38
MILE	53.10	824.90	263383.	6.34	41572.	2084.	9.13	0.0200	0.	52.	0.25
MILE	51.00	823.71	260428.	6.53	39872.	2701.	8.91	0.0200	0.	54.	0.30
MILE	48.30	823.12	253801.	4.68	54277.	5509.	10.83	0.0200	0.	54.	0.26
MILE	46.20	822.62	246809.	5.11	48260.	5498.	11.13	0.0200	0.	61.	0.30
MILE	44.10	822.61	241329.	3.02	79856.	2835.	10.91	0.0300	0.	67.	0.10
MILE	43.70	821.81	240659.	7.28	33058.	2701.	12.72	0.0300	0.	69.	0.37
MILE	42.00	821.72	237984.	3.47	68605.	2574.	9.85	0.0300	0.	72.	0.12
MILE	39.10	820.43	233536.	5.32	43918.	2536.	12.17	0.0230	0.	69.	0.23
MILE	37.00	820.44	230770.	2.95	78119.	1866.	12.27	0.0280	0.	69.	0.08
MILE	36.00	819.97	229794.	5.23	43897.	1364.	12.69	0.0280	0.	71.	0.16
MILE	34.60	819.82	228413.	3.88	58876.	1965.	13.81	0.0280	0.	71.	0.12
MILE	33.60	819.94	226797.	1.67	135725.	3510.	13.00	0.0290	0.	77.	0.05
MILE	31.50	819.61	222877.	3.92	56890.	2752.	14.31	0.0250	0.	81.	0.15
MILE	30.10	819.48	221249.	3.52	62875.	1195.	13.52	0.0200	0.	79.	0.09
MILE	29.00	819.41	220347.	3.49	63202.	1588.	14.91	0.0200	0.	80.	0.10
MILE	27.30	819.32	218791.	3.42	63891.	1521.	15.22	0.0230	0.	82.	0.09
MILE	25.20	819.25	216924.	2.89	75034.	1505.	16.09	0.0230	0.	85.	0.07
MILE	23.10	819.09	214957.	3.31	65000.	1691.	15.07	0.0230	0.	89.	0.09

0DATE 10-12-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	0.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
INFLOW	DEPTH	FROUDE									
MILE	79.80	877.59	300000.	11.54	25993.	947.	10.05	0.0290	0.	59.	0.39
MILE	77.70	875.25	298658.	8.91	33519.	1156.	10.92	0.0400	0.	65.	0.29
MILE	75.60	867.76	296635.	10.03	29562.	2199.	10.11	0.0400	0.	61.	0.48
MILE	73.50	857.92	294387.	11.18	26343.	1629.	10.30	0.0330	0.	59.	0.49
MILE	71.40	854.77	292688.	7.62	38392.	1367.	10.53	0.0400	0.	57.	0.25
MILE	69.30	850.30	291008.	8.36	34789.	1347.	10.04	0.0340	0.	52.	0.29
MILE	67.20	848.01	288278.	5.44	53032.	3202.	9.59	0.0340	0.	57.	0.24
MILE	65.10	844.47	283813.	7.11	39902.	3803.	9.84	0.0320	0.	57.	0.39
MILE	63.00	842.58	279517.	5.32	52544.	2795.	8.68	0.0400	0.	62.	0.22
MILE	60.90	837.58	276222.	7.57	36511.	2357.	9.54	0.0450	0.	61.	0.34
MILE	58.80	830.05	273640.	7.80	35100.	1709.	8.42	0.0400	0.	57.	0.30
MILE	57.00	828.39	271822.	7.82	34778.	1791.	8.78	0.0200	0.	54.	0.31
MILE	55.00	826.13	269669.	8.90	30296.	1774.	8.70	0.0200	0.	53.	0.38
MILE	53.10	825.30	267493.	6.36	42090.	2111.	9.16	0.0200	0.	52.	0.25
MILE	51.00	824.11	264482.	6.55	40379.	2734.	8.95	0.0200	0.	55.	0.30
MILE	48.30	823.54	257756.	4.69	54914.	5580.	10.89	0.0200	0.	55.	0.26
MILE	46.20	823.03	250666.	5.13	48838.	5563.	11.17	0.0200	0.	61.	0.31
MILE	44.10	823.02	245124.	3.03	80881.	2855.	10.93	0.0300	0.	68.	0.10
MILE	43.70	822.21	244448.	7.33	33355.	2723.	12.77	0.0300	0.	69.	0.37
MILE	42.00	822.13	241740.	3.47	69652.	2599.	9.87	0.0300	0.	72.	0.12
MILE	39.10	820.84	237237.	5.35	44379.	2561.	12.22	0.0230	0.	70.	0.23
MILE	37.00	820.86	234443.	2.97	78908.	1878.	12.33	0.0280	0.	70.	0.08
MILE	36.00	820.38	233458.	5.27	44325.	1372.	12.74	0.0280	0.	71.	0.16

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	34.60	820.23	232066.	3.91	59378.	1977.	13.86	0.0280	0.	72.	0.13
MILE	33.60	820.35	230438.	1.68	136964.	3539.	13.06	0.0290	0.	77.	0.05
MILE	31.50	820.01	226493.	3.95	57359.	2768.	14.36	0.0250	0.	81.	0.15
MILE	30.10	819.89	224855.	3.55	63424.	1200.	13.57	0.0200	0.	79.	0.09
MILE	29.00	819.82	223948.	3.52	63669.	1596.	14.96	0.0200	0.	80.	0.10
MILE	27.30	819.72	222386.	3.46	64346.	1528.	15.27	0.0230	0.	83.	0.09
MILE	25.20	819.65	220512.	2.92	75518.	1512.	16.15	0.0230	0.	85.	0.07
MILE	23.10	819.49	218536.	3.34	65491.	1701.	15.11	0.0230	0.	89.	0.09

ODATE 10-12-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	1.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL	
INFLOW	DEPTH	FROUDE									
MILE	79.80	877.80	300000.	11.48	26136.	948.	10.06	0.0290	0.	59.	0.39
MILE	77.70	875.49	299537.	8.88	33726.	1158.	10.94	0.0400	0.	65.	0.29
MILE	75.60	868.06	298651.	10.02	29800.	2213.	10.13	0.0400	0.	62.	0.48
MILE	73.50	858.25	297287.	11.19	26564.	1643.	10.33	0.0330	0.	59.	0.49
MILE	71.40	855.12	296003.	7.62	38821.	1376.	10.58	0.0400	0.	57.	0.25
MILE	69.30	850.68	294599.	8.38	35146.	1357.	10.07	0.0340	0.	52.	0.29
MILE	67.20	848.40	292076.	5.45	53607.	3239.	9.63	0.0340	0.	58.	0.24
MILE	65.10	844.86	287825.	7.13	40346.	3846.	9.87	0.0320	0.	58.	0.39
MILE	63.00	842.98	283607.	5.28	53689.	2810.	8.62	0.0400	0.	62.	0.21
MILE	60.90	837.99	280294.	7.57	37018.	2379.	9.56	0.0450	0.	61.	0.34
MILE	58.80	830.46	277672.	7.80	35581.	1728.	8.43	0.0400	0.	57.	0.30
MILE	57.00	828.80	275832.	7.80	35349.	1811.	8.78	0.0200	0.	54.	0.31
MILE	55.00	826.54	273696.	8.90	30746.	1797.	8.70	0.0200	0.	53.	0.38
MILE	53.10	825.70	271516.	6.37	42604.	2138.	9.19	0.0200	0.	52.	0.25
MILE	51.00	824.52	268497.	6.57	40890.	2768.	8.99	0.0200	0.	55.	0.30
MILE	48.30	823.95	261710.	4.71	55552.	5651.	10.96	0.0200	0.	55.	0.26
MILE	46.20	823.44	254548.	5.15	49419.	5628.	11.21	0.0200	0.	62.	0.31
MILE	44.10	823.44	249032.	3.04	81912.	2875.	10.94	0.0300	0.	68.	0.10
MILE	43.70	822.61	248386.	7.38	33652.	2745.	12.82	0.0300	0.	70.	0.37
MILE	42.00	822.54	246078.	3.48	70684.	2625.	9.88	0.0300	0.	73.	0.12
MILE	39.10	821.20	243311.	5.43	44779.	2583.	12.27	0.0230	0.	70.	0.23
MILE	37.00	821.19	242548.	3.05	79537.	1888.	12.38	0.0280	0.	70.	0.08
MILE	36.00	820.66	242318.	5.43	44628.	1378.	12.77	0.0280	0.	72.	0.17
MILE	34.60	820.49	242171.	4.06	59696.	1985.	13.89	0.0280	0.	72.	0.13
MILE	33.60	820.61	241906.	1.76	137747.	3558.	13.10	0.0290	0.	78.	0.05
MILE	31.50	820.22	241248.	4.19	57597.	2780.	14.38	0.0250	0.	81.	0.16
MILE	30.10	820.06	241121.	3.79	63649.	1202.	13.59	0.0200	0.	79.	0.09
MILE	29.00	819.96	241143.	3.78	63833.	1599.	14.98	0.0200	0.	80.	0.11
MILE	27.30	819.83	241410.	3.75	64461.	1530.	15.29	0.0230	0.	83.	0.10
MILE	25.20	819.71	241772.	3.20	75590.	1513.	16.16	0.0230	0.	85.	0.08
MILE	23.10	819.49	241704.	3.69	65492.	1701.	15.11	0.0230	0.	89.	0.10

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	TIME 2.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
INFLOW	DEPTH	FROUDE									
MILE	79.80	877.90	300000.	11.45	26205.	949.	10.07	0.0290	0.	59.	0.38
MILE	77.70	875.60	299735.	8.86	33824.	1160.	10.94	0.0400	0.	65.	0.29
MILE	75.60	868.22	299206.	10.00	29925.	2220.	10.14	0.0400	0.	62.	0.48
MILE	73.50	858.46	298311.	11.17	26711.	1652.	10.34	0.0330	0.	59.	0.49
MILE	71.40	855.37	297371.	7.60	39131.	1383.	10.61	0.0400	0.	58.	0.25
MILE	69.30	850.99	296281.	8.36	35434.	1366.	10.10	0.0340	0.	52.	0.29
MILE	67.20	848.74	294193.	5.44	54095.	3271.	9.66	0.0340	0.	58.	0.24
MILE	65.10	845.21	290596.	7.13	40731.	3884.	9.90	0.0320	0.	58.	0.39
MILE	63.00	843.35	286957.	5.24	54757.	2825.	8.58	0.0400	0.	62.	0.21
MILE	60.90	838.38	284006.	7.57	37504.	2400.	9.57	0.0450	0.	62.	0.34
MILE	58.80	830.85	281555.	7.81	36058.	1745.	8.43	0.0400	0.	58.	0.30
MILE	57.00	829.20	279762.	7.79	35920.	1831.	8.79	0.0200	0.	54.	0.31
MILE	55.00	826.94	277702.	8.90	31197.	1819.	8.70	0.0200	0.	53.	0.38
MILE	53.10	826.10	275719.	6.40	43109.	2165.	9.21	0.0200	0.	53.	0.25
MILE	51.00	824.90	273195.	6.60	41376.	2800.	9.03	0.0200	0.	56.	0.30
MILE	48.30	824.30	268471.	4.78	56111.	5712.	11.01	0.0200	0.	55.	0.27
MILE	46.20	823.76	263646.	5.29	49874.	5679.	11.24	0.0200	0.	62.	0.31
MILE	44.10	823.74	260200.	3.15	82679.	2889.	10.96	0.0300	0.	69.	0.10
MILE	43.70	822.85	259807.	7.68	33825.	2758.	12.86	0.0300	0.	70.	0.39
MILE	42.00	822.76	258654.	3.63	71250.	2638.	9.89	0.0300	0.	73.	0.12
MILE	39.10	821.28	257142.	5.73	44875.	2588.	12.28	0.0230	0.	70.	0.24
MILE	37.00	821.28	256474.	3.22	79722.	1891.	12.40	0.0280	0.	70.	0.09
MILE	36.00	820.71	256252.	5.74	44672.	1379.	12.78	0.0280	0.	72.	0.18
MILE	34.60	820.52	256098.	4.29	59736.	1986.	13.90	0.0280	0.	72.	0.14
MILE	33.60	820.66	255930.	1.86	137903.	3562.	13.11	0.0290	0.	78.	0.05
MILE	31.50	820.23	255630.	4.44	57612.	2780.	14.39	0.0250	0.	81.	0.17
MILE	30.10	820.06	255590.	4.02	63653.	1202.	13.59	0.0200	0.	79.	0.10
MILE	29.00	819.96	255553.	4.00	63832.	1599.	14.98	0.0200	0.	80.	0.11
MILE	27.30	819.83	255476.	3.96	64461.	1530.	15.29	0.0230	0.	83.	0.11
MILE	25.20	819.72	255375.	3.38	75599.	1513.	16.16	0.0230	0.	85.	0.08
MILE	23.10	819.49	255237.	3.90	65492.	1701.	15.11	0.0230	0.	89.	0.11

ODATE 10-12-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 3.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
INFLOW	DEPTH	FROUDE									
MILE	79.80	877.96	300000.	11.43	26249.	950.	10.07	0.0290	0.	59.	0.38
MILE	77.70	875.67	299811.	8.85	33886.	1160.	10.95	0.0400	0.	65.	0.29
MILE	75.60	868.33	299428.	9.98	30006.	2225.	10.14	0.0400	0.	62.	0.48
MILE	73.50	858.61	298756.	11.14	26817.	1659.	10.36	0.0330	0.	59.	0.49
MILE	71.40	855.56	298023.	7.57	39361.	1388.	10.64	0.0400	0.	58.	0.25

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 292 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	69.30	851.23	297157.	8.33	35659.	1372.	10.12	0.0340	0.	53.	0.29
MILE	67.20	849.01	295458.	5.42	54489.	3296.	9.69	0.0340	0.	58.	0.24
MILE	65.10	845.51	292506.	7.13	41047.	3916.	9.92	0.0320	0.	59.	0.39
MILE	63.00	843.66	289487.	5.20	55685.	2837.	8.54	0.0400	0.	63.	0.21
MILE	60.90	838.70	287018.	7.57	37910.	2418.	9.58	0.0450	0.	62.	0.34
MILE	58.80	831.18	285055.	7.82	36466.	1760.	8.44	0.0400	0.	58.	0.30
MILE	57.00	829.53	283785.	7.80	36392.	1847.	8.79	0.0200	0.	55.	0.31
MILE	55.00	827.24	282369.	8.95	31541.	1836.	8.70	0.0200	0.	54.	0.38
MILE	53.10	826.38	281033.	6.46	43473.	2184.	9.23	0.0200	0.	53.	0.26
MILE	51.00	825.16	279271.	6.70	41690.	2821.	9.06	0.0200	0.	56.	0.31
MILE	48.30	824.55	275681.	4.88	56488.	5754.	11.05	0.0200	0.	56.	0.27
MILE	46.20	823.99	272046.	5.42	50190.	5714.	11.26	0.0200	0.	62.	0.32
MILE	44.10	823.96	269356.	3.24	83254.	2900.	10.97	0.0300	0.	69.	0.11
MILE	43.70	823.02	269044.	7.92	33951.	2767.	12.88	0.0300	0.	70.	0.40
MILE	42.00	822.93	268023.	3.74	71712.	2650.	9.90	0.0300	0.	73.	0.13
MILE	39.10	821.38	266615.	5.93	44981.	2594.	12.29	0.0230	0.	70.	0.25
MILE	37.00	821.39	266003.	3.33	79920.	1894.	12.41	0.0280	0.	70.	0.09
MILE	36.00	820.77	265816.	5.94	44741.	1380.	12.79	0.0280	0.	72.	0.18
MILE	34.60	820.58	265668.	4.44	59805.	1988.	13.90	0.0280	0.	72.	0.14
MILE	33.60	820.73	265450.	1.92	138112.	3567.	13.12	0.0290	0.	78.	0.05
MILE	31.50	820.27	264918.	4.59	57664.	2783.	14.39	0.0250	0.	81.	0.18
MILE	30.10	820.09	264795.	4.16	63701.	1202.	13.59	0.0200	0.	79.	0.10
MILE	29.00	819.99	264752.	4.15	63869.	1600.	14.99	0.0200	0.	80.	0.12
MILE	27.30	819.85	264724.	4.11	64488.	1530.	15.29	0.0230	0.	83.	0.11
MILE	25.20	819.74	264712.	3.50	75620.	1513.	16.16	0.0230	0.	85.	0.09
MILE	23.10	819.49	264714.	4.04	65492.	1701.	15.11	0.0230	0.	89.	0.11

0DATE 10-12-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME	4.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL	
	INFLOW	DEPTH	FROUDE								
MILE	79.80	878.01	300000.	11.41	26283.	950.	10.08	0.0290	0.	59.	0.38
MILE	77.70	875.72	299853.	8.84	33932.	1161.	10.95	0.0400	0.	65.	0.29
MILE	75.60	868.40	299552.	9.96	30066.	2229.	10.14	0.0400	0.	62.	0.48
MILE	73.50	858.73	299015.	11.12	26898.	1664.	10.37	0.0330	0.	60.	0.49
MILE	71.40	855.70	298423.	7.55	39542.	1392.	10.66	0.0400	0.	58.	0.25
MILE	69.30	851.42	297724.	8.31	35840.	1377.	10.13	0.0340	0.	53.	0.29
MILE	67.20	849.22	296352.	5.41	54805.	3316.	9.71	0.0340	0.	59.	0.23
MILE	65.10	845.74	293973.	7.12	41302.	3942.	9.94	0.0320	0.	59.	0.39
MILE	63.00	843.91	291558.	5.17	56434.	2847.	8.51	0.0400	0.	63.	0.20
MILE	60.90	838.95	289588.	7.58	38227.	2431.	9.59	0.0450	0.	62.	0.34
MILE	58.80	831.43	288038.	7.83	36770.	1771.	8.44	0.0400	0.	58.	0.30
MILE	57.00	829.78	287031.	7.81	36741.	1859.	8.80	0.0200	0.	55.	0.31
MILE	55.00	827.47	285910.	8.99	31797.	1848.	8.70	0.0200	0.	54.	0.38
MILE	53.10	826.59	284843.	6.51	43748.	2198.	9.25	0.0200	0.	53.	0.26
MILE	51.00	825.35	283424.	6.76	41930.	2837.	9.07	0.0200	0.	56.	0.31
MILE	48.30	824.73	280523.	4.94	56783.	5786.	11.08	0.0200	0.	56.	0.28

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	46.20	824.16	277673.	5.51	50440.	5742.	11.28	0.0200	0.	62.	0.33
MILE	44.10	824.14	275566.	3.29	83702.	2909.	10.97	0.0300	0.	69.	0.11
MILE	43.70	823.15	275326.	8.09	34053.	2775.	12.90	0.0300	0.	70.	0.41
MILE	42.00	823.07	274597.	3.81	72077.	2658.	9.90	0.0300	0.	73.	0.13
MILE	39.10	821.45	273622.	6.07	45064.	2598.	12.30	0.0230	0.	70.	0.26
MILE	37.00	821.46	273161.	3.41	80069.	1897.	12.42	0.0280	0.	70.	0.09
MILE	36.00	820.82	273017.	6.10	44791.	1381.	12.79	0.0280	0.	72.	0.19
MILE	34.60	820.62	272906.	4.56	59856.	1989.	13.91	0.0280	0.	72.	0.15
MILE	33.60	820.78	272760.	1.97	138266.	3571.	13.13	0.0290	0.	78.	0.06
MILE	31.50	820.30	272443.	4.72	57696.	2785.	14.39	0.0250	0.	81.	0.18
MILE	30.10	820.11	272422.	4.27	63726.	1203.	13.59	0.0200	0.	79.	0.10
MILE	29.00	820.00	272404.	4.26	63886.	1600.	14.99	0.0200	0.	80.	0.12
MILE	27.30	819.86	272352.	4.22	64500.	1531.	15.29	0.0230	0.	83.	0.11
MILE	25.20	819.75	272315.	3.60	75631.	1514.	16.16	0.0230	0.	85.	0.09
MILE	23.10	819.49	272315.	4.16	65492.	1701.	15.11	0.0230	0.	89.	0.12

ODATE 10-12-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	5.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL	
INFLOW	DEPTH	FROUDE									
MILE	79.80	878.05	300000.	11.40	26310.	950.	10.08	0.0290	0.	59.	0.38
MILE	77.70	875.76	299879.	8.83	33969.	1161.	10.96	0.0400	0.	65.	0.29
MILE	75.60	868.46	299632.	9.95	30113.	2232.	10.15	0.0400	0.	62.	0.48
MILE	73.50	858.82	299194.	11.10	26962.	1668.	10.37	0.0330	0.	60.	0.49
MILE	71.40	855.82	298715.	7.53	39684.	1395.	10.68	0.0400	0.	58.	0.25
MILE	69.30	851.56	298153.	8.29	35982.	1381.	10.15	0.0340	0.	53.	0.29
MILE	67.20	849.39	297055.	5.40	55054.	3332.	9.72	0.0340	0.	59.	0.23
MILE	65.10	845.93	295152.	7.11	41502.	3962.	9.95	0.0320	0.	59.	0.39
MILE	63.00	844.10	293228.	5.14	57029.	2855.	8.49	0.0400	0.	63.	0.20
MILE	60.90	839.14	291656.	7.58	38478.	2442.	9.60	0.0450	0.	63.	0.34
MILE	58.80	831.62	290416.	7.85	37012.	1780.	8.44	0.0400	0.	59.	0.30
MILE	57.00	829.97	289610.	7.82	37021.	1868.	8.80	0.0200	0.	55.	0.31
MILE	55.00	827.65	288716.	9.02	32003.	1858.	8.70	0.0200	0.	54.	0.38
MILE	53.10	826.76	287875.	6.55	43969.	2210.	9.26	0.0200	0.	53.	0.26
MILE	51.00	825.51	286766.	6.81	42121.	2850.	9.09	0.0200	0.	56.	0.31
MILE	48.30	824.88	284508.	4.99	57015.	5812.	11.10	0.0200	0.	56.	0.28
MILE	46.20	824.30	282239.	5.57	50635.	5763.	11.29	0.0200	0.	62.	0.33
MILE	44.10	824.28	280582.	3.34	84053.	2915.	10.98	0.0300	0.	69.	0.11
MILE	43.70	823.26	280392.	8.21	34132.	2781.	12.91	0.0300	0.	70.	0.41
MILE	42.00	823.18	279788.	3.87	72360.	2665.	9.91	0.0300	0.	73.	0.13
MILE	39.10	821.51	278962.	6.18	45129.	2602.	12.30	0.0230	0.	71.	0.26
MILE	37.00	821.52	278604.	3.47	80185.	1899.	12.43	0.0280	0.	70.	0.09
MILE	36.00	820.86	278493.	6.21	44830.	1382.	12.80	0.0280	0.	72.	0.19
MILE	34.60	820.65	278408.	4.65	59895.	1990.	13.91	0.0280	0.	72.	0.15
MILE	33.60	820.82	278286.	2.01	138383.	3574.	13.14	0.0290	0.	78.	0.06
MILE	31.50	820.32	277992.	4.82	57721.	2786.	14.40	0.0250	0.	82.	0.19
MILE	30.10	820.13	277927.	4.36	63748.	1203.	13.59	0.0200	0.	79.	0.11

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Appendix E		Checked	ACM

MILE	29.00	820.02	277902.	4.35	63904.	1601.	14.99	0.0200	0.	80.	0.12
MILE	27.30	819.87	277876.	4.31	64512.	1531.	15.29	0.0230	0.	83.	0.12
MILE	25.20	819.75	277849.	3.67	75641.	1514.	16.16	0.0230	0.	85.	0.09
MILE	23.10	819.49	277848.	4.24	65492.	1701.	15.11	0.0230	0.	89.	0.12

0DATE 10-12-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME	6.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL
	INFLOW	DEPTH	FROUDE								
MILE	79.80	878.09	300000.	11.39	26333.	951.	10.08	0.0290	0.	59.	0.38
MILE	77.70	875.80	299900.	8.82	34000.	1162.	10.96	0.0400	0.	65.	0.29
MILE	75.60	868.51	299695.	9.94	30151.	2234.	10.15	0.0400	0.	62.	0.48
MILE	73.50	858.90	299336.	11.08	27013.	1671.	10.38	0.0330	0.	60.	0.49
MILE	71.40	855.91	298947.	7.51	39796.	1398.	10.69	0.0400	0.	58.	0.25
MILE	69.30	851.68	298495.	8.27	36093.	1384.	10.16	0.0340	0.	53.	0.29
MILE	67.20	849.52	297614.	5.39	55249.	3344.	9.73	0.0340	0.	59.	0.23
MILE	65.10	846.07	296092.	7.11	41659.	3978.	9.96	0.0320	0.	59.	0.39
MILE	63.00	844.26	294557.	5.12	57500.	2861.	8.47	0.0400	0.	63.	0.20
MILE	60.90	839.30	293303.	7.58	38678.	2451.	9.60	0.0450	0.	63.	0.34
MILE	58.80	831.77	292311.	7.86	37207.	1787.	8.45	0.0400	0.	59.	0.30
MILE	57.00	830.12	291662.	7.84	37223.	1876.	8.80	0.0200	0.	55.	0.31
MILE	55.00	827.79	290955.	9.05	32166.	1866.	8.71	0.0200	0.	54.	0.38
MILE	53.10	826.89	290285.	6.58	44143.	2219.	9.27	0.0200	0.	54.	0.26
MILE	51.00	825.63	289393.	6.85	42272.	2860.	9.10	0.0200	0.	56.	0.31
MILE	48.30	825.00	287579.	5.03	57199.	5832.	11.12	0.0200	0.	56.	0.28
MILE	46.20	824.40	285767.	5.63	50791.	5781.	11.30	0.0200	0.	63.	0.33
MILE	44.10	824.39	284424.	3.37	84334.	2920.	10.98	0.0300	0.	69.	0.11
MILE	43.70	823.34	284270.	8.31	34195.	2786.	12.92	0.0300	0.	70.	0.42
MILE	42.00	823.27	283787.	3.91	72590.	2671.	9.91	0.0300	0.	73.	0.13
MILE	39.10	821.56	283125.	6.27	45183.	2605.	12.31	0.0230	0.	71.	0.27
MILE	37.00	821.57	282822.	3.52	80281.	1900.	12.44	0.0280	0.	70.	0.10
MILE	36.00	820.89	282726.	6.30	44864.	1383.	12.80	0.0280	0.	72.	0.19
MILE	34.60	820.68	282650.	4.72	59929.	1991.	13.92	0.0280	0.	72.	0.15
MILE	33.60	820.86	282550.	2.04	138484.	3576.	13.14	0.0290	0.	78.	0.06
MILE	31.50	820.34	282324.	4.89	57744.	2787.	14.40	0.0250	0.	82.	0.19
MILE	30.10	820.14	282288.	4.43	63767.	1203.	13.60	0.0200	0.	79.	0.11
MILE	29.00	820.03	282269.	4.42	63918.	1601.	14.99	0.0200	0.	80.	0.12
MILE	27.30	819.88	282239.	4.37	64521.	1531.	15.29	0.0230	0.	83.	0.12
MILE	25.20	819.76	282227.	3.73	75649.	1514.	16.17	0.0230	0.	85.	0.09
MILE	23.10	819.49	282217.	4.31	65492.	1701.	15.11	0.0230	0.	89.	0.12

0DATE 10-12-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

TIME	7.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
INFLOW	DEPTH	FROUDE									
MILE	79.80	878.11	300000.	11.38	26351.	951.	10.08	0.0290	0.	59.	0.38
MILE	77.70	875.83	299917.	8.81	34025.	1162.	10.96	0.0400	0.	65.	0.29
MILE	75.60	868.55	299748.	9.93	30182.	2236.	10.15	0.0400	0.	62.	0.48
MILE	73.50	858.96	299453.	11.07	27053.	1674.	10.38	0.0330	0.	60.	0.49
MILE	71.40	855.98	299138.	7.50	39885.	1400.	10.70	0.0400	0.	58.	0.25
MILE	69.30	851.77	298773.	8.26	36182.	1387.	10.17	0.0340	0.	53.	0.28
MILE	67.20	849.62	298066.	5.38	55404.	3354.	9.74	0.0340	0.	59.	0.23
MILE	65.10	846.18	296847.	7.10	41784.	3990.	9.97	0.0320	0.	59.	0.39
MILE	63.00	844.38	295619.	5.11	57875.	2866.	8.46	0.0400	0.	63.	0.20
MILE	60.90	839.42	294617.	7.59	38838.	2457.	9.61	0.0450	0.	63.	0.34
MILE	58.80	831.90	293824.	7.86	37363.	1792.	8.45	0.0400	0.	59.	0.30
MILE	57.00	830.24	293303.	7.85	37380.	1882.	8.80	0.0200	0.	55.	0.31
MILE	55.00	827.90	292731.	9.06	32296.	1872.	8.71	0.0200	0.	54.	0.38
MILE	53.10	827.00	292189.	6.60	44283.	2226.	9.28	0.0200	0.	54.	0.26
MILE	51.00	825.73	291473.	6.88	42393.	2869.	9.11	0.0200	0.	56.	0.32
MILE	48.30	825.09	290008.	5.06	57346.	5848.	11.13	0.0200	0.	56.	0.28
MILE	46.20	824.49	288541.	5.67	50917.	5794.	11.31	0.0200	0.	63.	0.34
MILE	44.10	824.47	287464.	3.40	84560.	2925.	10.99	0.0300	0.	69.	0.11
MILE	43.70	823.41	287340.	8.39	34246.	2789.	12.93	0.0300	0.	70.	0.42
MILE	42.00	823.34	286948.	3.94	72774.	2675.	9.92	0.0300	0.	73.	0.13
MILE	39.10	821.59	286410.	6.33	45226.	2607.	12.31	0.0230	0.	71.	0.27
MILE	37.00	821.61	286173.	3.56	80359.	1901.	12.44	0.0280	0.	70.	0.10
MILE	36.00	820.92	286098.	6.37	44891.	1383.	12.81	0.0280	0.	72.	0.20
MILE	34.60	820.70	286039.	4.77	59956.	1992.	13.92	0.0280	0.	72.	0.15
MILE	33.60	820.88	285960.	2.06	138563.	3578.	13.15	0.0290	0.	78.	0.06
MILE	31.50	820.36	285778.	4.95	57762.	2788.	14.40	0.0250	0.	82.	0.19
MILE	30.10	820.16	285739.	4.48	63783.	1203.	13.60	0.0200	0.	79.	0.11
MILE	29.00	820.04	285723.	4.47	63930.	1601.	14.99	0.0200	0.	80.	0.12
MILE	27.30	819.89	285706.	4.43	64529.	1531.	15.29	0.0230	0.	83.	0.12
MILE	25.20	819.77	285690.	3.78	75655.	1514.	16.17	0.0230	0.	85.	0.09
MILE	23.10	819.49	285685.	4.36	65492.	1701.	15.11	0.0230	0.	89.	0.12

ODATE 10-12-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	8.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
INFLOW	DEPTH	FROUDE									
MILE	79.80	878.14	300000.	11.38	26367.	951.	10.08	0.0290	0.	59.	0.38
MILE	77.70	875.85	299932.	8.81	34045.	1162.	10.96	0.0400	0.	65.	0.29
MILE	75.60	868.58	299792.	9.92	30206.	2237.	10.15	0.0400	0.	62.	0.48
MILE	73.50	859.00	299551.	11.06	27086.	1676.	10.39	0.0330	0.	60.	0.48
MILE	71.40	856.04	299295.	7.49	39956.	1401.	10.71	0.0400	0.	58.	0.25
MILE	69.30	851.85	299002.	8.25	36252.	1389.	10.17	0.0340	0.	53.	0.28
MILE	67.20	849.71	298433.	5.37	55527.	3362.	9.75	0.0340	0.	59.	0.23
MILE	65.10	846.27	297454.	7.10	41882.	4000.	9.98	0.0320	0.	59.	0.39

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Appendix E		Checked	ACM

MILE	63.00	844.48	296470.	5.10	58174.	2869.	8.45	0.0400	0.	63.	0.20
MILE	60.90	839.52	295668.	7.59	38965.	2463.	9.61	0.0450	0.	63.	0.34
MILE	58.80	832.00	295032.	7.87	37489.	1797.	8.45	0.0400	0.	59.	0.30
MILE	57.00	830.33	294613.	7.85	37506.	1886.	8.79	0.0200	0.	56.	0.31
MILE	55.00	827.99	294153.	9.08	32401.	1877.	8.71	0.0200	0.	54.	0.39
MILE	53.10	827.08	293716.	6.62	44395.	2232.	9.28	0.0200	0.	54.	0.26
MILE	51.00	825.81	293138.	6.90	42491.	2875.	9.12	0.0200	0.	57.	0.32
MILE	48.30	825.17	291953.	5.08	57464.	5861.	11.15	0.0200	0.	56.	0.29
MILE	46.20	824.56	290768.	5.70	51018.	5806.	11.32	0.0200	0.	63.	0.34
MILE	44.10	824.54	289895.	3.42	84742.	2928.	10.99	0.0300	0.	69.	0.11
MILE	43.70	823.47	289795.	8.45	34287.	2792.	12.94	0.0300	0.	70.	0.43
MILE	42.00	823.40	289478.	3.97	72923.	2679.	9.92	0.0300	0.	73.	0.13
MILE	39.10	821.63	289043.	6.39	45261.	2609.	12.32	0.0230	0.	71.	0.27
MILE	37.00	821.65	288845.	3.59	80421.	1902.	12.45	0.0280	0.	70.	0.10
MILE	36.00	820.94	288784.	6.43	44913.	1384.	12.81	0.0280	0.	72.	0.20
MILE	34.60	820.72	288734.	4.81	59978.	1992.	13.92	0.0280	0.	72.	0.15
MILE	33.60	820.90	288668.	2.08	138629.	3580.	13.15	0.0290	0.	78.	0.06
MILE	31.50	820.37	288518.	4.99	57776.	2789.	14.40	0.0250	0.	82.	0.19
MILE	30.10	820.17	288491.	4.52	63795.	1203.	13.60	0.0200	0.	79.	0.11
MILE	29.00	820.05	288478.	4.51	63939.	1602.	15.00	0.0200	0.	80.	0.13
MILE	27.30	819.89	288460.	4.47	64536.	1531.	15.30	0.0230	0.	83.	0.12
MILE	25.20	819.77	288449.	3.81	75660.	1514.	16.17	0.0230	0.	85.	0.10
MILE	23.10	819.49	288445.	4.40	65492.	1701.	15.11	0.0230	0.	89.	0.13

0DATE 10-12-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	9.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL	
INFLOW	DEPTH	FROUDE									
MILE	79.80	878.16	300000.	11.37	26380.	951.	10.08	0.0290	0.	59.	0.38
MILE	77.70	875.87	299944.	8.81	34062.	1162.	10.96	0.0400	0.	65.	0.29
MILE	75.60	868.60	299829.	9.92	30226.	2238.	10.16	0.0400	0.	62.	0.48
MILE	73.50	859.04	299633.	11.05	27112.	1678.	10.39	0.0330	0.	60.	0.48
MILE	71.40	856.08	299425.	7.48	40013.	1402.	10.71	0.0400	0.	58.	0.25
MILE	69.30	851.91	299188.	8.24	36308.	1390.	10.18	0.0340	0.	53.	0.28
MILE	67.20	849.77	298730.	5.37	55625.	3368.	9.76	0.0340	0.	59.	0.23
MILE	65.10	846.34	297943.	7.10	41961.	4008.	9.98	0.0320	0.	59.	0.39
MILE	63.00	844.55	297153.	5.09	58413.	2872.	8.45	0.0400	0.	64.	0.20
MILE	60.90	839.60	296509.	7.59	39067.	2467.	9.61	0.0450	0.	63.	0.34
MILE	58.80	832.08	295998.	7.87	37589.	1800.	8.45	0.0400	0.	59.	0.30
MILE	57.00	830.41	295661.	7.86	37608.	1890.	8.79	0.0200	0.	56.	0.31
MILE	55.00	828.06	295290.	9.09	32486.	1881.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.15	294936.	6.63	44486.	2236.	9.29	0.0200	0.	54.	0.26
MILE	51.00	825.87	294468.	6.92	42569.	2881.	9.12	0.0200	0.	57.	0.32
MILE	48.30	825.23	293509.	5.10	57560.	5872.	11.16	0.0200	0.	56.	0.29
MILE	46.20	824.62	292548.	5.73	51099.	5815.	11.32	0.0200	0.	63.	0.34
MILE	44.10	824.60	291842.	3.44	84889.	2931.	10.99	0.0300	0.	69.	0.11
MILE	43.70	823.51	291761.	8.50	34320.	2795.	12.94	0.0300	0.	71.	0.43

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	42.00	823.44	291503.	3.99	73044.	2681.	9.92	0.0300	0.	73.	0.13
MILE	39.10	821.65	291149.	6.43	45290.	2610.	12.32	0.0230	0.	71.	0.27
MILE	37.00	821.67	290990.	3.62	80472.	1903.	12.45	0.0280	0.	70.	0.10
MILE	36.00	820.95	290940.	6.48	44931.	1384.	12.81	0.0280	0.	72.	0.20
MILE	34.60	820.73	290900.	4.85	59996.	1993.	13.92	0.0280	0.	72.	0.16
MILE	33.60	820.92	290847.	2.10	138682.	3581.	13.15	0.0290	0.	78.	0.06
MILE	31.50	820.38	290724.	5.03	57788.	2789.	14.40	0.0250	0.	82.	0.19
MILE	30.10	820.17	290700.	4.56	63805.	1204.	13.60	0.0200	0.	79.	0.11
MILE	29.00	820.05	290689.	4.55	63947.	1602.	15.00	0.0200	0.	80.	0.13
MILE	27.30	819.90	290676.	4.50	64541.	1531.	15.30	0.0230	0.	83.	0.12
MILE	25.20	819.77	290665.	3.84	75665.	1514.	16.17	0.0230	0.	85.	0.10
MILE	23.10	819.49	290662.	4.44	65492.	1701.	15.11	0.0230	0.	89.	0.13

0DATE 10-12-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 10.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
	INFLOW DEPTH	FROUDE									
MILE	79.80	878.17	300000.	11.37	26391.	951.	10.09	0.0290	0.	59.	0.38
MILE	77.70	875.89	299954.	8.80	34076.	1163.	10.96	0.0400	0.	65.	0.29
MILE	75.60	868.62	299860.	9.92	30243.	2239.	10.16	0.0400	0.	62.	0.48
MILE	73.50	859.07	299700.	11.05	27133.	1679.	10.39	0.0330	0.	60.	0.48
MILE	71.40	856.12	299531.	7.48	40058.	1403.	10.72	0.0400	0.	58.	0.25
MILE	69.30	851.95	299340.	8.23	36353.	1392.	10.18	0.0340	0.	53.	0.28
MILE	67.20	849.82	298971.	5.37	55703.	3373.	9.76	0.0340	0.	59.	0.23
MILE	65.10	846.40	298336.	7.10	42023.	4014.	9.99	0.0320	0.	59.	0.39
MILE	63.00	844.61	297702.	5.08	58604.	2875.	8.44	0.0400	0.	64.	0.20
MILE	60.90	839.66	297184.	7.59	39148.	2470.	9.62	0.0450	0.	63.	0.34
MILE	58.80	832.14	296773.	7.88	37670.	1803.	8.45	0.0400	0.	59.	0.30
MILE	57.00	830.47	296500.	7.87	37690.	1893.	8.79	0.0200	0.	56.	0.31
MILE	55.00	828.12	296200.	9.10	32554.	1884.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.21	295914.	6.64	44558.	2240.	9.29	0.0200	0.	54.	0.26
MILE	51.00	825.93	295535.	6.93	42633.	2885.	9.13	0.0200	0.	57.	0.32
MILE	48.30	825.28	294758.	5.11	57637.	5880.	11.16	0.0200	0.	56.	0.29
MILE	46.20	824.66	293979.	5.75	51165.	5822.	11.33	0.0200	0.	63.	0.34
MILE	44.10	824.65	293406.	3.45	85008.	2933.	10.99	0.0300	0.	69.	0.11
MILE	43.70	823.55	293341.	8.54	34347.	2797.	12.95	0.0300	0.	71.	0.43
MILE	42.00	823.48	293132.	4.01	73142.	2684.	9.92	0.0300	0.	73.	0.14
MILE	39.10	821.67	292844.	6.46	45313.	2612.	12.32	0.0230	0.	71.	0.27
MILE	37.00	821.69	292715.	3.64	80514.	1904.	12.45	0.0280	0.	70.	0.10
MILE	36.00	820.97	292674.	6.51	44945.	1384.	12.81	0.0280	0.	72.	0.20
MILE	34.60	820.74	292641.	4.88	60010.	1993.	13.93	0.0280	0.	72.	0.16
MILE	33.60	820.94	292597.	2.11	138725.	3582.	13.15	0.0290	0.	78.	0.06
MILE	31.50	820.39	292497.	5.06	57798.	2790.	14.40	0.0250	0.	82.	0.20
MILE	30.10	820.18	292478.	4.58	63814.	1204.	13.60	0.0200	0.	79.	0.11
MILE	29.00	820.06	292469.	4.57	63954.	1602.	15.00	0.0200	0.	80.	0.13
MILE	27.30	819.90	292458.	4.53	64545.	1531.	15.30	0.0230	0.	83.	0.12
MILE	25.20	819.78	292450.	3.86	75668.	1514.	16.17	0.0230	0.	85.	0.10

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 298 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 23.10 819.49 292447. 4.47 65492. 1701. 15.11 0.0230 0. 89. 0.13

0DATE 10-12-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 11.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80 878.18 300000. 11.36 26400. 951. 10.09 0.0290 0. 59. 0.38
MILE 77.70 875.90 299962. 8.80 34087. 1163. 10.96 0.0400 0. 65. 0.29
MILE 75.60 868.64 299885. 9.91 30256. 2240. 10.16 0.0400 0. 62. 0.48
MILE 73.50 859.09 299755. 11.04 27149. 1680. 10.40 0.0330 0. 60. 0.48
MILE 71.40 856.15 299618. 7.47 40095. 1404. 10.72 0.0400 0. 58. 0.25
MILE 69.30 851.99 299463. 8.23 36389. 1393. 10.19 0.0340 0. 53. 0.28
MILE 67.20 849.87 299165. 5.36 55765. 3377. 9.77 0.0340 0. 59. 0.23
MILE 65.10 846.45 298654. 7.10 42074. 4019. 9.99 0.0320 0. 59. 0.39
MILE 63.00 844.66 298142. 5.07 58757. 2877. 8.44 0.0400 0. 64. 0.20
MILE 60.90 839.71 297725. 7.59 39213. 2473. 9.62 0.0450 0. 63. 0.34
MILE 58.80 832.19 297394. 7.88 37735. 1806. 8.46 0.0400 0. 59. 0.30
MILE 57.00 830.52 297174. 7.87 37756. 1896. 8.79 0.0200 0. 56. 0.31
MILE 55.00 828.17 296931. 9.11 32609. 1887. 8.71 0.0200 0. 55. 0.39
MILE 53.10 827.25 296699. 6.65 44617. 2243. 9.29 0.0200 0. 54. 0.26
MILE 51.00 825.97 296392. 6.94 42684. 2888. 9.13 0.0200 0. 57. 0.32
MILE 48.30 825.32 295762. 5.13 57699. 5887. 11.17 0.0200 0. 56. 0.29
MILE 46.20 824.70 295131. 5.76 51219. 5828. 11.33 0.0200 0. 63. 0.34
MILE 44.10 824.68 294666. 3.46 85104. 2935. 11.00 0.0300 0. 69. 0.11
MILE 43.70 823.58 294613. 8.57 34369. 2798. 12.95 0.0300 0. 71. 0.43
MILE 42.00 823.51 294444. 4.02 73221. 2686. 9.92 0.0300 0. 74. 0.14
MILE 39.10 821.69 294210. 6.49 45332. 2613. 12.33 0.0230 0. 71. 0.27
MILE 37.00 821.71 294104. 3.65 80547. 1904. 12.46 0.0280 0. 70. 0.10
MILE 36.00 820.98 294071. 6.54 44957. 1384. 12.81 0.0280 0. 72. 0.20
MILE 34.60 820.75 294045. 4.90 60022. 1993. 13.93 0.0280 0. 72. 0.16
MILE 33.60 820.95 294009. 2.12 138760. 3583. 13.16 0.0290 0. 78. 0.06
MILE 31.50 820.39 293928. 5.08 57806. 2790. 14.40 0.0250 0. 82. 0.20
MILE 30.10 820.18 293912. 4.61 63821. 1204. 13.60 0.0200 0. 79. 0.11
MILE 29.00 820.06 293905. 4.60 63959. 1602. 15.00 0.0200 0. 80. 0.13
MILE 27.30 819.90 293895. 4.55 64549. 1531. 15.30 0.0230 0. 83. 0.12
MILE 25.20 819.78 293888. 3.88 75671. 1514. 16.17 0.0230 0. 85. 0.10
MILE 23.10 819.49 293886. 4.49 65492. 1701. 15.11 0.0230 0. 89. 0.13

0DATE 10-12-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 12.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80 878.19 300000. 11.36 26407. 952. 10.09 0.0290 0. 59. 0.38

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 299 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	77.70	875.91	299969.	8.80	34096.	1163.	10.97	0.0400	0.	65.	0.29
MILE	75.60	868.65	299906.	9.91	30267.	2241.	10.16	0.0400	0.	62.	0.48
MILE	73.50	859.11	299800.	11.04	27163.	1681.	10.40	0.0330	0.	60.	0.48
MILE	71.40	856.17	299689.	7.47	40124.	1405.	10.73	0.0400	0.	58.	0.25
MILE	69.30	852.02	299563.	8.23	36418.	1394.	10.19	0.0340	0.	53.	0.28
MILE	67.20	849.90	299323.	5.36	55815.	3380.	9.77	0.0340	0.	59.	0.23
MILE	65.10	846.48	298909.	7.10	42114.	4023.	9.99	0.0320	0.	59.	0.39
MILE	63.00	844.70	298497.	5.07	58880.	2878.	8.43	0.0400	0.	64.	0.20
MILE	60.90	839.75	298160.	7.59	39266.	2475.	9.62	0.0450	0.	63.	0.34
MILE	58.80	832.23	297893.	7.88	37788.	1807.	8.46	0.0400	0.	59.	0.30
MILE	57.00	830.56	297715.	7.87	37809.	1897.	8.79	0.0200	0.	56.	0.31
MILE	55.00	828.20	297518.	9.11	32653.	1889.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.29	297331.	6.66	44665.	2245.	9.30	0.0200	0.	54.	0.26
MILE	51.00	826.00	297082.	6.95	42726.	2891.	9.14	0.0200	0.	57.	0.32
MILE	48.30	825.35	296571.	5.14	57749.	5893.	11.17	0.0200	0.	56.	0.29
MILE	46.20	824.73	296059.	5.78	51262.	5832.	11.33	0.0200	0.	63.	0.34
MILE	44.10	824.71	295682.	3.47	85182.	2936.	11.00	0.0300	0.	70.	0.11
MILE	43.70	823.60	295639.	8.60	34387.	2800.	12.96	0.0300	0.	71.	0.43
MILE	42.00	823.53	295502.	4.03	73285.	2687.	9.92	0.0300	0.	74.	0.14
MILE	39.10	821.70	295312.	6.51	45347.	2613.	12.33	0.0230	0.	71.	0.28
MILE	37.00	821.73	295226.	3.66	80574.	1905.	12.46	0.0280	0.	70.	0.10
MILE	36.00	820.99	295199.	6.56	44966.	1385.	12.81	0.0280	0.	72.	0.20
MILE	34.60	820.76	295177.	4.92	60032.	1994.	13.93	0.0280	0.	72.	0.16
MILE	33.60	820.96	295148.	2.13	138788.	3584.	13.16	0.0290	0.	78.	0.06
MILE	31.50	820.40	295082.	5.10	57812.	2790.	14.40	0.0250	0.	82.	0.20
MILE	30.10	820.19	295069.	4.62	63826.	1204.	13.60	0.0200	0.	79.	0.11
MILE	29.00	820.07	295063.	4.61	63963.	1602.	15.00	0.0200	0.	80.	0.13
MILE	27.30	819.91	295055.	4.57	64552.	1531.	15.30	0.0230	0.	83.	0.12
MILE	25.20	819.78	295049.	3.90	75673.	1514.	16.17	0.0230	0.	85.	0.10
MILE	23.10	819.49	295047.	4.51	65492.	1701.	15.11	0.0230	0.	89.	0.13

0DATE 10-12-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 13.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	878.20	300000.	11.36	26413.	952.	10.09	0.0290	0.	60.	0.38
MILE	77.70	875.92	299975.	8.80	34104.	1163.	10.97	0.0400	0.	65.	0.29
MILE	75.60	868.66	299923.	9.91	30275.	2241.	10.16	0.0400	0.	62.	0.48
MILE	73.50	859.13	299837.	11.03	27174.	1681.	10.40	0.0330	0.	60.	0.48
MILE	71.40	856.19	299746.	7.47	40148.	1405.	10.73	0.0400	0.	58.	0.25
MILE	69.30	852.04	299645.	8.22	36441.	1394.	10.19	0.0340	0.	53.	0.28
MILE	67.20	849.93	299450.	5.36	55856.	3383.	9.77	0.0340	0.	59.	0.23
MILE	65.10	846.51	299116.	7.10	42146.	4026.	9.99	0.0320	0.	60.	0.39
MILE	63.00	844.73	298782.	5.07	58979.	2879.	8.43	0.0400	0.	64.	0.20
MILE	60.90	839.78	298510.	7.59	39308.	2477.	9.62	0.0450	0.	63.	0.34
MILE	58.80	832.26	298294.	7.89	37830.	1809.	8.46	0.0400	0.	59.	0.30
MILE	57.00	830.59	298150.	7.88	37852.	1899.	8.79	0.0200	0.	56.	0.31

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 300 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	55.00	828.23	297991.	9.12	32689.	1891.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.32	297839.	6.66	44703.	2247.	9.30	0.0200	0.	54.	0.26
MILE	51.00	826.03	297638.	6.96	42759.	2893.	9.14	0.0200	0.	57.	0.32
MILE	48.30	825.38	297223.	5.14	57790.	5897.	11.18	0.0200	0.	56.	0.29
MILE	46.20	824.76	296808.	5.79	51297.	5836.	11.34	0.0200	0.	63.	0.34
MILE	44.10	824.74	296502.	3.48	85245.	2937.	11.00	0.0300	0.	70.	0.11
MILE	43.70	823.62	296467.	8.62	34401.	2801.	12.96	0.0300	0.	71.	0.43
MILE	42.00	823.55	296356.	4.04	73337.	2688.	9.92	0.0300	0.	74.	0.14
MILE	39.10	821.71	296201.	6.53	45359.	2614.	12.33	0.0230	0.	71.	0.28
MILE	37.00	821.74	296132.	3.67	80596.	1905.	12.46	0.0280	0.	70.	0.10
MILE	36.00	820.99	296110.	6.58	44974.	1385.	12.82	0.0280	0.	72.	0.20
MILE	34.60	820.76	296092.	4.93	60039.	1994.	13.93	0.0280	0.	72.	0.16
MILE	33.60	820.96	296069.	2.13	138811.	3584.	13.16	0.0290	0.	78.	0.06
MILE	31.50	820.40	296014.	5.12	57818.	2791.	14.41	0.0250	0.	82.	0.20
MILE	30.10	820.19	296004.	4.64	63831.	1204.	13.60	0.0200	0.	79.	0.11
MILE	29.00	820.07	295999.	4.63	63967.	1602.	15.00	0.0200	0.	80.	0.13
MILE	27.30	819.91	295992.	4.59	64554.	1531.	15.30	0.0230	0.	83.	0.12
MILE	25.20	819.78	295988.	3.91	75675.	1514.	16.17	0.0230	0.	85.	0.10
MILE	23.10	819.49	295986.	4.52	65492.	1701.	15.11	0.0230	0.	89.	0.13

0DATE 10-12-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 14.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	878.21	300000.	11.36	26417.	952.	10.09	0.0290	0.	60.	0.38
MILE	77.70	875.93	299979.	8.79	34110.	1163.	10.97	0.0400	0.	65.	0.29
MILE	75.60	868.67	299937.	9.90	30282.	2242.	10.16	0.0400	0.	62.	0.47
MILE	73.50	859.14	299866.	11.03	27182.	1682.	10.40	0.0330	0.	60.	0.48
MILE	71.40	856.21	299793.	7.46	40167.	1406.	10.73	0.0400	0.	58.	0.25
MILE	69.30	852.06	299711.	8.22	36460.	1395.	10.19	0.0340	0.	53.	0.28
MILE	67.20	849.95	299553.	5.36	55888.	3385.	9.78	0.0340	0.	59.	0.23
MILE	65.10	846.54	299282.	7.10	42172.	4029.	10.00	0.0320	0.	60.	0.39
MILE	63.00	844.76	299012.	5.06	59059.	2880.	8.43	0.0400	0.	64.	0.20
MILE	60.90	839.81	298792.	7.59	39342.	2479.	9.62	0.0450	0.	63.	0.34
MILE	58.80	832.29	298618.	7.89	37864.	1810.	8.46	0.0400	0.	59.	0.30
MILE	57.00	830.62	298501.	7.88	37886.	1900.	8.79	0.0200	0.	56.	0.31
MILE	55.00	828.26	298372.	9.12	32718.	1892.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.34	298249.	6.67	44734.	2249.	9.30	0.0200	0.	54.	0.26
MILE	51.00	826.05	298086.	6.97	42786.	2895.	9.14	0.0200	0.	57.	0.32
MILE	48.30	825.40	297749.	5.15	57823.	5901.	11.18	0.0200	0.	56.	0.29
MILE	46.20	824.77	297413.	5.79	51325.	5839.	11.34	0.0200	0.	63.	0.34
MILE	44.10	824.76	297165.	3.48	85295.	2938.	11.00	0.0300	0.	70.	0.11
MILE	43.70	823.63	297136.	8.63	34412.	2802.	12.96	0.0300	0.	71.	0.43
MILE	42.00	823.57	297046.	4.05	73379.	2689.	9.93	0.0300	0.	74.	0.14
MILE	39.10	821.72	296920.	6.54	45369.	2615.	12.33	0.0230	0.	71.	0.28
MILE	37.00	821.75	296864.	3.68	80614.	1905.	12.46	0.0280	0.	70.	0.10
MILE	36.00	821.00	296846.	6.60	44980.	1385.	12.82	0.0280	0.	72.	0.20

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 301 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 34.60	820.77	296831.	4.94	60046.	1994.	13.93	0.0280	0.	72.	0.16
MILE 33.60	820.97	296812.	2.14	138829.	3585.	13.16	0.0290	0.	78.	0.06
MILE 31.50	820.41	296768.	5.13	57822.	2791.	14.41	0.0250	0.	82.	0.20
MILE 30.10	820.20	296760.	4.65	63834.	1204.	13.60	0.0200	0.	79.	0.11
MILE 29.00	820.07	296755.	4.64	63969.	1602.	15.00	0.0200	0.	80.	0.13
MILE 27.30	819.91	296750.	4.60	64556.	1531.	15.30	0.0230	0.	83.	0.12
MILE 25.20	819.78	296746.	3.92	75677.	1514.	16.17	0.0230	0.	85.	0.10
MILE 23.10	819.49	296745.	4.53	65492.	1701.	15.11	0.0230	0.	89.	0.13

ODATE 10-12-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 15.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	878.22	300000.	11.35	26421.	952.	10.09	0.0290	0.	60.	0.38
MILE 77.70	875.93	299983.	8.79	34115.	1163.	10.97	0.0400	0.	65.	0.29
MILE 75.60	868.68	299949.	9.90	30288.	2242.	10.16	0.0400	0.	62.	0.47
MILE 73.50	859.15	299891.	11.03	27189.	1682.	10.40	0.0330	0.	60.	0.48
MILE 71.40	856.22	299831.	7.46	40182.	1406.	10.73	0.0400	0.	58.	0.25
MILE 69.30	852.08	299764.	8.22	36475.	1395.	10.19	0.0340	0.	53.	0.28
MILE 67.20	849.96	299636.	5.36	55914.	3387.	9.78	0.0340	0.	59.	0.23
MILE 65.10	846.55	299417.	7.10	42193.	4031.	10.00	0.0320	0.	60.	0.39
MILE 63.00	844.78	299198.	5.06	59123.	2881.	8.43	0.0400	0.	64.	0.20
MILE 60.90	839.83	299020.	7.60	39369.	2480.	9.62	0.0450	0.	63.	0.34
MILE 58.80	832.31	298879.	7.89	37892.	1811.	8.46	0.0400	0.	59.	0.30
MILE 57.00	830.64	298784.	7.88	37914.	1901.	8.79	0.0200	0.	56.	0.31
MILE 55.00	828.28	298680.	9.12	32742.	1893.	8.71	0.0200	0.	55.	0.39
MILE 53.10	827.36	298580.	6.67	44759.	2250.	9.30	0.0200	0.	54.	0.26
MILE 51.00	826.07	298447.	6.97	42808.	2897.	9.14	0.0200	0.	57.	0.32
MILE 48.30	825.42	298175.	5.15	57849.	5904.	11.18	0.0200	0.	56.	0.29
MILE 46.20	824.79	297901.	5.80	51348.	5842.	11.34	0.0200	0.	63.	0.34
MILE 44.10	824.77	297700.	3.49	85337.	2939.	11.00	0.0300	0.	70.	0.11
MILE 43.70	823.65	297677.	8.65	34421.	2802.	12.96	0.0300	0.	71.	0.43
MILE 42.00	823.58	297604.	4.05	73413.	2690.	9.93	0.0300	0.	74.	0.14
MILE 39.10	821.73	297502.	6.56	45377.	2615.	12.33	0.0230	0.	71.	0.28
MILE 37.00	821.75	297456.	3.69	80628.	1906.	12.46	0.0280	0.	70.	0.10
MILE 36.00	821.01	297441.	6.61	44985.	1385.	12.82	0.0280	0.	72.	0.20
MILE 34.60	820.77	297429.	4.95	60051.	1994.	13.93	0.0280	0.	72.	0.16
MILE 33.60	820.98	297414.	2.14	138845.	3585.	13.16	0.0290	0.	78.	0.06
MILE 31.50	820.41	297378.	5.14	57825.	2791.	14.41	0.0250	0.	82.	0.20
MILE 30.10	820.20	297371.	4.66	63837.	1204.	13.60	0.0200	0.	79.	0.11
MILE 29.00	820.07	297368.	4.65	63972.	1603.	15.00	0.0200	0.	80.	0.13
MILE 27.30	819.91	297363.	4.61	64557.	1531.	15.30	0.0230	0.	83.	0.13
MILE 25.20	819.78	297360.	3.93	75678.	1514.	16.17	0.0230	0.	85.	0.10
MILE 23.10	819.49	297359.	4.54	65492.	1701.	15.11	0.0230	0.	89.	0.13

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

0DATE 10-12-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 16.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	878.22	300000.	11.35	26425.	952.	10.09	0.0290	0.	60.	0.38
MILE 77.70	875.94	299986.	8.79	34119.	1163.	10.97	0.0400	0.	65.	0.29
MILE 75.60	868.69	299958.	9.90	30293.	2242.	10.16	0.0400	0.	62.	0.47
MILE 73.50	859.16	299911.	11.03	27195.	1683.	10.40	0.0330	0.	60.	0.48
MILE 71.40	856.23	299862.	7.46	40194.	1406.	10.73	0.0400	0.	58.	0.25
MILE 69.30	852.09	299808.	8.22	36487.	1395.	10.19	0.0340	0.	53.	0.28
MILE 67.20	849.98	299704.	5.36	55935.	3388.	9.78	0.0340	0.	59.	0.23
MILE 65.10	846.57	299526.	7.10	42209.	4033.	10.00	0.0320	0.	60.	0.39
MILE 63.00	844.79	299348.	5.06	59174.	2882.	8.43	0.0400	0.	64.	0.20
MILE 60.90	839.85	299204.	7.60	39392.	2481.	9.62	0.0450	0.	63.	0.34
MILE 58.80	832.33	299089.	7.89	37914.	1812.	8.46	0.0400	0.	59.	0.30
MILE 57.00	830.66	299013.	7.88	37937.	1902.	8.79	0.0200	0.	56.	0.31
MILE 55.00	828.29	298928.	9.12	32761.	1894.	8.71	0.0200	0.	55.	0.39
MILE 53.10	827.38	298847.	6.67	44780.	2251.	9.30	0.0200	0.	54.	0.26
MILE 51.00	826.08	298740.	6.98	42826.	2898.	9.14	0.0200	0.	57.	0.32
MILE 48.30	825.43	298518.	5.16	57871.	5906.	11.19	0.0200	0.	57.	0.29
MILE 46.20	824.80	298296.	5.81	51366.	5844.	11.34	0.0200	0.	63.	0.35
MILE 44.10	824.79	298133.	3.49	85370.	2940.	11.00	0.0300	0.	70.	0.11
MILE 43.70	823.66	298115.	8.66	34429.	2803.	12.96	0.0300	0.	71.	0.44
MILE 42.00	823.59	298055.	4.06	73440.	2691.	9.93	0.0300	0.	74.	0.14
MILE 39.10	821.73	297972.	6.57	45384.	2615.	12.33	0.0230	0.	71.	0.28
MILE 37.00	821.76	297935.	3.69	80640.	1906.	12.46	0.0280	0.	70.	0.10
MILE 36.00	821.01	297923.	6.62	44990.	1385.	12.82	0.0280	0.	72.	0.20
MILE 34.60	820.78	297913.	4.96	60055.	1994.	13.93	0.0280	0.	72.	0.16
MILE 33.60	820.98	297901.	2.15	138857.	3585.	13.16	0.0290	0.	78.	0.06
MILE 31.50	820.41	297871.	5.15	57828.	2791.	14.41	0.0250	0.	82.	0.20
MILE 30.10	820.20	297865.	4.67	63840.	1204.	13.60	0.0200	0.	79.	0.11
MILE 29.00	820.08	297863.	4.66	63974.	1603.	15.00	0.0200	0.	80.	0.13
MILE 27.30	819.91	297859.	4.61	64558.	1531.	15.30	0.0230	0.	83.	0.13
MILE 25.20	819.79	297857.	3.94	75679.	1514.	16.17	0.0230	0.	85.	0.10
MILE 23.10	819.49	297855.	4.55	65492.	1701.	15.11	0.0230	0.	89.	0.13

0DATE 10-12-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 17.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	878.23	300000.	11.35	26427.	952.	10.09	0.0290	0.	60.	0.38
MILE 77.70	875.94	299989.	8.79	34123.	1163.	10.97	0.0400	0.	65.	0.29
MILE 75.60	868.69	299965.	9.90	30296.	2242.	10.16	0.0400	0.	62.	0.47
MILE 73.50	859.17	299927.	11.03	27200.	1683.	10.40	0.0330	0.	60.	0.48
MILE 71.40	856.24	299887.	7.46	40204.	1407.	10.73	0.0400	0.	58.	0.25

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 303 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 69.30	852.10	299843.	8.22	36497.	1396.	10.19	0.0340	0.	53.	0.28
MILE 67.20	849.99	299758.	5.36	55952.	3389.	9.78	0.0340	0.	59.	0.23
MILE 65.10	846.58	299614.	7.10	42223.	4034.	10.00	0.0320	0.	60.	0.39
MILE 63.00	844.81	299470.	5.06	59216.	2882.	8.43	0.0400	0.	64.	0.20
MILE 60.90	839.86	299353.	7.60	39409.	2481.	9.62	0.0450	0.	63.	0.34
MILE 58.80	832.34	299260.	7.89	37932.	1812.	8.46	0.0400	0.	59.	0.30
MILE 57.00	830.67	299198.	7.88	37955.	1903.	8.79	0.0200	0.	56.	0.31
MILE 55.00	828.31	299129.	9.13	32776.	1895.	8.71	0.0200	0.	55.	0.39
MILE 53.10	827.39	299063.	6.68	44796.	2252.	9.30	0.0200	0.	54.	0.26
MILE 51.00	826.09	298976.	6.98	42840.	2899.	9.15	0.0200	0.	57.	0.32
MILE 48.30	825.44	298796.	5.16	57888.	5908.	11.19	0.0200	0.	57.	0.29
MILE 46.20	824.81	298616.	5.81	51381.	5845.	11.34	0.0200	0.	63.	0.35
MILE 44.10	824.80	298484.	3.50	85397.	2940.	11.00	0.0300	0.	70.	0.11
MILE 43.70	823.66	298469.	8.67	34435.	2803.	12.96	0.0300	0.	71.	0.44
MILE 42.00	823.60	298420.	4.06	73462.	2691.	9.93	0.0300	0.	74.	0.14
MILE 39.10	821.74	298353.	6.57	45389.	2616.	12.33	0.0230	0.	71.	0.28
MILE 37.00	821.77	298322.	3.70	80649.	1906.	12.46	0.0280	0.	70.	0.10
MILE 36.00	821.01	298313.	6.63	44993.	1385.	12.82	0.0280	0.	72.	0.21
MILE 34.60	820.78	298305.	4.97	60058.	1994.	13.93	0.0280	0.	72.	0.16
MILE 33.60	820.98	298295.	2.15	138867.	3585.	13.16	0.0290	0.	78.	0.06
MILE 31.50	820.41	298271.	5.16	57830.	2791.	14.41	0.0250	0.	82.	0.20
MILE 30.10	820.20	298266.	4.67	63841.	1204.	13.60	0.0200	0.	79.	0.11
MILE 29.00	820.08	298264.	4.66	63975.	1603.	15.00	0.0200	0.	80.	0.13
MILE 27.30	819.91	298261.	4.62	64559.	1531.	15.30	0.0230	0.	83.	0.13
MILE 25.20	819.79	298259.	3.94	75680.	1514.	16.17	0.0230	0.	85.	0.10
MILE 23.10	819.49	298258.	4.55	65492.	1701.	15.11	0.0230	0.	89.	0.13

0DATE 10-12-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 18.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
INFLOW DEPTH	FROUDE									
MILE 79.80	878.23	300000.	11.35	26430.	952.	10.09	0.0290	0.	60.	0.38
MILE 77.70	875.94	299991.	8.79	34125.	1163.	10.97	0.0400	0.	65.	0.29
MILE 75.60	868.69	299972.	9.90	30299.	2243.	10.16	0.0400	0.	62.	0.47
MILE 73.50	859.17	299940.	11.03	27203.	1683.	10.40	0.0330	0.	60.	0.48
MILE 71.40	856.24	299908.	7.46	40212.	1407.	10.74	0.0400	0.	58.	0.25
MILE 69.30	852.11	299872.	8.21	36505.	1396.	10.20	0.0340	0.	53.	0.28
MILE 67.20	850.00	299803.	5.36	55966.	3390.	9.78	0.0340	0.	59.	0.23
MILE 65.10	846.59	299685.	7.10	42234.	4035.	10.00	0.0320	0.	60.	0.39
MILE 63.00	844.82	299568.	5.06	59250.	2883.	8.42	0.0400	0.	64.	0.20
MILE 60.90	839.87	299473.	7.60	39424.	2482.	9.62	0.0450	0.	63.	0.34
MILE 58.80	832.35	299398.	7.89	37947.	1813.	8.46	0.0400	0.	59.	0.30
MILE 57.00	830.68	299347.	7.88	37970.	1903.	8.79	0.0200	0.	56.	0.31
MILE 55.00	828.32	299292.	9.13	32789.	1895.	8.71	0.0200	0.	55.	0.39
MILE 53.10	827.40	299238.	6.68	44809.	2253.	9.30	0.0200	0.	54.	0.26
MILE 51.00	826.10	299167.	6.98	42852.	2900.	9.15	0.0200	0.	57.	0.32
MILE 48.30	825.45	299021.	5.16	57902.	5909.	11.19	0.0200	0.	57.	0.29

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 304 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	46.20	824.82	298875.	5.82	51393.	5847.	11.34	0.0200	0.	63.	0.35
MILE	44.10	824.81	298768.	3.50	85419.	2941.	11.00	0.0300	0.	70.	0.11
MILE	43.70	823.67	298755.	8.67	34440.	2804.	12.97	0.0300	0.	71.	0.44
MILE	42.00	823.61	298716.	4.07	73480.	2692.	9.93	0.0300	0.	74.	0.14
MILE	39.10	821.74	298661.	6.58	45393.	2616.	12.33	0.0230	0.	71.	0.28
MILE	37.00	821.77	298636.	3.70	80657.	1906.	12.47	0.0280	0.	70.	0.10
MILE	36.00	821.02	298629.	6.64	44996.	1385.	12.82	0.0280	0.	72.	0.21
MILE	34.60	820.78	298622.	4.97	60061.	1994.	13.93	0.0280	0.	72.	0.16
MILE	33.60	820.99	298614.	2.15	138875.	3586.	13.16	0.0290	0.	78.	0.06
MILE	31.50	820.42	298594.	5.16	57832.	2791.	14.41	0.0250	0.	82.	0.20
MILE	30.10	820.20	298591.	4.68	63843.	1204.	13.60	0.0200	0.	79.	0.11
MILE	29.00	820.08	298589.	4.67	63976.	1603.	15.00	0.0200	0.	80.	0.13
MILE	27.30	819.91	298586.	4.62	64560.	1531.	15.30	0.0230	0.	83.	0.13
MILE	25.20	819.79	298584.	3.95	75680.	1514.	16.17	0.0230	0.	85.	0.10
MILE	23.10	819.49	298584.	4.56	65492.	1701.	15.11	0.0230	0.	89.	0.13

ODATE 10-12-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 19.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE	79.80	878.23	300000.	11.35	26431.	952.	10.09	0.0290	0.	60.	0.38
MILE	77.70	875.95	299992.	8.79	34128.	1163.	10.97	0.0400	0.	65.	0.29
MILE	75.60	868.70	299977.	9.90	30302.	2243.	10.16	0.0400	0.	62.	0.47
MILE	73.50	859.18	299951.	11.02	27206.	1683.	10.40	0.0330	0.	60.	0.48
MILE	71.40	856.25	299924.	7.46	40219.	1407.	10.74	0.0400	0.	58.	0.25
MILE	69.30	852.12	299895.	8.21	36511.	1396.	10.20	0.0340	0.	53.	0.28
MILE	67.20	850.01	299838.	5.36	55976.	3391.	9.78	0.0340	0.	59.	0.23
MILE	65.10	846.60	299743.	7.10	42243.	4036.	10.00	0.0320	0.	60.	0.39
MILE	63.00	844.83	299648.	5.06	59277.	2883.	8.42	0.0400	0.	64.	0.20
MILE	60.90	839.88	299571.	7.60	39436.	2482.	9.63	0.0450	0.	63.	0.34
MILE	58.80	832.36	299510.	7.89	37959.	1813.	8.46	0.0400	0.	59.	0.30
MILE	57.00	830.69	299469.	7.88	37982.	1904.	8.79	0.0200	0.	56.	0.31
MILE	55.00	828.33	299423.	9.13	32799.	1896.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.41	299380.	6.68	44820.	2253.	9.30	0.0200	0.	54.	0.26
MILE	51.00	826.11	299322.	6.98	42861.	2900.	9.15	0.0200	0.	57.	0.32
MILE	48.30	825.46	299204.	5.17	57914.	5911.	11.19	0.0200	0.	57.	0.29
MILE	46.20	824.83	299085.	5.82	51403.	5848.	11.34	0.0200	0.	63.	0.35
MILE	44.10	824.81	298998.	3.50	85436.	2941.	11.00	0.0300	0.	70.	0.11
MILE	43.70	823.68	298988.	8.68	34444.	2804.	12.97	0.0300	0.	71.	0.44
MILE	42.00	823.61	298956.	4.07	73495.	2692.	9.93	0.0300	0.	74.	0.14
MILE	39.10	821.75	298911.	6.58	45397.	2616.	12.33	0.0230	0.	71.	0.28
MILE	37.00	821.77	298891.	3.71	80663.	1906.	12.47	0.0280	0.	70.	0.10
MILE	36.00	821.02	298885.	6.64	44998.	1385.	12.82	0.0280	0.	72.	0.21
MILE	34.60	820.78	298879.	4.98	60063.	1994.	13.93	0.0280	0.	72.	0.16
MILE	33.60	820.99	298873.	2.15	138881.	3586.	13.16	0.0290	0.	78.	0.06
MILE	31.50	820.42	298857.	5.17	57834.	2791.	14.41	0.0250	0.	82.	0.20
MILE	30.10	820.20	298854.	4.68	63844.	1204.	13.60	0.0200	0.	79.	0.11

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 305 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	29.00	820.08	298852.	4.67	63977.	1603.	15.00	0.0200	0.	80.	0.13
MILE	27.30	819.91	298850.	4.63	64561.	1531.	15.30	0.0230	0.	83.	0.13
MILE	25.20	819.79	298849.	3.95	75681.	1514.	16.17	0.0230	0.	85.	0.10
MILE	23.10	819.49	298848.	4.56	65492.	1701.	15.11	0.0230	0.	89.	0.13

0DATE 10-12-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 20.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE	79.80	878.23	300000.	11.35	26433.	952.	10.09	0.0290	0.	60.	0.38
MILE	77.70	875.95	299994.	8.79	34130.	1163.	10.97	0.0400	0.	65.	0.29
MILE	75.60	868.70	299981.	9.90	30304.	2243.	10.16	0.0400	0.	62.	0.47
MILE	73.50	859.18	299959.	11.02	27209.	1684.	10.40	0.0330	0.	60.	0.48
MILE	71.40	856.25	299938.	7.46	40224.	1407.	10.74	0.0400	0.	58.	0.25
MILE	69.30	852.12	299914.	8.21	36516.	1396.	10.20	0.0340	0.	53.	0.28
MILE	67.20	850.01	299868.	5.36	55985.	3391.	9.78	0.0340	0.	59.	0.23
MILE	65.10	846.61	299790.	7.10	42250.	4037.	10.00	0.0320	0.	60.	0.39
MILE	63.00	844.83	299713.	5.05	59299.	2883.	8.42	0.0400	0.	64.	0.20
MILE	60.90	839.89	299650.	7.60	39445.	2483.	9.63	0.0450	0.	63.	0.34
MILE	58.80	832.37	299600.	7.89	37968.	1814.	8.46	0.0400	0.	59.	0.30
MILE	57.00	830.70	299567.	7.89	37992.	1904.	8.79	0.0200	0.	56.	0.31
MILE	55.00	828.33	299530.	9.13	32807.	1896.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.41	299495.	6.68	44829.	2254.	9.31	0.0200	0.	54.	0.26
MILE	51.00	826.12	299448.	6.99	42869.	2901.	9.15	0.0200	0.	57.	0.32
MILE	48.30	825.46	299352.	5.17	57923.	5912.	11.19	0.0200	0.	57.	0.29
MILE	46.20	824.83	299255.	5.82	51411.	5849.	11.34	0.0200	0.	63.	0.35
MILE	44.10	824.82	299184.	3.50	85451.	2941.	11.00	0.0300	0.	70.	0.11
MILE	43.70	823.68	299176.	8.69	34447.	2804.	12.97	0.0300	0.	71.	0.44
MILE	42.00	823.62	299150.	4.07	73507.	2692.	9.93	0.0300	0.	74.	0.14
MILE	39.10	821.75	299114.	6.59	45400.	2616.	12.33	0.0230	0.	71.	0.28
MILE	37.00	821.78	299097.	3.71	80668.	1906.	12.47	0.0280	0.	70.	0.10
MILE	36.00	821.02	299092.	6.65	44999.	1385.	12.82	0.0280	0.	72.	0.21
MILE	34.60	820.79	299088.	4.98	60065.	1995.	13.93	0.0280	0.	72.	0.16
MILE	33.60	820.99	299082.	2.15	138886.	3586.	13.16	0.0290	0.	78.	0.06
MILE	31.50	820.42	299069.	5.17	57835.	2791.	14.41	0.0250	0.	82.	0.20
MILE	30.10	820.20	299067.	4.68	63845.	1204.	13.60	0.0200	0.	79.	0.11
MILE	29.00	820.08	299066.	4.67	63978.	1603.	15.00	0.0200	0.	80.	0.13
MILE	27.30	819.91	299064.	4.63	64561.	1531.	15.30	0.0230	0.	83.	0.13
MILE	25.20	819.79	299063.	3.95	75681.	1514.	16.17	0.0230	0.	85.	0.10
MILE	23.10	819.49	299062.	4.57	65492.	1701.	15.11	0.0230	0.	89.	0.13

0DATE 10-12-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 306 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

	TIME 21.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
	INFLOW DEPTH	FROUDE									
MILE	79.80	878.23	300000.	11.35	26434.	952.	10.09	0.0290	0.	60.	0.38
MILE	77.70	875.95	299995.	8.79	34131.	1163.	10.97	0.0400	0.	65.	0.29
MILE	75.60	868.70	299984.	9.90	30306.	2243.	10.16	0.0400	0.	62.	0.47
MILE	73.50	859.18	299967.	11.02	27211.	1684.	10.40	0.0330	0.	60.	0.48
MILE	71.40	856.25	299949.	7.46	40229.	1407.	10.74	0.0400	0.	58.	0.25
MILE	69.30	852.13	299929.	8.21	36520.	1396.	10.20	0.0340	0.	53.	0.28
MILE	67.20	850.02	299892.	5.36	55992.	3392.	9.78	0.0340	0.	59.	0.23
MILE	65.10	846.61	299828.	7.10	42256.	4037.	10.00	0.0320	0.	60.	0.39
MILE	63.00	844.84	299765.	5.05	59317.	2884.	8.42	0.0400	0.	64.	0.20
MILE	60.90	839.89	299714.	7.60	39453.	2483.	9.63	0.0450	0.	63.	0.34
MILE	58.80	832.38	299674.	7.89	37976.	1814.	8.46	0.0400	0.	59.	0.30
MILE	57.00	830.70	299647.	7.89	38000.	1904.	8.79	0.0200	0.	56.	0.31
MILE	55.00	828.34	299617.	9.13	32813.	1896.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.42	299588.	6.68	44836.	2254.	9.31	0.0200	0.	54.	0.26
MILE	51.00	826.12	299550.	6.99	42875.	2901.	9.15	0.0200	0.	57.	0.32
MILE	48.30	825.47	299472.	5.17	57931.	5913.	11.19	0.0200	0.	57.	0.29
MILE	46.20	824.84	299393.	5.82	51418.	5849.	11.34	0.0200	0.	63.	0.35
MILE	44.10	824.82	299335.	3.50	85462.	2941.	11.00	0.0300	0.	70.	0.11
MILE	43.70	823.68	299329.	8.69	34450.	2804.	12.97	0.0300	0.	71.	0.44
MILE	42.00	823.62	299308.	4.07	73516.	2693.	9.93	0.0300	0.	74.	0.14
MILE	39.10	821.75	299278.	6.59	45402.	2616.	12.33	0.0230	0.	71.	0.28
MILE	37.00	821.78	299265.	3.71	80672.	1906.	12.47	0.0280	0.	70.	0.10
MILE	36.00	821.02	299261.	6.65	45001.	1385.	12.82	0.0280	0.	72.	0.21
MILE	34.60	820.79	299257.	4.98	60066.	1995.	13.93	0.0280	0.	72.	0.16
MILE	33.60	820.99	299253.	2.15	138891.	3586.	13.16	0.0290	0.	78.	0.06
MILE	31.50	820.42	299242.	5.17	57836.	2792.	14.41	0.0250	0.	82.	0.20
MILE	30.10	820.20	299240.	4.69	63846.	1204.	13.60	0.0200	0.	79.	0.11
MILE	29.00	820.08	299239.	4.68	63979.	1603.	15.00	0.0200	0.	80.	0.13
MILE	27.30	819.91	299238.	4.63	64562.	1531.	15.30	0.0230	0.	83.	0.13
MILE	25.20	819.79	299237.	3.95	75682.	1514.	16.17	0.0230	0.	85.	0.10
MILE	23.10	819.49	299236.	4.57	65492.	1701.	15.11	0.0230	0.	89.	0.13

0DATE 10-12-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 22.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
	INFLOW DEPTH	FROUDE									
MILE	79.80	878.24	300000.	11.35	26435.	952.	10.09	0.0290	0.	60.	0.38
MILE	77.70	875.95	299996.	8.79	34132.	1163.	10.97	0.0400	0.	65.	0.29
MILE	75.60	868.70	299987.	9.90	30307.	2243.	10.16	0.0400	0.	62.	0.47
MILE	73.50	859.18	299973.	11.02	27213.	1684.	10.40	0.0330	0.	60.	0.48
MILE	71.40	856.26	299958.	7.46	40232.	1407.	10.74	0.0400	0.	58.	0.25
MILE	69.30	852.13	299942.	8.21	36524.	1397.	10.20	0.0340	0.	53.	0.28
MILE	67.20	850.02	299911.	5.36	55997.	3392.	9.78	0.0340	0.	59.	0.23
MILE	65.10	846.62	299860.	7.10	42260.	4038.	10.00	0.0320	0.	60.	0.39

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 307 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	63.00	844.84	299808.	5.05	59332.	2884.	8.42	0.0400	0.	64.	0.20
MILE	60.90	839.90	299767.	7.60	39459.	2483.	9.63	0.0450	0.	63.	0.34
MILE	58.80	832.38	299734.	7.89	37982.	1814.	8.46	0.0400	0.	59.	0.30
MILE	57.00	830.71	299711.	7.89	38006.	1905.	8.79	0.0200	0.	56.	0.31
MILE	55.00	828.34	299687.	9.13	32819.	1897.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.42	299664.	6.68	44842.	2254.	9.31	0.0200	0.	54.	0.26
MILE	51.00	826.13	299633.	6.99	42880.	2901.	9.15	0.0200	0.	57.	0.32
MILE	48.30	825.47	299569.	5.17	57937.	5913.	11.19	0.0200	0.	57.	0.29
MILE	46.20	824.84	299505.	5.82	51423.	5850.	11.34	0.0200	0.	63.	0.35
MILE	44.10	824.83	299458.	3.50	85472.	2942.	11.00	0.0300	0.	70.	0.11
MILE	43.70	823.69	299453.	8.69	34452.	2804.	12.97	0.0300	0.	71.	0.44
MILE	42.00	823.62	299436.	4.07	73524.	2693.	9.93	0.0300	0.	74.	0.14
MILE	39.10	821.75	299412.	6.59	45404.	2617.	12.33	0.0230	0.	71.	0.28
MILE	37.00	821.78	299401.	3.71	80676.	1906.	12.47	0.0280	0.	70.	0.10
MILE	36.00	821.02	299397.	6.65	45002.	1385.	12.82	0.0280	0.	72.	0.21
MILE	34.60	820.79	299395.	4.98	60068.	1995.	13.93	0.0280	0.	72.	0.16
MILE	33.60	820.99	299391.	2.16	138894.	3586.	13.16	0.0290	0.	78.	0.06
MILE	31.50	820.42	299382.	5.18	57836.	2792.	14.41	0.0250	0.	82.	0.20
MILE	30.10	820.20	299380.	4.69	63847.	1204.	13.60	0.0200	0.	79.	0.11
MILE	29.00	820.08	299380.	4.68	63979.	1603.	15.00	0.0200	0.	80.	0.13
MILE	27.30	819.92	299379.	4.64	64562.	1531.	15.30	0.0230	0.	83.	0.13
MILE	25.20	819.79	299378.	3.96	75682.	1514.	16.17	0.0230	0.	85.	0.10
MILE	23.10	819.49	299377.	4.57	65492.	1701.	15.11	0.0230	0.	89.	0.13

0DATE 10-12-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 23.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE	79.80	878.24	300000.	11.35	26436.	952.	10.09	0.0290	0.	60.	0.38
MILE	77.70	875.95	299996.	8.79	34133.	1163.	10.97	0.0400	0.	65.	0.29
MILE	75.60	868.71	299989.	9.90	30308.	2243.	10.16	0.0400	0.	62.	0.47
MILE	73.50	859.19	299978.	11.02	27214.	1684.	10.40	0.0330	0.	60.	0.48
MILE	71.40	856.26	299966.	7.46	40235.	1407.	10.74	0.0400	0.	58.	0.25
MILE	69.30	852.13	299952.	8.21	36527.	1397.	10.20	0.0340	0.	53.	0.28
MILE	67.20	850.02	299928.	5.36	56002.	3392.	9.78	0.0340	0.	59.	0.23
MILE	65.10	846.62	299885.	7.10	42264.	4038.	10.00	0.0320	0.	60.	0.39
MILE	63.00	844.85	299843.	5.05	59344.	2884.	8.42	0.0400	0.	64.	0.20
MILE	60.90	839.90	299809.	7.60	39464.	2484.	9.63	0.0450	0.	63.	0.34
MILE	58.80	832.39	299782.	7.89	37987.	1814.	8.46	0.0400	0.	59.	0.30
MILE	57.00	830.71	299764.	7.89	38011.	1905.	8.79	0.0200	0.	56.	0.31
MILE	55.00	828.35	299744.	9.13	32823.	1897.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.43	299725.	6.68	44846.	2255.	9.31	0.0200	0.	54.	0.26
MILE	51.00	826.13	299700.	6.99	42884.	2902.	9.15	0.0200	0.	57.	0.32
MILE	48.30	825.48	299648.	5.17	57942.	5914.	11.19	0.0200	0.	57.	0.29
MILE	46.20	824.85	299596.	5.83	51427.	5850.	11.35	0.0200	0.	63.	0.35
MILE	44.10	824.83	299558.	3.50	85479.	2942.	11.00	0.0300	0.	70.	0.11
MILE	43.70	823.69	299554.	8.69	34454.	2805.	12.97	0.0300	0.	71.	0.44

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 308 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	42.00	823.63	299540.	4.07	73531.	2693.	9.93	0.0300	0.	74.	0.14
MILE	39.10	821.75	299520.	6.60	45405.	2617.	12.33	0.0230	0.	71.	0.28
MILE	37.00	821.78	299511.	3.71	80678.	1906.	12.47	0.0280	0.	70.	0.10
MILE	36.00	821.02	299508.	6.66	45003.	1385.	12.82	0.0280	0.	72.	0.21
MILE	34.60	820.79	299506.	4.99	60068.	1995.	13.93	0.0280	0.	72.	0.16
MILE	33.60	820.99	299503.	2.16	138897.	3586.	13.16	0.0290	0.	78.	0.06
MILE	31.50	820.42	299496.	5.18	57837.	2792.	14.41	0.0250	0.	82.	0.20
MILE	30.10	820.21	299495.	4.69	63847.	1204.	13.60	0.0200	0.	79.	0.11
MILE	29.00	820.08	299494.	4.68	63980.	1603.	15.00	0.0200	0.	80.	0.13
MILE	27.30	819.92	299493.	4.64	64563.	1532.	15.30	0.0230	0.	83.	0.13
MILE	25.20	819.79	299492.	3.96	75682.	1514.	16.17	0.0230	0.	85.	0.10
MILE	23.10	819.49	299492.	4.57	65492.	1701.	15.11	0.0230	0.	89.	0.13

0DATE 10-13-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 0.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE	79.80	878.24	300000.	11.35	26437.	952.	10.09	0.0290	0.	60.	0.38
MILE	77.70	875.95	299997.	8.79	34134.	1163.	10.97	0.0400	0.	65.	0.29
MILE	75.60	868.71	299991.	9.90	30309.	2243.	10.16	0.0400	0.	62.	0.47
MILE	73.50	859.19	299982.	11.02	27215.	1684.	10.40	0.0330	0.	60.	0.48
MILE	71.40	856.26	299972.	7.46	40237.	1407.	10.74	0.0400	0.	58.	0.25
MILE	69.30	852.14	299961.	8.21	36529.	1397.	10.20	0.0340	0.	53.	0.28
MILE	67.20	850.03	299941.	5.36	56006.	3393.	9.78	0.0340	0.	59.	0.23
MILE	65.10	846.62	299906.	7.10	42267.	4039.	10.00	0.0320	0.	60.	0.39
MILE	63.00	844.85	299872.	5.05	59353.	2884.	8.42	0.0400	0.	64.	0.20
MILE	60.90	839.90	299844.	7.60	39468.	2484.	9.63	0.0450	0.	63.	0.34
MILE	58.80	832.39	299822.	7.89	37991.	1815.	8.46	0.0400	0.	59.	0.30
MILE	57.00	830.71	299807.	7.89	38015.	1905.	8.79	0.0200	0.	56.	0.31
MILE	55.00	828.35	299791.	9.13	32827.	1897.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.43	299776.	6.68	44850.	2255.	9.31	0.0200	0.	54.	0.26
MILE	51.00	826.13	299755.	6.99	42887.	2902.	9.15	0.0200	0.	57.	0.32
MILE	48.30	825.48	299713.	5.17	57946.	5914.	11.19	0.0200	0.	57.	0.29
MILE	46.20	824.85	299670.	5.83	51430.	5851.	11.35	0.0200	0.	63.	0.35
MILE	44.10	824.83	299639.	3.51	85486.	2942.	11.00	0.0300	0.	70.	0.11
MILE	43.70	823.69	299636.	8.70	34455.	2805.	12.97	0.0300	0.	71.	0.44
MILE	42.00	823.63	299624.	4.07	73536.	2693.	9.93	0.0300	0.	74.	0.14
MILE	39.10	821.75	299608.	6.60	45407.	2617.	12.33	0.0230	0.	71.	0.28
MILE	37.00	821.78	299601.	3.71	80681.	1907.	12.47	0.0280	0.	70.	0.10
MILE	36.00	821.02	299599.	6.66	45004.	1385.	12.82	0.0280	0.	72.	0.21
MILE	34.60	820.79	299597.	4.99	60069.	1995.	13.93	0.0280	0.	72.	0.16
MILE	33.60	820.99	299594.	2.16	138899.	3586.	13.16	0.0290	0.	78.	0.06
MILE	31.50	820.42	299589.	5.18	57838.	2792.	14.41	0.0250	0.	82.	0.20
MILE	30.10	820.21	299588.	4.69	63848.	1204.	13.60	0.0200	0.	79.	0.11
MILE	29.00	820.08	299587.	4.68	63980.	1603.	15.00	0.0200	0.	80.	0.13
MILE	27.30	819.92	299586.	4.64	64563.	1532.	15.30	0.0230	0.	83.	0.13
MILE	25.20	819.79	299586.	3.96	75682.	1514.	16.17	0.0230	0.	85.	0.10

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 309 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 23.10 819.49 299585. 4.57 65492. 1701. 15.11 0.0230 0. 89. 0.13

ODATE 10-13-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	1.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL
INFLOW	DEPTH	FROUDE								
MILE	79.80	878.24	300000.	11.35	26437.	952.	10.09	0.0290	0.	60. 0.38
MILE	77.70	875.95	299998.	8.79	34135.	1163.	10.97	0.0400	0.	65. 0.29
MILE	75.60	868.71	299993.	9.90	30310.	2243.	10.16	0.0400	0.	62. 0.47
MILE	73.50	859.19	299985.	11.02	27216.	1684.	10.40	0.0330	0.	60. 0.48
MILE	71.40	856.26	299977.	7.45	40239.	1407.	10.74	0.0400	0.	58. 0.25
MILE	69.30	852.14	299968.	8.21	36531.	1397.	10.20	0.0340	0.	53. 0.28
MILE	67.20	850.03	299951.	5.36	56009.	3393.	9.78	0.0340	0.	59. 0.23
MILE	65.10	846.62	299923.	7.10	42270.	4039.	10.00	0.0320	0.	60. 0.39
MILE	63.00	844.85	299895.	5.05	59361.	2884.	8.42	0.0400	0.	64. 0.20
MILE	60.90	839.91	299872.	7.60	39471.	2484.	9.63	0.0450	0.	63. 0.34
MILE	58.80	832.39	299854.	7.89	37995.	1815.	8.46	0.0400	0.	59. 0.30
MILE	57.00	830.72	299842.	7.89	38019.	1905.	8.79	0.0200	0.	56. 0.31
MILE	55.00	828.35	299829.	9.13	32829.	1897.	8.71	0.0200	0.	55. 0.39
MILE	53.10	827.43	299816.	6.68	44853.	2255.	9.31	0.0200	0.	54. 0.26
MILE	51.00	826.13	299800.	6.99	42890.	2902.	9.15	0.0200	0.	57. 0.32
MILE	48.30	825.48	299765.	5.17	57949.	5915.	11.19	0.0200	0.	57. 0.29
MILE	46.20	824.85	299731.	5.83	51433.	5851.	11.35	0.0200	0.	63. 0.35
MILE	44.10	824.83	299705.	3.51	85491.	2942.	11.00	0.0300	0.	70. 0.11
MILE	43.70	823.69	299702.	8.70	34456.	2805.	12.97	0.0300	0.	71. 0.44
MILE	42.00	823.63	299693.	4.08	73540.	2693.	9.93	0.0300	0.	74. 0.14
MILE	39.10	821.75	299680.	6.60	45408.	2617.	12.33	0.0230	0.	71. 0.28
MILE	37.00	821.78	299674.	3.71	80682.	1907.	12.47	0.0280	0.	70. 0.10
MILE	36.00	821.02	299672.	6.66	45004.	1385.	12.82	0.0280	0.	72. 0.21
MILE	34.60	820.79	299671.	4.99	60070.	1995.	13.93	0.0280	0.	72. 0.16
MILE	33.60	820.99	299669.	2.16	138901.	3586.	13.16	0.0290	0.	78. 0.06
MILE	31.50	820.42	299664.	5.18	57838.	2792.	14.41	0.0250	0.	82. 0.20
MILE	30.10	820.21	299663.	4.69	63848.	1204.	13.60	0.0200	0.	79. 0.11
MILE	29.00	820.08	299663.	4.68	63980.	1603.	15.00	0.0200	0.	80. 0.13
MILE	27.30	819.92	299662.	4.64	64563.	1532.	15.30	0.0230	0.	83. 0.13
MILE	25.20	819.79	299662.	3.96	75682.	1514.	16.17	0.0230	0.	85. 0.10
MILE	23.10	819.49	299661.	4.58	65492.	1701.	15.11	0.0230	0.	89. 0.13

ODATE 10-13-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	2.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL
INFLOW	DEPTH	FROUDE								
MILE	79.80	878.24	300000.	11.35	26438.	952.	10.09	0.0290	0.	60. 0.38

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 310 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	77.70	875.95	299998.	8.79	34136.	1163.	10.97	0.0400	0.	65.	0.29
MILE	75.60	868.71	299994.	9.90	30310.	2243.	10.16	0.0400	0.	62.	0.47
MILE	73.50	859.19	299987.	11.02	27217.	1684.	10.40	0.0330	0.	60.	0.48
MILE	71.40	856.26	299981.	7.45	40241.	1407.	10.74	0.0400	0.	58.	0.25
MILE	69.30	852.14	299974.	8.21	36532.	1397.	10.20	0.0340	0.	53.	0.28
MILE	67.20	850.03	299960.	5.36	56011.	3393.	9.78	0.0340	0.	59.	0.23
MILE	65.10	846.63	299937.	7.10	42272.	4039.	10.00	0.0320	0.	60.	0.39
MILE	63.00	844.85	299914.	5.05	59367.	2884.	8.42	0.0400	0.	64.	0.20
MILE	60.90	839.91	299895.	7.60	39474.	2484.	9.63	0.0450	0.	63.	0.34
MILE	58.80	832.39	299881.	7.89	37997.	1815.	8.46	0.0400	0.	59.	0.30
MILE	57.00	830.72	299871.	7.89	38022.	1905.	8.79	0.0200	0.	56.	0.31
MILE	55.00	828.35	299860.	9.13	32832.	1897.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.43	299850.	6.68	44856.	2255.	9.31	0.0200	0.	54.	0.26
MILE	51.00	826.14	299836.	6.99	42892.	2902.	9.15	0.0200	0.	57.	0.32
MILE	48.30	825.48	299808.	5.17	57952.	5915.	11.19	0.0200	0.	57.	0.29
MILE	46.20	824.85	299780.	5.83	51436.	5851.	11.35	0.0200	0.	63.	0.35
MILE	44.10	824.83	299759.	3.51	85495.	2942.	11.00	0.0300	0.	70.	0.11
MILE	43.70	823.69	299757.	8.70	34457.	2805.	12.97	0.0300	0.	71.	0.44
MILE	42.00	823.63	299749.	4.08	73543.	2693.	9.93	0.0300	0.	74.	0.14
MILE	39.10	821.76	299739.	6.60	45408.	2617.	12.33	0.0230	0.	71.	0.28
MILE	37.00	821.78	299734.	3.71	80684.	1907.	12.47	0.0280	0.	70.	0.10
MILE	36.00	821.02	299732.	6.66	45005.	1385.	12.82	0.0280	0.	72.	0.21
MILE	34.60	820.79	299731.	4.99	60070.	1995.	13.93	0.0280	0.	72.	0.16
MILE	33.60	821.00	299729.	2.16	138903.	3586.	13.16	0.0290	0.	78.	0.06
MILE	31.50	820.42	299725.	5.18	57838.	2792.	14.41	0.0250	0.	82.	0.20
MILE	30.10	820.21	299725.	4.69	63849.	1204.	13.60	0.0200	0.	79.	0.11
MILE	29.00	820.08	299724.	4.68	63980.	1603.	15.00	0.0200	0.	80.	0.13
MILE	27.30	819.92	299724.	4.64	64563.	1532.	15.30	0.0230	0.	83.	0.13
MILE	25.20	819.79	299723.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE	23.10	819.49	299723.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

ODATE 10-13-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 3.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
INFLOW	DEPTH	FROUDE									
MILE	79.80	878.24	300000.	11.35	26438.	952.	10.09	0.0290	0.	60.	0.38
MILE	77.70	875.95	299998.	8.79	34136.	1163.	10.97	0.0400	0.	65.	0.29
MILE	75.60	868.71	299995.	9.90	30311.	2243.	10.16	0.0400	0.	62.	0.47
MILE	73.50	859.19	299990.	11.02	27217.	1684.	10.40	0.0330	0.	60.	0.48
MILE	71.40	856.27	299984.	7.45	40242.	1407.	10.74	0.0400	0.	58.	0.25
MILE	69.30	852.14	299978.	8.21	36533.	1397.	10.20	0.0340	0.	53.	0.28
MILE	67.20	850.03	299967.	5.36	56013.	3393.	9.78	0.0340	0.	59.	0.23
MILE	65.10	846.63	299948.	7.10	42274.	4039.	10.00	0.0320	0.	60.	0.39
MILE	63.00	844.86	299929.	5.05	59373.	2884.	8.42	0.0400	0.	64.	0.20
MILE	60.90	839.91	299914.	7.60	39476.	2484.	9.63	0.0450	0.	63.	0.34
MILE	58.80	832.40	299902.	7.89	38000.	1815.	8.46	0.0400	0.	59.	0.30
MILE	57.00	830.72	299894.	7.89	38024.	1905.	8.79	0.0200	0.	56.	0.31

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 311 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	55.00	828.36	299885.	9.13	32834.	1897.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.43	299877.	6.69	44858.	2255.	9.31	0.0200	0.	54.	0.26
MILE	51.00	826.14	299866.	6.99	42894.	2902.	9.15	0.0200	0.	57.	0.32
MILE	48.30	825.48	299843.	5.17	57954.	5915.	11.19	0.0200	0.	57.	0.29
MILE	46.20	824.85	299820.	5.83	51437.	5852.	11.35	0.0200	0.	63.	0.35
MILE	44.10	824.84	299803.	3.51	85498.	2942.	11.00	0.0300	0.	70.	0.11
MILE	43.70	823.69	299801.	8.70	34458.	2805.	12.97	0.0300	0.	71.	0.44
MILE	42.00	823.63	299795.	4.08	73546.	2693.	9.93	0.0300	0.	74.	0.14
MILE	39.10	821.76	299786.	6.60	45409.	2617.	12.33	0.0230	0.	71.	0.28
MILE	37.00	821.78	299782.	3.72	80685.	1907.	12.47	0.0280	0.	70.	0.10
MILE	36.00	821.02	299781.	6.66	45005.	1385.	12.82	0.0280	0.	72.	0.21
MILE	34.60	820.79	299780.	4.99	60071.	1995.	13.93	0.0280	0.	72.	0.16
MILE	33.60	821.00	299779.	2.16	138904.	3586.	13.16	0.0290	0.	78.	0.06
MILE	31.50	820.42	299775.	5.18	57839.	2792.	14.41	0.0250	0.	82.	0.20
MILE	30.10	820.21	299775.	4.70	63849.	1204.	13.60	0.0200	0.	79.	0.11
MILE	29.00	820.08	299775.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE	27.30	819.92	299774.	4.64	64563.	1532.	15.30	0.0230	0.	83.	0.13
MILE	25.20	819.79	299774.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE	23.10	819.49	299774.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

ODATE 10-13-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 4.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	878.24	300000.	11.35	26438.	952.	10.09	0.0290	0.	60.	0.38
MILE	77.70	875.96	299999.	8.79	34136.	1163.	10.97	0.0400	0.	65.	0.29
MILE	75.60	868.71	299996.	9.90	30311.	2243.	10.16	0.0400	0.	62.	0.47
MILE	73.50	859.19	299992.	11.02	27218.	1684.	10.40	0.0330	0.	60.	0.48
MILE	71.40	856.27	299987.	7.45	40243.	1407.	10.74	0.0400	0.	58.	0.25
MILE	69.30	852.14	299982.	8.21	36534.	1397.	10.20	0.0340	0.	53.	0.28
MILE	67.20	850.03	299973.	5.36	56015.	3393.	9.78	0.0340	0.	59.	0.23
MILE	65.10	846.63	299957.	7.10	42275.	4039.	10.00	0.0320	0.	60.	0.39
MILE	63.00	844.86	299942.	5.05	59377.	2884.	8.42	0.0400	0.	64.	0.20
MILE	60.90	839.91	299930.	7.60	39478.	2484.	9.63	0.0450	0.	63.	0.34
MILE	58.80	832.40	299920.	7.89	38002.	1815.	8.46	0.0400	0.	59.	0.30
MILE	57.00	830.72	299913.	7.89	38026.	1905.	8.79	0.0200	0.	56.	0.31
MILE	55.00	828.36	299906.	9.13	32835.	1897.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.44	299899.	6.69	44859.	2255.	9.31	0.0200	0.	54.	0.26
MILE	51.00	826.14	299890.	6.99	42895.	2902.	9.15	0.0200	0.	57.	0.32
MILE	48.30	825.48	299871.	5.17	57955.	5915.	11.19	0.0200	0.	57.	0.29
MILE	46.20	824.85	299853.	5.83	51439.	5852.	11.35	0.0200	0.	63.	0.35
MILE	44.10	824.84	299839.	3.51	85501.	2942.	11.00	0.0300	0.	70.	0.11
MILE	43.70	823.70	299837.	8.70	34458.	2805.	12.97	0.0300	0.	71.	0.44
MILE	42.00	823.63	299832.	4.08	73548.	2693.	9.93	0.0300	0.	74.	0.14
MILE	39.10	821.76	299825.	6.60	45410.	2617.	12.33	0.0230	0.	71.	0.28
MILE	37.00	821.78	299822.	3.72	80686.	1907.	12.47	0.0280	0.	70.	0.10
MILE	36.00	821.02	299821.	6.66	45006.	1385.	12.82	0.0280	0.	72.	0.21

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 312 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	34.60	820.79	299820.	4.99	60071.	1995.	13.93	0.0280	0.	72.	0.16
MILE	33.60	821.00	299819.	2.16	138905.	3586.	13.16	0.0290	0.	78.	0.06
MILE	31.50	820.42	299816.	5.18	57839.	2792.	14.41	0.0250	0.	82.	0.20
MILE	30.10	820.21	299816.	4.70	63849.	1204.	13.60	0.0200	0.	79.	0.11
MILE	29.00	820.08	299815.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE	27.30	819.92	299815.	4.64	64563.	1532.	15.30	0.0230	0.	83.	0.13
MILE	25.20	819.79	299815.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE	23.10	819.49	299815.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

0DATE 10-13-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	5.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL	
INFLOW	DEPTH	FROUDE									
MILE	79.80	878.24	300000.	11.35	26439.	952.	10.09	0.0290	0.	60.	0.38
MILE	77.70	875.96	299999.	8.79	34137.	1163.	10.97	0.0400	0.	65.	0.29
MILE	75.60	868.71	299997.	9.90	30312.	2243.	10.16	0.0400	0.	62.	0.47
MILE	73.50	859.19	299993.	11.02	27218.	1684.	10.40	0.0330	0.	60.	0.48
MILE	71.40	856.27	299989.	7.45	40244.	1407.	10.74	0.0400	0.	58.	0.25
MILE	69.30	852.14	299985.	8.21	36535.	1397.	10.20	0.0340	0.	53.	0.28
MILE	67.20	850.03	299978.	5.36	56016.	3393.	9.78	0.0340	0.	59.	0.23
MILE	65.10	846.63	299965.	7.10	42276.	4039.	10.00	0.0320	0.	60.	0.39
MILE	63.00	844.86	299952.	5.05	59380.	2884.	8.42	0.0400	0.	64.	0.20
MILE	60.90	839.91	299942.	7.60	39480.	2484.	9.63	0.0450	0.	63.	0.34
MILE	58.80	832.40	299934.	7.89	38003.	1815.	8.46	0.0400	0.	59.	0.30
MILE	57.00	830.72	299929.	7.89	38027.	1905.	8.79	0.0200	0.	56.	0.31
MILE	55.00	828.36	299923.	9.13	32837.	1897.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.44	299917.	6.69	44861.	2255.	9.31	0.0200	0.	54.	0.26
MILE	51.00	826.14	299910.	6.99	42897.	2903.	9.15	0.0200	0.	57.	0.32
MILE	48.30	825.49	299895.	5.17	57957.	5915.	11.19	0.0200	0.	57.	0.29
MILE	46.20	824.85	299879.	5.83	51440.	5852.	11.35	0.0200	0.	63.	0.35
MILE	44.10	824.84	299868.	3.51	85503.	2942.	11.00	0.0300	0.	70.	0.11
MILE	43.70	823.70	299867.	8.70	34459.	2805.	12.97	0.0300	0.	71.	0.44
MILE	42.00	823.63	299863.	4.08	73550.	2693.	9.93	0.0300	0.	74.	0.14
MILE	39.10	821.76	299857.	6.60	45410.	2617.	12.33	0.0230	0.	71.	0.28
MILE	37.00	821.79	299854.	3.72	80687.	1907.	12.47	0.0280	0.	70.	0.10
MILE	36.00	821.02	299853.	6.66	45006.	1385.	12.82	0.0280	0.	72.	0.21
MILE	34.60	820.79	299853.	4.99	60071.	1995.	13.93	0.0280	0.	72.	0.16
MILE	33.60	821.00	299852.	2.16	138906.	3586.	13.16	0.0290	0.	78.	0.06
MILE	31.50	820.42	299850.	5.18	57839.	2792.	14.41	0.0250	0.	82.	0.20
MILE	30.10	820.21	299849.	4.70	63849.	1204.	13.60	0.0200	0.	79.	0.11
MILE	29.00	820.08	299849.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE	27.30	819.92	299849.	4.64	64563.	1532.	15.30	0.0230	0.	83.	0.13
MILE	25.20	819.79	299848.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE	23.10	819.49	299848.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 313 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

0DATE 10-13-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	6.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
INFLOW	DEPTH	FROUDE									
MILE	79.80	878.24	300000.	11.35	26439.	952.	10.09	0.0290	0.	60.	0.38
MILE	77.70	875.96	299999.	8.79	34137.	1163.	10.97	0.0400	0.	65.	0.29
MILE	75.60	868.71	299997.	9.90	30312.	2243.	10.16	0.0400	0.	62.	0.47
MILE	73.50	859.19	299994.	11.02	27218.	1684.	10.40	0.0330	0.	60.	0.48
MILE	71.40	856.27	299991.	7.45	40245.	1407.	10.74	0.0400	0.	58.	0.25
MILE	69.30	852.14	299988.	8.21	36536.	1397.	10.20	0.0340	0.	53.	0.28
MILE	67.20	850.04	299982.	5.36	56017.	3393.	9.78	0.0340	0.	59.	0.23
MILE	65.10	846.63	299971.	7.10	42277.	4039.	10.00	0.0320	0.	60.	0.39
MILE	63.00	844.86	299961.	5.05	59383.	2884.	8.42	0.0400	0.	64.	0.20
MILE	60.90	839.91	299953.	7.60	39481.	2484.	9.63	0.0450	0.	63.	0.34
MILE	58.80	832.40	299946.	7.89	38004.	1815.	8.46	0.0400	0.	59.	0.30
MILE	57.00	830.72	299942.	7.89	38029.	1905.	8.79	0.0200	0.	56.	0.31
MILE	55.00	828.36	299937.	9.13	32838.	1897.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.44	299932.	6.69	44862.	2255.	9.31	0.0200	0.	54.	0.26
MILE	51.00	826.14	299926.	6.99	42898.	2903.	9.15	0.0200	0.	57.	0.32
MILE	48.30	825.49	299914.	5.17	57958.	5916.	11.19	0.0200	0.	57.	0.29
MILE	46.20	824.86	299901.	5.83	51441.	5852.	11.35	0.0200	0.	63.	0.35
MILE	44.10	824.84	299892.	3.51	85505.	2942.	11.00	0.0300	0.	70.	0.11
MILE	43.70	823.70	299891.	8.70	34459.	2805.	12.97	0.0300	0.	71.	0.44
MILE	42.00	823.63	299887.	4.08	73552.	2694.	9.93	0.0300	0.	74.	0.14
MILE	39.10	821.76	299883.	6.60	45410.	2617.	12.33	0.0230	0.	71.	0.28
MILE	37.00	821.79	299880.	3.72	80687.	1907.	12.47	0.0280	0.	70.	0.10
MILE	36.00	821.03	299880.	6.66	45006.	1385.	12.82	0.0280	0.	72.	0.21
MILE	34.60	820.79	299879.	4.99	60072.	1995.	13.93	0.0280	0.	72.	0.16
MILE	33.60	821.00	299878.	2.16	138906.	3586.	13.16	0.0290	0.	78.	0.06
MILE	31.50	820.42	299877.	5.18	57839.	2792.	14.41	0.0250	0.	82.	0.20
MILE	30.10	820.21	299876.	4.70	63849.	1204.	13.60	0.0200	0.	79.	0.11
MILE	29.00	820.08	299876.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE	27.30	819.92	299876.	4.64	64563.	1532.	15.30	0.0230	0.	83.	0.13
MILE	25.20	819.79	299876.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE	23.10	819.49	299876.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

0DATE 10-13-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	7.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
INFLOW	DEPTH	FROUDE									
MILE	79.80	878.24	300000.	11.35	26439.	952.	10.09	0.0290	0.	60.	0.38
MILE	77.70	875.96	299999.	8.79	34137.	1163.	10.97	0.0400	0.	65.	0.29
MILE	75.60	868.71	299998.	9.90	30312.	2243.	10.16	0.0400	0.	62.	0.47
MILE	73.50	859.19	299995.	11.02	27219.	1684.	10.40	0.0330	0.	60.	0.48
MILE	71.40	856.27	299993.	7.45	40245.	1407.	10.74	0.0400	0.	58.	0.25

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 314 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	69.30	852.14	299990.	8.21	36537.	1397.	10.20	0.0340	0.	53.	0.28
MILE	67.20	850.04	299985.	5.36	56018.	3393.	9.78	0.0340	0.	59.	0.23
MILE	65.10	846.63	299976.	7.10	42278.	4040.	10.00	0.0320	0.	60.	0.39
MILE	63.00	844.86	299968.	5.05	59385.	2884.	8.42	0.0400	0.	64.	0.20
MILE	60.90	839.91	299961.	7.60	39482.	2484.	9.63	0.0450	0.	63.	0.34
MILE	58.80	832.40	299956.	7.89	38005.	1815.	8.46	0.0400	0.	59.	0.30
MILE	57.00	830.72	299952.	7.89	38030.	1906.	8.79	0.0200	0.	56.	0.31
MILE	55.00	828.36	299948.	9.13	32838.	1897.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.44	299944.	6.69	44863.	2255.	9.31	0.0200	0.	54.	0.26
MILE	51.00	826.14	299939.	6.99	42898.	2903.	9.15	0.0200	0.	57.	0.32
MILE	48.30	825.49	299929.	5.17	57959.	5916.	11.19	0.0200	0.	57.	0.29
MILE	46.20	824.86	299919.	5.83	51442.	5852.	11.35	0.0200	0.	63.	0.35
MILE	44.10	824.84	299911.	3.51	85506.	2942.	11.00	0.0300	0.	70.	0.11
MILE	43.70	823.70	299910.	8.70	34460.	2805.	12.97	0.0300	0.	71.	0.44
MILE	42.00	823.63	299908.	4.08	73553.	2694.	9.93	0.0300	0.	74.	0.14
MILE	39.10	821.76	299904.	6.60	45411.	2617.	12.33	0.0230	0.	71.	0.28
MILE	37.00	821.79	299902.	3.72	80688.	1907.	12.47	0.0280	0.	70.	0.10
MILE	36.00	821.03	299901.	6.66	45006.	1385.	12.82	0.0280	0.	72.	0.21
MILE	34.60	820.79	299901.	4.99	60072.	1995.	13.93	0.0280	0.	72.	0.16
MILE	33.60	821.00	299900.	2.16	138907.	3586.	13.16	0.0290	0.	78.	0.06
MILE	31.50	820.42	299899.	5.19	57839.	2792.	14.41	0.0250	0.	82.	0.20
MILE	30.10	820.21	299899.	4.70	63849.	1204.	13.60	0.0200	0.	79.	0.11
MILE	29.00	820.08	299899.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE	27.30	819.92	299898.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE	25.20	819.79	299898.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE	23.10	819.49	299898.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

ODATE 10-13-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 8.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	878.24	300000.	11.35	26439.	952.	10.09	0.0290	0.	60.	0.38
MILE	77.70	875.96	299999.	8.79	34137.	1163.	10.97	0.0400	0.	65.	0.29
MILE	75.60	868.71	299998.	9.90	30312.	2243.	10.16	0.0400	0.	62.	0.47
MILE	73.50	859.19	299996.	11.02	27219.	1684.	10.40	0.0330	0.	60.	0.48
MILE	71.40	856.27	299994.	7.45	40246.	1408.	10.74	0.0400	0.	58.	0.25
MILE	69.30	852.14	299992.	8.21	36537.	1397.	10.20	0.0340	0.	53.	0.28
MILE	67.20	850.04	299988.	5.36	56019.	3393.	9.78	0.0340	0.	59.	0.23
MILE	65.10	846.63	299981.	7.10	42278.	4040.	10.00	0.0320	0.	60.	0.39
MILE	63.00	844.86	299974.	5.05	59387.	2884.	8.42	0.0400	0.	64.	0.20
MILE	60.90	839.92	299968.	7.60	39483.	2484.	9.63	0.0450	0.	63.	0.34
MILE	58.80	832.40	299964.	7.89	38006.	1815.	8.46	0.0400	0.	59.	0.30
MILE	57.00	830.73	299961.	7.89	38030.	1906.	8.79	0.0200	0.	56.	0.31
MILE	55.00	828.36	299957.	9.13	32839.	1898.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.44	299954.	6.69	44864.	2255.	9.31	0.0200	0.	54.	0.26
MILE	51.00	826.14	299950.	6.99	42899.	2903.	9.15	0.0200	0.	57.	0.32
MILE	48.30	825.49	299942.	5.17	57960.	5916.	11.19	0.0200	0.	57.	0.29

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 315 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	46.20	824.86	299933.	5.83	51443.	5852.	11.35	0.0200	0.	63.	0.35
MILE	44.10	824.84	299927.	3.51	85508.	2942.	11.00	0.0300	0.	70.	0.11
MILE	43.70	823.70	299927.	8.70	34460.	2805.	12.97	0.0300	0.	71.	0.44
MILE	42.00	823.64	299924.	4.08	73554.	2694.	9.93	0.0300	0.	74.	0.14
MILE	39.10	821.76	299921.	6.60	45411.	2617.	12.33	0.0230	0.	71.	0.28
MILE	37.00	821.79	299920.	3.72	80688.	1907.	12.47	0.0280	0.	70.	0.10
MILE	36.00	821.03	299919.	6.66	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE	34.60	820.79	299919.	4.99	60072.	1995.	13.93	0.0280	0.	72.	0.16
MILE	33.60	821.00	299918.	2.16	138907.	3586.	13.16	0.0290	0.	78.	0.06
MILE	31.50	820.42	299917.	5.19	57839.	2792.	14.41	0.0250	0.	82.	0.20
MILE	30.10	820.21	299917.	4.70	63849.	1204.	13.60	0.0200	0.	79.	0.11
MILE	29.00	820.08	299917.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE	27.30	819.92	299917.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE	25.20	819.79	299917.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE	23.10	819.49	299916.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

ODATE 10-13-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	9.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL	
INFLOW	DEPTH	FROUDE									
MILE	79.80	878.24	300000.	11.35	26439.	952.	10.09	0.0290	0.	60.	0.38
MILE	77.70	875.96	299999.	8.79	34137.	1163.	10.97	0.0400	0.	65.	0.29
MILE	75.60	868.71	299998.	9.90	30312.	2243.	10.16	0.0400	0.	62.	0.47
MILE	73.50	859.19	299997.	11.02	27219.	1684.	10.40	0.0330	0.	60.	0.48
MILE	71.40	856.27	299995.	7.45	40246.	1408.	10.74	0.0400	0.	58.	0.25
MILE	69.30	852.14	299993.	8.21	36537.	1397.	10.20	0.0340	0.	53.	0.28
MILE	67.20	850.04	299990.	5.36	56020.	3393.	9.78	0.0340	0.	59.	0.23
MILE	65.10	846.63	299984.	7.10	42279.	4040.	10.00	0.0320	0.	60.	0.39
MILE	63.00	844.86	299978.	5.05	59389.	2885.	8.42	0.0400	0.	64.	0.20
MILE	60.90	839.92	299974.	7.60	39483.	2484.	9.63	0.0450	0.	63.	0.34
MILE	58.80	832.40	299970.	7.89	38007.	1815.	8.46	0.0400	0.	59.	0.30
MILE	57.00	830.73	299968.	7.89	38031.	1906.	8.79	0.0200	0.	56.	0.31
MILE	55.00	828.36	299965.	9.13	32840.	1898.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.44	299963.	6.69	44864.	2255.	9.31	0.0200	0.	54.	0.26
MILE	51.00	826.14	299959.	6.99	42900.	2903.	9.15	0.0200	0.	57.	0.32
MILE	48.30	825.49	299952.	5.18	57960.	5916.	11.20	0.0200	0.	57.	0.29
MILE	46.20	824.86	299945.	5.83	51443.	5852.	11.35	0.0200	0.	63.	0.35
MILE	44.10	824.84	299940.	3.51	85509.	2942.	11.00	0.0300	0.	70.	0.11
MILE	43.70	823.70	299940.	8.70	34460.	2805.	12.97	0.0300	0.	71.	0.44
MILE	42.00	823.64	299938.	4.08	73555.	2694.	9.93	0.0300	0.	74.	0.14
MILE	39.10	821.76	299935.	6.60	45411.	2617.	12.33	0.0230	0.	71.	0.28
MILE	37.00	821.79	299934.	3.72	80689.	1907.	12.47	0.0280	0.	70.	0.10
MILE	36.00	821.03	299934.	6.66	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE	34.60	820.79	299933.	4.99	60072.	1995.	13.93	0.0280	0.	72.	0.16
MILE	33.60	821.00	299933.	2.16	138908.	3586.	13.16	0.0290	0.	78.	0.06
MILE	31.50	820.42	299932.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE	30.10	820.21	299932.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 316 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	29.00	820.08	299932.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE	27.30	819.92	299932.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE	25.20	819.79	299931.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE	23.10	819.49	299931.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

0DATE 10-13-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 10.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	878.24	300000.	11.35	26439.	952.	10.09	0.0290	0.	60.	0.38
MILE	77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE	75.60	868.71	299999.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE	73.50	859.19	299997.	11.02	27219.	1684.	10.40	0.0330	0.	60.	0.48
MILE	71.40	856.27	299996.	7.45	40246.	1408.	10.74	0.0400	0.	58.	0.25
MILE	69.30	852.15	299994.	8.21	36538.	1397.	10.20	0.0340	0.	53.	0.28
MILE	67.20	850.04	299992.	5.36	56020.	3394.	9.78	0.0340	0.	59.	0.23
MILE	65.10	846.63	299987.	7.10	42279.	4040.	10.00	0.0320	0.	60.	0.39
MILE	63.00	844.86	299982.	5.05	59390.	2885.	8.42	0.0400	0.	64.	0.20
MILE	60.90	839.92	299978.	7.60	39484.	2484.	9.63	0.0450	0.	63.	0.34
MILE	58.80	832.40	299975.	7.89	38007.	1815.	8.46	0.0400	0.	59.	0.30
MILE	57.00	830.73	299973.	7.89	38032.	1906.	8.79	0.0200	0.	56.	0.31
MILE	55.00	828.36	299971.	9.13	32840.	1898.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.44	299969.	6.69	44865.	2255.	9.31	0.0200	0.	54.	0.26
MILE	51.00	826.14	299966.	6.99	42900.	2903.	9.15	0.0200	0.	57.	0.32
MILE	48.30	825.49	299961.	5.18	57961.	5916.	11.20	0.0200	0.	57.	0.29
MILE	46.20	824.86	299955.	5.83	51444.	5852.	11.35	0.0200	0.	63.	0.35
MILE	44.10	824.84	299951.	3.51	85509.	2942.	11.00	0.0300	0.	70.	0.11
MILE	43.70	823.70	299951.	8.70	34460.	2805.	12.97	0.0300	0.	71.	0.44
MILE	42.00	823.64	299949.	4.08	73555.	2694.	9.93	0.0300	0.	74.	0.14
MILE	39.10	821.76	299947.	6.61	45411.	2617.	12.33	0.0230	0.	71.	0.28
MILE	37.00	821.79	299946.	3.72	80689.	1907.	12.47	0.0280	0.	70.	0.10
MILE	36.00	821.03	299946.	6.66	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE	34.60	820.79	299945.	4.99	60072.	1995.	13.93	0.0280	0.	72.	0.16
MILE	33.60	821.00	299945.	2.16	138908.	3586.	13.16	0.0290	0.	78.	0.06
MILE	31.50	820.42	299944.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE	30.10	820.21	299944.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11
MILE	29.00	820.08	299944.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE	27.30	819.92	299944.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE	25.20	819.79	299944.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE	23.10	819.49	299944.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

0DATE 10-13-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 317 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

TIME	11.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL
INFLOW	DEPTH	FROUDE								
MILE	79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60. 0.38
MILE	77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65. 0.29
MILE	75.60	868.71	299999.	9.90	30313.	2243.	10.16	0.0400	0.	62. 0.47
MILE	73.50	859.19	299998.	11.02	27219.	1684.	10.40	0.0330	0.	60. 0.48
MILE	71.40	856.27	299997.	7.45	40246.	1408.	10.74	0.0400	0.	58. 0.25
MILE	69.30	852.15	299995.	8.21	36538.	1397.	10.20	0.0340	0.	53. 0.28
MILE	67.20	850.04	299993.	5.36	56021.	3394.	9.78	0.0340	0.	59. 0.23
MILE	65.10	846.63	299989.	7.10	42280.	4040.	10.00	0.0320	0.	60. 0.39
MILE	63.00	844.86	299985.	5.05	59391.	2885.	8.42	0.0400	0.	64. 0.20
MILE	60.90	839.92	299982.	7.60	39484.	2484.	9.63	0.0450	0.	63. 0.34
MILE	58.80	832.40	299980.	7.89	38008.	1815.	8.46	0.0400	0.	59. 0.30
MILE	57.00	830.73	299978.	7.89	38032.	1906.	8.79	0.0200	0.	56. 0.31
MILE	55.00	828.36	299976.	9.13	32841.	1898.	8.71	0.0200	0.	55. 0.39
MILE	53.10	827.44	299975.	6.69	44865.	2255.	9.31	0.0200	0.	54. 0.26
MILE	51.00	826.14	299972.	6.99	42900.	2903.	9.15	0.0200	0.	57. 0.32
MILE	48.30	825.49	299968.	5.18	57961.	5916.	11.20	0.0200	0.	57. 0.29
MILE	46.20	824.86	299963.	5.83	51444.	5852.	11.35	0.0200	0.	63. 0.35
MILE	44.10	824.84	299960.	3.51	85510.	2942.	11.00	0.0300	0.	70. 0.11
MILE	43.70	823.70	299959.	8.70	34460.	2805.	12.97	0.0300	0.	71. 0.44
MILE	42.00	823.64	299958.	4.08	73556.	2694.	9.93	0.0300	0.	74. 0.14
MILE	39.10	821.76	299956.	6.61	45411.	2617.	12.33	0.0230	0.	71. 0.28
MILE	37.00	821.79	299956.	3.72	80689.	1907.	12.47	0.0280	0.	70. 0.10
MILE	36.00	821.03	299955.	6.66	45007.	1385.	12.82	0.0280	0.	72. 0.21
MILE	34.60	820.79	299955.	4.99	60072.	1995.	13.93	0.0280	0.	72. 0.16
MILE	33.60	821.00	299955.	2.16	138908.	3586.	13.16	0.0290	0.	78. 0.06
MILE	31.50	820.42	299954.	5.19	57840.	2792.	14.41	0.0250	0.	82. 0.20
MILE	30.10	820.21	299954.	4.70	63850.	1204.	13.60	0.0200	0.	79. 0.11
MILE	29.00	820.08	299954.	4.69	63981.	1603.	15.00	0.0200	0.	80. 0.13
MILE	27.30	819.92	299954.	4.65	64564.	1532.	15.30	0.0230	0.	83. 0.13
MILE	25.20	819.79	299954.	3.96	75683.	1514.	16.17	0.0230	0.	85. 0.10
MILE	23.10	819.49	299954.	4.58	65492.	1701.	15.11	0.0230	0.	89. 0.13

0DATE 10-13-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	12.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL
INFLOW	DEPTH	FROUDE								
MILE	79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60. 0.38
MILE	77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65. 0.29
MILE	75.60	868.71	299999.	9.90	30313.	2243.	10.16	0.0400	0.	62. 0.47
MILE	73.50	859.19	299998.	11.02	27219.	1684.	10.40	0.0330	0.	60. 0.48
MILE	71.40	856.27	299997.	7.45	40247.	1408.	10.74	0.0400	0.	58. 0.25
MILE	69.30	852.15	299996.	8.21	36538.	1397.	10.20	0.0340	0.	53. 0.28
MILE	67.20	850.04	299994.	5.36	56021.	3394.	9.78	0.0340	0.	59. 0.23
MILE	65.10	846.63	299991.	7.10	42280.	4040.	10.00	0.0320	0.	60. 0.39

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 318 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	63.00	844.86	299988.	5.05	59392.	2885.	8.42	0.0400	0.	64.	0.20
MILE	60.90	839.92	299985.	7.60	39485.	2484.	9.63	0.0450	0.	63.	0.34
MILE	58.80	832.40	299983.	7.89	38008.	1815.	8.46	0.0400	0.	59.	0.30
MILE	57.00	830.73	299982.	7.89	38032.	1906.	8.79	0.0200	0.	56.	0.31
MILE	55.00	828.36	299981.	9.13	32841.	1898.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.44	299979.	6.69	44865.	2255.	9.31	0.0200	0.	54.	0.26
MILE	51.00	826.14	299977.	6.99	42901.	2903.	9.15	0.0200	0.	57.	0.32
MILE	48.30	825.49	299974.	5.18	57962.	5916.	11.20	0.0200	0.	57.	0.29
MILE	46.20	824.86	299970.	5.83	51444.	5852.	11.35	0.0200	0.	63.	0.35
MILE	44.10	824.84	299967.	3.51	85511.	2942.	11.00	0.0300	0.	70.	0.11
MILE	43.70	823.70	299967.	8.70	34461.	2805.	12.97	0.0300	0.	71.	0.44
MILE	42.00	823.64	299966.	4.08	73556.	2694.	9.93	0.0300	0.	74.	0.14
MILE	39.10	821.76	299964.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE	37.00	821.79	299963.	3.72	80689.	1907.	12.47	0.0280	0.	70.	0.10
MILE	36.00	821.03	299963.	6.66	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE	34.60	820.79	299963.	4.99	60072.	1995.	13.93	0.0280	0.	72.	0.16
MILE	33.60	821.00	299963.	2.16	138909.	3587.	13.16	0.0290	0.	78.	0.06
MILE	31.50	820.42	299962.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE	30.10	820.21	299962.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11
MILE	29.00	820.08	299962.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE	27.30	819.92	299962.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE	25.20	819.79	299962.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE	23.10	819.49	299962.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

0DATE 10-13-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 13.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60.	0.38
MILE	77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE	75.60	868.71	299999.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE	73.50	859.19	299998.	11.02	27219.	1684.	10.40	0.0330	0.	60.	0.48
MILE	71.40	856.27	299998.	7.45	40247.	1408.	10.74	0.0400	0.	58.	0.25
MILE	69.30	852.15	299997.	8.21	36538.	1397.	10.20	0.0340	0.	53.	0.28
MILE	67.20	850.04	299995.	5.36	56021.	3394.	9.78	0.0340	0.	59.	0.23
MILE	65.10	846.63	299993.	7.10	42280.	4040.	10.00	0.0320	0.	60.	0.39
MILE	63.00	844.86	299990.	5.05	59393.	2885.	8.42	0.0400	0.	64.	0.20
MILE	60.90	839.92	299988.	7.60	39485.	2484.	9.63	0.0450	0.	63.	0.34
MILE	58.80	832.40	299986.	7.89	38008.	1815.	8.46	0.0400	0.	59.	0.30
MILE	57.00	830.73	299985.	7.89	38033.	1906.	8.79	0.0200	0.	56.	0.31
MILE	55.00	828.36	299984.	9.13	32841.	1898.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.44	299983.	6.69	44866.	2255.	9.31	0.0200	0.	54.	0.26
MILE	51.00	826.14	299981.	6.99	42901.	2903.	9.15	0.0200	0.	57.	0.32
MILE	48.30	825.49	299978.	5.18	57962.	5916.	11.20	0.0200	0.	57.	0.29
MILE	46.20	824.86	299975.	5.83	51445.	5852.	11.35	0.0200	0.	63.	0.35
MILE	44.10	824.84	299973.	3.51	85511.	2942.	11.00	0.0300	0.	70.	0.11
MILE	43.70	823.70	299973.	8.70	34461.	2805.	12.97	0.0300	0.	71.	0.44

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 319 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 42.00	823.64	299972.	4.08	73557.	2694.	9.93	0.0300	0.	74.	0.14
MILE 39.10	821.76	299971.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE 37.00	821.79	299970.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE 36.00	821.03	299970.	6.66	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE 34.60	820.79	299970.	4.99	60072.	1995.	13.93	0.0280	0.	72.	0.16
MILE 33.60	821.00	299969.	2.16	138909.	3587.	13.16	0.0290	0.	78.	0.06
MILE 31.50	820.42	299969.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE 30.10	820.21	299969.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11
MILE 29.00	820.08	299969.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE 27.30	819.92	299969.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE 25.20	819.79	299969.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE 23.10	819.49	299969.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

0DATE 10-13-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 14.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60.	0.38
MILE 77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE 75.60	868.71	299999.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE 73.50	859.19	299999.	11.02	27219.	1684.	10.40	0.0330	0.	60.	0.48
MILE 71.40	856.27	299998.	7.45	40247.	1408.	10.74	0.0400	0.	58.	0.25
MILE 69.30	852.15	299997.	8.21	36538.	1397.	10.20	0.0340	0.	53.	0.28
MILE 67.20	850.04	299996.	5.36	56021.	3394.	9.78	0.0340	0.	59.	0.23
MILE 65.10	846.63	299994.	7.10	42280.	4040.	10.00	0.0320	0.	60.	0.39
MILE 63.00	844.86	299992.	5.05	59393.	2885.	8.42	0.0400	0.	64.	0.20
MILE 60.90	839.92	299990.	7.60	39485.	2484.	9.63	0.0450	0.	63.	0.34
MILE 58.80	832.40	299989.	7.89	38009.	1815.	8.46	0.0400	0.	59.	0.30
MILE 57.00	830.73	299988.	7.89	38033.	1906.	8.79	0.0200	0.	56.	0.31
MILE 55.00	828.36	299987.	9.13	32841.	1898.	8.71	0.0200	0.	55.	0.39
MILE 53.10	827.44	299986.	6.69	44866.	2255.	9.31	0.0200	0.	54.	0.26
MILE 51.00	826.14	299985.	6.99	42901.	2903.	9.15	0.0200	0.	57.	0.32
MILE 48.30	825.49	299982.	5.18	57962.	5916.	11.20	0.0200	0.	57.	0.29
MILE 46.20	824.86	299980.	5.83	51445.	5852.	11.35	0.0200	0.	63.	0.35
MILE 44.10	824.84	299978.	3.51	85512.	2942.	11.00	0.0300	0.	70.	0.11
MILE 43.70	823.70	299977.	8.70	34461.	2805.	12.97	0.0300	0.	71.	0.44
MILE 42.00	823.64	299977.	4.08	73557.	2694.	9.93	0.0300	0.	74.	0.14
MILE 39.10	821.76	299976.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE 37.00	821.79	299975.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE 36.00	821.03	299975.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE 34.60	820.79	299975.	4.99	60072.	1995.	13.93	0.0280	0.	72.	0.16
MILE 33.60	821.00	299975.	2.16	138909.	3587.	13.16	0.0290	0.	78.	0.06
MILE 31.50	820.42	299975.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE 30.10	820.21	299974.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11
MILE 29.00	820.08	299974.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE 27.30	819.92	299974.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE 25.20	819.79	299974.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 320 of 665
Subject: SOCH Model Calibration, Melton Hill			Prepped
Appendix E			Checked
			JAW
			ACM

MILE 23.10 819.49 299974. 4.58 65492. 1701. 15.11 0.0230 0. 89. 0.13

0DATE 10-13-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 15.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60.	0.38
MILE 77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE 75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE 73.50	859.19	299999.	11.02	27220.	1684.	10.40	0.0330	0.	60.	0.48
MILE 71.40	856.27	299998.	7.45	40247.	1408.	10.74	0.0400	0.	58.	0.25
MILE 69.30	852.15	299998.	8.21	36538.	1397.	10.20	0.0340	0.	53.	0.28
MILE 67.20	850.04	299997.	5.36	56022.	3394.	9.78	0.0340	0.	59.	0.23
MILE 65.10	846.63	299995.	7.10	42280.	4040.	10.00	0.0320	0.	60.	0.39
MILE 63.00	844.86	299993.	5.05	59394.	2885.	8.42	0.0400	0.	64.	0.20
MILE 60.90	839.92	299992.	7.60	39486.	2484.	9.63	0.0450	0.	63.	0.34
MILE 58.80	832.40	299991.	7.89	38009.	1815.	8.46	0.0400	0.	59.	0.30
MILE 57.00	830.73	299990.	7.89	38033.	1906.	8.79	0.0200	0.	56.	0.31
MILE 55.00	828.36	299989.	9.13	32841.	1898.	8.71	0.0200	0.	55.	0.39
MILE 53.10	827.44	299988.	6.69	44866.	2256.	9.31	0.0200	0.	54.	0.26
MILE 51.00	826.14	299987.	6.99	42901.	2903.	9.15	0.0200	0.	57.	0.32
MILE 48.30	825.49	299985.	5.18	57962.	5916.	11.20	0.0200	0.	57.	0.29
MILE 46.20	824.86	299983.	5.83	51445.	5852.	11.35	0.0200	0.	63.	0.35
MILE 44.10	824.84	299982.	3.51	85512.	2942.	11.00	0.0300	0.	70.	0.11
MILE 43.70	823.70	299981.	8.71	34461.	2805.	12.97	0.0300	0.	71.	0.44
MILE 42.00	823.64	299981.	4.08	73557.	2694.	9.93	0.0300	0.	74.	0.14
MILE 39.10	821.76	299980.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE 37.00	821.79	299980.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE 36.00	821.03	299980.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE 34.60	820.79	299979.	4.99	60073.	1995.	13.93	0.0280	0.	72.	0.16
MILE 33.60	821.00	299979.	2.16	138909.	3587.	13.16	0.0290	0.	78.	0.06
MILE 31.50	820.42	299979.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE 30.10	820.21	299979.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11
MILE 29.00	820.08	299979.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE 27.30	819.92	299979.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE 25.20	819.79	299979.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE 23.10	819.49	299979.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

0DATE 10-13-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 16.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80 878.24 300000. 11.35 26440. 952. 10.09 0.0290 0. 60. 0.38

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 321 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE 75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE 73.50	859.19	299999.	11.02	27220.	1684.	10.40	0.0330	0.	60.	0.48
MILE 71.40	856.27	299999.	7.45	40247.	1408.	10.74	0.0400	0.	58.	0.25
MILE 69.30	852.15	299998.	8.21	36539.	1397.	10.20	0.0340	0.	53.	0.28
MILE 67.20	850.04	299997.	5.36	56022.	3394.	9.78	0.0340	0.	59.	0.23
MILE 65.10	846.63	299996.	7.10	42281.	4040.	10.00	0.0320	0.	60.	0.39
MILE 63.00	844.86	299994.	5.05	59394.	2885.	8.42	0.0400	0.	64.	0.20
MILE 60.90	839.92	299993.	7.60	39486.	2485.	9.63	0.0450	0.	63.	0.34
MILE 58.80	832.40	299992.	7.89	38009.	1815.	8.46	0.0400	0.	59.	0.30
MILE 57.00	830.73	299992.	7.89	38033.	1906.	8.79	0.0200	0.	56.	0.31
MILE 55.00	828.36	299991.	9.13	32842.	1898.	8.71	0.0200	0.	55.	0.39
MILE 53.10	827.44	299990.	6.69	44866.	2256.	9.31	0.0200	0.	54.	0.26
MILE 51.00	826.14	299990.	6.99	42901.	2903.	9.15	0.0200	0.	57.	0.32
MILE 48.30	825.49	299988.	5.18	57963.	5916.	11.20	0.0200	0.	57.	0.29
MILE 46.20	824.86	299986.	5.83	51445.	5852.	11.35	0.0200	0.	63.	0.35
MILE 44.10	824.84	299985.	3.51	85512.	2942.	11.00	0.0300	0.	70.	0.11
MILE 43.70	823.70	299985.	8.71	34461.	2805.	12.97	0.0300	0.	71.	0.44
MILE 42.00	823.64	299984.	4.08	73558.	2694.	9.93	0.0300	0.	74.	0.14
MILE 39.10	821.76	299984.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE 37.00	821.79	299983.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE 36.00	821.03	299983.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE 34.60	820.79	299983.	4.99	60073.	1995.	13.93	0.0280	0.	72.	0.16
MILE 33.60	821.00	299983.	2.16	138909.	3587.	13.16	0.0290	0.	78.	0.06
MILE 31.50	820.42	299983.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE 30.10	820.21	299983.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11
MILE 29.00	820.08	299983.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE 27.30	819.92	299983.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE 25.20	819.79	299983.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE 23.10	819.49	299983.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

ODATE 10-13-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 17.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60.	0.38
MILE 77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE 75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE 73.50	859.19	299999.	11.02	27220.	1684.	10.40	0.0330	0.	60.	0.48
MILE 71.40	856.27	299999.	7.45	40247.	1408.	10.74	0.0400	0.	58.	0.25
MILE 69.30	852.15	299999.	8.21	36539.	1397.	10.20	0.0340	0.	53.	0.28
MILE 67.20	850.04	299998.	5.36	56022.	3394.	9.78	0.0340	0.	59.	0.23
MILE 65.10	846.63	299997.	7.10	42281.	4040.	10.00	0.0320	0.	60.	0.39
MILE 63.00	844.86	299995.	5.05	59394.	2885.	8.42	0.0400	0.	64.	0.20
MILE 60.90	839.92	299994.	7.60	39486.	2485.	9.63	0.0450	0.	63.	0.34
MILE 58.80	832.40	299994.	7.89	38009.	1815.	8.46	0.0400	0.	59.	0.30
MILE 57.00	830.73	299993.	7.89	38034.	1906.	8.79	0.0200	0.	56.	0.31

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 322 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	55.00	828.36	299993.	9.13	32842.	1898.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.44	299992.	6.69	44866.	2256.	9.31	0.0200	0.	54.	0.26
MILE	51.00	826.14	299991.	6.99	42901.	2903.	9.15	0.0200	0.	57.	0.32
MILE	48.30	825.49	299990.	5.18	57963.	5916.	11.20	0.0200	0.	57.	0.29
MILE	46.20	824.86	299989.	5.83	51445.	5852.	11.35	0.0200	0.	63.	0.35
MILE	44.10	824.84	299988.	3.51	85512.	2942.	11.00	0.0300	0.	70.	0.11
MILE	43.70	823.70	299987.	8.71	34461.	2805.	12.97	0.0300	0.	71.	0.44
MILE	42.00	823.64	299987.	4.08	73558.	2694.	9.93	0.0300	0.	74.	0.14
MILE	39.10	821.76	299986.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE	37.00	821.79	299986.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE	36.00	821.03	299986.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE	34.60	820.79	299986.	4.99	60073.	1995.	13.93	0.0280	0.	72.	0.16
MILE	33.60	821.00	299986.	2.16	138909.	3587.	13.16	0.0290	0.	78.	0.06
MILE	31.50	820.42	299986.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE	30.10	820.21	299986.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11
MILE	29.00	820.08	299986.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE	27.30	819.92	299986.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE	25.20	819.79	299986.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE	23.10	819.49	299986.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

ODATE 10-13-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 18.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60.	0.38
MILE	77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE	75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE	73.50	859.19	299999.	11.02	27220.	1684.	10.40	0.0330	0.	60.	0.48
MILE	71.40	856.27	299999.	7.45	40247.	1408.	10.74	0.0400	0.	58.	0.25
MILE	69.30	852.15	299999.	8.21	36539.	1397.	10.20	0.0340	0.	53.	0.28
MILE	67.20	850.04	299998.	5.36	56022.	3394.	9.78	0.0340	0.	59.	0.23
MILE	65.10	846.63	299997.	7.10	42281.	4040.	10.00	0.0320	0.	60.	0.39
MILE	63.00	844.86	299996.	5.05	59395.	2885.	8.42	0.0400	0.	64.	0.20
MILE	60.90	839.92	299995.	7.60	39486.	2485.	9.63	0.0450	0.	63.	0.34
MILE	58.80	832.40	299995.	7.89	38009.	1815.	8.46	0.0400	0.	59.	0.30
MILE	57.00	830.73	299994.	7.89	38034.	1906.	8.79	0.0200	0.	56.	0.31
MILE	55.00	828.36	299994.	9.13	32842.	1898.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.44	299993.	6.69	44866.	2256.	9.31	0.0200	0.	54.	0.26
MILE	51.00	826.14	299993.	6.99	42902.	2903.	9.15	0.0200	0.	57.	0.32
MILE	48.30	825.49	299992.	5.18	57963.	5916.	11.20	0.0200	0.	57.	0.29
MILE	46.20	824.86	299991.	5.83	51445.	5852.	11.35	0.0200	0.	63.	0.35
MILE	44.10	824.84	299990.	3.51	85512.	2942.	11.00	0.0300	0.	70.	0.11
MILE	43.70	823.70	299990.	8.71	34461.	2805.	12.97	0.0300	0.	71.	0.44
MILE	42.00	823.64	299989.	4.08	73558.	2694.	9.93	0.0300	0.	74.	0.14
MILE	39.10	821.76	299989.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE	37.00	821.79	299989.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE	36.00	821.03	299989.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 323 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	34.60	820.79	299989.	4.99	60073.	1995.	13.93	0.0280	0.	72.	0.16
MILE	33.60	821.00	299988.	2.16	138909.	3587.	13.16	0.0290	0.	78.	0.06
MILE	31.50	820.42	299988.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE	30.10	820.21	299988.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11
MILE	29.00	820.08	299988.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE	27.30	819.92	299988.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE	25.20	819.79	299988.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE	23.10	819.49	299988.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

ODATE 10-13-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	19.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL	
INFLOW	DEPTH	FROUDE									
MILE	79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60.	0.38
MILE	77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE	75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE	73.50	859.19	300000.	11.02	27220.	1684.	10.40	0.0330	0.	60.	0.48
MILE	71.40	856.27	299999.	7.45	40247.	1408.	10.74	0.0400	0.	58.	0.25
MILE	69.30	852.15	299999.	8.21	36539.	1397.	10.20	0.0340	0.	53.	0.28
MILE	67.20	850.04	299999.	5.36	56022.	3394.	9.78	0.0340	0.	59.	0.23
MILE	65.10	846.63	299998.	7.10	42281.	4040.	10.00	0.0320	0.	60.	0.39
MILE	63.00	844.86	299997.	5.05	59395.	2885.	8.42	0.0400	0.	64.	0.20
MILE	60.90	839.92	299996.	7.60	39486.	2485.	9.63	0.0450	0.	63.	0.34
MILE	58.80	832.40	299996.	7.89	38009.	1815.	8.46	0.0400	0.	59.	0.30
MILE	57.00	830.73	299995.	7.89	38034.	1906.	8.79	0.0200	0.	56.	0.31
MILE	55.00	828.36	299995.	9.13	32842.	1898.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.44	299995.	6.69	44866.	2256.	9.31	0.0200	0.	54.	0.26
MILE	51.00	826.14	299994.	6.99	42902.	2903.	9.15	0.0200	0.	57.	0.32
MILE	48.30	825.49	299993.	5.18	57963.	5916.	11.20	0.0200	0.	57.	0.29
MILE	46.20	824.86	299992.	5.83	51445.	5852.	11.35	0.0200	0.	63.	0.35
MILE	44.10	824.84	299992.	3.51	85513.	2942.	11.00	0.0300	0.	70.	0.11
MILE	43.70	823.70	299991.	8.71	34461.	2805.	12.97	0.0300	0.	71.	0.44
MILE	42.00	823.64	299991.	4.08	73558.	2694.	9.93	0.0300	0.	74.	0.14
MILE	39.10	821.76	299991.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE	37.00	821.79	299991.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE	36.00	821.03	299991.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE	34.60	820.79	299991.	4.99	60073.	1995.	13.93	0.0280	0.	72.	0.16
MILE	33.60	821.00	299990.	2.16	138909.	3587.	13.16	0.0290	0.	78.	0.06
MILE	31.50	820.42	299990.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE	30.10	820.21	299990.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11
MILE	29.00	820.08	299990.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE	27.30	819.92	299990.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE	25.20	819.79	299990.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE	23.10	819.49	299990.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 324 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

0DATE 10-13-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 20.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
	INFLOW DEPTH	FROUDE									
MILE	79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60.	0.38
MILE	77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE	75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE	73.50	859.19	300000.	11.02	27220.	1684.	10.40	0.0330	0.	60.	0.48
MILE	71.40	856.27	299999.	7.45	40247.	1408.	10.74	0.0400	0.	58.	0.25
MILE	69.30	852.15	299999.	8.21	36539.	1397.	10.20	0.0340	0.	53.	0.28
MILE	67.20	850.04	299999.	5.36	56022.	3394.	9.78	0.0340	0.	59.	0.23
MILE	65.10	846.63	299998.	7.10	42281.	4040.	10.00	0.0320	0.	60.	0.39
MILE	63.00	844.86	299997.	5.05	59395.	2885.	8.42	0.0400	0.	64.	0.20
MILE	60.90	839.92	299997.	7.60	39486.	2485.	9.63	0.0450	0.	63.	0.34
MILE	58.80	832.40	299996.	7.89	38009.	1815.	8.46	0.0400	0.	59.	0.30
MILE	57.00	830.73	299996.	7.89	38034.	1906.	8.79	0.0200	0.	56.	0.31
MILE	55.00	828.36	299996.	9.13	32842.	1898.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.44	299996.	6.69	44867.	2256.	9.31	0.0200	0.	54.	0.26
MILE	51.00	826.14	299995.	6.99	42902.	2903.	9.15	0.0200	0.	57.	0.32
MILE	48.30	825.49	299994.	5.18	57963.	5916.	11.20	0.0200	0.	57.	0.29
MILE	46.20	824.86	299994.	5.83	51445.	5852.	11.35	0.0200	0.	63.	0.35
MILE	44.10	824.84	299993.	3.51	85513.	2942.	11.00	0.0300	0.	70.	0.11
MILE	43.70	823.70	299993.	8.71	34461.	2805.	12.97	0.0300	0.	71.	0.44
MILE	42.00	823.64	299993.	4.08	73558.	2694.	9.93	0.0300	0.	74.	0.14
MILE	39.10	821.76	299992.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE	37.00	821.79	299992.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE	36.00	821.03	299992.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE	34.60	820.79	299992.	4.99	60073.	1995.	13.93	0.0280	0.	72.	0.16
MILE	33.60	821.00	299992.	2.16	138909.	3587.	13.16	0.0290	0.	78.	0.06
MILE	31.50	820.42	299992.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE	30.10	820.21	299992.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11
MILE	29.00	820.08	299992.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE	27.30	819.92	299992.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE	25.20	819.79	299992.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE	23.10	819.49	299992.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

0DATE 10-13-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 21.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
	INFLOW DEPTH	FROUDE									
MILE	79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60.	0.38
MILE	77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE	75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE	73.50	859.19	300000.	11.02	27220.	1684.	10.40	0.0330	0.	60.	0.48
MILE	71.40	856.27	300000.	7.45	40247.	1408.	10.74	0.0400	0.	58.	0.25

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 325 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 69.30	852.15	299999.	8.21	36539.	1397.	10.20	0.0340	0.	53.	0.28
MILE 67.20	850.04	299999.	5.36	56022.	3394.	9.78	0.0340	0.	59.	0.23
MILE 65.10	846.63	299998.	7.10	42281.	4040.	10.00	0.0320	0.	60.	0.39
MILE 63.00	844.86	299998.	5.05	59395.	2885.	8.42	0.0400	0.	64.	0.20
MILE 60.90	839.92	299997.	7.60	39486.	2485.	9.63	0.0450	0.	63.	0.34
MILE 58.80	832.40	299997.	7.89	38010.	1815.	8.46	0.0400	0.	59.	0.30
MILE 57.00	830.73	299997.	7.89	38034.	1906.	8.79	0.0200	0.	56.	0.31
MILE 55.00	828.36	299997.	9.13	32842.	1898.	8.71	0.0200	0.	55.	0.39
MILE 53.10	827.44	299996.	6.69	44867.	2256.	9.31	0.0200	0.	54.	0.26
MILE 51.00	826.14	299996.	6.99	42902.	2903.	9.15	0.0200	0.	57.	0.32
MILE 48.30	825.49	299995.	5.18	57963.	5916.	11.20	0.0200	0.	57.	0.29
MILE 46.20	824.86	299995.	5.83	51445.	5853.	11.35	0.0200	0.	63.	0.35
MILE 44.10	824.84	299994.	3.51	85513.	2942.	11.00	0.0300	0.	70.	0.11
MILE 43.70	823.70	299994.	8.71	34461.	2805.	12.97	0.0300	0.	71.	0.44
MILE 42.00	823.64	299994.	4.08	73558.	2694.	9.93	0.0300	0.	74.	0.14
MILE 39.10	821.76	299994.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE 37.00	821.79	299994.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE 36.00	821.03	299994.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE 34.60	820.79	299994.	4.99	60073.	1995.	13.93	0.0280	0.	72.	0.16
MILE 33.60	821.00	299994.	2.16	138909.	3587.	13.16	0.0290	0.	78.	0.06
MILE 31.50	820.42	299993.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE 30.10	820.21	299993.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11
MILE 29.00	820.08	299993.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE 27.30	819.92	299993.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE 25.20	819.79	299993.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE 23.10	819.49	299993.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

0DATE 10-13-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 22.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60.	0.38
MILE 77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE 75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE 73.50	859.19	300000.	11.02	27220.	1684.	10.40	0.0330	0.	60.	0.48
MILE 71.40	856.27	300000.	7.45	40247.	1408.	10.74	0.0400	0.	58.	0.25
MILE 69.30	852.15	299999.	8.21	36539.	1397.	10.20	0.0340	0.	53.	0.28
MILE 67.20	850.04	299999.	5.36	56022.	3394.	9.78	0.0340	0.	59.	0.23
MILE 65.10	846.63	299999.	7.10	42281.	4040.	10.00	0.0320	0.	60.	0.39
MILE 63.00	844.86	299998.	5.05	59395.	2885.	8.42	0.0400	0.	64.	0.20
MILE 60.90	839.92	299998.	7.60	39486.	2485.	9.63	0.0450	0.	63.	0.34
MILE 58.80	832.40	299998.	7.89	38010.	1815.	8.46	0.0400	0.	59.	0.30
MILE 57.00	830.73	299997.	7.89	38034.	1906.	8.79	0.0200	0.	56.	0.31
MILE 55.00	828.36	299997.	9.13	32842.	1898.	8.71	0.0200	0.	55.	0.39
MILE 53.10	827.44	299997.	6.69	44867.	2256.	9.31	0.0200	0.	54.	0.26
MILE 51.00	826.14	299997.	6.99	42902.	2903.	9.15	0.0200	0.	57.	0.32
MILE 48.30	825.49	299996.	5.18	57963.	5916.	11.20	0.0200	0.	57.	0.29

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	46.20	824.86	299996.	5.83	51446.	5853.	11.35	0.0200	0.	63.	0.35
MILE	44.10	824.84	299995.	3.51	85513.	2942.	11.00	0.0300	0.	70.	0.11
MILE	43.70	823.70	299995.	8.71	34461.	2805.	12.97	0.0300	0.	71.	0.44
MILE	42.00	823.64	299995.	4.08	73558.	2694.	9.93	0.0300	0.	74.	0.14
MILE	39.10	821.76	299995.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE	37.00	821.79	299995.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE	36.00	821.03	299995.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE	34.60	820.79	299995.	4.99	60073.	1995.	13.93	0.0280	0.	72.	0.16
MILE	33.60	821.00	299995.	2.16	138909.	3587.	13.16	0.0290	0.	78.	0.06
MILE	31.50	820.42	299995.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE	30.10	820.21	299995.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11
MILE	29.00	820.08	299995.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE	27.30	819.92	299995.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE	25.20	819.79	299995.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE	23.10	819.49	299995.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

ODATE 10-13-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 23.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60.	0.38
MILE	77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE	75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE	73.50	859.19	300000.	11.02	27220.	1684.	10.40	0.0330	0.	60.	0.48
MILE	71.40	856.27	300000.	7.45	40248.	1408.	10.74	0.0400	0.	58.	0.25
MILE	69.30	852.15	300000.	8.21	36539.	1397.	10.20	0.0340	0.	53.	0.28
MILE	67.20	850.04	299999.	5.36	56022.	3394.	9.78	0.0340	0.	59.	0.23
MILE	65.10	846.64	299999.	7.10	42281.	4040.	10.00	0.0320	0.	60.	0.39
MILE	63.00	844.86	299999.	5.05	59395.	2885.	8.42	0.0400	0.	64.	0.20
MILE	60.90	839.92	299998.	7.60	39486.	2485.	9.63	0.0450	0.	63.	0.34
MILE	58.80	832.40	299998.	7.89	38010.	1815.	8.46	0.0400	0.	59.	0.30
MILE	57.00	830.73	299998.	7.89	38034.	1906.	8.79	0.0200	0.	56.	0.31
MILE	55.00	828.36	299998.	9.13	32842.	1898.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.44	299998.	6.69	44867.	2256.	9.31	0.0200	0.	54.	0.26
MILE	51.00	826.14	299997.	6.99	42902.	2903.	9.15	0.0200	0.	57.	0.32
MILE	48.30	825.49	299997.	5.18	57963.	5916.	11.20	0.0200	0.	57.	0.29
MILE	46.20	824.86	299996.	5.83	51446.	5853.	11.35	0.0200	0.	63.	0.35
MILE	44.10	824.84	299996.	3.51	85513.	2942.	11.00	0.0300	0.	70.	0.11
MILE	43.70	823.70	299996.	8.71	34461.	2805.	12.97	0.0300	0.	71.	0.44
MILE	42.00	823.64	299996.	4.08	73558.	2694.	9.93	0.0300	0.	74.	0.14
MILE	39.10	821.76	299996.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE	37.00	821.79	299996.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE	36.00	821.03	299996.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE	34.60	820.79	299996.	4.99	60073.	1995.	13.93	0.0280	0.	72.	0.16
MILE	33.60	821.00	299996.	2.16	138909.	3587.	13.16	0.0290	0.	78.	0.06
MILE	31.50	820.42	299996.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE	30.10	820.21	299996.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 327 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	29.00	820.08	299996.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE	27.30	819.92	299996.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE	25.20	819.79	299996.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE	23.10	819.49	299996.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

0DATE 10-14-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME	0.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL
	INFLOW	DEPTH	FROUDE								
MILE	79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60.	0.38
MILE	77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE	75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE	73.50	859.19	300000.	11.02	27220.	1684.	10.40	0.0330	0.	60.	0.48
MILE	71.40	856.27	300000.	7.45	40248.	1408.	10.74	0.0400	0.	58.	0.25
MILE	69.30	852.15	300000.	8.21	36539.	1397.	10.20	0.0340	0.	53.	0.28
MILE	67.20	850.04	299999.	5.36	56022.	3394.	9.78	0.0340	0.	59.	0.23
MILE	65.10	846.64	299999.	7.10	42281.	4040.	10.00	0.0320	0.	60.	0.39
MILE	63.00	844.86	299999.	5.05	59396.	2885.	8.42	0.0400	0.	64.	0.20
MILE	60.90	839.92	299999.	7.60	39486.	2485.	9.63	0.0450	0.	63.	0.34
MILE	58.80	832.40	299998.	7.89	38010.	1815.	8.46	0.0400	0.	59.	0.30
MILE	57.00	830.73	299998.	7.89	38034.	1906.	8.79	0.0200	0.	56.	0.31
MILE	55.00	828.36	299998.	9.13	32842.	1898.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.44	299998.	6.69	44867.	2256.	9.31	0.0200	0.	54.	0.26
MILE	51.00	826.14	299998.	6.99	42902.	2903.	9.15	0.0200	0.	57.	0.32
MILE	48.30	825.49	299997.	5.18	57963.	5916.	11.20	0.0200	0.	57.	0.29
MILE	46.20	824.86	299997.	5.83	51446.	5853.	11.35	0.0200	0.	63.	0.35
MILE	44.10	824.84	299997.	3.51	85513.	2942.	11.00	0.0300	0.	70.	0.11
MILE	43.70	823.70	299997.	8.71	34461.	2805.	12.97	0.0300	0.	71.	0.44
MILE	42.00	823.64	299997.	4.08	73558.	2694.	9.93	0.0300	0.	74.	0.14
MILE	39.10	821.76	299997.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE	37.00	821.79	299996.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE	36.00	821.03	299996.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE	34.60	820.79	299996.	4.99	60073.	1995.	13.93	0.0280	0.	72.	0.16
MILE	33.60	821.00	299996.	2.16	138909.	3587.	13.16	0.0290	0.	78.	0.06
MILE	31.50	820.42	299996.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE	30.10	820.21	299996.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11
MILE	29.00	820.08	299996.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE	27.30	819.92	299996.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE	25.20	819.79	299996.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE	23.10	819.49	299996.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

0DATE 10-14-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 328 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

	TIME 1.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
	INFLOW DEPTH	FROUDE									
MILE	79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60.	0.38
MILE	77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE	75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE	73.50	859.19	300000.	11.02	27220.	1684.	10.40	0.0330	0.	60.	0.48
MILE	71.40	856.27	300000.	7.45	40248.	1408.	10.74	0.0400	0.	58.	0.25
MILE	69.30	852.15	300000.	8.21	36539.	1397.	10.20	0.0340	0.	53.	0.28
MILE	67.20	850.04	300000.	5.36	56022.	3394.	9.78	0.0340	0.	59.	0.23
MILE	65.10	846.64	299999.	7.10	42281.	4040.	10.00	0.0320	0.	60.	0.39
MILE	63.00	844.86	299999.	5.05	59396.	2885.	8.42	0.0400	0.	64.	0.20
MILE	60.90	839.92	299999.	7.60	39486.	2485.	9.63	0.0450	0.	63.	0.34
MILE	58.80	832.40	299999.	7.89	38010.	1815.	8.46	0.0400	0.	59.	0.30
MILE	57.00	830.73	299999.	7.89	38034.	1906.	8.79	0.0200	0.	56.	0.31
MILE	55.00	828.36	299998.	9.13	32842.	1898.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.44	299998.	6.69	44867.	2256.	9.31	0.0200	0.	54.	0.26
MILE	51.00	826.14	299998.	6.99	42902.	2903.	9.15	0.0200	0.	57.	0.32
MILE	48.30	825.49	299998.	5.18	57963.	5916.	11.20	0.0200	0.	57.	0.29
MILE	46.20	824.86	299998.	5.83	51446.	5853.	11.35	0.0200	0.	63.	0.35
MILE	44.10	824.84	299997.	3.51	85513.	2942.	11.00	0.0300	0.	70.	0.11
MILE	43.70	823.70	299997.	8.71	34461.	2805.	12.97	0.0300	0.	71.	0.44
MILE	42.00	823.64	299997.	4.08	73558.	2694.	9.93	0.0300	0.	74.	0.14
MILE	39.10	821.76	299997.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE	37.00	821.79	299997.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE	36.00	821.03	299997.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE	34.60	820.79	299997.	4.99	60073.	1995.	13.93	0.0280	0.	72.	0.16
MILE	33.60	821.00	299997.	2.16	138909.	3587.	13.16	0.0290	0.	78.	0.06
MILE	31.50	820.42	299997.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE	30.10	820.21	299997.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11
MILE	29.00	820.08	299997.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE	27.30	819.92	299997.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE	25.20	819.79	299997.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE	23.10	819.49	299997.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

0DATE 10-14-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 2.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
	INFLOW DEPTH	FROUDE									
MILE	79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60.	0.38
MILE	77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE	75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE	73.50	859.19	300000.	11.02	27220.	1684.	10.40	0.0330	0.	60.	0.48
MILE	71.40	856.27	300000.	7.45	40248.	1408.	10.74	0.0400	0.	58.	0.25
MILE	69.30	852.15	300000.	8.21	36539.	1397.	10.20	0.0340	0.	53.	0.28
MILE	67.20	850.04	300000.	5.36	56022.	3394.	9.78	0.0340	0.	59.	0.23
MILE	65.10	846.64	299999.	7.10	42281.	4040.	10.00	0.0320	0.	60.	0.39

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 329 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 63.00	844.86	299999.	5.05	59396.	2885.	8.42	0.0400	0.	64.	0.20
MILE 60.90	839.92	299999.	7.60	39486.	2485.	9.63	0.0450	0.	63.	0.34
MILE 58.80	832.40	299999.	7.89	38010.	1815.	8.46	0.0400	0.	59.	0.30
MILE 57.00	830.73	299999.	7.89	38034.	1906.	8.79	0.0200	0.	56.	0.31
MILE 55.00	828.36	299999.	9.13	32842.	1898.	8.71	0.0200	0.	55.	0.39
MILE 53.10	827.44	299999.	6.69	44867.	2256.	9.31	0.0200	0.	54.	0.26
MILE 51.00	826.14	299998.	6.99	42902.	2903.	9.15	0.0200	0.	57.	0.32
MILE 48.30	825.49	299998.	5.18	57963.	5916.	11.20	0.0200	0.	57.	0.29
MILE 46.20	824.86	299998.	5.83	51446.	5853.	11.35	0.0200	0.	63.	0.35
MILE 44.10	824.84	299998.	3.51	85513.	2942.	11.00	0.0300	0.	70.	0.11
MILE 43.70	823.70	299998.	8.71	34461.	2805.	12.97	0.0300	0.	71.	0.44
MILE 42.00	823.64	299998.	4.08	73558.	2694.	9.93	0.0300	0.	74.	0.14
MILE 39.10	821.76	299998.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE 37.00	821.79	299998.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE 36.00	821.03	299998.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE 34.60	820.79	299998.	4.99	60073.	1995.	13.93	0.0280	0.	72.	0.16
MILE 33.60	821.00	299998.	2.16	138909.	3587.	13.16	0.0290	0.	78.	0.06
MILE 31.50	820.42	299997.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE 30.10	820.21	299997.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11
MILE 29.00	820.08	299997.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE 27.30	819.92	299997.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE 25.20	819.79	299997.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE 23.10	819.49	299997.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

0DATE 10-14-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	3.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL
INFLOW	DEPTH	FROUDE								
MILE 79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60.	0.38
MILE 77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE 75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE 73.50	859.19	300000.	11.02	27220.	1684.	10.40	0.0330	0.	60.	0.48
MILE 71.40	856.27	300000.	7.45	40248.	1408.	10.74	0.0400	0.	58.	0.25
MILE 69.30	852.15	300000.	8.21	36539.	1397.	10.20	0.0340	0.	53.	0.28
MILE 67.20	850.04	300000.	5.36	56022.	3394.	9.78	0.0340	0.	59.	0.23
MILE 65.10	846.64	299999.	7.10	42281.	4040.	10.00	0.0320	0.	60.	0.39
MILE 63.00	844.86	299999.	5.05	59396.	2885.	8.42	0.0400	0.	64.	0.20
MILE 60.90	839.92	299999.	7.60	39486.	2485.	9.63	0.0450	0.	63.	0.34
MILE 58.80	832.40	299999.	7.89	38010.	1815.	8.46	0.0400	0.	59.	0.30
MILE 57.00	830.73	299999.	7.89	38034.	1906.	8.79	0.0200	0.	56.	0.31
MILE 55.00	828.36	299999.	9.13	32842.	1898.	8.71	0.0200	0.	55.	0.39
MILE 53.10	827.44	299999.	6.69	44867.	2256.	9.31	0.0200	0.	54.	0.26
MILE 51.00	826.14	299999.	6.99	42902.	2903.	9.15	0.0200	0.	57.	0.32
MILE 48.30	825.49	299999.	5.18	57963.	5916.	11.20	0.0200	0.	57.	0.29
MILE 46.20	824.86	299998.	5.83	51446.	5853.	11.35	0.0200	0.	63.	0.35
MILE 44.10	824.84	299998.	3.51	85513.	2942.	11.00	0.0300	0.	70.	0.11
MILE 43.70	823.70	299998.	8.71	34461.	2805.	12.97	0.0300	0.	71.	0.44

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 330 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	42.00	823.64	299998.	4.08	73558.	2694.	9.93	0.0300	0.	74.	0.14
MILE	39.10	821.76	299998.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE	37.00	821.79	299998.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE	36.00	821.03	299998.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE	34.60	820.79	299998.	4.99	60073.	1995.	13.93	0.0280	0.	72.	0.16
MILE	33.60	821.00	299998.	2.16	138909.	3587.	13.16	0.0290	0.	78.	0.06
MILE	31.50	820.42	299998.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE	30.10	820.21	299998.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11
MILE	29.00	820.08	299998.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE	27.30	819.92	299998.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE	25.20	819.79	299998.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE	23.10	819.49	299998.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

ODATE 10-14-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 4.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60.	0.38
MILE	77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE	75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE	73.50	859.19	300000.	11.02	27220.	1684.	10.40	0.0330	0.	60.	0.48
MILE	71.40	856.27	300000.	7.45	40248.	1408.	10.74	0.0400	0.	58.	0.25
MILE	69.30	852.15	300000.	8.21	36539.	1397.	10.20	0.0340	0.	53.	0.28
MILE	67.20	850.04	300000.	5.36	56022.	3394.	9.78	0.0340	0.	59.	0.23
MILE	65.10	846.64	300000.	7.10	42281.	4040.	10.00	0.0320	0.	60.	0.39
MILE	63.00	844.86	299999.	5.05	59396.	2885.	8.42	0.0400	0.	64.	0.20
MILE	60.90	839.92	299999.	7.60	39486.	2485.	9.63	0.0450	0.	63.	0.34
MILE	58.80	832.40	299999.	7.89	38010.	1815.	8.46	0.0400	0.	59.	0.30
MILE	57.00	830.73	299999.	7.89	38034.	1906.	8.79	0.0200	0.	56.	0.31
MILE	55.00	828.36	299999.	9.13	32842.	1898.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.44	299999.	6.69	44867.	2256.	9.31	0.0200	0.	54.	0.26
MILE	51.00	826.14	299999.	6.99	42902.	2903.	9.15	0.0200	0.	57.	0.32
MILE	48.30	825.49	299999.	5.18	57963.	5916.	11.20	0.0200	0.	57.	0.29
MILE	46.20	824.86	299999.	5.83	51446.	5853.	11.35	0.0200	0.	63.	0.35
MILE	44.10	824.84	299999.	3.51	85513.	2942.	11.00	0.0300	0.	70.	0.11
MILE	43.70	823.70	299998.	8.71	34461.	2805.	12.97	0.0300	0.	71.	0.44
MILE	42.00	823.64	299998.	4.08	73558.	2694.	9.93	0.0300	0.	74.	0.14
MILE	39.10	821.76	299998.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE	37.00	821.79	299998.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE	36.00	821.03	299998.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE	34.60	820.79	299998.	4.99	60073.	1995.	13.93	0.0280	0.	72.	0.16
MILE	33.60	821.00	299998.	2.16	138909.	3587.	13.16	0.0290	0.	78.	0.06
MILE	31.50	820.42	299998.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE	30.10	820.21	299998.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11
MILE	29.00	820.08	299998.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE	27.30	819.92	299998.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE	25.20	819.79	299998.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 331 of 665
Subject: SOCH Model Calibration, Melton Hill			Prepped
Appendix E			Checked
			JAW
			ACM

MILE 23.10 819.49 299998. 4.58 65492. 1701. 15.11 0.0230 0. 89. 0.13

ODATE 10-14-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	5.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL
INFLOW	DEPTH	FROUDE								
MILE	79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60. 0.38
MILE	77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65. 0.29
MILE	75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62. 0.47
MILE	73.50	859.19	300000.	11.02	27220.	1684.	10.40	0.0330	0.	60. 0.48
MILE	71.40	856.27	300000.	7.45	40248.	1408.	10.74	0.0400	0.	58. 0.25
MILE	69.30	852.15	300000.	8.21	36539.	1397.	10.20	0.0340	0.	53. 0.28
MILE	67.20	850.04	300000.	5.36	56022.	3394.	9.78	0.0340	0.	59. 0.23
MILE	65.10	846.64	300000.	7.10	42281.	4040.	10.00	0.0320	0.	60. 0.39
MILE	63.00	844.86	300000.	5.05	59396.	2885.	8.42	0.0400	0.	64. 0.20
MILE	60.90	839.92	299999.	7.60	39486.	2485.	9.63	0.0450	0.	63. 0.34
MILE	58.80	832.40	299999.	7.89	38010.	1815.	8.46	0.0400	0.	59. 0.30
MILE	57.00	830.73	299999.	7.89	38034.	1906.	8.79	0.0200	0.	56. 0.31
MILE	55.00	828.36	299999.	9.13	32842.	1898.	8.71	0.0200	0.	55. 0.39
MILE	53.10	827.44	299999.	6.69	44867.	2256.	9.31	0.0200	0.	54. 0.26
MILE	51.00	826.14	299999.	6.99	42902.	2903.	9.15	0.0200	0.	57. 0.32
MILE	48.30	825.49	299999.	5.18	57963.	5916.	11.20	0.0200	0.	57. 0.29
MILE	46.20	824.86	299999.	5.83	51446.	5853.	11.35	0.0200	0.	63. 0.35
MILE	44.10	824.84	299999.	3.51	85513.	2942.	11.00	0.0300	0.	70. 0.11
MILE	43.70	823.70	299999.	8.71	34461.	2805.	12.97	0.0300	0.	71. 0.44
MILE	42.00	823.64	299999.	4.08	73558.	2694.	9.93	0.0300	0.	74. 0.14
MILE	39.10	821.76	299999.	6.61	45412.	2617.	12.33	0.0230	0.	71. 0.28
MILE	37.00	821.79	299999.	3.72	80690.	1907.	12.47	0.0280	0.	70. 0.10
MILE	36.00	821.03	299999.	6.67	45007.	1385.	12.82	0.0280	0.	72. 0.21
MILE	34.60	820.79	299999.	4.99	60073.	1995.	13.93	0.0280	0.	72. 0.16
MILE	33.60	821.00	299999.	2.16	138909.	3587.	13.16	0.0290	0.	78. 0.06
MILE	31.50	820.42	299999.	5.19	57840.	2792.	14.41	0.0250	0.	82. 0.20
MILE	30.10	820.21	299999.	4.70	63850.	1204.	13.60	0.0200	0.	79. 0.11
MILE	29.00	820.08	299999.	4.69	63981.	1603.	15.00	0.0200	0.	80. 0.13
MILE	27.30	819.92	299999.	4.65	64564.	1532.	15.30	0.0230	0.	83. 0.13
MILE	25.20	819.79	299999.	3.96	75683.	1514.	16.17	0.0230	0.	85. 0.10
MILE	23.10	819.49	299999.	4.58	65492.	1701.	15.11	0.0230	0.	89. 0.13

ODATE 10-14-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	6.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL
INFLOW	DEPTH	FROUDE								
MILE	79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60. 0.38

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 332 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE	75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE	73.50	859.19	300000.	11.02	27220.	1684.	10.40	0.0330	0.	60.	0.48
MILE	71.40	856.27	300000.	7.45	40248.	1408.	10.74	0.0400	0.	58.	0.25
MILE	69.30	852.15	300000.	8.21	36539.	1397.	10.20	0.0340	0.	53.	0.28
MILE	67.20	850.04	300000.	5.36	56022.	3394.	9.78	0.0340	0.	59.	0.23
MILE	65.10	846.64	300000.	7.10	42281.	4040.	10.00	0.0320	0.	60.	0.39
MILE	63.00	844.86	300000.	5.05	59396.	2885.	8.42	0.0400	0.	64.	0.20
MILE	60.90	839.92	300000.	7.60	39486.	2485.	9.63	0.0450	0.	63.	0.34
MILE	58.80	832.40	299999.	7.89	38010.	1815.	8.46	0.0400	0.	59.	0.30
MILE	57.00	830.73	299999.	7.89	38034.	1906.	8.79	0.0200	0.	56.	0.31
MILE	55.00	828.36	299999.	9.13	32842.	1898.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.44	299999.	6.69	44867.	2256.	9.31	0.0200	0.	54.	0.26
MILE	51.00	826.14	299999.	6.99	42902.	2903.	9.15	0.0200	0.	57.	0.32
MILE	48.30	825.49	299999.	5.18	57963.	5916.	11.20	0.0200	0.	57.	0.29
MILE	46.20	824.86	299999.	5.83	51446.	5853.	11.35	0.0200	0.	63.	0.35
MILE	44.10	824.84	299999.	3.51	85513.	2942.	11.00	0.0300	0.	70.	0.11
MILE	43.70	823.70	299999.	8.71	34461.	2805.	12.97	0.0300	0.	71.	0.44
MILE	42.00	823.64	299999.	4.08	73558.	2694.	9.93	0.0300	0.	74.	0.14
MILE	39.10	821.76	299999.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE	37.00	821.79	299999.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE	36.00	821.03	299999.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE	34.60	820.79	299999.	4.99	60073.	1995.	13.93	0.0280	0.	72.	0.16
MILE	33.60	821.00	299999.	2.16	138910.	3587.	13.16	0.0290	0.	78.	0.06
MILE	31.50	820.42	299999.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE	30.10	820.21	299999.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11
MILE	29.00	820.08	299999.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE	27.30	819.92	299999.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE	25.20	819.79	299999.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE	23.10	819.49	299999.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

ODATE 10-14-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 7.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60.	0.38
MILE	77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE	75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE	73.50	859.19	300000.	11.02	27220.	1684.	10.40	0.0330	0.	60.	0.48
MILE	71.40	856.27	300000.	7.45	40248.	1408.	10.74	0.0400	0.	58.	0.25
MILE	69.30	852.15	300000.	8.21	36539.	1397.	10.20	0.0340	0.	53.	0.28
MILE	67.20	850.04	300000.	5.36	56022.	3394.	9.78	0.0340	0.	59.	0.23
MILE	65.10	846.64	300000.	7.10	42281.	4040.	10.00	0.0320	0.	60.	0.39
MILE	63.00	844.86	300000.	5.05	59396.	2885.	8.42	0.0400	0.	64.	0.20
MILE	60.90	839.92	300000.	7.60	39486.	2485.	9.63	0.0450	0.	63.	0.34
MILE	58.80	832.40	300000.	7.89	38010.	1815.	8.46	0.0400	0.	59.	0.30
MILE	57.00	830.73	300000.	7.89	38034.	1906.	8.79	0.0200	0.	56.	0.31

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 333 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 55.00	828.36	299999.	9.13	32842.	1898.	8.71	0.0200	0.	55.	0.39
MILE 53.10	827.44	299999.	6.69	44867.	2256.	9.31	0.0200	0.	54.	0.26
MILE 51.00	826.14	299999.	6.99	42902.	2903.	9.15	0.0200	0.	57.	0.32
MILE 48.30	825.49	299999.	5.18	57963.	5916.	11.20	0.0200	0.	57.	0.29
MILE 46.20	824.86	299999.	5.83	51446.	5853.	11.35	0.0200	0.	63.	0.35
MILE 44.10	824.84	299999.	3.51	85513.	2942.	11.00	0.0300	0.	70.	0.11
MILE 43.70	823.70	299999.	8.71	34461.	2805.	12.97	0.0300	0.	71.	0.44
MILE 42.00	823.64	299999.	4.08	73558.	2694.	9.93	0.0300	0.	74.	0.14
MILE 39.10	821.76	299999.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE 37.00	821.79	299999.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE 36.00	821.03	299999.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE 34.60	820.79	299999.	4.99	60073.	1995.	13.93	0.0280	0.	72.	0.16
MILE 33.60	821.00	299999.	2.16	138910.	3587.	13.16	0.0290	0.	78.	0.06
MILE 31.50	820.42	299999.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE 30.10	820.21	299999.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11
MILE 29.00	820.08	299999.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE 27.30	819.92	299999.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE 25.20	819.79	299999.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE 23.10	819.49	299999.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

ODATE 10-14-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	8.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL	
INFLOW	DEPTH	FROUDE								
MILE 79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60.	0.38
MILE 77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE 75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE 73.50	859.19	300000.	11.02	27220.	1684.	10.40	0.0330	0.	60.	0.48
MILE 71.40	856.27	300000.	7.45	40248.	1408.	10.74	0.0400	0.	58.	0.25
MILE 69.30	852.15	300000.	8.21	36539.	1397.	10.20	0.0340	0.	53.	0.28
MILE 67.20	850.04	300000.	5.36	56022.	3394.	9.78	0.0340	0.	59.	0.23
MILE 65.10	846.64	300000.	7.10	42281.	4040.	10.00	0.0320	0.	60.	0.39
MILE 63.00	844.86	300000.	5.05	59396.	2885.	8.42	0.0400	0.	64.	0.20
MILE 60.90	839.92	300000.	7.60	39486.	2485.	9.63	0.0450	0.	63.	0.34
MILE 58.80	832.40	300000.	7.89	38010.	1815.	8.46	0.0400	0.	59.	0.30
MILE 57.00	830.73	300000.	7.89	38034.	1906.	8.79	0.0200	0.	56.	0.31
MILE 55.00	828.36	300000.	9.13	32842.	1898.	8.71	0.0200	0.	55.	0.39
MILE 53.10	827.44	300000.	6.69	44867.	2256.	9.31	0.0200	0.	54.	0.26
MILE 51.00	826.14	300000.	6.99	42902.	2903.	9.15	0.0200	0.	57.	0.32
MILE 48.30	825.49	299999.	5.18	57963.	5916.	11.20	0.0200	0.	57.	0.29
MILE 46.20	824.86	299999.	5.83	51446.	5853.	11.35	0.0200	0.	63.	0.35
MILE 44.10	824.84	299999.	3.51	85513.	2942.	11.00	0.0300	0.	70.	0.11
MILE 43.70	823.70	299999.	8.71	34461.	2805.	12.97	0.0300	0.	71.	0.44
MILE 42.00	823.64	299999.	4.08	73558.	2694.	9.93	0.0300	0.	74.	0.14
MILE 39.10	821.76	299999.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE 37.00	821.79	299999.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE 36.00	821.03	299999.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 334 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	34.60	820.79	299999.	4.99	60073.	1995.	13.93	0.0280	0.	72.	0.16
MILE	33.60	821.00	299999.	2.16	138910.	3587.	13.16	0.0290	0.	78.	0.06
MILE	31.50	820.42	299999.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE	30.10	820.21	299999.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11
MILE	29.00	820.08	299999.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE	27.30	819.92	299999.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE	25.20	819.79	299999.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE	23.10	819.49	299999.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

0DATE 10-14-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	9.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL	
INFLOW	DEPTH	FROUDE									
MILE	79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60.	0.38
MILE	77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE	75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE	73.50	859.19	300000.	11.02	27220.	1684.	10.40	0.0330	0.	60.	0.48
MILE	71.40	856.27	300000.	7.45	40248.	1408.	10.74	0.0400	0.	58.	0.25
MILE	69.30	852.15	300000.	8.21	36539.	1397.	10.20	0.0340	0.	53.	0.28
MILE	67.20	850.04	300000.	5.36	56022.	3394.	9.78	0.0340	0.	59.	0.23
MILE	65.10	846.64	300000.	7.10	42281.	4040.	10.00	0.0320	0.	60.	0.39
MILE	63.00	844.86	300000.	5.05	59396.	2885.	8.42	0.0400	0.	64.	0.20
MILE	60.90	839.92	300000.	7.60	39486.	2485.	9.63	0.0450	0.	63.	0.34
MILE	58.80	832.40	300000.	7.89	38010.	1815.	8.46	0.0400	0.	59.	0.30
MILE	57.00	830.73	300000.	7.89	38034.	1906.	8.79	0.0200	0.	56.	0.31
MILE	55.00	828.36	300000.	9.13	32842.	1898.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.44	300000.	6.69	44867.	2256.	9.31	0.0200	0.	54.	0.26
MILE	51.00	826.14	300000.	6.99	42902.	2903.	9.15	0.0200	0.	57.	0.32
MILE	48.30	825.49	300000.	5.18	57963.	5916.	11.20	0.0200	0.	57.	0.29
MILE	46.20	824.86	299999.	5.83	51446.	5853.	11.35	0.0200	0.	63.	0.35
MILE	44.10	824.84	299999.	3.51	85513.	2942.	11.00	0.0300	0.	70.	0.11
MILE	43.70	823.70	299999.	8.71	34461.	2805.	12.97	0.0300	0.	71.	0.44
MILE	42.00	823.64	299999.	4.08	73558.	2694.	9.93	0.0300	0.	74.	0.14
MILE	39.10	821.76	299999.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE	37.00	821.79	299999.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE	36.00	821.03	299999.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE	34.60	820.79	299999.	4.99	60073.	1995.	13.93	0.0280	0.	72.	0.16
MILE	33.60	821.00	299999.	2.16	138910.	3587.	13.16	0.0290	0.	78.	0.06
MILE	31.50	820.42	299999.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE	30.10	820.21	299999.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11
MILE	29.00	820.08	299999.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE	27.30	819.92	299999.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE	25.20	819.79	299999.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE	23.10	819.49	299999.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 335 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

0DATE 10-14-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 10.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60.	0.38
MILE 77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE 75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE 73.50	859.19	300000.	11.02	27220.	1684.	10.40	0.0330	0.	60.	0.48
MILE 71.40	856.27	300000.	7.45	40248.	1408.	10.74	0.0400	0.	58.	0.25
MILE 69.30	852.15	300000.	8.21	36539.	1397.	10.20	0.0340	0.	53.	0.28
MILE 67.20	850.04	300000.	5.36	56022.	3394.	9.78	0.0340	0.	59.	0.23
MILE 65.10	846.64	300000.	7.10	42281.	4040.	10.00	0.0320	0.	60.	0.39
MILE 63.00	844.86	300000.	5.05	59396.	2885.	8.42	0.0400	0.	64.	0.20
MILE 60.90	839.92	300000.	7.60	39486.	2485.	9.63	0.0450	0.	63.	0.34
MILE 58.80	832.40	300000.	7.89	38010.	1815.	8.46	0.0400	0.	59.	0.30
MILE 57.00	830.73	300000.	7.89	38034.	1906.	8.79	0.0200	0.	56.	0.31
MILE 55.00	828.36	300000.	9.13	32842.	1898.	8.71	0.0200	0.	55.	0.39
MILE 53.10	827.44	300000.	6.69	44867.	2256.	9.31	0.0200	0.	54.	0.26
MILE 51.00	826.14	300000.	6.99	42902.	2903.	9.15	0.0200	0.	57.	0.32
MILE 48.30	825.49	300000.	5.18	57963.	5916.	11.20	0.0200	0.	57.	0.29
MILE 46.20	824.86	300000.	5.83	51446.	5853.	11.35	0.0200	0.	63.	0.35
MILE 44.10	824.84	300000.	3.51	85513.	2942.	11.00	0.0300	0.	70.	0.11
MILE 43.70	823.70	300000.	8.71	34461.	2805.	12.97	0.0300	0.	71.	0.44
MILE 42.00	823.64	300000.	4.08	73558.	2694.	9.93	0.0300	0.	74.	0.14
MILE 39.10	821.76	299999.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE 37.00	821.79	299999.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE 36.00	821.03	299999.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE 34.60	820.79	299999.	4.99	60073.	1995.	13.93	0.0280	0.	72.	0.16
MILE 33.60	821.00	299999.	2.16	138910.	3587.	13.16	0.0290	0.	78.	0.06
MILE 31.50	820.42	299999.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE 30.10	820.21	299999.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11
MILE 29.00	820.08	299999.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE 27.30	819.92	299999.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE 25.20	819.79	299999.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE 23.10	819.49	299999.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

0DATE 10-14-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 11.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60.	0.38
MILE 77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE 75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE 73.50	859.19	300000.	11.02	27220.	1684.	10.40	0.0330	0.	60.	0.48
MILE 71.40	856.27	300000.	7.45	40248.	1408.	10.74	0.0400	0.	58.	0.25

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 336 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	69.30	852.15	300000.	8.21	36539.	1397.	10.20	0.0340	0.	53.	0.28
MILE	67.20	850.04	300000.	5.36	56022.	3394.	9.78	0.0340	0.	59.	0.23
MILE	65.10	846.64	300000.	7.10	42281.	4040.	10.00	0.0320	0.	60.	0.39
MILE	63.00	844.86	300000.	5.05	59396.	2885.	8.42	0.0400	0.	64.	0.20
MILE	60.90	839.92	300000.	7.60	39486.	2485.	9.63	0.0450	0.	63.	0.34
MILE	58.80	832.40	300000.	7.89	38010.	1815.	8.46	0.0400	0.	59.	0.30
MILE	57.00	830.73	300000.	7.89	38034.	1906.	8.79	0.0200	0.	56.	0.31
MILE	55.00	828.36	300000.	9.13	32842.	1898.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.44	300000.	6.69	44867.	2256.	9.31	0.0200	0.	54.	0.26
MILE	51.00	826.14	300000.	6.99	42902.	2903.	9.15	0.0200	0.	57.	0.32
MILE	48.30	825.49	300000.	5.18	57963.	5916.	11.20	0.0200	0.	57.	0.29
MILE	46.20	824.86	300000.	5.83	51446.	5853.	11.35	0.0200	0.	63.	0.35
MILE	44.10	824.84	300000.	3.51	85513.	2942.	11.00	0.0300	0.	70.	0.11
MILE	43.70	823.70	300000.	8.71	34461.	2805.	12.97	0.0300	0.	71.	0.44
MILE	42.00	823.64	300000.	4.08	73558.	2694.	9.93	0.0300	0.	74.	0.14
MILE	39.10	821.76	300000.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE	37.00	821.79	300000.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE	36.00	821.03	300000.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE	34.60	820.79	300000.	4.99	60073.	1995.	13.93	0.0280	0.	72.	0.16
MILE	33.60	821.00	300000.	2.16	138910.	3587.	13.16	0.0290	0.	78.	0.06
MILE	31.50	820.42	300000.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE	30.10	820.21	300000.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11
MILE	29.00	820.08	300000.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE	27.30	819.92	300000.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE	25.20	819.79	300000.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE	23.10	819.49	300000.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

0DATE 10-14-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 12.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60.	0.38
MILE	77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE	75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE	73.50	859.19	300000.	11.02	27220.	1684.	10.40	0.0330	0.	60.	0.48
MILE	71.40	856.27	300000.	7.45	40248.	1408.	10.74	0.0400	0.	58.	0.25
MILE	69.30	852.15	300000.	8.21	36539.	1397.	10.20	0.0340	0.	53.	0.28
MILE	67.20	850.04	300000.	5.35	56022.	3394.	9.78	0.0340	0.	59.	0.23
MILE	65.10	846.64	300000.	7.10	42281.	4040.	10.00	0.0320	0.	60.	0.39
MILE	63.00	844.86	300000.	5.05	59396.	2885.	8.42	0.0400	0.	64.	0.20
MILE	60.90	839.92	300000.	7.60	39486.	2485.	9.63	0.0450	0.	63.	0.34
MILE	58.80	832.40	300000.	7.89	38010.	1815.	8.46	0.0400	0.	59.	0.30
MILE	57.00	830.73	300000.	7.89	38034.	1906.	8.79	0.0200	0.	56.	0.31
MILE	55.00	828.36	300000.	9.13	32842.	1898.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.44	300000.	6.69	44867.	2256.	9.31	0.0200	0.	54.	0.26
MILE	51.00	826.14	300000.	6.99	42902.	2903.	9.15	0.0200	0.	57.	0.32
MILE	48.30	825.49	300000.	5.18	57963.	5916.	11.20	0.0200	0.	57.	0.29

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 337 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	46.20	824.86	300000.	5.83	51446.	5853.	11.35	0.0200	0.	63.	0.35
MILE	44.10	824.84	300000.	3.51	85513.	2942.	11.00	0.0300	0.	70.	0.11
MILE	43.70	823.70	300000.	8.71	34461.	2805.	12.97	0.0300	0.	71.	0.44
MILE	42.00	823.64	300000.	4.08	73558.	2694.	9.93	0.0300	0.	74.	0.14
MILE	39.10	821.76	300000.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE	37.00	821.79	300000.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE	36.00	821.03	300000.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE	34.60	820.79	300000.	4.99	60073.	1995.	13.93	0.0280	0.	72.	0.16
MILE	33.60	821.00	300000.	2.16	138910.	3587.	13.16	0.0290	0.	78.	0.06
MILE	31.50	820.42	300000.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE	30.10	820.21	300000.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11
MILE	29.00	820.08	300000.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE	27.30	819.92	300000.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE	25.20	819.79	300000.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE	23.10	819.49	300000.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

ODATE 10-14-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 13.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60.	0.38
MILE	77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE	75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE	73.50	859.19	300000.	11.02	27220.	1684.	10.40	0.0330	0.	60.	0.48
MILE	71.40	856.27	300000.	7.45	40248.	1408.	10.74	0.0400	0.	58.	0.25
MILE	69.30	852.15	300000.	8.21	36539.	1397.	10.20	0.0340	0.	53.	0.28
MILE	67.20	850.04	300000.	5.35	56022.	3394.	9.78	0.0340	0.	59.	0.23
MILE	65.10	846.64	300000.	7.10	42281.	4040.	10.00	0.0320	0.	60.	0.39
MILE	63.00	844.86	300000.	5.05	59396.	2885.	8.42	0.0400	0.	64.	0.20
MILE	60.90	839.92	300000.	7.60	39486.	2485.	9.63	0.0450	0.	63.	0.34
MILE	58.80	832.40	300000.	7.89	38010.	1815.	8.46	0.0400	0.	59.	0.30
MILE	57.00	830.73	300000.	7.89	38034.	1906.	8.79	0.0200	0.	56.	0.31
MILE	55.00	828.36	300000.	9.13	32842.	1898.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.44	300000.	6.69	44867.	2256.	9.31	0.0200	0.	54.	0.26
MILE	51.00	826.14	300000.	6.99	42902.	2903.	9.15	0.0200	0.	57.	0.32
MILE	48.30	825.49	300000.	5.18	57963.	5916.	11.20	0.0200	0.	57.	0.29
MILE	46.20	824.86	300000.	5.83	51446.	5853.	11.35	0.0200	0.	63.	0.35
MILE	44.10	824.84	300000.	3.51	85513.	2942.	11.00	0.0300	0.	70.	0.11
MILE	43.70	823.70	300000.	8.71	34461.	2805.	12.97	0.0300	0.	71.	0.44
MILE	42.00	823.64	300000.	4.08	73558.	2694.	9.93	0.0300	0.	74.	0.14
MILE	39.10	821.76	300000.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE	37.00	821.79	300000.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE	36.00	821.03	300000.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE	34.60	820.79	300000.	4.99	60073.	1995.	13.93	0.0280	0.	72.	0.16
MILE	33.60	821.00	300000.	2.16	138910.	3587.	13.16	0.0290	0.	78.	0.06
MILE	31.50	820.42	300000.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE	30.10	820.21	300000.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 338 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	29.00	820.08	300000.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE	27.30	819.92	300000.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE	25.20	819.79	300000.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE	23.10	819.49	300000.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

0DATE 10-14-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 14.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE	79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60.	0.38
MILE	77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE	75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE	73.50	859.19	300000.	11.02	27220.	1684.	10.40	0.0330	0.	60.	0.48
MILE	71.40	856.27	300000.	7.45	40248.	1408.	10.74	0.0400	0.	58.	0.25
MILE	69.30	852.15	300000.	8.21	36539.	1397.	10.20	0.0340	0.	53.	0.28
MILE	67.20	850.04	300000.	5.35	56022.	3394.	9.78	0.0340	0.	59.	0.23
MILE	65.10	846.64	300000.	7.10	42281.	4040.	10.00	0.0320	0.	60.	0.39
MILE	63.00	844.86	300000.	5.05	59396.	2885.	8.42	0.0400	0.	64.	0.20
MILE	60.90	839.92	300000.	7.60	39486.	2485.	9.63	0.0450	0.	63.	0.34
MILE	58.80	832.40	300000.	7.89	38010.	1815.	8.46	0.0400	0.	59.	0.30
MILE	57.00	830.73	300000.	7.89	38034.	1906.	8.79	0.0200	0.	56.	0.31
MILE	55.00	828.36	300000.	9.13	32842.	1898.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.44	300000.	6.69	44867.	2256.	9.31	0.0200	0.	54.	0.26
MILE	51.00	826.14	300000.	6.99	42902.	2903.	9.15	0.0200	0.	57.	0.32
MILE	48.30	825.49	300000.	5.18	57963.	5916.	11.20	0.0200	0.	57.	0.29
MILE	46.20	824.86	300000.	5.83	51446.	5853.	11.35	0.0200	0.	63.	0.35
MILE	44.10	824.84	300000.	3.51	85513.	2942.	11.00	0.0300	0.	70.	0.11
MILE	43.70	823.70	300000.	8.71	34461.	2805.	12.97	0.0300	0.	71.	0.44
MILE	42.00	823.64	300000.	4.08	73558.	2694.	9.93	0.0300	0.	74.	0.14
MILE	39.10	821.76	300000.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE	37.00	821.79	300000.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE	36.00	821.03	300000.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE	34.60	820.79	300000.	4.99	60073.	1995.	13.93	0.0280	0.	72.	0.16
MILE	33.60	821.00	300000.	2.16	138910.	3587.	13.16	0.0290	0.	78.	0.06
MILE	31.50	820.42	300000.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE	30.10	820.21	300000.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11
MILE	29.00	820.08	300000.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE	27.30	819.92	300000.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE	25.20	819.79	300000.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE	23.10	819.49	300000.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

0DATE 10-14-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 339 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

TIME 15.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
INFLOW DEPTH	FROUDE									
MILE 79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60.	0.38
MILE 77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE 75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE 73.50	859.19	300000.	11.02	27220.	1684.	10.40	0.0330	0.	60.	0.48
MILE 71.40	856.27	300000.	7.45	40248.	1408.	10.74	0.0400	0.	58.	0.25
MILE 69.30	852.15	300000.	8.21	36539.	1397.	10.20	0.0340	0.	53.	0.28
MILE 67.20	850.04	300000.	5.35	56022.	3394.	9.78	0.0340	0.	59.	0.23
MILE 65.10	846.64	300000.	7.10	42281.	4040.	10.00	0.0320	0.	60.	0.39
MILE 63.00	844.86	300000.	5.05	59396.	2885.	8.42	0.0400	0.	64.	0.20
MILE 60.90	839.92	300000.	7.60	39486.	2485.	9.63	0.0450	0.	63.	0.34
MILE 58.80	832.40	300000.	7.89	38010.	1815.	8.46	0.0400	0.	59.	0.30
MILE 57.00	830.73	300000.	7.89	38034.	1906.	8.79	0.0200	0.	56.	0.31
MILE 55.00	828.36	300000.	9.13	32842.	1898.	8.71	0.0200	0.	55.	0.39
MILE 53.10	827.44	300000.	6.69	44867.	2256.	9.31	0.0200	0.	54.	0.26
MILE 51.00	826.14	300000.	6.99	42902.	2903.	9.15	0.0200	0.	57.	0.32
MILE 48.30	825.49	300000.	5.18	57963.	5916.	11.20	0.0200	0.	57.	0.29
MILE 46.20	824.86	300000.	5.83	51446.	5853.	11.35	0.0200	0.	63.	0.35
MILE 44.10	824.84	300000.	3.51	85513.	2942.	11.00	0.0300	0.	70.	0.11
MILE 43.70	823.70	300000.	8.71	34461.	2805.	12.97	0.0300	0.	71.	0.44
MILE 42.00	823.64	300000.	4.08	73558.	2694.	9.93	0.0300	0.	74.	0.14
MILE 39.10	821.76	300000.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE 37.00	821.79	300000.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE 36.00	821.03	300000.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE 34.60	820.79	300000.	4.99	60073.	1995.	13.93	0.0280	0.	72.	0.16
MILE 33.60	821.00	300000.	2.16	138910.	3587.	13.16	0.0290	0.	78.	0.06
MILE 31.50	820.42	300000.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE 30.10	820.21	300000.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11
MILE 29.00	820.08	300000.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE 27.30	819.92	300000.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE 25.20	819.79	300000.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE 23.10	819.49	300000.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

0DATE 10-14-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 16.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
INFLOW DEPTH	FROUDE									
MILE 79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60.	0.38
MILE 77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE 75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE 73.50	859.19	300000.	11.02	27220.	1684.	10.40	0.0330	0.	60.	0.48
MILE 71.40	856.27	300000.	7.45	40248.	1408.	10.74	0.0400	0.	58.	0.25
MILE 69.30	852.15	300000.	8.21	36539.	1397.	10.20	0.0340	0.	53.	0.28
MILE 67.20	850.04	300000.	5.35	56022.	3394.	9.78	0.0340	0.	59.	0.23
MILE 65.10	846.64	300000.	7.10	42281.	4040.	10.00	0.0320	0.	60.	0.39

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 340 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 63.00	844.86	300000.	5.05	59396.	2885.	8.42	0.0400	0.	64.	0.20
MILE 60.90	839.92	300000.	7.60	39486.	2485.	9.63	0.0450	0.	63.	0.34
MILE 58.80	832.40	300000.	7.89	38010.	1815.	8.46	0.0400	0.	59.	0.30
MILE 57.00	830.73	300000.	7.89	38034.	1906.	8.79	0.0200	0.	56.	0.31
MILE 55.00	828.36	300000.	9.13	32842.	1898.	8.71	0.0200	0.	55.	0.39
MILE 53.10	827.44	300000.	6.69	44867.	2256.	9.31	0.0200	0.	54.	0.26
MILE 51.00	826.14	300000.	6.99	42902.	2903.	9.15	0.0200	0.	57.	0.32
MILE 48.30	825.49	300000.	5.18	57963.	5916.	11.20	0.0200	0.	57.	0.29
MILE 46.20	824.86	300000.	5.83	51446.	5853.	11.35	0.0200	0.	63.	0.35
MILE 44.10	824.84	300000.	3.51	85513.	2942.	11.00	0.0300	0.	70.	0.11
MILE 43.70	823.70	300000.	8.71	34461.	2805.	12.97	0.0300	0.	71.	0.44
MILE 42.00	823.64	300000.	4.08	73558.	2694.	9.93	0.0300	0.	74.	0.14
MILE 39.10	821.76	300000.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE 37.00	821.79	300000.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE 36.00	821.03	300000.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE 34.60	820.79	300000.	4.99	60073.	1995.	13.93	0.0280	0.	72.	0.16
MILE 33.60	821.00	300000.	2.16	138910.	3587.	13.16	0.0290	0.	78.	0.06
MILE 31.50	820.42	300000.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE 30.10	820.21	300000.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11
MILE 29.00	820.08	300000.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE 27.30	819.92	300000.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE 25.20	819.79	300000.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE 23.10	819.49	300000.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

ODATE 10-14-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 17.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60.	0.38
MILE 77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE 75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE 73.50	859.19	300000.	11.02	27220.	1684.	10.40	0.0330	0.	60.	0.48
MILE 71.40	856.27	300000.	7.45	40248.	1408.	10.74	0.0400	0.	58.	0.25
MILE 69.30	852.15	300000.	8.21	36539.	1397.	10.20	0.0340	0.	53.	0.28
MILE 67.20	850.04	300000.	5.35	56022.	3394.	9.78	0.0340	0.	59.	0.23
MILE 65.10	846.64	300000.	7.10	42281.	4040.	10.00	0.0320	0.	60.	0.39
MILE 63.00	844.86	300000.	5.05	59396.	2885.	8.42	0.0400	0.	64.	0.20
MILE 60.90	839.92	300000.	7.60	39486.	2485.	9.63	0.0450	0.	63.	0.34
MILE 58.80	832.40	300000.	7.89	38010.	1815.	8.46	0.0400	0.	59.	0.30
MILE 57.00	830.73	300000.	7.89	38034.	1906.	8.79	0.0200	0.	56.	0.31
MILE 55.00	828.36	300000.	9.13	32842.	1898.	8.71	0.0200	0.	55.	0.39
MILE 53.10	827.44	300000.	6.69	44867.	2256.	9.31	0.0200	0.	54.	0.26
MILE 51.00	826.14	300000.	6.99	42902.	2903.	9.15	0.0200	0.	57.	0.32
MILE 48.30	825.49	300000.	5.18	57963.	5916.	11.20	0.0200	0.	57.	0.29
MILE 46.20	824.86	300000.	5.83	51446.	5853.	11.35	0.0200	0.	63.	0.35
MILE 44.10	824.84	300000.	3.51	85513.	2942.	11.00	0.0300	0.	70.	0.11
MILE 43.70	823.70	300000.	8.71	34461.	2805.	12.97	0.0300	0.	71.	0.44

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 341 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 42.00	823.64	300000.	4.08	73558.	2694.	9.93	0.0300	0.	74.	0.14
MILE 39.10	821.76	300000.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE 37.00	821.79	300000.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE 36.00	821.03	300000.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE 34.60	820.79	300000.	4.99	60073.	1995.	13.93	0.0280	0.	72.	0.16
MILE 33.60	821.00	300000.	2.16	138910.	3587.	13.16	0.0290	0.	78.	0.06
MILE 31.50	820.42	300000.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE 30.10	820.21	300000.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11
MILE 29.00	820.08	300000.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE 27.30	819.92	300000.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE 25.20	819.79	300000.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE 23.10	819.49	300000.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

ODATE 10-14-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 18.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60.	0.38
MILE 77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE 75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE 73.50	859.19	300000.	11.02	27220.	1684.	10.40	0.0330	0.	60.	0.48
MILE 71.40	856.27	300000.	7.45	40248.	1408.	10.74	0.0400	0.	58.	0.25
MILE 69.30	852.15	300000.	8.21	36539.	1397.	10.20	0.0340	0.	53.	0.28
MILE 67.20	850.04	300000.	5.35	56022.	3394.	9.78	0.0340	0.	59.	0.23
MILE 65.10	846.64	300000.	7.10	42281.	4040.	10.00	0.0320	0.	60.	0.39
MILE 63.00	844.86	300000.	5.05	59396.	2885.	8.42	0.0400	0.	64.	0.20
MILE 60.90	839.92	300000.	7.60	39486.	2485.	9.63	0.0450	0.	63.	0.34
MILE 58.80	832.40	300000.	7.89	38010.	1815.	8.46	0.0400	0.	59.	0.30
MILE 57.00	830.73	300000.	7.89	38034.	1906.	8.79	0.0200	0.	56.	0.31
MILE 55.00	828.36	300000.	9.13	32842.	1898.	8.71	0.0200	0.	55.	0.39
MILE 53.10	827.44	300000.	6.69	44867.	2256.	9.31	0.0200	0.	54.	0.26
MILE 51.00	826.14	300000.	6.99	42902.	2903.	9.15	0.0200	0.	57.	0.32
MILE 48.30	825.49	300000.	5.18	57963.	5916.	11.20	0.0200	0.	57.	0.29
MILE 46.20	824.86	300000.	5.83	51446.	5853.	11.35	0.0200	0.	63.	0.35
MILE 44.10	824.84	300000.	3.51	85513.	2942.	11.00	0.0300	0.	70.	0.11
MILE 43.70	823.70	300000.	8.71	34461.	2805.	12.97	0.0300	0.	71.	0.44
MILE 42.00	823.64	300000.	4.08	73558.	2694.	9.93	0.0300	0.	74.	0.14
MILE 39.10	821.76	300000.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE 37.00	821.79	300000.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE 36.00	821.03	300000.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE 34.60	820.79	300000.	4.99	60073.	1995.	13.93	0.0280	0.	72.	0.16
MILE 33.60	821.00	300000.	2.16	138910.	3587.	13.16	0.0290	0.	78.	0.06
MILE 31.50	820.42	300000.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE 30.10	820.21	300000.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11
MILE 29.00	820.08	300000.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE 27.30	819.92	300000.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE 25.20	819.79	300000.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 342 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 23.10 819.49 300000. 4.58 65492. 1701. 15.11 0.0230 0. 89. 0.13

0DATE 10-14-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 19.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60.	0.38
MILE 77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE 75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE 73.50	859.19	300000.	11.02	27220.	1684.	10.40	0.0330	0.	60.	0.48
MILE 71.40	856.27	300000.	7.45	40248.	1408.	10.74	0.0400	0.	58.	0.25
MILE 69.30	852.15	300000.	8.21	36539.	1397.	10.20	0.0340	0.	53.	0.28
MILE 67.20	850.04	300000.	5.35	56022.	3394.	9.78	0.0340	0.	59.	0.23
MILE 65.10	846.64	300000.	7.10	42281.	4040.	10.00	0.0320	0.	60.	0.39
MILE 63.00	844.86	300000.	5.05	59396.	2885.	8.42	0.0400	0.	64.	0.20
MILE 60.90	839.92	300000.	7.60	39486.	2485.	9.63	0.0450	0.	63.	0.34
MILE 58.80	832.40	300000.	7.89	38010.	1815.	8.46	0.0400	0.	59.	0.30
MILE 57.00	830.73	300000.	7.89	38034.	1906.	8.79	0.0200	0.	56.	0.31
MILE 55.00	828.36	300000.	9.13	32842.	1898.	8.71	0.0200	0.	55.	0.39
MILE 53.10	827.44	300000.	6.69	44867.	2256.	9.31	0.0200	0.	54.	0.26
MILE 51.00	826.14	300000.	6.99	42902.	2903.	9.15	0.0200	0.	57.	0.32
MILE 48.30	825.49	300000.	5.18	57963.	5916.	11.20	0.0200	0.	57.	0.29
MILE 46.20	824.86	300000.	5.83	51446.	5853.	11.35	0.0200	0.	63.	0.35
MILE 44.10	824.84	300000.	3.51	85513.	2942.	11.00	0.0300	0.	70.	0.11
MILE 43.70	823.70	300000.	8.71	34461.	2805.	12.97	0.0300	0.	71.	0.44
MILE 42.00	823.64	300000.	4.08	73558.	2694.	9.93	0.0300	0.	74.	0.14
MILE 39.10	821.76	300000.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE 37.00	821.79	300000.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE 36.00	821.03	300000.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE 34.60	820.79	300000.	4.99	60073.	1995.	13.93	0.0280	0.	72.	0.16
MILE 33.60	821.00	300000.	2.16	138910.	3587.	13.16	0.0290	0.	78.	0.06
MILE 31.50	820.42	300000.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE 30.10	820.21	300000.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11
MILE 29.00	820.08	300000.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE 27.30	819.92	300000.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE 25.20	819.79	300000.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE 23.10	819.49	300000.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

0DATE 10-14-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 20.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80 878.24 300000. 11.35 26440. 952. 10.09 0.0290 0. 60. 0.38

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 343 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE	75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE	73.50	859.19	300000.	11.02	27220.	1684.	10.40	0.0330	0.	60.	0.48
MILE	71.40	856.27	300000.	7.45	40248.	1408.	10.74	0.0400	0.	58.	0.25
MILE	69.30	852.15	300000.	8.21	36539.	1397.	10.20	0.0340	0.	53.	0.28
MILE	67.20	850.04	300000.	5.35	56022.	3394.	9.78	0.0340	0.	59.	0.23
MILE	65.10	846.64	300000.	7.10	42281.	4040.	10.00	0.0320	0.	60.	0.39
MILE	63.00	844.86	300000.	5.05	59396.	2885.	8.42	0.0400	0.	64.	0.20
MILE	60.90	839.92	300000.	7.60	39486.	2485.	9.63	0.0450	0.	63.	0.34
MILE	58.80	832.40	300000.	7.89	38010.	1815.	8.46	0.0400	0.	59.	0.30
MILE	57.00	830.73	300000.	7.89	38034.	1906.	8.79	0.0200	0.	56.	0.31
MILE	55.00	828.36	300000.	9.13	32842.	1898.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.44	300000.	6.69	44867.	2256.	9.31	0.0200	0.	54.	0.26
MILE	51.00	826.14	300000.	6.99	42902.	2903.	9.15	0.0200	0.	57.	0.32
MILE	48.30	825.49	300000.	5.18	57963.	5916.	11.20	0.0200	0.	57.	0.29
MILE	46.20	824.86	300000.	5.83	51446.	5853.	11.35	0.0200	0.	63.	0.35
MILE	44.10	824.84	300000.	3.51	85513.	2942.	11.00	0.0300	0.	70.	0.11
MILE	43.70	823.70	300000.	8.71	34461.	2805.	12.97	0.0300	0.	71.	0.44
MILE	42.00	823.64	300000.	4.08	73558.	2694.	9.93	0.0300	0.	74.	0.14
MILE	39.10	821.76	300000.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE	37.00	821.79	300000.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE	36.00	821.03	300000.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE	34.60	820.79	300000.	4.99	60073.	1995.	13.93	0.0280	0.	72.	0.16
MILE	33.60	821.00	300000.	2.16	138910.	3587.	13.16	0.0290	0.	78.	0.06
MILE	31.50	820.42	300000.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE	30.10	820.21	300000.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11
MILE	29.00	820.08	300000.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE	27.30	819.92	300000.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE	25.20	819.79	300000.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE	23.10	819.49	300000.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

ODATE 10-14-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 21.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60.	0.38
MILE	77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE	75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE	73.50	859.19	300000.	11.02	27220.	1684.	10.40	0.0330	0.	60.	0.48
MILE	71.40	856.27	300000.	7.45	40248.	1408.	10.74	0.0400	0.	58.	0.25
MILE	69.30	852.15	300000.	8.21	36539.	1397.	10.20	0.0340	0.	53.	0.28
MILE	67.20	850.04	300000.	5.35	56022.	3394.	9.78	0.0340	0.	59.	0.23
MILE	65.10	846.64	300000.	7.10	42281.	4040.	10.00	0.0320	0.	60.	0.39
MILE	63.00	844.86	300000.	5.05	59396.	2885.	8.42	0.0400	0.	64.	0.20
MILE	60.90	839.92	300000.	7.60	39486.	2485.	9.63	0.0450	0.	63.	0.34
MILE	58.80	832.40	300000.	7.89	38010.	1815.	8.46	0.0400	0.	59.	0.30
MILE	57.00	830.73	300000.	7.89	38034.	1906.	8.79	0.0200	0.	56.	0.31

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 344 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	55.00	828.36	300000.	9.13	32842.	1898.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.44	300000.	6.69	44867.	2256.	9.31	0.0200	0.	54.	0.26
MILE	51.00	826.14	300000.	6.99	42902.	2903.	9.15	0.0200	0.	57.	0.32
MILE	48.30	825.49	300000.	5.18	57963.	5916.	11.20	0.0200	0.	57.	0.29
MILE	46.20	824.86	300000.	5.83	51446.	5853.	11.35	0.0200	0.	63.	0.35
MILE	44.10	824.84	300000.	3.51	85513.	2942.	11.00	0.0300	0.	70.	0.11
MILE	43.70	823.70	300000.	8.71	34461.	2805.	12.97	0.0300	0.	71.	0.44
MILE	42.00	823.64	300000.	4.08	73558.	2694.	9.93	0.0300	0.	74.	0.14
MILE	39.10	821.76	300000.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE	37.00	821.79	300000.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE	36.00	821.03	300000.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE	34.60	820.79	300000.	4.99	60073.	1995.	13.93	0.0280	0.	72.	0.16
MILE	33.60	821.00	300000.	2.16	138910.	3587.	13.16	0.0290	0.	78.	0.06
MILE	31.50	820.42	300000.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE	30.10	820.21	300000.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11
MILE	29.00	820.08	300000.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE	27.30	819.92	300000.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE	25.20	819.79	300000.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE	23.10	819.49	300000.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

0DATE 10-14-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 22.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE	79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60.	0.38
MILE	77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE	75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE	73.50	859.19	300000.	11.02	27220.	1684.	10.40	0.0330	0.	60.	0.48
MILE	71.40	856.27	300000.	7.45	40248.	1408.	10.74	0.0400	0.	58.	0.25
MILE	69.30	852.15	300000.	8.21	36539.	1397.	10.20	0.0340	0.	53.	0.28
MILE	67.20	850.04	300000.	5.35	56022.	3394.	9.78	0.0340	0.	59.	0.23
MILE	65.10	846.64	300000.	7.10	42281.	4040.	10.00	0.0320	0.	60.	0.39
MILE	63.00	844.86	300000.	5.05	59396.	2885.	8.42	0.0400	0.	64.	0.20
MILE	60.90	839.92	300000.	7.60	39486.	2485.	9.63	0.0450	0.	63.	0.34
MILE	58.80	832.40	300000.	7.89	38010.	1815.	8.46	0.0400	0.	59.	0.30
MILE	57.00	830.73	300000.	7.89	38034.	1906.	8.79	0.0200	0.	56.	0.31
MILE	55.00	828.36	300000.	9.13	32842.	1898.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.44	300000.	6.69	44867.	2256.	9.31	0.0200	0.	54.	0.26
MILE	51.00	826.14	300000.	6.99	42902.	2903.	9.15	0.0200	0.	57.	0.32
MILE	48.30	825.49	300000.	5.18	57963.	5916.	11.20	0.0200	0.	57.	0.29
MILE	46.20	824.86	300000.	5.83	51446.	5853.	11.35	0.0200	0.	63.	0.35
MILE	44.10	824.84	300000.	3.51	85513.	2942.	11.00	0.0300	0.	70.	0.11
MILE	43.70	823.70	300000.	8.71	34461.	2805.	12.97	0.0300	0.	71.	0.44
MILE	42.00	823.64	300000.	4.08	73559.	2694.	9.93	0.0300	0.	74.	0.14
MILE	39.10	821.76	300000.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE	37.00	821.79	300000.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE	36.00	821.03	300000.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 345 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 34.60	820.79	300000.	4.99	60073.	1995.	13.93	0.0280	0.	72.	0.16
MILE 33.60	821.00	300000.	2.16	138910.	3587.	13.16	0.0290	0.	78.	0.06
MILE 31.50	820.42	300000.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE 30.10	820.21	300000.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11
MILE 29.00	820.08	300000.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE 27.30	819.92	300000.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE 25.20	819.79	300000.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE 23.10	819.49	300000.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

ODATE 10-14-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 23.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60.	0.38
MILE 77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE 75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE 73.50	859.19	300000.	11.02	27220.	1684.	10.40	0.0330	0.	60.	0.48
MILE 71.40	856.27	300000.	7.45	40248.	1408.	10.74	0.0400	0.	58.	0.25
MILE 69.30	852.15	300000.	8.21	36539.	1397.	10.20	0.0340	0.	53.	0.28
MILE 67.20	850.04	300000.	5.35	56022.	3394.	9.78	0.0340	0.	59.	0.23
MILE 65.10	846.64	300000.	7.10	42281.	4040.	10.00	0.0320	0.	60.	0.39
MILE 63.00	844.86	300000.	5.05	59396.	2885.	8.42	0.0400	0.	64.	0.20
MILE 60.90	839.92	300000.	7.60	39486.	2485.	9.63	0.0450	0.	63.	0.34
MILE 58.80	832.40	300000.	7.89	38010.	1815.	8.46	0.0400	0.	59.	0.30
MILE 57.00	830.73	300000.	7.89	38034.	1906.	8.79	0.0200	0.	56.	0.31
MILE 55.00	828.36	300000.	9.13	32842.	1898.	8.71	0.0200	0.	55.	0.39
MILE 53.10	827.44	300000.	6.69	44867.	2256.	9.31	0.0200	0.	54.	0.26
MILE 51.00	826.14	300000.	6.99	42902.	2903.	9.15	0.0200	0.	57.	0.32
MILE 48.30	825.49	300000.	5.18	57963.	5916.	11.20	0.0200	0.	57.	0.29
MILE 46.20	824.86	300000.	5.83	51446.	5853.	11.35	0.0200	0.	63.	0.35
MILE 44.10	824.84	300000.	3.51	85513.	2942.	11.00	0.0300	0.	70.	0.11
MILE 43.70	823.70	300000.	8.71	34461.	2805.	12.97	0.0300	0.	71.	0.44
MILE 42.00	823.64	300000.	4.08	73559.	2694.	9.93	0.0300	0.	74.	0.14
MILE 39.10	821.76	300000.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE 37.00	821.79	300000.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE 36.00	821.03	300000.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE 34.60	820.79	300000.	4.99	60073.	1995.	13.93	0.0280	0.	72.	0.16
MILE 33.60	821.00	300000.	2.16	138910.	3587.	13.16	0.0290	0.	78.	0.06
MILE 31.50	820.42	300000.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE 30.10	820.21	300000.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11
MILE 29.00	820.08	300000.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE 27.30	819.92	300000.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE 25.20	819.79	300000.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE 23.10	819.49	300000.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 346 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

0DATE 10-15-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	0.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL
INFLOW	DEPTH	FROUDE								
MILE	79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60. 0.38
MILE	77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65. 0.29
MILE	75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62. 0.47
MILE	73.50	859.19	300000.	11.02	27220.	1684.	10.40	0.0330	0.	60. 0.48
MILE	71.40	856.27	300000.	7.45	40248.	1408.	10.74	0.0400	0.	58. 0.25
MILE	69.30	852.15	300000.	8.21	36539.	1397.	10.20	0.0340	0.	53. 0.28
MILE	67.20	850.04	300000.	5.35	56022.	3394.	9.78	0.0340	0.	59. 0.23
MILE	65.10	846.64	300000.	7.10	42281.	4040.	10.00	0.0320	0.	60. 0.39
MILE	63.00	844.86	300000.	5.05	59396.	2885.	8.42	0.0400	0.	64. 0.20
MILE	60.90	839.92	300000.	7.60	39486.	2485.	9.63	0.0450	0.	63. 0.34
MILE	58.80	832.40	300000.	7.89	38010.	1815.	8.46	0.0400	0.	59. 0.30
MILE	57.00	830.73	300000.	7.89	38034.	1906.	8.79	0.0200	0.	56. 0.31
MILE	55.00	828.36	300000.	9.13	32842.	1898.	8.71	0.0200	0.	55. 0.39
MILE	53.10	827.44	300000.	6.69	44867.	2256.	9.31	0.0200	0.	54. 0.26
MILE	51.00	826.14	300000.	6.99	42902.	2903.	9.15	0.0200	0.	57. 0.32
MILE	48.30	825.49	300000.	5.18	57963.	5916.	11.20	0.0200	0.	57. 0.29
MILE	46.20	824.86	300000.	5.83	51446.	5853.	11.35	0.0200	0.	63. 0.35
MILE	44.10	824.84	300000.	3.51	85513.	2942.	11.00	0.0300	0.	70. 0.11
MILE	43.70	823.70	300000.	8.71	34461.	2805.	12.97	0.0300	0.	71. 0.44
MILE	42.00	823.64	300000.	4.08	73559.	2694.	9.93	0.0300	0.	74. 0.14
MILE	39.10	821.76	300000.	6.61	45412.	2617.	12.33	0.0230	0.	71. 0.28
MILE	37.00	821.79	300000.	3.72	80690.	1907.	12.47	0.0280	0.	70. 0.10
MILE	36.00	821.03	300000.	6.67	45007.	1385.	12.82	0.0280	0.	72. 0.21
MILE	34.60	820.79	300000.	4.99	60073.	1995.	13.93	0.0280	0.	72. 0.16
MILE	33.60	821.00	300000.	2.16	138910.	3587.	13.16	0.0290	0.	78. 0.06
MILE	31.50	820.42	300000.	5.19	57840.	2792.	14.41	0.0250	0.	82. 0.20
MILE	30.10	820.21	300000.	4.70	63850.	1204.	13.60	0.0200	0.	79. 0.11
MILE	29.00	820.08	300000.	4.69	63981.	1603.	15.00	0.0200	0.	80. 0.13
MILE	27.30	819.92	300000.	4.65	64564.	1532.	15.30	0.0230	0.	83. 0.13
MILE	25.20	819.79	300000.	3.96	75683.	1514.	16.17	0.0230	0.	85. 0.10
MILE	23.10	819.49	300000.	4.58	65492.	1701.	15.11	0.0230	0.	89. 0.13

0DATE 10-15-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	1.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL
INFLOW	DEPTH	FROUDE								
MILE	79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60. 0.38
MILE	77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65. 0.29
MILE	75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62. 0.47
MILE	73.50	859.19	300000.	11.02	27220.	1684.	10.40	0.0330	0.	60. 0.48
MILE	71.40	856.27	300000.	7.45	40248.	1408.	10.74	0.0400	0.	58. 0.25

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 347 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	69.30	852.15	300000.	8.21	36539.	1397.	10.20	0.0340	0.	53.	0.28
MILE	67.20	850.04	300000.	5.35	56022.	3394.	9.78	0.0340	0.	59.	0.23
MILE	65.10	846.64	300000.	7.10	42281.	4040.	10.00	0.0320	0.	60.	0.39
MILE	63.00	844.86	300000.	5.05	59396.	2885.	8.42	0.0400	0.	64.	0.20
MILE	60.90	839.92	300000.	7.60	39486.	2485.	9.63	0.0450	0.	63.	0.34
MILE	58.80	832.40	300000.	7.89	38010.	1815.	8.46	0.0400	0.	59.	0.30
MILE	57.00	830.73	300000.	7.89	38034.	1906.	8.79	0.0200	0.	56.	0.31
MILE	55.00	828.36	300000.	9.13	32842.	1898.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.44	300000.	6.69	44867.	2256.	9.31	0.0200	0.	54.	0.26
MILE	51.00	826.14	300000.	6.99	42902.	2903.	9.15	0.0200	0.	57.	0.32
MILE	48.30	825.49	300000.	5.18	57963.	5916.	11.20	0.0200	0.	57.	0.29
MILE	46.20	824.86	300000.	5.83	51446.	5853.	11.35	0.0200	0.	63.	0.35
MILE	44.10	824.84	300000.	3.51	85513.	2942.	11.00	0.0300	0.	70.	0.11
MILE	43.70	823.70	300000.	8.71	34461.	2805.	12.97	0.0300	0.	71.	0.44
MILE	42.00	823.64	300000.	4.08	73559.	2694.	9.93	0.0300	0.	74.	0.14
MILE	39.10	821.76	300000.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE	37.00	821.79	300000.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE	36.00	821.03	300000.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE	34.60	820.79	300000.	4.99	60073.	1995.	13.93	0.0280	0.	72.	0.16
MILE	33.60	821.00	300000.	2.16	138910.	3587.	13.16	0.0290	0.	78.	0.06
MILE	31.50	820.42	300000.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE	30.10	820.21	300000.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11
MILE	29.00	820.08	300000.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE	27.30	819.92	300000.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE	25.20	819.79	300000.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE	23.10	819.49	300000.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

0DATE 10-15-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 2.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60.	0.38
MILE	77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE	75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE	73.50	859.19	300000.	11.02	27220.	1684.	10.40	0.0330	0.	60.	0.48
MILE	71.40	856.27	300000.	7.45	40248.	1408.	10.74	0.0400	0.	58.	0.25
MILE	69.30	852.15	300000.	8.21	36539.	1397.	10.20	0.0340	0.	53.	0.28
MILE	67.20	850.04	300000.	5.35	56022.	3394.	9.78	0.0340	0.	59.	0.23
MILE	65.10	846.64	300000.	7.10	42281.	4040.	10.00	0.0320	0.	60.	0.39
MILE	63.00	844.86	300000.	5.05	59396.	2885.	8.42	0.0400	0.	64.	0.20
MILE	60.90	839.92	300000.	7.60	39486.	2485.	9.63	0.0450	0.	63.	0.34
MILE	58.80	832.40	300000.	7.89	38010.	1815.	8.46	0.0400	0.	59.	0.30
MILE	57.00	830.73	300000.	7.89	38034.	1906.	8.79	0.0200	0.	56.	0.31
MILE	55.00	828.36	300000.	9.13	32842.	1898.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.44	300000.	6.69	44867.	2256.	9.31	0.0200	0.	54.	0.26
MILE	51.00	826.14	300000.	6.99	42902.	2903.	9.15	0.0200	0.	57.	0.32
MILE	48.30	825.49	300000.	5.18	57963.	5916.	11.20	0.0200	0.	57.	0.29

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 348 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	46.20	824.86	300000.	5.83	51446.	5853.	11.35	0.0200	0.	63.	0.35
MILE	44.10	824.84	300000.	3.51	85513.	2942.	11.00	0.0300	0.	70.	0.11
MILE	43.70	823.70	300000.	8.71	34461.	2805.	12.97	0.0300	0.	71.	0.44
MILE	42.00	823.64	300000.	4.08	73559.	2694.	9.93	0.0300	0.	74.	0.14
MILE	39.10	821.76	300000.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE	37.00	821.79	300000.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE	36.00	821.03	300000.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE	34.60	820.79	300000.	4.99	60073.	1995.	13.93	0.0280	0.	72.	0.16
MILE	33.60	821.00	300000.	2.16	138910.	3587.	13.16	0.0290	0.	78.	0.06
MILE	31.50	820.42	300000.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE	30.10	820.21	300000.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11
MILE	29.00	820.08	300000.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE	27.30	819.92	300000.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE	25.20	819.79	300000.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE	23.10	819.49	300000.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

ODATE 10-15-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	3.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
INFLOW	DEPTH	FROUDE									
MILE	79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60.	0.38
MILE	77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE	75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE	73.50	859.19	300000.	11.02	27220.	1684.	10.40	0.0330	0.	60.	0.48
MILE	71.40	856.27	300000.	7.45	40248.	1408.	10.74	0.0400	0.	58.	0.25
MILE	69.30	852.15	300000.	8.21	36539.	1397.	10.20	0.0340	0.	53.	0.28
MILE	67.20	850.04	300000.	5.35	56022.	3394.	9.78	0.0340	0.	59.	0.23
MILE	65.10	846.64	300000.	7.10	42281.	4040.	10.00	0.0320	0.	60.	0.39
MILE	63.00	844.86	300000.	5.05	59396.	2885.	8.42	0.0400	0.	64.	0.20
MILE	60.90	839.92	300000.	7.60	39486.	2485.	9.63	0.0450	0.	63.	0.34
MILE	58.80	832.40	300000.	7.89	38010.	1815.	8.46	0.0400	0.	59.	0.30
MILE	57.00	830.73	300000.	7.89	38034.	1906.	8.79	0.0200	0.	56.	0.31
MILE	55.00	828.36	300000.	9.13	32842.	1898.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.44	300000.	6.69	44867.	2256.	9.31	0.0200	0.	54.	0.26
MILE	51.00	826.14	300000.	6.99	42902.	2903.	9.15	0.0200	0.	57.	0.32
MILE	48.30	825.49	300000.	5.18	57963.	5916.	11.20	0.0200	0.	57.	0.29
MILE	46.20	824.86	300000.	5.83	51446.	5853.	11.35	0.0200	0.	63.	0.35
MILE	44.10	824.84	300000.	3.51	85513.	2942.	11.00	0.0300	0.	70.	0.11
MILE	43.70	823.70	300000.	8.71	34461.	2805.	12.97	0.0300	0.	71.	0.44
MILE	42.00	823.64	300000.	4.08	73559.	2694.	9.93	0.0300	0.	74.	0.14
MILE	39.10	821.76	300000.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE	37.00	821.79	300000.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE	36.00	821.03	300000.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE	34.60	820.79	300000.	4.99	60073.	1995.	13.93	0.0280	0.	72.	0.16
MILE	33.60	821.00	300000.	2.16	138910.	3587.	13.16	0.0290	0.	78.	0.06
MILE	31.50	820.42	300000.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE	30.10	820.21	300000.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 349 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	29.00	820.08	300000.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE	27.30	819.92	300000.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE	25.20	819.79	300000.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE	23.10	819.49	300000.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

ODATE 10-15-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 4.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60.	0.38
MILE	77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE	75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE	73.50	859.19	300000.	11.02	27220.	1684.	10.40	0.0330	0.	60.	0.48
MILE	71.40	856.27	300000.	7.45	40248.	1408.	10.74	0.0400	0.	58.	0.25
MILE	69.30	852.15	300000.	8.21	36539.	1397.	10.20	0.0340	0.	53.	0.28
MILE	67.20	850.04	300000.	5.35	56022.	3394.	9.78	0.0340	0.	59.	0.23
MILE	65.10	846.64	300000.	7.10	42281.	4040.	10.00	0.0320	0.	60.	0.39
MILE	63.00	844.86	300000.	5.05	59396.	2885.	8.42	0.0400	0.	64.	0.20
MILE	60.90	839.92	300000.	7.60	39486.	2485.	9.63	0.0450	0.	63.	0.34
MILE	58.80	832.40	300000.	7.89	38010.	1815.	8.46	0.0400	0.	59.	0.30
MILE	57.00	830.73	300000.	7.89	38034.	1906.	8.79	0.0200	0.	56.	0.31
MILE	55.00	828.36	300000.	9.13	32842.	1898.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.44	300000.	6.69	44867.	2256.	9.31	0.0200	0.	54.	0.26
MILE	51.00	826.14	300000.	6.99	42902.	2903.	9.15	0.0200	0.	57.	0.32
MILE	48.30	825.49	300000.	5.18	57963.	5916.	11.20	0.0200	0.	57.	0.29
MILE	46.20	824.86	300000.	5.83	51446.	5853.	11.35	0.0200	0.	63.	0.35
MILE	44.10	824.84	300000.	3.51	85513.	2942.	11.00	0.0300	0.	70.	0.11
MILE	43.70	823.70	300000.	8.71	34461.	2805.	12.97	0.0300	0.	71.	0.44
MILE	42.00	823.64	300000.	4.08	73559.	2694.	9.93	0.0300	0.	74.	0.14
MILE	39.10	821.76	300000.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE	37.00	821.79	300000.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE	36.00	821.03	300000.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE	34.60	820.79	300000.	4.99	60073.	1995.	13.93	0.0280	0.	72.	0.16
MILE	33.60	821.00	300000.	2.16	138910.	3587.	13.16	0.0290	0.	78.	0.06
MILE	31.50	820.42	300000.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE	30.10	820.21	300000.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11
MILE	29.00	820.08	300000.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE	27.30	819.92	300000.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE	25.20	819.79	300000.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE	23.10	819.49	300000.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

ODATE 10-15-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 350 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

TIME	5.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
INFLOW	DEPTH	FROUDE									
MILE	79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60.	0.38
MILE	77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE	75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE	73.50	859.19	300000.	11.02	27220.	1684.	10.40	0.0330	0.	60.	0.48
MILE	71.40	856.27	300000.	7.45	40248.	1408.	10.74	0.0400	0.	58.	0.25
MILE	69.30	852.15	300000.	8.21	36539.	1397.	10.20	0.0340	0.	53.	0.28
MILE	67.20	850.04	300000.	5.35	56022.	3394.	9.78	0.0340	0.	59.	0.23
MILE	65.10	846.64	300000.	7.10	42281.	4040.	10.00	0.0320	0.	60.	0.39
MILE	63.00	844.86	300000.	5.05	59396.	2885.	8.42	0.0400	0.	64.	0.20
MILE	60.90	839.92	300000.	7.60	39486.	2485.	9.63	0.0450	0.	63.	0.34
MILE	58.80	832.40	300000.	7.89	38010.	1815.	8.46	0.0400	0.	59.	0.30
MILE	57.00	830.73	300000.	7.89	38034.	1906.	8.79	0.0200	0.	56.	0.31
MILE	55.00	828.36	300000.	9.13	32842.	1898.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.44	300000.	6.69	44867.	2256.	9.31	0.0200	0.	54.	0.26
MILE	51.00	826.14	300000.	6.99	42902.	2903.	9.15	0.0200	0.	57.	0.32
MILE	48.30	825.49	300000.	5.18	57963.	5916.	11.20	0.0200	0.	57.	0.29
MILE	46.20	824.86	300000.	5.83	51446.	5853.	11.35	0.0200	0.	63.	0.35
MILE	44.10	824.84	300000.	3.51	85513.	2942.	11.00	0.0300	0.	70.	0.11
MILE	43.70	823.70	300000.	8.71	34461.	2805.	12.97	0.0300	0.	71.	0.44
MILE	42.00	823.64	300000.	4.08	73559.	2694.	9.93	0.0300	0.	74.	0.14
MILE	39.10	821.76	300000.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE	37.00	821.79	300000.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE	36.00	821.03	300000.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE	34.60	820.79	300000.	4.99	60073.	1995.	13.93	0.0280	0.	72.	0.16
MILE	33.60	821.00	300000.	2.16	138910.	3587.	13.16	0.0290	0.	78.	0.06
MILE	31.50	820.42	300000.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE	30.10	820.21	300000.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11
MILE	29.00	820.08	300000.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE	27.30	819.92	300000.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE	25.20	819.79	300000.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE	23.10	819.49	300000.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

ODATE 10-15-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	6.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
INFLOW	DEPTH	FROUDE									
MILE	79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60.	0.38
MILE	77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE	75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE	73.50	859.19	300000.	11.02	27220.	1684.	10.40	0.0330	0.	60.	0.48
MILE	71.40	856.27	300000.	7.45	40248.	1408.	10.74	0.0400	0.	58.	0.25
MILE	69.30	852.15	300000.	8.21	36539.	1397.	10.20	0.0340	0.	53.	0.28
MILE	67.20	850.04	300000.	5.35	56022.	3394.	9.78	0.0340	0.	59.	0.23
MILE	65.10	846.64	300000.	7.10	42281.	4040.	10.00	0.0320	0.	60.	0.39

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 351 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	63.00	844.86	300000.	5.05	59396.	2885.	8.42	0.0400	0.	64.	0.20
MILE	60.90	839.92	300000.	7.60	39486.	2485.	9.63	0.0450	0.	63.	0.34
MILE	58.80	832.40	300000.	7.89	38010.	1815.	8.46	0.0400	0.	59.	0.30
MILE	57.00	830.73	300000.	7.89	38034.	1906.	8.79	0.0200	0.	56.	0.31
MILE	55.00	828.36	300000.	9.13	32842.	1898.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.44	300000.	6.69	44867.	2256.	9.31	0.0200	0.	54.	0.26
MILE	51.00	826.14	300000.	6.99	42902.	2903.	9.15	0.0200	0.	57.	0.32
MILE	48.30	825.49	300000.	5.18	57963.	5916.	11.20	0.0200	0.	57.	0.29
MILE	46.20	824.86	300000.	5.83	51446.	5853.	11.35	0.0200	0.	63.	0.35
MILE	44.10	824.84	300000.	3.51	85513.	2942.	11.00	0.0300	0.	70.	0.11
MILE	43.70	823.70	300000.	8.71	34461.	2805.	12.97	0.0300	0.	71.	0.44
MILE	42.00	823.64	300000.	4.08	73559.	2694.	9.93	0.0300	0.	74.	0.14
MILE	39.10	821.76	300000.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE	37.00	821.79	300000.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE	36.00	821.03	300000.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE	34.60	820.79	300000.	4.99	60073.	1995.	13.93	0.0280	0.	72.	0.16
MILE	33.60	821.00	300000.	2.16	138910.	3587.	13.16	0.0290	0.	78.	0.06
MILE	31.50	820.42	300000.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE	30.10	820.21	300000.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11
MILE	29.00	820.08	300000.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE	27.30	819.92	300000.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE	25.20	819.79	300000.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE	23.10	819.49	300000.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

0DATE 10-15-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	7.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
INFLOW	DEPTH	FROUDE									
MILE	79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60.	0.38
MILE	77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE	75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE	73.50	859.19	300000.	11.02	27220.	1684.	10.40	0.0330	0.	60.	0.48
MILE	71.40	856.27	300000.	7.45	40248.	1408.	10.74	0.0400	0.	58.	0.25
MILE	69.30	852.15	300000.	8.21	36539.	1397.	10.20	0.0340	0.	53.	0.28
MILE	67.20	850.04	300000.	5.35	56022.	3394.	9.78	0.0340	0.	59.	0.23
MILE	65.10	846.64	300000.	7.10	42281.	4040.	10.00	0.0320	0.	60.	0.39
MILE	63.00	844.86	300000.	5.05	59396.	2885.	8.42	0.0400	0.	64.	0.20
MILE	60.90	839.92	300000.	7.60	39486.	2485.	9.63	0.0450	0.	63.	0.34
MILE	58.80	832.40	300000.	7.89	38010.	1815.	8.46	0.0400	0.	59.	0.30
MILE	57.00	830.73	300000.	7.89	38034.	1906.	8.79	0.0200	0.	56.	0.31
MILE	55.00	828.36	300000.	9.13	32842.	1898.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.44	300000.	6.69	44867.	2256.	9.31	0.0200	0.	54.	0.26
MILE	51.00	826.14	300000.	6.99	42902.	2903.	9.15	0.0200	0.	57.	0.32
MILE	48.30	825.49	300000.	5.18	57963.	5916.	11.20	0.0200	0.	57.	0.29
MILE	46.20	824.86	300000.	5.83	51446.	5853.	11.35	0.0200	0.	63.	0.35
MILE	44.10	824.84	300000.	3.51	85513.	2942.	11.00	0.0300	0.	70.	0.11
MILE	43.70	823.70	300000.	8.71	34461.	2805.	12.97	0.0300	0.	71.	0.44

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 352 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	42.00	823.64	300000.	4.08	73559.	2694.	9.93	0.0300	0.	74.	0.14
MILE	39.10	821.76	300000.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE	37.00	821.79	300000.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE	36.00	821.03	300000.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE	34.60	820.79	300000.	4.99	60073.	1995.	13.93	0.0280	0.	72.	0.16
MILE	33.60	821.00	300000.	2.16	138910.	3587.	13.16	0.0290	0.	78.	0.06
MILE	31.50	820.42	300000.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE	30.10	820.21	300000.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11
MILE	29.00	820.08	300000.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE	27.30	819.92	300000.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE	25.20	819.79	300000.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE	23.10	819.49	300000.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

ODATE 10-15-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 8.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE	79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60.	0.38
MILE	77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE	75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE	73.50	859.19	300000.	11.02	27220.	1684.	10.40	0.0330	0.	60.	0.48
MILE	71.40	856.27	300000.	7.45	40248.	1408.	10.74	0.0400	0.	58.	0.25
MILE	69.30	852.15	300000.	8.21	36539.	1397.	10.20	0.0340	0.	53.	0.28
MILE	67.20	850.04	300000.	5.35	56022.	3394.	9.78	0.0340	0.	59.	0.23
MILE	65.10	846.64	300000.	7.10	42281.	4040.	10.00	0.0320	0.	60.	0.39
MILE	63.00	844.86	300000.	5.05	59396.	2885.	8.42	0.0400	0.	64.	0.20
MILE	60.90	839.92	300000.	7.60	39486.	2485.	9.63	0.0450	0.	63.	0.34
MILE	58.80	832.40	300000.	7.89	38010.	1815.	8.46	0.0400	0.	59.	0.30
MILE	57.00	830.73	300000.	7.89	38034.	1906.	8.79	0.0200	0.	56.	0.31
MILE	55.00	828.36	300000.	9.13	32842.	1898.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.44	300000.	6.69	44867.	2256.	9.31	0.0200	0.	54.	0.26
MILE	51.00	826.14	300000.	6.99	42902.	2903.	9.15	0.0200	0.	57.	0.32
MILE	48.30	825.49	300000.	5.18	57963.	5916.	11.20	0.0200	0.	57.	0.29
MILE	46.20	824.86	300000.	5.83	51446.	5853.	11.35	0.0200	0.	63.	0.35
MILE	44.10	824.84	300000.	3.51	85513.	2942.	11.00	0.0300	0.	70.	0.11
MILE	43.70	823.70	300000.	8.71	34461.	2805.	12.97	0.0300	0.	71.	0.44
MILE	42.00	823.64	300000.	4.08	73559.	2694.	9.93	0.0300	0.	74.	0.14
MILE	39.10	821.76	300000.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE	37.00	821.79	300000.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE	36.00	821.03	300000.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE	34.60	820.79	300000.	4.99	60073.	1995.	13.93	0.0280	0.	72.	0.16
MILE	33.60	821.00	300000.	2.16	138910.	3587.	13.16	0.0290	0.	78.	0.06
MILE	31.50	820.42	300000.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE	30.10	820.21	300000.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11
MILE	29.00	820.08	300000.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE	27.30	819.92	300000.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE	25.20	819.79	300000.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 353 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 23.10 819.49 300000. 4.58 65492. 1701. 15.11 0.0230 0. 89. 0.13

0DATE 10-15-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 9.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60.	0.38
MILE 77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE 75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE 73.50	859.19	300000.	11.02	27220.	1684.	10.40	0.0330	0.	60.	0.48
MILE 71.40	856.27	300000.	7.45	40248.	1408.	10.74	0.0400	0.	58.	0.25
MILE 69.30	852.15	300000.	8.21	36539.	1397.	10.20	0.0340	0.	53.	0.28
MILE 67.20	850.04	300000.	5.35	56022.	3394.	9.78	0.0340	0.	59.	0.23
MILE 65.10	846.64	300000.	7.10	42281.	4040.	10.00	0.0320	0.	60.	0.39
MILE 63.00	844.86	300000.	5.05	59396.	2885.	8.42	0.0400	0.	64.	0.20
MILE 60.90	839.92	300000.	7.60	39486.	2485.	9.63	0.0450	0.	63.	0.34
MILE 58.80	832.40	300000.	7.89	38010.	1815.	8.46	0.0400	0.	59.	0.30
MILE 57.00	830.73	300000.	7.89	38034.	1906.	8.79	0.0200	0.	56.	0.31
MILE 55.00	828.36	300000.	9.13	32842.	1898.	8.71	0.0200	0.	55.	0.39
MILE 53.10	827.44	300000.	6.69	44867.	2256.	9.31	0.0200	0.	54.	0.26
MILE 51.00	826.14	300000.	6.99	42902.	2903.	9.15	0.0200	0.	57.	0.32
MILE 48.30	825.49	300000.	5.18	57963.	5916.	11.20	0.0200	0.	57.	0.29
MILE 46.20	824.86	300000.	5.83	51446.	5853.	11.35	0.0200	0.	63.	0.35
MILE 44.10	824.84	300000.	3.51	85513.	2942.	11.00	0.0300	0.	70.	0.11
MILE 43.70	823.70	300000.	8.71	34461.	2805.	12.97	0.0300	0.	71.	0.44
MILE 42.00	823.64	300000.	4.08	73559.	2694.	9.93	0.0300	0.	74.	0.14
MILE 39.10	821.76	300000.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE 37.00	821.79	300000.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE 36.00	821.03	300000.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE 34.60	820.79	300000.	4.99	60073.	1995.	13.93	0.0280	0.	72.	0.16
MILE 33.60	821.00	300000.	2.16	138910.	3587.	13.16	0.0290	0.	78.	0.06
MILE 31.50	820.42	300000.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE 30.10	820.21	300000.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11
MILE 29.00	820.08	300000.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE 27.30	819.92	300000.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE 25.20	819.79	300000.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE 23.10	819.49	300000.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

0DATE 10-15-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 10.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80 878.24 300000. 11.35 26440. 952. 10.09 0.0290 0. 60. 0.38

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 354 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE 75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE 73.50	859.19	300000.	11.02	27220.	1684.	10.40	0.0330	0.	60.	0.48
MILE 71.40	856.27	300000.	7.45	40248.	1408.	10.74	0.0400	0.	58.	0.25
MILE 69.30	852.15	300000.	8.21	36539.	1397.	10.20	0.0340	0.	53.	0.28
MILE 67.20	850.04	300000.	5.35	56022.	3394.	9.78	0.0340	0.	59.	0.23
MILE 65.10	846.64	300000.	7.10	42281.	4040.	10.00	0.0320	0.	60.	0.39
MILE 63.00	844.86	300000.	5.05	59396.	2885.	8.42	0.0400	0.	64.	0.20
MILE 60.90	839.92	300000.	7.60	39486.	2485.	9.63	0.0450	0.	63.	0.34
MILE 58.80	832.40	300000.	7.89	38010.	1815.	8.46	0.0400	0.	59.	0.30
MILE 57.00	830.73	300000.	7.89	38034.	1906.	8.79	0.0200	0.	56.	0.31
MILE 55.00	828.36	300000.	9.13	32842.	1898.	8.71	0.0200	0.	55.	0.39
MILE 53.10	827.44	300000.	6.69	44867.	2256.	9.31	0.0200	0.	54.	0.26
MILE 51.00	826.14	300000.	6.99	42902.	2903.	9.15	0.0200	0.	57.	0.32
MILE 48.30	825.49	300000.	5.18	57963.	5916.	11.20	0.0200	0.	57.	0.29
MILE 46.20	824.86	300000.	5.83	51446.	5853.	11.35	0.0200	0.	63.	0.35
MILE 44.10	824.84	300000.	3.51	85513.	2942.	11.00	0.0300	0.	70.	0.11
MILE 43.70	823.70	300000.	8.71	34461.	2805.	12.97	0.0300	0.	71.	0.44
MILE 42.00	823.64	300000.	4.08	73559.	2694.	9.93	0.0300	0.	74.	0.14
MILE 39.10	821.76	300000.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE 37.00	821.79	300000.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE 36.00	821.03	300000.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE 34.60	820.79	300000.	4.99	60073.	1995.	13.93	0.0280	0.	72.	0.16
MILE 33.60	821.00	300000.	2.16	138910.	3587.	13.16	0.0290	0.	78.	0.06
MILE 31.50	820.42	300000.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE 30.10	820.21	300000.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11
MILE 29.00	820.08	300000.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE 27.30	819.92	300000.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE 25.20	819.79	300000.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE 23.10	819.49	300000.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

0DATE 10-15-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 11.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60.	0.38
MILE 77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE 75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE 73.50	859.19	300000.	11.02	27220.	1684.	10.40	0.0330	0.	60.	0.48
MILE 71.40	856.27	300000.	7.45	40248.	1408.	10.74	0.0400	0.	58.	0.25
MILE 69.30	852.15	300000.	8.21	36539.	1397.	10.20	0.0340	0.	53.	0.28
MILE 67.20	850.04	300000.	5.35	56022.	3394.	9.78	0.0340	0.	59.	0.23
MILE 65.10	846.64	300000.	7.10	42281.	4040.	10.00	0.0320	0.	60.	0.39
MILE 63.00	844.86	300000.	5.05	59396.	2885.	8.42	0.0400	0.	64.	0.20
MILE 60.90	839.92	300000.	7.60	39486.	2485.	9.63	0.0450	0.	63.	0.34
MILE 58.80	832.40	300000.	7.89	38010.	1815.	8.46	0.0400	0.	59.	0.30
MILE 57.00	830.73	300000.	7.89	38034.	1906.	8.79	0.0200	0.	56.	0.31

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 355 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	55.00	828.36	300000.	9.13	32842.	1898.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.44	300000.	6.69	44867.	2256.	9.31	0.0200	0.	54.	0.26
MILE	51.00	826.14	300000.	6.99	42902.	2903.	9.15	0.0200	0.	57.	0.32
MILE	48.30	825.49	300000.	5.18	57963.	5916.	11.20	0.0200	0.	57.	0.29
MILE	46.20	824.86	300000.	5.83	51446.	5853.	11.35	0.0200	0.	63.	0.35
MILE	44.10	824.84	300000.	3.51	85513.	2942.	11.00	0.0300	0.	70.	0.11
MILE	43.70	823.70	300000.	8.71	34461.	2805.	12.97	0.0300	0.	71.	0.44
MILE	42.00	823.64	300000.	4.08	73559.	2694.	9.93	0.0300	0.	74.	0.14
MILE	39.10	821.76	300000.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE	37.00	821.79	300000.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE	36.00	821.03	300000.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE	34.60	820.79	300000.	4.99	60073.	1995.	13.93	0.0280	0.	72.	0.16
MILE	33.60	821.00	300000.	2.16	138910.	3587.	13.16	0.0290	0.	78.	0.06
MILE	31.50	820.42	300000.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE	30.10	820.21	300000.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11
MILE	29.00	820.08	300000.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE	27.30	819.92	300000.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE	25.20	819.79	300000.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE	23.10	819.49	300000.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

ODATE 10-15-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 12.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60.	0.38
MILE	77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE	75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE	73.50	859.19	300000.	11.02	27220.	1684.	10.40	0.0330	0.	60.	0.48
MILE	71.40	856.27	300000.	7.45	40248.	1408.	10.74	0.0400	0.	58.	0.25
MILE	69.30	852.15	300000.	8.21	36539.	1397.	10.20	0.0340	0.	53.	0.28
MILE	67.20	850.04	300000.	5.35	56022.	3394.	9.78	0.0340	0.	59.	0.23
MILE	65.10	846.64	300000.	7.10	42281.	4040.	10.00	0.0320	0.	60.	0.39
MILE	63.00	844.86	300000.	5.05	59396.	2885.	8.42	0.0400	0.	64.	0.20
MILE	60.90	839.92	300000.	7.60	39486.	2485.	9.63	0.0450	0.	63.	0.34
MILE	58.80	832.40	300000.	7.89	38010.	1815.	8.46	0.0400	0.	59.	0.30
MILE	57.00	830.73	300000.	7.89	38034.	1906.	8.79	0.0200	0.	56.	0.31
MILE	55.00	828.36	300000.	9.13	32842.	1898.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.44	300000.	6.69	44867.	2256.	9.31	0.0200	0.	54.	0.26
MILE	51.00	826.14	300000.	6.99	42902.	2903.	9.15	0.0200	0.	57.	0.32
MILE	48.30	825.49	300000.	5.18	57963.	5916.	11.20	0.0200	0.	57.	0.29
MILE	46.20	824.86	300000.	5.83	51446.	5853.	11.35	0.0200	0.	63.	0.35
MILE	44.10	824.84	300000.	3.51	85513.	2942.	11.00	0.0300	0.	70.	0.11
MILE	43.70	823.70	300000.	8.71	34461.	2805.	12.97	0.0300	0.	71.	0.44
MILE	42.00	823.64	300000.	4.08	73559.	2694.	9.93	0.0300	0.	74.	0.14
MILE	39.10	821.76	300000.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE	37.00	821.79	300000.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE	36.00	821.03	300000.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 356 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 34.60	820.79	300000.	4.99	60073.	1995.	13.93	0.0280	0.	72.	0.16
MILE 33.60	821.00	300000.	2.16	138910.	3587.	13.16	0.0290	0.	78.	0.06
MILE 31.50	820.42	300000.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE 30.10	820.21	300000.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11
MILE 29.00	820.08	300000.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE 27.30	819.92	300000.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE 25.20	819.79	300000.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE 23.10	819.49	300000.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

ODATE 10-15-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 13.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60.	0.38
MILE 77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE 75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE 73.50	859.19	300000.	11.02	27220.	1684.	10.40	0.0330	0.	60.	0.48
MILE 71.40	856.27	300000.	7.45	40248.	1408.	10.74	0.0400	0.	58.	0.25
MILE 69.30	852.15	300000.	8.21	36539.	1397.	10.20	0.0340	0.	53.	0.28
MILE 67.20	850.04	300000.	5.35	56022.	3394.	9.78	0.0340	0.	59.	0.23
MILE 65.10	846.64	300000.	7.10	42281.	4040.	10.00	0.0320	0.	60.	0.39
MILE 63.00	844.86	300000.	5.05	59396.	2885.	8.42	0.0400	0.	64.	0.20
MILE 60.90	839.92	300000.	7.60	39486.	2485.	9.63	0.0450	0.	63.	0.34
MILE 58.80	832.40	300000.	7.89	38010.	1815.	8.46	0.0400	0.	59.	0.30
MILE 57.00	830.73	300000.	7.89	38034.	1906.	8.79	0.0200	0.	56.	0.31
MILE 55.00	828.36	300000.	9.13	32842.	1898.	8.71	0.0200	0.	55.	0.39
MILE 53.10	827.44	300000.	6.69	44867.	2256.	9.31	0.0200	0.	54.	0.26
MILE 51.00	826.14	300000.	6.99	42902.	2903.	9.15	0.0200	0.	57.	0.32
MILE 48.30	825.49	300000.	5.18	57963.	5916.	11.20	0.0200	0.	57.	0.29
MILE 46.20	824.86	300000.	5.83	51446.	5853.	11.35	0.0200	0.	63.	0.35
MILE 44.10	824.84	300000.	3.51	85513.	2942.	11.00	0.0300	0.	70.	0.11
MILE 43.70	823.70	300000.	8.71	34461.	2805.	12.97	0.0300	0.	71.	0.44
MILE 42.00	823.64	300000.	4.08	73559.	2694.	9.93	0.0300	0.	74.	0.14
MILE 39.10	821.76	300000.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE 37.00	821.79	300000.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE 36.00	821.03	300000.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE 34.60	820.79	300000.	4.99	60073.	1995.	13.93	0.0280	0.	72.	0.16
MILE 33.60	821.00	300000.	2.16	138910.	3587.	13.16	0.0290	0.	78.	0.06
MILE 31.50	820.42	300000.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE 30.10	820.21	300000.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11
MILE 29.00	820.08	300000.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE 27.30	819.92	300000.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE 25.20	819.79	300000.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE 23.10	819.49	300000.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 357 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

0DATE 10-15-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 14.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
	INFLOW DEPTH	FROUDE									
MILE 79.80	79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60.	0.38
MILE 77.70	77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE 75.60	75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE 73.50	73.50	859.19	300000.	11.02	27220.	1684.	10.40	0.0330	0.	60.	0.48
MILE 71.40	71.40	856.27	300000.	7.45	40248.	1408.	10.74	0.0400	0.	58.	0.25
MILE 69.30	69.30	852.15	300000.	8.21	36539.	1397.	10.20	0.0340	0.	53.	0.28
MILE 67.20	67.20	850.04	300000.	5.35	56022.	3394.	9.78	0.0340	0.	59.	0.23
MILE 65.10	65.10	846.64	300000.	7.10	42281.	4040.	10.00	0.0320	0.	60.	0.39
MILE 63.00	63.00	844.86	300000.	5.05	59396.	2885.	8.42	0.0400	0.	64.	0.20
MILE 60.90	60.90	839.92	300000.	7.60	39486.	2485.	9.63	0.0450	0.	63.	0.34
MILE 58.80	58.80	832.40	300000.	7.89	38010.	1815.	8.46	0.0400	0.	59.	0.30
MILE 57.00	57.00	830.73	300000.	7.89	38034.	1906.	8.79	0.0200	0.	56.	0.31
MILE 55.00	55.00	828.36	300000.	9.13	32842.	1898.	8.71	0.0200	0.	55.	0.39
MILE 53.10	53.10	827.44	300000.	6.69	44867.	2256.	9.31	0.0200	0.	54.	0.26
MILE 51.00	51.00	826.14	300000.	6.99	42902.	2903.	9.15	0.0200	0.	57.	0.32
MILE 48.30	48.30	825.49	300000.	5.18	57963.	5916.	11.20	0.0200	0.	57.	0.29
MILE 46.20	46.20	824.86	300000.	5.83	51446.	5853.	11.35	0.0200	0.	63.	0.35
MILE 44.10	44.10	824.84	300000.	3.51	85513.	2942.	11.00	0.0300	0.	70.	0.11
MILE 43.70	43.70	823.70	300000.	8.71	34461.	2805.	12.97	0.0300	0.	71.	0.44
MILE 42.00	42.00	823.64	300000.	4.08	73559.	2694.	9.93	0.0300	0.	74.	0.14
MILE 39.10	39.10	821.76	300000.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE 37.00	37.00	821.79	300000.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE 36.00	36.00	821.03	300000.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE 34.60	34.60	820.79	300000.	4.99	60073.	1995.	13.93	0.0280	0.	72.	0.16
MILE 33.60	33.60	821.00	300000.	2.16	138910.	3587.	13.16	0.0290	0.	78.	0.06
MILE 31.50	31.50	820.42	300000.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE 30.10	30.10	820.21	300000.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11
MILE 29.00	29.00	820.08	300000.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE 27.30	27.30	819.92	300000.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE 25.20	25.20	819.79	300000.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE 23.10	23.10	819.49	300000.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

0DATE 10-15-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 15.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
	INFLOW DEPTH	FROUDE									
MILE 79.80	79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60.	0.38
MILE 77.70	77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE 75.60	75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE 73.50	73.50	859.19	300000.	11.02	27220.	1684.	10.40	0.0330	0.	60.	0.48
MILE 71.40	71.40	856.27	300000.	7.45	40248.	1408.	10.74	0.0400	0.	58.	0.25

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 358 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 69.30	852.15	300000.	8.21	36539.	1397.	10.20	0.0340	0.	53.	0.28
MILE 67.20	850.04	300000.	5.35	56022.	3394.	9.78	0.0340	0.	59.	0.23
MILE 65.10	846.64	300000.	7.10	42281.	4040.	10.00	0.0320	0.	60.	0.39
MILE 63.00	844.86	300000.	5.05	59396.	2885.	8.42	0.0400	0.	64.	0.20
MILE 60.90	839.92	300000.	7.60	39486.	2485.	9.63	0.0450	0.	63.	0.34
MILE 58.80	832.40	300000.	7.89	38010.	1815.	8.46	0.0400	0.	59.	0.30
MILE 57.00	830.73	300000.	7.89	38034.	1906.	8.79	0.0200	0.	56.	0.31
MILE 55.00	828.36	300000.	9.13	32842.	1898.	8.71	0.0200	0.	55.	0.39
MILE 53.10	827.44	300000.	6.69	44867.	2256.	9.31	0.0200	0.	54.	0.26
MILE 51.00	826.14	300000.	6.99	42902.	2903.	9.15	0.0200	0.	57.	0.32
MILE 48.30	825.49	300000.	5.18	57963.	5916.	11.20	0.0200	0.	57.	0.29
MILE 46.20	824.86	300000.	5.83	51446.	5853.	11.35	0.0200	0.	63.	0.35
MILE 44.10	824.84	300000.	3.51	85513.	2942.	11.00	0.0300	0.	70.	0.11
MILE 43.70	823.70	300000.	8.71	34461.	2805.	12.97	0.0300	0.	71.	0.44
MILE 42.00	823.64	300000.	4.08	73559.	2694.	9.93	0.0300	0.	74.	0.14
MILE 39.10	821.76	300000.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE 37.00	821.79	300000.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE 36.00	821.03	300000.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE 34.60	820.79	300000.	4.99	60073.	1995.	13.93	0.0280	0.	72.	0.16
MILE 33.60	821.00	300000.	2.16	138910.	3587.	13.16	0.0290	0.	78.	0.06
MILE 31.50	820.42	300000.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE 30.10	820.21	300000.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11
MILE 29.00	820.08	300000.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE 27.30	819.92	300000.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE 25.20	819.79	300000.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE 23.10	819.49	300000.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

0DATE 10-15-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 16.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60.	0.38
MILE 77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE 75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE 73.50	859.19	300000.	11.02	27220.	1684.	10.40	0.0330	0.	60.	0.48
MILE 71.40	856.27	300000.	7.45	40248.	1408.	10.74	0.0400	0.	58.	0.25
MILE 69.30	852.15	300000.	8.21	36539.	1397.	10.20	0.0340	0.	53.	0.28
MILE 67.20	850.04	300000.	5.35	56022.	3394.	9.78	0.0340	0.	59.	0.23
MILE 65.10	846.64	300000.	7.10	42281.	4040.	10.00	0.0320	0.	60.	0.39
MILE 63.00	844.86	300000.	5.05	59396.	2885.	8.42	0.0400	0.	64.	0.20
MILE 60.90	839.92	300000.	7.60	39486.	2485.	9.63	0.0450	0.	63.	0.34
MILE 58.80	832.40	300000.	7.89	38010.	1815.	8.46	0.0400	0.	59.	0.30
MILE 57.00	830.73	300000.	7.89	38034.	1906.	8.79	0.0200	0.	56.	0.31
MILE 55.00	828.36	300000.	9.13	32842.	1898.	8.71	0.0200	0.	55.	0.39
MILE 53.10	827.44	300000.	6.69	44867.	2256.	9.31	0.0200	0.	54.	0.26
MILE 51.00	826.14	300000.	6.99	42902.	2903.	9.15	0.0200	0.	57.	0.32
MILE 48.30	825.49	300000.	5.18	57963.	5916.	11.20	0.0200	0.	57.	0.29

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 359 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 46.20	824.86	300000.	5.83	51446.	5853.	11.35	0.0200	0.	63.	0.35
MILE 44.10	824.84	300000.	3.51	85513.	2942.	11.00	0.0300	0.	70.	0.11
MILE 43.70	823.70	300000.	8.71	34461.	2805.	12.97	0.0300	0.	71.	0.44
MILE 42.00	823.64	300000.	4.08	73559.	2694.	9.93	0.0300	0.	74.	0.14
MILE 39.10	821.76	300000.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE 37.00	821.79	300000.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE 36.00	821.03	300000.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE 34.60	820.79	300000.	4.99	60073.	1995.	13.93	0.0280	0.	72.	0.16
MILE 33.60	821.00	300000.	2.16	138910.	3587.	13.16	0.0290	0.	78.	0.06
MILE 31.50	820.42	300000.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE 30.10	820.21	300000.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11
MILE 29.00	820.08	300000.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE 27.30	819.92	300000.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE 25.20	819.79	300000.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE 23.10	819.49	300000.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

0DATE 10-15-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 17.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
INFLOW DEPTH	FROUDE									
MILE 79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60.	0.38
MILE 77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE 75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE 73.50	859.19	300000.	11.02	27220.	1684.	10.40	0.0330	0.	60.	0.48
MILE 71.40	856.27	300000.	7.45	40248.	1408.	10.74	0.0400	0.	58.	0.25
MILE 69.30	852.15	300000.	8.21	36539.	1397.	10.20	0.0340	0.	53.	0.28
MILE 67.20	850.04	300000.	5.35	56022.	3394.	9.78	0.0340	0.	59.	0.23
MILE 65.10	846.64	300000.	7.10	42281.	4040.	10.00	0.0320	0.	60.	0.39
MILE 63.00	844.86	300000.	5.05	59396.	2885.	8.42	0.0400	0.	64.	0.20
MILE 60.90	839.92	300000.	7.60	39486.	2485.	9.63	0.0450	0.	63.	0.34
MILE 58.80	832.40	300000.	7.89	38010.	1815.	8.46	0.0400	0.	59.	0.30
MILE 57.00	830.73	300000.	7.89	38034.	1906.	8.79	0.0200	0.	56.	0.31
MILE 55.00	828.36	300000.	9.13	32842.	1898.	8.71	0.0200	0.	55.	0.39
MILE 53.10	827.44	300000.	6.69	44867.	2256.	9.31	0.0200	0.	54.	0.26
MILE 51.00	826.14	300000.	6.99	42902.	2903.	9.15	0.0200	0.	57.	0.32
MILE 48.30	825.49	300000.	5.18	57963.	5916.	11.20	0.0200	0.	57.	0.29
MILE 46.20	824.86	300000.	5.83	51446.	5853.	11.35	0.0200	0.	63.	0.35
MILE 44.10	824.84	300000.	3.51	85513.	2942.	11.00	0.0300	0.	70.	0.11
MILE 43.70	823.70	300000.	8.71	34461.	2805.	12.97	0.0300	0.	71.	0.44
MILE 42.00	823.64	300000.	4.08	73559.	2694.	9.93	0.0300	0.	74.	0.14
MILE 39.10	821.76	300000.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE 37.00	821.79	300000.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE 36.00	821.03	300000.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE 34.60	820.79	300000.	4.99	60073.	1995.	13.93	0.0280	0.	72.	0.16
MILE 33.60	821.00	300000.	2.16	138910.	3587.	13.16	0.0290	0.	78.	0.06
MILE 31.50	820.42	300000.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE 30.10	820.21	300000.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 360 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	29.00	820.08	300000.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE	27.30	819.92	300000.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE	25.20	819.79	300000.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE	23.10	819.49	300000.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

0DATE 10-15-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 18.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE	79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60.	0.38
MILE	77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE	75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE	73.50	859.19	300000.	11.02	27220.	1684.	10.40	0.0330	0.	60.	0.48
MILE	71.40	856.27	300000.	7.45	40248.	1408.	10.74	0.0400	0.	58.	0.25
MILE	69.30	852.15	300000.	8.21	36539.	1397.	10.20	0.0340	0.	53.	0.28
MILE	67.20	850.04	300000.	5.35	56022.	3394.	9.78	0.0340	0.	59.	0.23
MILE	65.10	846.64	300000.	7.10	42281.	4040.	10.00	0.0320	0.	60.	0.39
MILE	63.00	844.86	300000.	5.05	59396.	2885.	8.42	0.0400	0.	64.	0.20
MILE	60.90	839.92	300000.	7.60	39486.	2485.	9.63	0.0450	0.	63.	0.34
MILE	58.80	832.40	300000.	7.89	38010.	1815.	8.46	0.0400	0.	59.	0.30
MILE	57.00	830.73	300000.	7.89	38034.	1906.	8.79	0.0200	0.	56.	0.31
MILE	55.00	828.36	300000.	9.13	32842.	1898.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.44	300000.	6.69	44867.	2256.	9.31	0.0200	0.	54.	0.26
MILE	51.00	826.14	300000.	6.99	42902.	2903.	9.15	0.0200	0.	57.	0.32
MILE	48.30	825.49	300000.	5.18	57963.	5916.	11.20	0.0200	0.	57.	0.29
MILE	46.20	824.86	300000.	5.83	51446.	5853.	11.35	0.0200	0.	63.	0.35
MILE	44.10	824.84	300000.	3.51	85513.	2942.	11.00	0.0300	0.	70.	0.11
MILE	43.70	823.70	300000.	8.71	34461.	2805.	12.97	0.0300	0.	71.	0.44
MILE	42.00	823.64	300000.	4.08	73559.	2694.	9.93	0.0300	0.	74.	0.14
MILE	39.10	821.76	300000.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE	37.00	821.79	300000.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE	36.00	821.03	300000.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE	34.60	820.79	300000.	4.99	60073.	1995.	13.93	0.0280	0.	72.	0.16
MILE	33.60	821.00	300000.	2.16	138910.	3587.	13.16	0.0290	0.	78.	0.06
MILE	31.50	820.42	300000.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE	30.10	820.21	300000.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11
MILE	29.00	820.08	300000.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE	27.30	819.92	300000.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE	25.20	819.79	300000.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE	23.10	819.49	300000.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

0DATE 10-15-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 361 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

TIME	19.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL
INFLOW	DEPTH	FROUDE								
MILE	79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60. 0.38
MILE	77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65. 0.29
MILE	75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62. 0.47
MILE	73.50	859.19	300000.	11.02	27220.	1684.	10.40	0.0330	0.	60. 0.48
MILE	71.40	856.27	300000.	7.45	40248.	1408.	10.74	0.0400	0.	58. 0.25
MILE	69.30	852.15	300000.	8.21	36539.	1397.	10.20	0.0340	0.	53. 0.28
MILE	67.20	850.04	300000.	5.35	56022.	3394.	9.78	0.0340	0.	59. 0.23
MILE	65.10	846.64	300000.	7.10	42281.	4040.	10.00	0.0320	0.	60. 0.39
MILE	63.00	844.86	300000.	5.05	59396.	2885.	8.42	0.0400	0.	64. 0.20
MILE	60.90	839.92	300000.	7.60	39486.	2485.	9.63	0.0450	0.	63. 0.34
MILE	58.80	832.40	300000.	7.89	38010.	1815.	8.46	0.0400	0.	59. 0.30
MILE	57.00	830.73	300000.	7.89	38034.	1906.	8.79	0.0200	0.	56. 0.31
MILE	55.00	828.36	300000.	9.13	32842.	1898.	8.71	0.0200	0.	55. 0.39
MILE	53.10	827.44	300000.	6.69	44867.	2256.	9.31	0.0200	0.	54. 0.26
MILE	51.00	826.14	300000.	6.99	42902.	2903.	9.15	0.0200	0.	57. 0.32
MILE	48.30	825.49	300000.	5.18	57963.	5916.	11.20	0.0200	0.	57. 0.29
MILE	46.20	824.86	300000.	5.83	51446.	5853.	11.35	0.0200	0.	63. 0.35
MILE	44.10	824.84	300000.	3.51	85513.	2942.	11.00	0.0300	0.	70. 0.11
MILE	43.70	823.70	300000.	8.71	34461.	2805.	12.97	0.0300	0.	71. 0.44
MILE	42.00	823.64	300000.	4.08	73559.	2694.	9.93	0.0300	0.	74. 0.14
MILE	39.10	821.76	300000.	6.61	45412.	2617.	12.33	0.0230	0.	71. 0.28
MILE	37.00	821.79	300000.	3.72	80690.	1907.	12.47	0.0280	0.	70. 0.10
MILE	36.00	821.03	300000.	6.67	45007.	1385.	12.82	0.0280	0.	72. 0.21
MILE	34.60	820.79	300000.	4.99	60073.	1995.	13.93	0.0280	0.	72. 0.16
MILE	33.60	821.00	300000.	2.16	138910.	3587.	13.16	0.0290	0.	78. 0.06
MILE	31.50	820.42	300000.	5.19	57840.	2792.	14.41	0.0250	0.	82. 0.20
MILE	30.10	820.21	300000.	4.70	63850.	1204.	13.60	0.0200	0.	79. 0.11
MILE	29.00	820.08	300000.	4.69	63981.	1603.	15.00	0.0200	0.	80. 0.13
MILE	27.30	819.92	300000.	4.65	64564.	1532.	15.30	0.0230	0.	83. 0.13
MILE	25.20	819.79	300000.	3.96	75683.	1514.	16.17	0.0230	0.	85. 0.10
MILE	23.10	819.49	300000.	4.58	65492.	1701.	15.11	0.0230	0.	89. 0.13

0DATE 10-15-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	20.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL
INFLOW	DEPTH	FROUDE								
MILE	79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60. 0.38
MILE	77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65. 0.29
MILE	75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62. 0.47
MILE	73.50	859.19	300000.	11.02	27220.	1684.	10.40	0.0330	0.	60. 0.48
MILE	71.40	856.27	300000.	7.45	40248.	1408.	10.74	0.0400	0.	58. 0.25
MILE	69.30	852.15	300000.	8.21	36539.	1397.	10.20	0.0340	0.	53. 0.28
MILE	67.20	850.04	300000.	5.35	56022.	3394.	9.78	0.0340	0.	59. 0.23
MILE	65.10	846.64	300000.	7.10	42281.	4040.	10.00	0.0320	0.	60. 0.39

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 362 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	63.00	844.86	300000.	5.05	59396.	2885.	8.42	0.0400	0.	64.	0.20
MILE	60.90	839.92	300000.	7.60	39486.	2485.	9.63	0.0450	0.	63.	0.34
MILE	58.80	832.40	300000.	7.89	38010.	1815.	8.46	0.0400	0.	59.	0.30
MILE	57.00	830.73	300000.	7.89	38034.	1906.	8.79	0.0200	0.	56.	0.31
MILE	55.00	828.36	300000.	9.13	32842.	1898.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.44	300000.	6.69	44867.	2256.	9.31	0.0200	0.	54.	0.26
MILE	51.00	826.14	300000.	6.99	42902.	2903.	9.15	0.0200	0.	57.	0.32
MILE	48.30	825.49	300000.	5.18	57963.	5916.	11.20	0.0200	0.	57.	0.29
MILE	46.20	824.86	300000.	5.83	51446.	5853.	11.35	0.0200	0.	63.	0.35
MILE	44.10	824.84	300000.	3.51	85513.	2942.	11.00	0.0300	0.	70.	0.11
MILE	43.70	823.70	300000.	8.71	34461.	2805.	12.97	0.0300	0.	71.	0.44
MILE	42.00	823.64	300000.	4.08	73559.	2694.	9.93	0.0300	0.	74.	0.14
MILE	39.10	821.76	300000.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE	37.00	821.79	300000.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE	36.00	821.03	300000.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE	34.60	820.79	300000.	4.99	60073.	1995.	13.93	0.0280	0.	72.	0.16
MILE	33.60	821.00	300000.	2.16	138910.	3587.	13.16	0.0290	0.	78.	0.06
MILE	31.50	820.42	300000.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE	30.10	820.21	300000.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11
MILE	29.00	820.08	300000.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE	27.30	819.92	300000.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE	25.20	819.79	300000.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE	23.10	819.49	300000.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

0DATE 10-15-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 21.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE	79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60.	0.38
MILE	77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE	75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE	73.50	859.19	300000.	11.02	27220.	1684.	10.40	0.0330	0.	60.	0.48
MILE	71.40	856.27	300000.	7.45	40248.	1408.	10.74	0.0400	0.	58.	0.25
MILE	69.30	852.15	300000.	8.21	36539.	1397.	10.20	0.0340	0.	53.	0.28
MILE	67.20	850.04	300000.	5.35	56022.	3394.	9.78	0.0340	0.	59.	0.23
MILE	65.10	846.64	300000.	7.10	42281.	4040.	10.00	0.0320	0.	60.	0.39
MILE	63.00	844.86	300000.	5.05	59396.	2885.	8.42	0.0400	0.	64.	0.20
MILE	60.90	839.92	300000.	7.60	39486.	2485.	9.63	0.0450	0.	63.	0.34
MILE	58.80	832.40	300000.	7.89	38010.	1815.	8.46	0.0400	0.	59.	0.30
MILE	57.00	830.73	300000.	7.89	38034.	1906.	8.79	0.0200	0.	56.	0.31
MILE	55.00	828.36	300000.	9.13	32842.	1898.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.44	300000.	6.69	44867.	2256.	9.31	0.0200	0.	54.	0.26
MILE	51.00	826.14	300000.	6.99	42902.	2903.	9.15	0.0200	0.	57.	0.32
MILE	48.30	825.49	300000.	5.18	57963.	5916.	11.20	0.0200	0.	57.	0.29
MILE	46.20	824.86	300000.	5.83	51446.	5853.	11.35	0.0200	0.	63.	0.35
MILE	44.10	824.84	300000.	3.51	85513.	2942.	11.00	0.0300	0.	70.	0.11
MILE	43.70	823.70	300000.	8.71	34461.	2805.	12.97	0.0300	0.	71.	0.44

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 363 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 42.00	823.64	300000.	4.08	73559.	2694.	9.93	0.0300	0.	74.	0.14
MILE 39.10	821.76	300000.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE 37.00	821.79	300000.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE 36.00	821.03	300000.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE 34.60	820.79	300000.	4.99	60073.	1995.	13.93	0.0280	0.	72.	0.16
MILE 33.60	821.00	300000.	2.16	138910.	3587.	13.16	0.0290	0.	78.	0.06
MILE 31.50	820.42	300000.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE 30.10	820.21	300000.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11
MILE 29.00	820.08	300000.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE 27.30	819.92	300000.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE 25.20	819.79	300000.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE 23.10	819.49	300000.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

ODATE 10-15-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 22.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	878.24	300000.	11.35	26440.	952.	10.09	0.0290	0.	60.	0.38
MILE 77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE 75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE 73.50	859.19	300000.	11.02	27220.	1684.	10.40	0.0330	0.	60.	0.48
MILE 71.40	856.27	300000.	7.45	40248.	1408.	10.74	0.0400	0.	58.	0.25
MILE 69.30	852.15	300000.	8.21	36539.	1397.	10.20	0.0340	0.	53.	0.28
MILE 67.20	850.04	300000.	5.35	56022.	3394.	9.78	0.0340	0.	59.	0.23
MILE 65.10	846.64	300000.	7.10	42281.	4040.	10.00	0.0320	0.	60.	0.39
MILE 63.00	844.86	300000.	5.05	59396.	2885.	8.42	0.0400	0.	64.	0.20
MILE 60.90	839.92	300000.	7.60	39486.	2485.	9.63	0.0450	0.	63.	0.34
MILE 58.80	832.40	300000.	7.89	38010.	1815.	8.46	0.0400	0.	59.	0.30
MILE 57.00	830.73	300000.	7.89	38034.	1906.	8.79	0.0200	0.	56.	0.31
MILE 55.00	828.36	300000.	9.13	32842.	1898.	8.71	0.0200	0.	55.	0.39
MILE 53.10	827.44	300000.	6.69	44867.	2256.	9.31	0.0200	0.	54.	0.26
MILE 51.00	826.14	300000.	6.99	42902.	2903.	9.15	0.0200	0.	57.	0.32
MILE 48.30	825.49	300000.	5.18	57963.	5916.	11.20	0.0200	0.	57.	0.29
MILE 46.20	824.86	300000.	5.83	51446.	5853.	11.35	0.0200	0.	63.	0.35
MILE 44.10	824.84	300000.	3.51	85513.	2942.	11.00	0.0300	0.	70.	0.11
MILE 43.70	823.70	300000.	8.71	34461.	2805.	12.97	0.0300	0.	71.	0.44
MILE 42.00	823.64	300000.	4.08	73559.	2694.	9.93	0.0300	0.	74.	0.14
MILE 39.10	821.76	300000.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE 37.00	821.79	300000.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE 36.00	821.03	300000.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE 34.60	820.79	300000.	4.99	60073.	1995.	13.93	0.0280	0.	72.	0.16
MILE 33.60	821.00	300000.	2.16	138910.	3587.	13.16	0.0290	0.	78.	0.06
MILE 31.50	820.42	300000.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE 30.10	820.21	300000.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11
MILE 29.00	820.08	300000.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE 27.30	819.92	300000.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE 25.20	819.79	300000.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 364 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 23.10 819.49 300000. 4.58 65492. 1701. 15.11 0.0230 0. 89. 0.13

0DATE 10-15-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 23.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80 878.24 300000. 11.35 26440. 952. 10.09 0.0290 0. 60. 0.38
MILE 77.70 875.96 300000. 8.79 34138. 1163. 10.97 0.0400 0. 65. 0.29
MILE 75.60 868.71 300000. 9.90 30313. 2243. 10.16 0.0400 0. 62. 0.47
MILE 73.50 859.19 300000. 11.02 27220. 1684. 10.40 0.0330 0. 60. 0.48
MILE 71.40 856.27 300000. 7.45 40248. 1408. 10.74 0.0400 0. 58. 0.25
MILE 69.30 852.15 300000. 8.21 36539. 1397. 10.20 0.0340 0. 53. 0.28
MILE 67.20 850.04 300000. 5.35 56022. 3394. 9.78 0.0340 0. 59. 0.23
MILE 65.10 846.64 300000. 7.10 42281. 4040. 10.00 0.0320 0. 60. 0.39
MILE 63.00 844.86 300000. 5.05 59396. 2885. 8.42 0.0400 0. 64. 0.20
MILE 60.90 839.92 300000. 7.60 39486. 2485. 9.63 0.0450 0. 63. 0.34
MILE 58.80 832.40 300000. 7.89 38010. 1815. 8.46 0.0400 0. 59. 0.30
MILE 57.00 830.73 300000. 7.89 38034. 1906. 8.79 0.0200 0. 56. 0.31
MILE 55.00 828.36 300000. 9.13 32842. 1898. 8.71 0.0200 0. 55. 0.39
MILE 53.10 827.44 300000. 6.69 44867. 2256. 9.31 0.0200 0. 54. 0.26
MILE 51.00 826.14 300000. 6.99 42902. 2903. 9.15 0.0200 0. 57. 0.32
MILE 48.30 825.49 300000. 5.18 57963. 5916. 11.20 0.0200 0. 57. 0.29
MILE 46.20 824.86 300000. 5.83 51446. 5853. 11.35 0.0200 0. 63. 0.35
MILE 44.10 824.84 300000. 3.51 85513. 2942. 11.00 0.0300 0. 70. 0.11
MILE 43.70 823.70 300000. 8.71 34461. 2805. 12.97 0.0300 0. 71. 0.44
MILE 42.00 823.64 300000. 4.08 73559. 2694. 9.93 0.0300 0. 74. 0.14
MILE 39.10 821.76 300000. 6.61 45412. 2617. 12.33 0.0230 0. 71. 0.28
MILE 37.00 821.79 300000. 3.72 80690. 1907. 12.47 0.0280 0. 70. 0.10
MILE 36.00 821.03 300000. 6.67 45007. 1385. 12.82 0.0280 0. 72. 0.21
MILE 34.60 820.79 300000. 4.99 60073. 1995. 13.93 0.0280 0. 72. 0.16
MILE 33.60 821.00 300000. 2.16 138910. 3587. 13.16 0.0290 0. 78. 0.06
MILE 31.50 820.42 300000. 5.19 57840. 2792. 14.41 0.0250 0. 82. 0.20
MILE 30.10 820.21 300000. 4.70 63850. 1204. 13.60 0.0200 0. 79. 0.11
MILE 29.00 820.08 300000. 4.69 63981. 1603. 15.00 0.0200 0. 80. 0.13
MILE 27.30 819.92 300000. 4.65 64564. 1532. 15.30 0.0230 0. 83. 0.13
MILE 25.20 819.79 300000. 3.96 75683. 1514. 16.17 0.0230 0. 85. 0.10
MILE 23.10 819.49 300000. 4.58 65492. 1701. 15.11 0.0230 0. 89. 0.13

0DATE 10-16-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 0.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80 878.24 300000. 11.35 26440. 952. 10.09 0.0290 0. 60. 0.38

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 365 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	77.70	875.96	300000.	8.79	34138.	1163.	10.97	0.0400	0.	65.	0.29
MILE	75.60	868.71	300000.	9.90	30313.	2243.	10.16	0.0400	0.	62.	0.47
MILE	73.50	859.19	300000.	11.02	27220.	1684.	10.40	0.0330	0.	60.	0.48
MILE	71.40	856.27	300000.	7.45	40248.	1408.	10.74	0.0400	0.	58.	0.25
MILE	69.30	852.15	300000.	8.21	36539.	1397.	10.20	0.0340	0.	53.	0.28
MILE	67.20	850.04	300000.	5.35	56022.	3394.	9.78	0.0340	0.	59.	0.23
MILE	65.10	846.64	300000.	7.10	42281.	4040.	10.00	0.0320	0.	60.	0.39
MILE	63.00	844.86	300000.	5.05	59396.	2885.	8.42	0.0400	0.	64.	0.20
MILE	60.90	839.92	300000.	7.60	39486.	2485.	9.63	0.0450	0.	63.	0.34
MILE	58.80	832.40	300000.	7.89	38010.	1815.	8.46	0.0400	0.	59.	0.30
MILE	57.00	830.73	300000.	7.89	38034.	1906.	8.79	0.0200	0.	56.	0.31
MILE	55.00	828.36	300000.	9.13	32842.	1898.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.44	300000.	6.69	44867.	2256.	9.31	0.0200	0.	54.	0.26
MILE	51.00	826.14	300000.	6.99	42902.	2903.	9.15	0.0200	0.	57.	0.32
MILE	48.30	825.49	300000.	5.18	57963.	5916.	11.20	0.0200	0.	57.	0.29
MILE	46.20	824.86	300000.	5.83	51446.	5853.	11.35	0.0200	0.	63.	0.35
MILE	44.10	824.84	300000.	3.51	85513.	2942.	11.00	0.0300	0.	70.	0.11
MILE	43.70	823.70	300000.	8.71	34461.	2805.	12.97	0.0300	0.	71.	0.44
MILE	42.00	823.64	300000.	4.08	73559.	2694.	9.93	0.0300	0.	74.	0.14
MILE	39.10	821.76	300000.	6.61	45412.	2617.	12.33	0.0230	0.	71.	0.28
MILE	37.00	821.79	300000.	3.72	80690.	1907.	12.47	0.0280	0.	70.	0.10
MILE	36.00	821.03	300000.	6.67	45007.	1385.	12.82	0.0280	0.	72.	0.21
MILE	34.60	820.79	300000.	4.99	60073.	1995.	13.93	0.0280	0.	72.	0.16
MILE	33.60	821.00	300000.	2.16	138910.	3587.	13.16	0.0290	0.	78.	0.06
MILE	31.50	820.42	300000.	5.19	57840.	2792.	14.41	0.0250	0.	82.	0.20
MILE	30.10	820.21	300000.	4.70	63850.	1204.	13.60	0.0200	0.	79.	0.11
MILE	29.00	820.08	300000.	4.69	63981.	1603.	15.00	0.0200	0.	80.	0.13
MILE	27.30	819.92	300000.	4.65	64564.	1532.	15.30	0.0230	0.	83.	0.13
MILE	25.20	819.79	300000.	3.96	75683.	1514.	16.17	0.0230	0.	85.	0.10
MILE	23.10	819.49	300000.	4.58	65492.	1701.	15.11	0.0230	0.	89.	0.13

0DATE 10-16-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	1.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL	
INFLOW	DEPTH	FROUDE									
MILE	79.80	878.44	304167.	11.44	26577.	954.	10.10	0.0290	0.	60.	0.38
MILE	77.70	876.13	303303.	8.85	34290.	1165.	10.98	0.0400	0.	65.	0.29
MILE	75.60	868.81	302183.	9.94	30393.	2248.	10.17	0.0400	0.	62.	0.48
MILE	73.50	859.24	301297.	11.06	27250.	1686.	10.41	0.0330	0.	60.	0.48
MILE	71.40	856.30	300876.	7.47	40285.	1408.	10.74	0.0400	0.	59.	0.25
MILE	69.30	852.16	300603.	8.22	36554.	1397.	10.20	0.0340	0.	53.	0.28
MILE	67.20	850.05	300381.	5.36	56033.	3394.	9.78	0.0340	0.	59.	0.23
MILE	65.10	846.64	300145.	7.10	42284.	4040.	10.00	0.0320	0.	60.	0.39
MILE	63.00	844.86	300050.	5.05	59399.	2885.	8.42	0.0400	0.	64.	0.20
MILE	60.90	839.92	300011.	7.60	39487.	2485.	9.63	0.0450	0.	63.	0.34
MILE	58.80	832.40	300002.	7.89	38010.	1815.	8.46	0.0400	0.	59.	0.30
MILE	57.00	830.73	300001.	7.89	38034.	1906.	8.79	0.0200	0.	56.	0.31

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	55.00	828.36	300000.	9.13	32842.	1898.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.44	300000.	6.69	44867.	2256.	9.31	0.0200	0.	54.	0.26
MILE	51.00	826.14	300000.	6.99	42902.	2903.	9.15	0.0200	0.	57.	0.32
MILE	48.30	825.49	300000.	5.18	57963.	5916.	11.20	0.0200	0.	57.	0.29
MILE	46.20	824.86	300000.	5.83	51446.	5853.	11.35	0.0200	0.	63.	0.35
MILE	44.10	824.84	299975.	3.51	85515.	2942.	11.00	0.0300	0.	70.	0.11
MILE	43.70	823.70	299961.	8.70	34462.	2805.	12.97	0.0300	0.	71.	0.44
MILE	42.00	823.64	299778.	4.07	73571.	2694.	9.93	0.0300	0.	74.	0.14
MILE	39.10	821.79	298898.	6.58	45443.	2619.	12.34	0.0230	0.	71.	0.28
MILE	37.00	821.83	297621.	3.68	80781.	1908.	12.47	0.0280	0.	71.	0.10
MILE	36.00	821.10	297165.	6.59	45082.	1387.	12.83	0.0280	0.	72.	0.20
MILE	34.60	820.88	296412.	4.93	60185.	1998.	13.94	0.0280	0.	72.	0.16
MILE	33.60	821.09	295559.	2.12	139182.	3593.	13.18	0.0290	0.	78.	0.06
MILE	31.50	820.55	293439.	5.06	57990.	2799.	14.42	0.0250	0.	82.	0.20
MILE	30.10	820.36	292466.	4.57	64053.	1206.	13.62	0.0200	0.	80.	0.11
MILE	29.00	820.25	291859.	4.55	64191.	1609.	15.02	0.0200	0.	81.	0.13
MILE	27.30	820.11	290664.	4.49	64791.	1536.	15.32	0.0230	0.	83.	0.12
MILE	25.20	820.01	289268.	3.81	75953.	1518.	16.20	0.0230	0.	86.	0.09
MILE	23.10	819.76	287990.	4.38	65820.	1707.	15.14	0.0230	0.	90.	0.12

ODATE 10-16-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 2.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	878.75	308333.	11.51	26788.	956.	10.12	0.0290	0.	60.	0.38
MILE	77.70	876.42	307278.	8.89	34549.	1168.	11.00	0.0400	0.	66.	0.29
MILE	75.60	869.05	305806.	10.00	30584.	2259.	10.18	0.0400	0.	63.	0.48
MILE	73.50	859.38	304446.	11.13	27351.	1692.	10.42	0.0330	0.	60.	0.49
MILE	71.40	856.42	303674.	7.51	40440.	1412.	10.76	0.0400	0.	59.	0.25
MILE	69.30	852.25	303088.	8.27	36634.	1400.	10.21	0.0340	0.	54.	0.28
MILE	67.20	850.11	302417.	5.39	56121.	3400.	9.79	0.0340	0.	59.	0.23
MILE	65.10	846.67	301507.	7.12	42323.	4044.	10.01	0.0320	0.	60.	0.39
MILE	63.00	844.89	300871.	5.06	59495.	2886.	8.42	0.0400	0.	64.	0.20
MILE	60.90	839.94	300461.	7.60	39511.	2486.	9.63	0.0450	0.	63.	0.34
MILE	58.80	832.41	300262.	7.90	38021.	1816.	8.46	0.0400	0.	59.	0.30
MILE	57.00	830.73	300196.	7.89	38043.	1906.	8.79	0.0200	0.	56.	0.31
MILE	55.00	828.37	300124.	9.14	32848.	1898.	8.71	0.0200	0.	55.	0.39
MILE	53.10	827.45	300014.	6.69	44875.	2256.	9.31	0.0200	0.	54.	0.26
MILE	51.00	826.15	299763.	6.98	42915.	2904.	9.15	0.0200	0.	57.	0.32
MILE	48.30	825.51	298708.	5.15	58001.	5920.	11.20	0.0200	0.	57.	0.29
MILE	46.20	824.90	297363.	5.77	51512.	5860.	11.35	0.0200	0.	63.	0.34
MILE	44.10	824.90	296153.	3.46	85662.	2945.	11.01	0.0300	0.	70.	0.11
MILE	43.70	823.79	295987.	8.57	34531.	2810.	12.98	0.0300	0.	71.	0.43
MILE	42.00	823.75	295015.	3.99	73863.	2701.	9.93	0.0300	0.	74.	0.13
MILE	39.10	821.99	293088.	6.42	45670.	2631.	12.36	0.0230	0.	71.	0.27
MILE	37.00	822.03	291746.	3.59	81154.	1914.	12.50	0.0280	0.	71.	0.10
MILE	36.00	821.33	291252.	6.43	45323.	1391.	12.86	0.0280	0.	72.	0.20

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	34.60	821.12	290424.	4.80	60480.	2005.	13.97	0.0280	0.	73.	0.15
MILE	33.60	821.32	289468.	2.07	139871.	3610.	13.21	0.0290	0.	78.	0.06
MILE	31.50	820.80	287091.	4.93	58289.	2814.	14.45	0.0250	0.	82.	0.19
MILE	30.10	820.62	285994.	4.44	64402.	1210.	13.65	0.0200	0.	80.	0.11
MILE	29.00	820.52	285405.	4.42	64519.	1618.	15.05	0.0200	0.	81.	0.12
MILE	27.30	820.38	284422.	4.37	65103.	1543.	15.36	0.0230	0.	83.	0.12
MILE	25.20	820.28	283215.	3.71	76273.	1525.	16.24	0.0230	0.	86.	0.09
MILE	23.10	820.02	281974.	4.26	66149.	1714.	15.17	0.0230	0.	90.	0.12

ODATE 10-16-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	3.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL	
INFLOW	DEPTH	FROUDE									
MILE	79.80	879.09	312500.	11.56	27023.	959.	10.14	0.0290	0.	60.	0.38
MILE	77.70	876.76	311372.	8.94	34844.	1172.	11.02	0.0400	0.	66.	0.29
MILE	75.60	869.34	309753.	10.05	30819.	2273.	10.19	0.0400	0.	63.	0.48
MILE	73.50	859.59	308160.	11.21	27494.	1701.	10.44	0.0330	0.	60.	0.49
MILE	71.40	856.61	307178.	7.55	40671.	1417.	10.79	0.0400	0.	59.	0.25
MILE	69.30	852.39	306371.	8.33	36774.	1404.	10.22	0.0340	0.	54.	0.29
MILE	67.20	850.23	305314.	5.42	56296.	3412.	9.80	0.0340	0.	60.	0.24
MILE	65.10	846.76	303771.	7.16	42422.	4054.	10.01	0.0320	0.	60.	0.39
MILE	63.00	844.98	302540.	5.06	59764.	2889.	8.41	0.0400	0.	64.	0.20
MILE	60.90	840.00	301659.	7.62	39599.	2489.	9.63	0.0450	0.	63.	0.34
MILE	58.80	832.46	301068.	7.91	38085.	1818.	8.46	0.0400	0.	59.	0.30
MILE	57.00	830.79	300662.	7.89	38111.	1908.	8.79	0.0200	0.	56.	0.31
MILE	55.00	828.43	300175.	9.12	32920.	1901.	8.72	0.0200	0.	55.	0.39
MILE	53.10	827.52	299630.	6.66	44967.	2261.	9.31	0.0200	0.	54.	0.26
MILE	51.00	826.24	298831.	6.95	43020.	2911.	9.16	0.0200	0.	57.	0.32
MILE	48.30	825.61	296843.	5.10	58152.	5937.	11.21	0.0200	0.	57.	0.29
MILE	46.20	825.01	294648.	5.70	51670.	5877.	11.36	0.0200	0.	63.	0.34
MILE	44.10	825.01	292831.	3.41	85945.	2950.	11.01	0.0300	0.	70.	0.11
MILE	43.70	823.93	292603.	8.45	34636.	2818.	13.00	0.0300	0.	71.	0.42
MILE	42.00	823.90	291511.	3.93	74246.	2710.	9.94	0.0300	0.	74.	0.13
MILE	39.10	822.19	289489.	6.31	45900.	2643.	12.39	0.0230	0.	71.	0.27
MILE	37.00	822.23	288047.	3.53	81538.	1920.	12.53	0.0280	0.	71.	0.10
MILE	36.00	821.55	287525.	6.31	45560.	1396.	12.89	0.0280	0.	73.	0.19
MILE	34.60	821.35	286708.	4.72	60766.	2012.	14.00	0.0280	0.	73.	0.15
MILE	33.60	821.54	285772.	2.03	140548.	3626.	13.25	0.0290	0.	79.	0.06
MILE	31.50	821.04	283480.	4.84	58573.	2828.	14.48	0.0250	0.	82.	0.19
MILE	30.10	820.87	282465.	4.36	64729.	1214.	13.67	0.0200	0.	80.	0.11
MILE	29.00	820.76	281890.	4.35	64827.	1626.	15.08	0.0200	0.	81.	0.12
MILE	27.30	820.63	280870.	4.29	65401.	1550.	15.39	0.0230	0.	84.	0.12
MILE	25.20	820.53	279655.	3.65	76587.	1531.	16.27	0.0230	0.	86.	0.09
MILE	23.10	820.29	278307.	4.19	66477.	1723.	15.20	0.0230	0.	90.	0.12

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 368 of 665
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Appendix E		Checked	ACM

0DATE 10-16-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 4.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL
	INFLOW DEPTH	FROUDE							
MILE 79.80	879.44	316667.	11.61	27269.	962.	10.16	0.0290	0.	61. 0.38
MILE 77.70	877.11	315493.	8.97	35157.	1175.	11.05	0.0400	0.	66. 0.29
MILE 75.60	869.65	313779.	10.10	31070.	2288.	10.21	0.0400	0.	63. 0.48
MILE 73.50	859.82	312039.	11.28	27659.	1711.	10.46	0.0330	0.	61. 0.49
MILE 71.40	856.83	310912.	7.59	40951.	1423.	10.82	0.0400	0.	59. 0.25
MILE 69.30	852.58	309940.	8.39	36959.	1409.	10.24	0.0340	0.	54. 0.29
MILE 67.20	850.40	308558.	5.46	56543.	3428.	9.81	0.0340	0.	60. 0.24
MILE 65.10	846.90	306452.	7.20	42578.	4069.	10.02	0.0320	0.	60. 0.39
MILE 63.00	845.12	304635.	5.07	60135.	2895.	8.41	0.0400	0.	64. 0.20
MILE 60.90	840.13	303226.	7.61	39823.	2495.	9.60	0.0450	0.	64. 0.34
MILE 58.80	832.57	302323.	7.91	38227.	1823.	8.47	0.0400	0.	59. 0.30
MILE 57.00	830.89	301700.	7.89	38260.	1914.	8.79	0.0200	0.	56. 0.31
MILE 55.00	828.55	300968.	9.10	33061.	1908.	8.72	0.0200	0.	55. 0.39
MILE 53.10	827.64	300186.	6.65	45128.	2269.	9.32	0.0200	0.	54. 0.26
MILE 51.00	826.37	299082.	6.93	43181.	2922.	9.17	0.0200	0.	57. 0.32
MILE 48.30	825.75	296473.	5.08	58367.	5960.	11.23	0.0200	0.	57. 0.29
MILE 46.20	825.16	293585.	5.66	51879.	5901.	11.37	0.0200	0.	63. 0.34
MILE 44.10	825.16	291280.	3.38	86301.	2958.	11.02	0.0300	0.	70. 0.11
MILE 43.70	824.10	290991.	8.37	34761.	2827.	13.02	0.0300	0.	71. 0.42
MILE 42.00	824.07	289671.	3.88	74710.	2721.	9.95	0.0300	0.	74. 0.13
MILE 39.10	822.41	287283.	6.23	46149.	2656.	12.41	0.0230	0.	71. 0.26
MILE 37.00	822.45	285708.	3.49	81958.	1927.	12.56	0.0280	0.	71. 0.09
MILE 36.00	821.79	285143.	6.22	45810.	1400.	12.91	0.0280	0.	73. 0.19
MILE 34.60	821.59	284277.	4.66	61065.	2020.	14.03	0.0280	0.	73. 0.15
MILE 33.60	821.78	283277.	2.01	141264.	3644.	13.28	0.0290	0.	79. 0.06
MILE 31.50	821.29	280816.	4.77	58869.	2843.	14.50	0.0250	0.	82. 0.18
MILE 30.10	821.12	279724.	4.30	65072.	1218.	13.70	0.0200	0.	80. 0.10
MILE 29.00	821.02	279124.	4.28	65149.	1635.	15.11	0.0200	0.	81. 0.12
MILE 27.30	820.89	278098.	4.23	65709.	1558.	15.42	0.0230	0.	84. 0.11
MILE 25.20	820.79	276847.	3.60	76908.	1537.	16.31	0.0230	0.	86. 0.09
MILE 23.10	820.56	275519.	4.12	66805.	1733.	15.23	0.0230	0.	91. 0.12

0DATE 10-16-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 5.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL
	INFLOW DEPTH	FROUDE							
MILE 79.80	879.80	320833.	11.66	27523.	964.	10.19	0.0290	0.	61. 0.38
MILE 77.70	877.47	319633.	9.01	35480.	1179.	11.07	0.0400	0.	67. 0.29
MILE 75.60	869.97	317853.	10.15	31331.	2303.	10.23	0.0400	0.	63. 0.48
MILE 73.50	860.08	315983.	11.35	27838.	1722.	10.48	0.0330	0.	61. 0.50
MILE 71.40	857.08	314746.	7.63	41264.	1430.	10.85	0.0400	0.	59. 0.25

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 369 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	69.30	852.81	313642.	8.44	37177.	1415.	10.26	0.0340	0.	54.	0.29
MILE	67.20	850.61	311990.	5.49	56848.	3448.	9.83	0.0340	0.	60.	0.24
MILE	65.10	847.09	309416.	7.23	42785.	4090.	10.04	0.0320	0.	60.	0.39
MILE	63.00	845.30	307131.	5.07	60621.	2902.	8.42	0.0400	0.	64.	0.20
MILE	60.90	840.32	305325.	7.61	40144.	2504.	9.57	0.0450	0.	64.	0.33
MILE	58.80	832.72	304133.	7.92	38422.	1829.	8.47	0.0400	0.	60.	0.30
MILE	57.00	831.04	303321.	7.89	38464.	1921.	8.79	0.0200	0.	56.	0.31
MILE	55.00	828.70	302377.	9.09	33247.	1916.	8.72	0.0200	0.	55.	0.38
MILE	53.10	827.79	301384.	6.65	45338.	2279.	9.33	0.0200	0.	55.	0.26
MILE	51.00	826.53	299988.	6.91	43386.	2935.	9.19	0.0200	0.	57.	0.32
MILE	48.30	825.92	296770.	5.06	58636.	5990.	11.26	0.0200	0.	57.	0.29
MILE	46.20	825.34	293311.	5.63	52134.	5929.	11.39	0.0200	0.	64.	0.33
MILE	44.10	825.34	290577.	3.35	86740.	2966.	11.02	0.0300	0.	70.	0.11
MILE	43.70	824.30	290241.	8.31	34907.	2838.	13.05	0.0300	0.	71.	0.42
MILE	42.00	824.27	288779.	3.84	75252.	2733.	9.96	0.0300	0.	74.	0.13
MILE	39.10	822.64	286205.	6.17	46418.	2671.	12.44	0.0230	0.	72.	0.26
MILE	37.00	822.68	284518.	3.45	82413.	1934.	12.60	0.0280	0.	71.	0.09
MILE	36.00	822.04	283922.	6.16	46073.	1405.	12.95	0.0280	0.	73.	0.19
MILE	34.60	821.85	283031.	4.61	61379.	2028.	14.07	0.0280	0.	73.	0.15
MILE	33.60	822.02	281999.	1.99	142018.	3662.	13.32	0.0290	0.	79.	0.06
MILE	31.50	821.55	279468.	4.72	59175.	2858.	14.53	0.0250	0.	83.	0.18
MILE	30.10	821.38	278393.	4.26	65422.	1222.	13.73	0.0200	0.	81.	0.10
MILE	29.00	821.28	277793.	4.24	65474.	1644.	15.13	0.0200	0.	82.	0.12
MILE	27.30	821.16	276744.	4.19	66020.	1565.	15.45	0.0230	0.	84.	0.11
MILE	25.20	821.06	275489.	3.57	77231.	1544.	16.35	0.0230	0.	87.	0.09
MILE	23.10	820.83	274151.	4.08	67133.	1743.	15.26	0.0230	0.	91.	0.12

0DATE 10-16-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	6.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL	
INFLOW	DEPTH	FROUDE									
MILE	79.80	880.17	325000.	11.70	27777.	967.	10.20	0.0290	0.	61.	0.38
MILE	77.70	877.84	323757.	9.04	35816.	1183.	11.10	0.0400	0.	67.	0.29
MILE	75.60	870.31	321876.	10.19	31591.	2318.	10.24	0.0400	0.	64.	0.49
MILE	73.50	860.35	319933.	11.42	28025.	1734.	10.50	0.0330	0.	61.	0.50
MILE	71.40	857.36	318609.	7.66	41607.	1437.	10.89	0.0400	0.	60.	0.25
MILE	69.30	853.06	317401.	8.48	37424.	1422.	10.28	0.0340	0.	54.	0.29
MILE	67.20	850.85	315539.	5.52	57200.	3471.	9.85	0.0340	0.	60.	0.24
MILE	65.10	847.31	312603.	7.26	43032.	4114.	10.05	0.0320	0.	60.	0.40
MILE	63.00	845.53	309964.	5.06	61207.	2911.	8.42	0.0400	0.	65.	0.19
MILE	60.90	840.55	307844.	7.59	40543.	2514.	9.53	0.0450	0.	64.	0.33
MILE	58.80	832.91	306406.	7.92	38667.	1838.	8.47	0.0400	0.	60.	0.30
MILE	57.00	831.23	305428.	7.89	38718.	1930.	8.79	0.0200	0.	56.	0.31
MILE	55.00	828.89	304300.	9.09	33475.	1927.	8.72	0.0200	0.	55.	0.38
MILE	53.10	827.98	303130.	6.65	45593.	2292.	9.35	0.0200	0.	55.	0.26
MILE	51.00	826.73	301504.	6.91	43629.	2951.	9.21	0.0200	0.	57.	0.32
MILE	48.30	826.12	297817.	5.05	58950.	6024.	11.29	0.0200	0.	57.	0.28

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MILE 46.20	825.55	293884.	5.61	52428.	5962.	11.41	0.0200	0.	64.	0.33
MILE 44.10	825.54	290816.	3.33	87244.	2976.	11.03	0.0300	0.	70.	0.11
MILE 43.70	824.51	290441.	8.28	35069.	2850.	13.08	0.0300	0.	72.	0.42
MILE 42.00	824.49	288853.	3.81	75852.	2747.	9.97	0.0300	0.	74.	0.13
MILE 39.10	822.89	286098.	6.13	46699.	2686.	12.47	0.0230	0.	72.	0.26
MILE 37.00	822.93	284340.	3.43	82888.	1942.	12.63	0.0280	0.	72.	0.09
MILE 36.00	822.29	283722.	6.12	46344.	1410.	12.98	0.0280	0.	73.	0.19
MILE 34.60	822.10	282813.	4.58	61699.	2036.	14.10	0.0280	0.	74.	0.15
MILE 33.60	822.28	281755.	1.97	142792.	3681.	13.36	0.0290	0.	79.	0.06
MILE 31.50	821.81	279150.	4.69	59486.	2873.	14.56	0.0250	0.	83.	0.18
MILE 30.10	821.65	278047.	4.23	65776.	1226.	13.75	0.0200	0.	81.	0.10
MILE 29.00	821.55	277437.	4.22	65804.	1653.	15.16	0.0200	0.	82.	0.12
MILE 27.30	821.42	276381.	4.17	66333.	1572.	15.48	0.0230	0.	84.	0.11
MILE 25.20	821.32	275110.	3.55	77556.	1550.	16.38	0.0230	0.	87.	0.09
MILE 23.10	821.09	273769.	4.06	67463.	1752.	15.29	0.0230	0.	91.	0.12

ODATE 10-16-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	7.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL
INFLOW	DEPTH	FROUDE								
MILE 79.80	880.55	329167.	11.75	28025.	971.	10.21	0.0290	0.	62.	0.39
MILE 77.70	878.22	327908.	9.07	36162.	1187.	11.12	0.0400	0.	68.	0.29
MILE 75.60	870.66	325987.	10.23	31864.	2335.	10.25	0.0400	0.	64.	0.49
MILE 73.50	860.64	323964.	11.48	28223.	1747.	10.52	0.0330	0.	61.	0.50
MILE 71.40	857.64	322560.	7.69	41972.	1445.	10.93	0.0400	0.	60.	0.25
MILE 69.30	853.33	321264.	8.52	37692.	1429.	10.30	0.0340	0.	55.	0.29
MILE 67.20	851.12	319227.	5.54	57589.	3496.	9.88	0.0340	0.	60.	0.24
MILE 65.10	847.56	315990.	7.30	43310.	4141.	10.07	0.0320	0.	61.	0.40
MILE 63.00	845.78	313063.	5.06	61877.	2921.	8.43	0.0400	0.	65.	0.19
MILE 60.90	840.81	310700.	7.58	41006.	2526.	9.48	0.0450	0.	64.	0.33
MILE 58.80	833.12	309067.	7.93	38951.	1848.	8.48	0.0400	0.	60.	0.30
MILE 57.00	831.44	307957.	7.89	39014.	1941.	8.79	0.0200	0.	57.	0.31
MILE 55.00	829.11	306682.	9.09	33738.	1939.	8.73	0.0200	0.	56.	0.38
MILE 53.10	828.20	305371.	6.66	45883.	2307.	9.36	0.0200	0.	55.	0.26
MILE 51.00	826.95	303556.	6.91	43902.	2970.	9.23	0.0200	0.	58.	0.32
MILE 48.30	826.34	299479.	5.05	59300.	6063.	11.33	0.0200	0.	57.	0.28
MILE 46.20	825.77	295156.	5.60	52752.	5998.	11.43	0.0200	0.	64.	0.33
MILE 44.10	825.77	291800.	3.32	87801.	2987.	11.04	0.0300	0.	71.	0.11
MILE 43.70	824.74	291393.	8.27	35242.	2863.	13.11	0.0300	0.	72.	0.42
MILE 42.00	824.73	289700.	3.79	76501.	2762.	9.98	0.0300	0.	75.	0.13
MILE 39.10	823.15	286798.	6.10	46992.	2701.	12.50	0.0230	0.	72.	0.26
MILE 37.00	823.18	284968.	3.42	83383.	1949.	12.67	0.0280	0.	72.	0.09
MILE 36.00	822.55	284328.	6.10	46621.	1416.	13.01	0.0280	0.	74.	0.19
MILE 34.60	822.37	283399.	4.57	62026.	2044.	14.13	0.0280	0.	74.	0.15
MILE 33.60	822.54	282315.	1.97	143587.	3700.	13.40	0.0290	0.	80.	0.06
MILE 31.50	822.08	279653.	4.68	59801.	2889.	14.59	0.0250	0.	83.	0.18
MILE 30.10	821.91	278541.	4.21	66134.	1230.	13.78	0.0200	0.	81.	0.10

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MILE	29.00	821.81	277924.	4.20	66137.	1662.	15.19	0.0200	0.	82.	0.12
MILE	27.30	821.69	276856.	4.15	66649.	1580.	15.51	0.0230	0.	85.	0.11
MILE	25.20	821.59	275580.	3.54	77882.	1557.	16.42	0.0230	0.	87.	0.09
MILE	23.10	821.36	274228.	4.05	67793.	1762.	15.32	0.0230	0.	91.	0.11

ODATE 10-16-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 8.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	880.92	333333.	11.79	28277.	974.	10.22	0.0290	0.	62.	0.39
MILE	77.70	878.60	332067.	9.09	36512.	1191.	11.15	0.0400	0.	68.	0.29
MILE	75.60	871.01	330122.	10.27	32144.	2352.	10.27	0.0400	0.	65.	0.49
MILE	73.50	860.94	328042.	11.54	28430.	1760.	10.54	0.0330	0.	62.	0.51
MILE	71.40	857.95	326577.	7.71	42355.	1453.	10.97	0.0400	0.	60.	0.25
MILE	69.30	853.63	325213.	8.56	37979.	1437.	10.33	0.0340	0.	55.	0.29
MILE	67.20	851.41	323037.	5.57	58008.	3524.	9.90	0.0340	0.	61.	0.24
MILE	65.10	847.83	319561.	7.33	43613.	4170.	10.09	0.0320	0.	61.	0.40
MILE	63.00	846.06	316405.	5.05	62612.	2932.	8.44	0.0400	0.	65.	0.19
MILE	60.90	841.10	313853.	7.56	41522.	2540.	9.43	0.0450	0.	65.	0.33
MILE	58.80	833.36	312061.	7.95	39270.	1858.	8.49	0.0400	0.	60.	0.30
MILE	57.00	831.68	310829.	7.90	39345.	1952.	8.79	0.0200	0.	57.	0.31
MILE	55.00	829.35	309440.	9.09	34028.	1952.	8.73	0.0200	0.	56.	0.38
MILE	53.10	828.44	307997.	6.67	46202.	2323.	9.38	0.0200	0.	55.	0.26
MILE	51.00	827.18	306029.	6.92	44200.	2989.	9.25	0.0200	0.	58.	0.32
MILE	48.30	826.58	301631.	5.05	59679.	6104.	11.36	0.0200	0.	58.	0.28
MILE	46.20	826.02	296985.	5.59	53101.	6036.	11.45	0.0200	0.	64.	0.33
MILE	44.10	826.02	293398.	3.32	88402.	2999.	11.05	0.0300	0.	71.	0.11
MILE	43.70	824.99	292966.	8.27	35426.	2876.	13.14	0.0300	0.	72.	0.42
MILE	42.00	824.98	291187.	3.77	77191.	2778.	9.99	0.0300	0.	75.	0.13
MILE	39.10	823.41	288162.	6.09	47293.	2717.	12.53	0.0230	0.	72.	0.26
MILE	37.00	823.45	286278.	3.41	83894.	1957.	12.70	0.0280	0.	72.	0.09
MILE	36.00	822.82	285622.	6.09	46905.	1421.	13.04	0.0280	0.	74.	0.19
MILE	34.60	822.63	284679.	4.57	62359.	2052.	14.17	0.0280	0.	74.	0.15
MILE	33.60	822.81	283577.	1.96	144397.	3720.	13.44	0.0290	0.	80.	0.06
MILE	31.50	822.35	280866.	4.67	60120.	2904.	14.62	0.0250	0.	84.	0.18
MILE	30.10	822.18	279739.	4.21	66497.	1234.	13.81	0.0200	0.	81.	0.10
MILE	29.00	822.08	279117.	4.20	66473.	1671.	15.22	0.0200	0.	82.	0.12
MILE	27.30	821.95	278040.	4.15	66967.	1587.	15.55	0.0230	0.	85.	0.11
MILE	25.20	821.86	276755.	3.54	78211.	1563.	16.46	0.0230	0.	87.	0.09
MILE	23.10	821.63	275396.	4.04	68123.	1771.	15.34	0.0230	0.	92.	0.11

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

	TIME 9.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
	INFLOW DEPTH	FROUDE									
MILE	79.80	881.30	337500.	11.83	28530.	977.	10.23	0.0290	0.	63.	0.39
MILE	77.70	878.99	336232.	9.12	36865.	1195.	11.18	0.0400	0.	68.	0.29
MILE	75.60	871.38	334276.	10.31	32430.	2369.	10.28	0.0400	0.	65.	0.49
MILE	73.50	861.25	332156.	11.60	28643.	1773.	10.56	0.0330	0.	62.	0.51
MILE	71.40	858.26	330644.	7.73	42752.	1462.	11.01	0.0400	0.	60.	0.25
MILE	69.30	853.93	329229.	8.60	38281.	1445.	10.36	0.0340	0.	55.	0.29
MILE	67.20	851.71	326949.	5.59	58449.	3552.	9.93	0.0340	0.	61.	0.24
MILE	65.10	848.11	323290.	7.36	43935.	4202.	10.12	0.0320	0.	61.	0.40
MILE	63.00	846.36	319964.	5.05	63402.	2944.	8.45	0.0400	0.	65.	0.19
MILE	60.90	841.41	317272.	7.54	42085.	2554.	9.39	0.0450	0.	65.	0.33
MILE	58.80	833.62	315345.	7.96	39621.	1870.	8.49	0.0400	0.	61.	0.30
MILE	57.00	831.94	314026.	7.91	39711.	1965.	8.78	0.0200	0.	57.	0.31
MILE	55.00	829.60	312529.	9.10	34341.	1966.	8.74	0.0200	0.	56.	0.38
MILE	53.10	828.69	310987.	6.68	46543.	2340.	9.40	0.0200	0.	55.	0.26
MILE	51.00	827.43	308878.	6.94	44516.	3010.	9.27	0.0200	0.	58.	0.32
MILE	48.30	826.84	304191.	5.06	60080.	6148.	11.40	0.0200	0.	58.	0.29
MILE	46.20	826.27	299262.	5.60	53469.	6077.	11.47	0.0200	0.	64.	0.33
MILE	44.10	826.27	295469.	3.32	89038.	3011.	11.06	0.0300	0.	71.	0.11
MILE	43.70	825.24	295014.	8.28	35617.	2890.	13.17	0.0300	0.	72.	0.42
MILE	42.00	825.25	293160.	3.76	77876.	2795.	10.00	0.0300	0.	75.	0.13
MILE	39.10	823.68	290042.	6.09	47601.	2734.	12.56	0.0230	0.	73.	0.26
MILE	37.00	823.71	288118.	3.41	84416.	1966.	12.74	0.0280	0.	72.	0.09
MILE	36.00	823.09	287450.	6.09	47192.	1426.	13.08	0.0280	0.	74.	0.19
MILE	34.60	822.90	286496.	4.57	62696.	2061.	14.20	0.0280	0.	74.	0.15
MILE	33.60	823.08	285380.	1.97	145221.	3740.	13.48	0.0290	0.	80.	0.06
MILE	31.50	822.62	282633.	4.68	60443.	2920.	14.65	0.0250	0.	84.	0.18
MILE	30.10	822.45	281500.	4.21	66862.	1238.	13.84	0.0200	0.	82.	0.10
MILE	29.00	822.35	280874.	4.20	66811.	1680.	15.25	0.0200	0.	83.	0.12
MILE	27.30	822.22	279791.	4.16	67287.	1595.	15.58	0.0230	0.	85.	0.11
MILE	25.20	822.13	278501.	3.55	78540.	1570.	16.49	0.0230	0.	88.	0.09
MILE	23.10	821.90	277136.	4.05	68454.	1781.	15.37	0.0230	0.	92.	0.12

0DATE 10-16-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 10.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
	INFLOW DEPTH	FROUDE									
MILE	79.80	881.68	341667.	11.87	28788.	981.	10.24	0.0290	0.	63.	0.39
MILE	77.70	879.37	340399.	9.15	37217.	1198.	11.21	0.0400	0.	69.	0.29
MILE	75.60	871.74	338433.	10.34	32718.	2386.	10.29	0.0400	0.	65.	0.49
MILE	73.50	861.56	336287.	11.65	28862.	1787.	10.58	0.0330	0.	62.	0.51
MILE	71.40	858.58	334744.	7.76	43159.	1470.	11.06	0.0400	0.	61.	0.25
MILE	69.30	854.25	333294.	8.64	38594.	1454.	10.38	0.0340	0.	56.	0.30
MILE	67.20	852.02	330936.	5.62	58908.	3581.	9.95	0.0340	0.	61.	0.24
MILE	65.10	848.41	327141.	7.39	44273.	4234.	10.14	0.0320	0.	61.	0.40

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Appendix E		Checked	ACM

MILE	63.00	846.66	323686.	5.04	64235.	2956.	8.46	0.0400	0.	66.	0.19
MILE	60.90	841.73	320892.	7.52	42685.	2569.	9.34	0.0450	0.	65.	0.32
MILE	58.80	833.90	318856.	7.97	39996.	1883.	8.50	0.0400	0.	61.	0.30
MILE	57.00	832.22	317460.	7.92	40102.	1979.	8.79	0.0200	0.	57.	0.31
MILE	55.00	829.87	315877.	9.11	34673.	1981.	8.75	0.0200	0.	56.	0.38
MILE	53.10	828.95	314250.	6.70	46905.	2357.	9.41	0.0200	0.	56.	0.26
MILE	51.00	827.70	312027.	6.96	44848.	3032.	9.30	0.0200	0.	58.	0.32
MILE	48.30	827.10	307109.	5.08	60498.	6193.	11.44	0.0200	0.	58.	0.29
MILE	46.20	826.54	301947.	5.61	53853.	6119.	11.50	0.0200	0.	65.	0.33
MILE	44.10	826.54	297992.	3.32	89702.	3024.	11.07	0.0300	0.	71.	0.11
MILE	43.70	825.50	297518.	8.31	35814.	2905.	13.20	0.0300	0.	73.	0.42
MILE	42.00	825.52	295602.	3.76	78584.	2811.	10.01	0.0300	0.	76.	0.13
MILE	39.10	823.95	292395.	6.10	47915.	2750.	12.60	0.0230	0.	73.	0.26
MILE	37.00	823.99	290426.	3.42	84948.	1974.	12.78	0.0280	0.	73.	0.09
MILE	36.00	823.36	289744.	6.10	47483.	1431.	13.11	0.0280	0.	74.	0.19
MILE	34.60	823.17	288778.	4.58	63036.	2069.	14.23	0.0280	0.	75.	0.15
MILE	33.60	823.35	287642.	1.97	146053.	3760.	13.52	0.0290	0.	80.	0.06
MILE	31.50	822.89	284852.	4.69	60768.	2936.	14.68	0.0250	0.	84.	0.18
MILE	30.10	822.72	283706.	4.22	67230.	1242.	13.87	0.0200	0.	82.	0.10
MILE	29.00	822.62	283074.	4.22	67151.	1690.	15.28	0.0200	0.	83.	0.12
MILE	27.30	822.49	281981.	4.17	67608.	1602.	15.61	0.0230	0.	85.	0.11
MILE	25.20	822.39	280681.	3.56	78870.	1576.	16.53	0.0230	0.	88.	0.09
MILE	23.10	822.16	279308.	4.06	68786.	1790.	15.40	0.0230	0.	92.	0.12

0DATE 10-16-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 11.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	882.06	345833.	11.90	29050.	984.	10.25	0.0290	0.	63.	0.39
MILE	77.70	879.74	344566.	9.17	37566.	1202.	11.23	0.0400	0.	69.	0.29
MILE	75.60	872.10	342594.	10.38	33007.	2402.	10.31	0.0400	0.	66.	0.49
MILE	73.50	861.87	340422.	11.70	29084.	1800.	10.61	0.0330	0.	63.	0.51
MILE	71.40	858.90	338852.	7.78	43572.	1479.	11.10	0.0400	0.	61.	0.25
MILE	69.30	854.57	337376.	8.67	38914.	1462.	10.41	0.0340	0.	56.	0.30
MILE	67.20	852.34	334962.	5.64	59378.	3612.	9.98	0.0340	0.	62.	0.25
MILE	65.10	848.71	331071.	7.42	44620.	4267.	10.16	0.0320	0.	62.	0.40
MILE	63.00	846.98	327528.	5.03	65097.	2968.	8.47	0.0400	0.	66.	0.19
MILE	60.90	842.06	324660.	7.50	43312.	2584.	9.30	0.0450	0.	66.	0.32
MILE	58.80	834.19	322524.	7.99	40389.	1895.	8.51	0.0400	0.	61.	0.30
MILE	57.00	832.50	321038.	7.92	40513.	1993.	8.79	0.0200	0.	58.	0.31
MILE	55.00	830.14	319353.	9.12	35002.	1996.	8.75	0.0200	0.	57.	0.38
MILE	53.10	829.23	317670.	6.72	47283.	2376.	9.43	0.0200	0.	56.	0.27
MILE	51.00	827.97	315377.	6.98	45193.	3054.	9.33	0.0200	0.	59.	0.32
MILE	48.30	827.38	310292.	5.09	60931.	6240.	11.48	0.0200	0.	58.	0.29
MILE	46.20	826.81	304948.	5.62	54250.	6162.	11.52	0.0200	0.	65.	0.33
MILE	44.10	826.82	300856.	3.33	90391.	3037.	11.08	0.0300	0.	72.	0.11
MILE	43.70	825.77	300368.	8.34	36016.	2919.	13.24	0.0300	0.	73.	0.42

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 374 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	42.00	825.79	298400.	3.76	79314.	2829.	10.02	0.0300	0.	76.	0.13
MILE	39.10	824.22	295114.	6.12	48233.	2767.	12.63	0.0230	0.	73.	0.26
MILE	37.00	824.26	293108.	3.43	85488.	1982.	12.82	0.0280	0.	73.	0.09
MILE	36.00	823.63	292415.	6.12	47777.	1437.	13.14	0.0280	0.	75.	0.19
MILE	34.60	823.45	291437.	4.60	63379.	2078.	14.27	0.0280	0.	75.	0.15
MILE	33.60	823.63	290285.	1.98	146894.	3780.	13.56	0.0290	0.	81.	0.06
MILE	31.50	823.16	287460.	4.71	61095.	2952.	14.71	0.0250	0.	84.	0.18
MILE	30.10	822.99	286304.	4.24	67600.	1246.	13.90	0.0200	0.	82.	0.10
MILE	29.00	822.89	285667.	4.23	67492.	1699.	15.31	0.0200	0.	83.	0.12
MILE	27.30	822.76	284565.	4.19	67930.	1610.	15.64	0.0230	0.	86.	0.11
MILE	25.20	822.66	283256.	3.58	79201.	1583.	16.57	0.0230	0.	88.	0.09
MILE	23.10	822.43	281874.	4.08	69118.	1800.	15.43	0.0230	0.	92.	0.12

0DATE 10-16-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 12.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	882.45	350000.	11.94	29315.	987.	10.26	0.0290	0.	64.	0.39
MILE	77.70	880.12	348695.	9.20	37911.	1206.	11.25	0.0400	0.	69.	0.29
MILE	75.60	872.45	346747.	10.41	33297.	2419.	10.32	0.0400	0.	66.	0.49
MILE	73.50	862.19	344566.	11.76	29307.	1814.	10.63	0.0330	0.	63.	0.52
MILE	71.40	859.23	342976.	7.80	43989.	1488.	11.15	0.0400	0.	61.	0.25
MILE	69.30	854.89	341480.	8.70	39238.	1471.	10.44	0.0340	0.	56.	0.30
MILE	67.20	852.66	339020.	5.66	59856.	3642.	10.01	0.0340	0.	62.	0.25
MILE	65.10	849.02	335049.	7.45	44974.	4301.	10.18	0.0320	0.	62.	0.41
MILE	63.00	847.30	331435.	5.02	65980.	2981.	8.49	0.0400	0.	66.	0.19
MILE	60.90	842.40	328514.	7.47	43960.	2599.	9.25	0.0450	0.	66.	0.32
MILE	58.80	834.48	326305.	8.00	40797.	1909.	8.52	0.0400	0.	61.	0.30
MILE	57.00	832.80	324766.	7.93	40941.	2007.	8.79	0.0200	0.	58.	0.31
MILE	55.00	830.43	323016.	9.14	35324.	2012.	8.75	0.0200	0.	57.	0.38
MILE	53.10	829.51	321272.	6.74	47674.	2395.	9.45	0.0200	0.	56.	0.27
MILE	51.00	828.25	318894.	7.00	45551.	3078.	9.35	0.0200	0.	59.	0.32
MILE	48.30	827.66	313647.	5.11	61376.	6289.	11.52	0.0200	0.	59.	0.29
MILE	46.20	827.09	308151.	5.64	54658.	6207.	11.54	0.0200	0.	65.	0.33
MILE	44.10	827.10	303960.	3.34	91100.	3051.	11.09	0.0300	0.	72.	0.11
MILE	43.70	826.04	303461.	8.38	36222.	2934.	13.27	0.0300	0.	73.	0.42
MILE	42.00	826.07	301457.	3.77	80063.	2846.	10.03	0.0300	0.	76.	0.13
MILE	39.10	824.50	298115.	6.14	48556.	2784.	12.66	0.0230	0.	74.	0.26
MILE	37.00	824.54	296082.	3.44	86034.	1991.	12.86	0.0280	0.	73.	0.09
MILE	36.00	823.91	295381.	6.14	48073.	1442.	13.18	0.0280	0.	75.	0.19
MILE	34.60	823.72	294397.	4.62	63725.	2086.	14.30	0.0280	0.	75.	0.15
MILE	33.60	823.90	293233.	1.98	147741.	3801.	13.60	0.0290	0.	81.	0.06
MILE	31.50	823.43	290379.	4.73	61425.	2968.	14.74	0.0250	0.	85.	0.18
MILE	30.10	823.27	289216.	4.25	67971.	1250.	13.92	0.0200	0.	82.	0.10
MILE	29.00	823.17	288574.	4.25	67835.	1708.	15.34	0.0200	0.	83.	0.12
MILE	27.30	823.03	287465.	4.21	68253.	1617.	15.67	0.0230	0.	86.	0.11
MILE	25.20	822.93	286150.	3.60	79533.	1589.	16.60	0.0230	0.	88.	0.09

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 23.10 822.70 284760. 4.10 69451. 1809. 15.46 0.0230 0. 93. 0.12

0DATE 10-16-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 13.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	882.84	354167.	11.97	29588.	991.	10.27	0.0290	0.	64.	0.39
MILE 77.70	880.50	352864.	9.23	38250.	1210.	11.27	0.0400	0.	70.	0.29
MILE 75.60	872.82	350917.	10.45	33595.	2436.	10.34	0.0400	0.	66.	0.50
MILE 73.50	862.51	348717.	11.81	29534.	1828.	10.65	0.0330	0.	63.	0.52
MILE 71.40	859.56	347100.	7.82	44410.	1497.	11.19	0.0400	0.	62.	0.25
MILE 69.30	855.22	345577.	8.74	39555.	1480.	10.47	0.0340	0.	57.	0.30
MILE 67.20	852.98	343090.	5.69	60340.	3673.	10.04	0.0340	0.	62.	0.25
MILE 65.10	849.33	339070.	7.48	45332.	4335.	10.21	0.0320	0.	62.	0.41
MILE 63.00	847.62	335417.	5.02	66878.	2994.	8.50	0.0400	0.	67.	0.19
MILE 60.90	842.74	332469.	7.45	44625.	2615.	9.22	0.0450	0.	66.	0.32
MILE 58.80	834.78	330208.	8.01	41217.	1922.	8.53	0.0400	0.	62.	0.30
MILE 57.00	833.10	328631.	7.94	41383.	2022.	8.79	0.0200	0.	58.	0.31
MILE 55.00	830.72	326833.	9.17	35657.	2028.	8.75	0.0200	0.	57.	0.39
MILE 53.10	829.80	325041.	6.76	48076.	2414.	9.48	0.0200	0.	57.	0.27
MILE 51.00	828.53	322599.	7.03	45917.	3101.	9.38	0.0200	0.	59.	0.32
MILE 48.30	827.94	317216.	5.13	61830.	6338.	11.57	0.0200	0.	59.	0.29
MILE 46.20	827.38	311586.	5.66	55076.	6252.	11.57	0.0200	0.	66.	0.34
MILE 44.10	827.38	307300.	3.35	91828.	3065.	11.10	0.0300	0.	72.	0.11
MILE 43.70	826.32	306791.	8.42	36432.	2950.	13.31	0.0300	0.	73.	0.42
MILE 42.00	826.36	304750.	3.77	80830.	2864.	10.04	0.0300	0.	76.	0.13
MILE 39.10	824.78	301352.	6.17	48881.	2801.	12.69	0.0230	0.	74.	0.26
MILE 37.00	824.83	299292.	3.46	86585.	2000.	12.90	0.0280	0.	74.	0.09
MILE 36.00	824.19	298584.	6.17	48372.	1448.	13.21	0.0280	0.	75.	0.19
MILE 34.60	824.00	297591.	4.64	64073.	2095.	14.34	0.0280	0.	75.	0.15
MILE 33.60	824.18	296415.	1.99	148594.	3821.	13.65	0.0290	0.	81.	0.06
MILE 31.50	823.71	293534.	4.75	61756.	2984.	14.77	0.0250	0.	85.	0.18
MILE 30.10	823.54	292362.	4.28	68345.	1254.	13.95	0.0200	0.	83.	0.10
MILE 29.00	823.44	291717.	4.28	68180.	1718.	15.37	0.0200	0.	84.	0.12
MILE 27.30	823.30	290601.	4.24	68577.	1625.	15.71	0.0230	0.	86.	0.11
MILE 25.20	823.20	289279.	3.62	79865.	1596.	16.64	0.0230	0.	89.	0.09
MILE 23.10	822.97	287883.	4.13	69785.	1819.	15.49	0.0230	0.	93.	0.12

0DATE 10-16-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 14.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80 883.22 358333. 12.00 29861. 994. 10.28 0.0290 0. 65. 0.39

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 376 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	77.70	880.88	357036.	9.25	38589.	1214.	11.28	0.0400	0.	70.	0.29
MILE	75.60	873.18	355092.	10.48	33895.	2453.	10.35	0.0400	0.	67.	0.50
MILE	73.50	862.83	352881.	11.86	29763.	1842.	10.68	0.0330	0.	64.	0.52
MILE	71.40	859.89	351251.	7.83	44835.	1506.	11.23	0.0400	0.	62.	0.25
MILE	69.30	855.55	349719.	8.77	39870.	1489.	10.50	0.0340	0.	57.	0.30
MILE	67.20	853.31	347207.	5.71	60829.	3703.	10.06	0.0340	0.	63.	0.25
MILE	65.10	849.64	343150.	7.51	45692.	4369.	10.23	0.0320	0.	63.	0.41
MILE	63.00	847.94	339462.	5.01	67787.	3006.	8.51	0.0400	0.	67.	0.19
MILE	60.90	843.08	336479.	7.43	45303.	2631.	9.18	0.0450	0.	67.	0.32
MILE	58.80	835.09	334113.	8.02	41634.	1936.	8.54	0.0400	0.	62.	0.30
MILE	57.00	833.40	332540.	7.95	41836.	2037.	8.79	0.0200	0.	59.	0.31
MILE	55.00	831.01	330732.	9.19	35999.	2044.	8.75	0.0200	0.	58.	0.39
MILE	53.10	830.09	328905.	6.78	48479.	2434.	9.50	0.0200	0.	57.	0.27
MILE	51.00	828.82	326416.	7.05	46290.	3125.	9.41	0.0200	0.	60.	0.32
MILE	48.30	828.24	320929.	5.15	62293.	6388.	11.61	0.0200	0.	59.	0.29
MILE	46.20	827.67	315188.	5.68	55501.	6298.	11.59	0.0200	0.	66.	0.34
MILE	44.10	827.68	310823.	3.36	92570.	3079.	11.11	0.0300	0.	72.	0.11
MILE	43.70	826.60	310305.	8.47	36644.	2965.	13.34	0.0300	0.	74.	0.42
MILE	42.00	826.65	308234.	3.78	81612.	2883.	10.05	0.0300	0.	77.	0.13
MILE	39.10	825.06	304788.	6.19	49209.	2818.	12.73	0.0230	0.	74.	0.26
MILE	37.00	825.11	302706.	3.47	87146.	2008.	12.93	0.0280	0.	74.	0.09
MILE	36.00	824.46	301991.	6.20	48672.	1453.	13.24	0.0280	0.	75.	0.19
MILE	34.60	824.28	300991.	4.67	64422.	2103.	14.37	0.0280	0.	76.	0.15
MILE	33.60	824.46	299804.	2.01	149451.	3842.	13.69	0.0290	0.	82.	0.06
MILE	31.50	823.98	296898.	4.78	62088.	3000.	14.80	0.0250	0.	85.	0.19
MILE	30.10	823.82	295719.	4.30	68720.	1258.	13.98	0.0200	0.	83.	0.10
MILE	29.00	823.71	295069.	4.31	68525.	1727.	15.40	0.0200	0.	84.	0.12
MILE	27.30	823.58	293946.	4.27	68901.	1632.	15.74	0.0230	0.	86.	0.12
MILE	25.20	823.47	292618.	3.65	80198.	1602.	16.68	0.0230	0.	89.	0.09
MILE	23.10	823.23	291214.	4.15	70119.	1828.	15.51	0.0230	0.	93.	0.12

ODATE 10-16-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 15.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	883.61	362500.	12.03	30135.	997.	10.30	0.0290	0.	65.	0.39
MILE	77.70	881.26	361210.	9.28	38929.	1218.	11.29	0.0400	0.	71.	0.29
MILE	75.60	873.54	359270.	10.51	34195.	2470.	10.37	0.0400	0.	67.	0.50
MILE	73.50	863.15	357048.	11.90	29993.	1856.	10.70	0.0330	0.	64.	0.52
MILE	71.40	860.21	355402.	7.85	45262.	1517.	11.28	0.0400	0.	62.	0.25
MILE	69.30	855.87	353859.	8.81	40188.	1498.	10.53	0.0340	0.	57.	0.30
MILE	67.20	853.63	351317.	5.73	61321.	3734.	10.09	0.0340	0.	63.	0.25
MILE	65.10	849.95	347203.	7.54	46053.	4403.	10.26	0.0320	0.	63.	0.41
MILE	63.00	848.26	343447.	5.00	68702.	3019.	8.53	0.0400	0.	67.	0.18
MILE	60.90	843.42	340446.	7.40	45991.	2646.	9.15	0.0450	0.	67.	0.31
MILE	58.80	835.40	338028.	8.04	42028.	1950.	8.55	0.0400	0.	62.	0.31
MILE	57.00	833.71	336426.	7.95	42307.	2052.	8.80	0.0200	0.	59.	0.31

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 377 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	55.00	831.32	334585.	9.20	36356.	2061.	8.75	0.0200	0.	58.	0.39
MILE	53.10	830.39	332741.	6.81	48868.	2454.	9.52	0.0200	0.	57.	0.27
MILE	51.00	829.12	330220.	7.08	46670.	3150.	9.44	0.0200	0.	60.	0.32
MILE	48.30	828.53	324663.	5.17	62761.	6438.	11.65	0.0200	0.	60.	0.29
MILE	46.20	827.96	318854.	5.70	55932.	6344.	11.62	0.0200	0.	66.	0.34
MILE	44.10	827.97	314450.	3.37	93322.	3093.	11.13	0.0300	0.	73.	0.11
MILE	43.70	826.88	313928.	8.52	36857.	2981.	13.38	0.0300	0.	74.	0.43
MILE	42.00	826.94	311840.	3.78	82405.	2901.	10.06	0.0300	0.	77.	0.13
MILE	39.10	825.35	308364.	6.22	49539.	2835.	12.76	0.0230	0.	74.	0.26
MILE	37.00	825.39	306267.	3.49	87719.	2017.	12.97	0.0280	0.	74.	0.09
MILE	36.00	824.74	305548.	6.24	48974.	1459.	13.28	0.0280	0.	76.	0.19
MILE	34.60	824.55	304544.	4.70	64773.	2112.	14.40	0.0280	0.	76.	0.15
MILE	33.60	824.75	303349.	2.02	150313.	3863.	13.73	0.0290	0.	82.	0.06
MILE	31.50	824.26	300422.	4.81	62422.	3017.	14.83	0.0250	0.	85.	0.19
MILE	30.10	824.09	299236.	4.33	69097.	1262.	14.01	0.0200	0.	83.	0.10
MILE	29.00	823.98	298584.	4.34	68872.	1736.	15.43	0.0200	0.	84.	0.12
MILE	27.30	823.85	297455.	4.30	69227.	1640.	15.77	0.0230	0.	87.	0.12
MILE	25.20	823.74	296121.	3.68	80531.	1609.	16.71	0.0230	0.	89.	0.09
MILE	23.10	823.50	294711.	4.18	70454.	1838.	15.54	0.0230	0.	94.	0.12

0DATE 10-16-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 16.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	883.99	366667.	12.06	30409.	1001.	10.31	0.0290	0.	65.	0.39
MILE	77.70	881.63	365381.	9.30	39268.	1222.	11.30	0.0400	0.	71.	0.29
MILE	75.60	873.90	363439.	10.54	34496.	2487.	10.38	0.0400	0.	67.	0.50
MILE	73.50	863.47	361201.	11.95	30223.	1870.	10.73	0.0330	0.	64.	0.52
MILE	71.40	860.54	359537.	7.87	45689.	1529.	11.32	0.0400	0.	63.	0.25
MILE	69.30	856.20	357980.	8.84	40505.	1506.	10.55	0.0340	0.	57.	0.30
MILE	67.20	853.96	355405.	5.75	61814.	3765.	10.12	0.0340	0.	63.	0.25
MILE	65.10	850.26	351235.	7.57	46400.	4436.	10.28	0.0320	0.	63.	0.41
MILE	63.00	848.58	347485.	4.99	69627.	3032.	8.54	0.0400	0.	68.	0.18
MILE	60.90	843.76	344485.	7.38	46687.	2662.	9.12	0.0450	0.	67.	0.31
MILE	58.80	835.72	342045.	8.06	42430.	1964.	8.55	0.0400	0.	63.	0.31
MILE	57.00	834.03	340423.	7.96	42788.	2068.	8.80	0.0200	0.	59.	0.31
MILE	55.00	831.62	338556.	9.22	36720.	2078.	8.75	0.0200	0.	58.	0.39
MILE	53.10	830.69	336685.	6.83	49263.	2474.	9.54	0.0200	0.	57.	0.27
MILE	51.00	829.41	334133.	7.10	47055.	3174.	9.46	0.0200	0.	60.	0.33
MILE	48.30	828.83	328503.	5.20	63234.	6489.	11.70	0.0200	0.	60.	0.29
MILE	46.20	828.25	322624.	5.72	56368.	6391.	11.65	0.0200	0.	66.	0.34
MILE	44.10	828.26	318171.	3.38	94085.	3107.	11.14	0.0300	0.	73.	0.11
MILE	43.70	827.16	317644.	8.57	37073.	2996.	13.41	0.0300	0.	74.	0.43
MILE	42.00	827.23	315536.	3.79	83207.	2919.	10.07	0.0300	0.	77.	0.13
MILE	39.10	825.63	312029.	6.26	49870.	2852.	12.79	0.0230	0.	75.	0.26
MILE	37.00	825.68	309917.	3.51	88294.	2026.	13.01	0.0280	0.	74.	0.09
MILE	36.00	825.02	309193.	6.27	49276.	1464.	13.31	0.0280	0.	76.	0.19

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 378 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 34.60	824.83	308185.	4.73	65125.	2121.	14.44	0.0280	0.	76.	0.15
MILE 33.60	825.03	306982.	2.03	151176.	3883.	13.77	0.0290	0.	82.	0.06
MILE 31.50	824.53	304038.	4.84	62756.	3033.	14.86	0.0250	0.	86.	0.19
MILE 30.10	824.36	302848.	4.36	69474.	1266.	14.04	0.0200	0.	84.	0.10
MILE 29.00	824.26	302192.	4.37	69219.	1746.	15.46	0.0200	0.	85.	0.12
MILE 27.30	824.12	301058.	4.33	69553.	1647.	15.80	0.0230	0.	87.	0.12
MILE 25.20	824.01	299717.	3.71	80865.	1616.	16.75	0.0230	0.	90.	0.09
MILE 23.10	823.77	298301.	4.21	70790.	1848.	15.57	0.0230	0.	94.	0.12

ODATE 10-16-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 17.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	884.37	370833.	12.09	30684.	1004.	10.32	0.0290	0.	66.	0.39
MILE 77.70	882.00	369551.	9.33	39608.	1226.	11.32	0.0400	0.	71.	0.29
MILE 75.60	874.26	367610.	10.56	34797.	2504.	10.40	0.0400	0.	68.	0.50
MILE 73.50	863.79	365359.	12.00	30454.	1884.	10.75	0.0330	0.	65.	0.53
MILE 71.40	860.87	363684.	7.89	46116.	1541.	11.36	0.0400	0.	63.	0.25
MILE 69.30	856.52	362121.	8.87	40823.	1515.	10.58	0.0340	0.	58.	0.30
MILE 67.20	854.28	359533.	5.77	62308.	3796.	10.15	0.0340	0.	64.	0.25
MILE 65.10	850.57	355344.	7.60	46744.	4470.	10.30	0.0320	0.	64.	0.41
MILE 63.00	848.90	351588.	4.98	70558.	3044.	8.56	0.0400	0.	68.	0.18
MILE 60.90	844.10	348590.	7.36	47391.	2677.	9.09	0.0450	0.	68.	0.31
MILE 58.80	836.03	346133.	8.08	42839.	1979.	8.56	0.0400	0.	63.	0.31
MILE 57.00	834.35	344494.	7.96	43277.	2083.	8.81	0.0200	0.	60.	0.31
MILE 55.00	831.93	342605.	9.24	37092.	2095.	8.75	0.0200	0.	58.	0.39
MILE 53.10	830.99	340709.	6.86	49664.	2494.	9.56	0.0200	0.	58.	0.27
MILE 51.00	829.71	338124.	7.13	47444.	3199.	9.49	0.0200	0.	60.	0.33
MILE 48.30	829.12	332426.	5.22	63711.	6541.	11.74	0.0200	0.	60.	0.29
MILE 46.20	828.55	326479.	5.75	56809.	6438.	11.67	0.0200	0.	67.	0.34
MILE 44.10	828.56	321979.	3.39	94858.	3122.	11.15	0.0300	0.	73.	0.11
MILE 43.70	827.44	321448.	8.62	37290.	3012.	13.45	0.0300	0.	74.	0.43
MILE 42.00	827.53	319320.	3.80	84021.	2938.	10.08	0.0300	0.	78.	0.13
MILE 39.10	825.91	315779.	6.29	50204.	2870.	12.82	0.0230	0.	75.	0.27
MILE 37.00	825.97	313650.	3.53	88873.	2034.	13.04	0.0280	0.	75.	0.09
MILE 36.00	825.30	312923.	6.31	49580.	1470.	13.34	0.0280	0.	76.	0.19
MILE 34.60	825.11	311910.	4.76	65479.	2130.	14.47	0.0280	0.	77.	0.15
MILE 33.60	825.31	310700.	2.04	152042.	3904.	13.81	0.0290	0.	82.	0.06
MILE 31.50	824.81	307739.	4.88	63092.	3049.	14.89	0.0250	0.	86.	0.19
MILE 30.10	824.64	306544.	4.39	69853.	1270.	14.07	0.0200	0.	84.	0.10
MILE 29.00	824.53	305886.	4.40	69568.	1755.	15.49	0.0200	0.	85.	0.12
MILE 27.30	824.39	304747.	4.36	69880.	1655.	15.83	0.0230	0.	87.	0.12
MILE 25.20	824.28	303403.	3.74	81199.	1622.	16.79	0.0230	0.	90.	0.09
MILE 23.10	824.04	301982.	4.25	71126.	1857.	15.60	0.0230	0.	94.	0.12

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 379 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

0DATE 10-16-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 18.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL
	INFLOW DEPTH	FROUDE							
MILE 79.80	884.74	375000.	12.11	30959.	1007.	10.34	0.0290	0.	66. 0.39
MILE 77.70	882.37	373724.	9.36	39948.	1230.	11.33	0.0400	0.	72. 0.29
MILE 75.60	874.61	371788.	10.59	35099.	2521.	10.41	0.0400	0.	68. 0.50
MILE 73.50	864.11	369531.	12.04	30684.	1897.	10.77	0.0330	0.	65. 0.53
MILE 71.40	861.19	367850.	7.90	46543.	1552.	11.40	0.0400	0.	63. 0.25
MILE 69.30	856.85	366285.	8.90	41141.	1524.	10.61	0.0340	0.	58. 0.30
MILE 67.20	854.60	363691.	5.79	62801.	3826.	10.18	0.0340	0.	64. 0.25
MILE 65.10	850.87	359493.	7.63	47087.	4504.	10.32	0.0320	0.	64. 0.42
MILE 63.00	849.22	355739.	4.98	71493.	3057.	8.57	0.0400	0.	68. 0.18
MILE 60.90	844.43	352751.	7.33	48101.	2693.	9.07	0.0450	0.	68. 0.31
MILE 58.80	836.35	350280.	8.10	43253.	1993.	8.57	0.0400	0.	63. 0.31
MILE 57.00	834.67	348625.	7.96	43773.	2099.	8.81	0.0200	0.	60. 0.31
MILE 55.00	832.24	346715.	9.25	37470.	2112.	8.75	0.0200	0.	59. 0.39
MILE 53.10	831.29	344797.	6.89	50069.	2515.	9.58	0.0200	0.	58. 0.27
MILE 51.00	830.01	342176.	7.15	47837.	3224.	9.52	0.0200	0.	61. 0.33
MILE 48.30	829.42	336417.	5.24	64191.	6592.	11.79	0.0200	0.	61. 0.30
MILE 46.20	828.85	330405.	5.77	57253.	6485.	11.70	0.0200	0.	67. 0.34
MILE 44.10	828.86	325863.	3.41	95639.	3136.	11.17	0.0300	0.	74. 0.11
MILE 43.70	827.73	325327.	8.67	37508.	3028.	13.48	0.0300	0.	75. 0.43
MILE 42.00	827.82	323183.	3.81	84844.	2956.	10.09	0.0300	0.	78. 0.13
MILE 39.10	826.20	319614.	6.32	50540.	2887.	12.85	0.0230	0.	75. 0.27
MILE 37.00	826.25	317472.	3.55	89455.	2043.	13.08	0.0280	0.	75. 0.09
MILE 36.00	825.58	316741.	6.35	49886.	1476.	13.38	0.0280	0.	77. 0.19
MILE 34.60	825.39	315725.	4.80	65833.	2138.	14.51	0.0280	0.	77. 0.15
MILE 33.60	825.59	314507.	2.06	152911.	3925.	13.85	0.0290	0.	83. 0.06
MILE 31.50	825.09	311530.	4.91	63429.	3065.	14.92	0.0250	0.	86. 0.19
MILE 30.10	824.91	310329.	4.42	70234.	1274.	14.09	0.0200	0.	84. 0.10
MILE 29.00	824.80	309669.	4.43	69917.	1764.	15.52	0.0200	0.	85. 0.12
MILE 27.30	824.66	308525.	4.39	70207.	1662.	15.87	0.0230	0.	88. 0.12
MILE 25.20	824.55	307175.	3.77	81533.	1629.	16.82	0.0230	0.	90. 0.09
MILE 23.10	824.30	305749.	4.28	71462.	1867.	15.63	0.0230	0.	94. 0.12

0DATE 10-16-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 19.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL
	INFLOW DEPTH	FROUDE							
MILE 79.80	885.12	379167.	12.14	31235.	1011.	10.35	0.0290	0.	66. 0.38
MILE 77.70	882.74	377899.	9.38	40288.	1234.	11.35	0.0400	0.	72. 0.29
MILE 75.60	874.96	375969.	10.62	35401.	2537.	10.43	0.0400	0.	68. 0.50
MILE 73.50	864.42	373711.	12.09	30915.	1911.	10.80	0.0330	0.	65. 0.53
MILE 71.40	861.52	372027.	7.92	46968.	1564.	11.44	0.0400	0.	64. 0.25

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 380 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	69.30	857.17	370464.	8.94	41458.	1533.	10.64	0.0340	0.	58.	0.30
MILE	67.20	854.92	367869.	5.81	63294.	3856.	10.20	0.0340	0.	64.	0.25
MILE	65.10	851.18	363670.	7.67	47430.	4537.	10.35	0.0320	0.	64.	0.42
MILE	63.00	849.53	359925.	4.97	72431.	3069.	8.59	0.0400	0.	69.	0.18
MILE	60.90	844.76	356949.	7.31	48815.	2708.	9.04	0.0450	0.	68.	0.30
MILE	58.80	836.67	354466.	8.12	43671.	2007.	8.57	0.0400	0.	64.	0.31
MILE	57.00	834.99	352795.	7.97	44276.	2114.	8.82	0.0200	0.	60.	0.31
MILE	55.00	832.56	350864.	9.27	37853.	2130.	8.76	0.0200	0.	59.	0.39
MILE	53.10	831.60	348918.	6.91	50479.	2535.	9.60	0.0200	0.	58.	0.27
MILE	51.00	830.31	346267.	7.18	48217.	3249.	9.55	0.0200	0.	61.	0.33
MILE	48.30	829.73	340451.	5.26	64673.	6644.	11.83	0.0200	0.	61.	0.30
MILE	46.20	829.15	334386.	5.80	57702.	6533.	11.73	0.0200	0.	67.	0.34
MILE	44.10	829.16	329809.	3.42	96428.	3151.	11.18	0.0300	0.	74.	0.11
MILE	43.70	828.01	329270.	8.73	37726.	3043.	13.52	0.0300	0.	75.	0.44
MILE	42.00	828.12	327113.	3.82	85676.	2975.	10.10	0.0300	0.	78.	0.13
MILE	39.10	826.49	323519.	6.36	50877.	2905.	12.89	0.0230	0.	75.	0.27
MILE	37.00	826.54	321364.	3.57	90038.	2052.	13.11	0.0280	0.	75.	0.09
MILE	36.00	825.86	320630.	6.39	50192.	1481.	13.41	0.0280	0.	77.	0.19
MILE	34.60	825.67	319609.	4.83	66189.	2147.	14.54	0.0280	0.	77.	0.15
MILE	33.60	825.87	318384.	2.07	153783.	3946.	13.89	0.0290	0.	83.	0.06
MILE	31.50	825.36	315390.	4.95	63767.	3081.	14.95	0.0250	0.	87.	0.19
MILE	30.10	825.19	314184.	4.45	70615.	1278.	14.12	0.0200	0.	84.	0.11
MILE	29.00	825.08	313521.	4.46	70267.	1774.	15.55	0.0200	0.	85.	0.12
MILE	27.30	824.93	312372.	4.43	70535.	1670.	15.90	0.0230	0.	88.	0.12
MILE	25.20	824.82	311017.	3.80	81868.	1635.	16.86	0.0230	0.	90.	0.09
MILE	23.10	824.57	309584.	4.31	71800.	1876.	15.65	0.0230	0.	95.	0.12

0DATE 10-16-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 20.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	885.48	383333.	12.17	31510.	1014.	10.36	0.0290	0.	67.	0.38
MILE	77.70	883.10	382073.	9.40	40627.	1238.	11.36	0.0400	0.	72.	0.29
MILE	75.60	875.31	380151.	10.65	35702.	2554.	10.44	0.0400	0.	69.	0.50
MILE	73.50	864.74	377892.	12.13	31145.	1925.	10.82	0.0330	0.	66.	0.53
MILE	71.40	861.84	376204.	7.94	47393.	1576.	11.49	0.0400	0.	64.	0.26
MILE	69.30	857.49	374641.	8.97	41774.	1541.	10.66	0.0340	0.	59.	0.30
MILE	67.20	855.24	372040.	5.83	63772.	3887.	10.23	0.0340	0.	65.	0.25
MILE	65.10	851.48	367850.	7.70	47772.	4570.	10.37	0.0320	0.	64.	0.42
MILE	63.00	849.84	364114.	4.96	73370.	3082.	8.60	0.0400	0.	69.	0.18
MILE	60.90	845.09	361157.	7.30	49499.	2723.	9.03	0.0450	0.	69.	0.30
MILE	58.80	836.99	358645.	8.13	44101.	2022.	8.58	0.0400	0.	64.	0.31
MILE	57.00	835.30	356948.	7.98	44728.	2130.	8.82	0.0200	0.	61.	0.31
MILE	55.00	832.87	355006.	9.28	38241.	2147.	8.76	0.0200	0.	59.	0.39
MILE	53.10	831.90	353048.	6.94	50891.	2556.	9.62	0.0200	0.	59.	0.27
MILE	51.00	830.61	350375.	7.21	48599.	3274.	9.58	0.0200	0.	61.	0.33
MILE	48.30	830.03	344509.	5.29	65158.	6696.	11.87	0.0200	0.	61.	0.30

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 381 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	46.20	829.45	338404.	5.82	58152.	6580.	11.75	0.0200	0.	68.	0.34
MILE	44.10	829.46	333805.	3.43	97224.	3165.	11.19	0.0300	0.	74.	0.11
MILE	43.70	828.30	333264.	8.78	37946.	3059.	13.55	0.0300	0.	75.	0.44
MILE	42.00	828.42	331095.	3.83	86516.	2994.	10.12	0.0300	0.	78.	0.13
MILE	39.10	826.77	327478.	6.39	51215.	2922.	12.92	0.0230	0.	76.	0.27
MILE	37.00	826.83	325312.	3.59	90625.	2061.	13.15	0.0280	0.	76.	0.10
MILE	36.00	826.14	324574.	6.43	50500.	1487.	13.44	0.0280	0.	77.	0.19
MILE	34.60	825.95	323549.	4.86	66546.	2156.	14.57	0.0280	0.	77.	0.15
MILE	33.60	826.16	322317.	2.08	154656.	3967.	13.94	0.0290	0.	83.	0.06
MILE	31.50	825.64	319306.	4.98	64105.	3098.	14.98	0.0250	0.	87.	0.19
MILE	30.10	825.46	318094.	4.48	70997.	1282.	14.15	0.0200	0.	85.	0.11
MILE	29.00	825.35	317429.	4.50	70618.	1783.	15.58	0.0200	0.	86.	0.13
MILE	27.30	825.21	316274.	4.46	70864.	1677.	15.93	0.0230	0.	88.	0.12
MILE	25.20	825.10	314915.	3.83	82203.	1642.	16.89	0.0230	0.	91.	0.10
MILE	23.10	824.84	313477.	4.35	72138.	1886.	15.68	0.0230	0.	95.	0.12

ODATE 10-16-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	21.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL	
INFLOW	DEPTH	FROUDE									
MILE	79.80	885.85	387500.	12.19	31784.	1017.	10.38	0.0290	0.	67.	0.38
MILE	77.70	883.46	386249.	9.43	40965.	1242.	11.37	0.0400	0.	73.	0.29
MILE	75.60	875.66	384335.	10.67	36004.	2570.	10.46	0.0400	0.	69.	0.50
MILE	73.50	865.05	382065.	12.18	31374.	1938.	10.84	0.0330	0.	66.	0.53
MILE	71.40	862.16	380389.	7.95	47818.	1588.	11.53	0.0400	0.	64.	0.26
MILE	69.30	857.80	378828.	9.00	42089.	1550.	10.69	0.0340	0.	59.	0.30
MILE	67.20	855.55	376222.	5.86	64244.	3916.	10.26	0.0340	0.	65.	0.25
MILE	65.10	851.78	372021.	7.73	48114.	4602.	10.39	0.0320	0.	65.	0.42
MILE	63.00	850.15	368281.	4.96	74249.	3094.	8.62	0.0400	0.	69.	0.18
MILE	60.90	845.41	365376.	7.29	50091.	2738.	9.04	0.0450	0.	69.	0.30
MILE	58.80	837.31	362878.	8.15	44534.	2036.	8.59	0.0400	0.	64.	0.31
MILE	57.00	835.62	361172.	7.99	45184.	2145.	8.82	0.0200	0.	61.	0.31
MILE	55.00	833.18	359217.	9.30	38634.	2164.	8.76	0.0200	0.	60.	0.39
MILE	53.10	832.21	357241.	6.96	51307.	2576.	9.64	0.0200	0.	59.	0.27
MILE	51.00	830.91	354545.	7.24	48983.	3299.	9.60	0.0200	0.	62.	0.33
MILE	48.30	830.33	348634.	5.31	65640.	6748.	11.92	0.0200	0.	61.	0.30
MILE	46.20	829.75	342476.	5.84	58605.	6628.	11.78	0.0200	0.	68.	0.35
MILE	44.10	829.76	337836.	3.45	98025.	3180.	11.21	0.0300	0.	75.	0.11
MILE	43.70	828.59	337291.	8.84	38166.	3075.	13.59	0.0300	0.	76.	0.44
MILE	42.00	828.71	335107.	3.84	87362.	3012.	10.13	0.0300	0.	79.	0.13
MILE	39.10	827.06	331466.	6.43	51554.	2940.	12.95	0.0230	0.	76.	0.27
MILE	37.00	827.12	329291.	3.61	91212.	2069.	13.19	0.0280	0.	76.	0.10
MILE	36.00	826.43	328551.	6.47	50808.	1493.	13.47	0.0280	0.	77.	0.20
MILE	34.60	826.23	327523.	4.90	66903.	2165.	14.60	0.0280	0.	78.	0.16
MILE	33.60	826.44	326286.	2.10	155530.	3988.	13.98	0.0290	0.	84.	0.06
MILE	31.50	825.92	323263.	5.02	64445.	3114.	15.01	0.0250	0.	87.	0.19
MILE	30.10	825.74	322047.	4.51	71380.	1287.	14.18	0.0200	0.	85.	0.11

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	29.00	825.63	321378.	4.53	70969.	1792.	15.61	0.0200	0.	86.	0.13
MILE	27.30	825.48	320219.	4.50	71193.	1685.	15.96	0.0230	0.	88.	0.12
MILE	25.20	825.37	318853.	3.86	82538.	1648.	16.93	0.0230	0.	91.	0.10
MILE	23.10	825.11	317409.	4.38	72476.	1895.	15.71	0.0230	0.	95.	0.12

0DATE 10-16-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 22.0000 INFLOW DEPTH ELEVATION FROUDE DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL

MILE	79.80	886.21	391667.	12.22	32059.	1020.	10.39	0.0290	0.	68.	0.38
MILE	77.70	883.81	390417.	9.45	41304.	1246.	11.39	0.0400	0.	73.	0.29
MILE	75.60	876.00	388500.	10.70	36306.	2586.	10.48	0.0400	0.	69.	0.50
MILE	73.50	865.36	386218.	12.22	31598.	1952.	10.86	0.0330	0.	66.	0.54
MILE	71.40	862.48	384540.	7.97	48242.	1599.	11.57	0.0400	0.	65.	0.26
MILE	69.30	858.12	382982.	9.03	42404.	1558.	10.72	0.0340	0.	59.	0.31
MILE	67.20	855.87	380387.	5.88	64715.	3946.	10.28	0.0340	0.	65.	0.26
MILE	65.10	852.07	376200.	7.76	48455.	4635.	10.41	0.0320	0.	65.	0.42
MILE	63.00	850.46	372474.	4.96	75067.	3106.	8.64	0.0400	0.	69.	0.18
MILE	60.90	845.74	369583.	7.29	50688.	2753.	9.05	0.0450	0.	69.	0.30
MILE	58.80	837.62	367103.	8.16	44966.	2051.	8.60	0.0400	0.	65.	0.31
MILE	57.00	835.93	365387.	8.01	45640.	2161.	8.81	0.0200	0.	61.	0.31
MILE	55.00	833.49	363421.	9.31	39028.	2181.	8.77	0.0200	0.	60.	0.39
MILE	53.10	832.51	361429.	6.99	51724.	2597.	9.66	0.0200	0.	59.	0.28
MILE	51.00	831.21	358715.	7.27	49369.	3324.	9.63	0.0200	0.	62.	0.33
MILE	48.30	830.63	352761.	5.33	66122.	6799.	11.96	0.0200	0.	62.	0.30
MILE	46.20	830.05	346552.	5.87	59058.	6675.	11.80	0.0200	0.	68.	0.35
MILE	44.10	830.06	341896.	3.46	98821.	3194.	11.22	0.0300	0.	75.	0.11
MILE	43.70	828.87	341351.	8.89	38386.	3091.	13.62	0.0300	0.	76.	0.44
MILE	42.00	829.01	339160.	3.84	88214.	3031.	10.14	0.0300	0.	79.	0.13
MILE	39.10	827.35	335501.	6.47	51895.	2957.	12.98	0.0230	0.	76.	0.27
MILE	37.00	827.41	333314.	3.63	91801.	2078.	13.22	0.0280	0.	76.	0.10
MILE	36.00	826.71	332571.	6.51	51117.	1498.	13.50	0.0280	0.	78.	0.20
MILE	34.60	826.51	331538.	4.93	67261.	2173.	14.64	0.0280	0.	78.	0.16
MILE	33.60	826.72	330293.	2.11	156405.	4009.	14.02	0.0290	0.	84.	0.06
MILE	31.50	826.20	327251.	5.05	64785.	3130.	15.04	0.0250	0.	87.	0.20
MILE	30.10	826.02	326028.	4.54	71764.	1291.	14.21	0.0200	0.	85.	0.11
MILE	29.00	825.90	325357.	4.56	71321.	1802.	15.64	0.0200	0.	86.	0.13
MILE	27.30	825.75	324192.	4.53	71523.	1692.	15.99	0.0230	0.	89.	0.12
MILE	25.20	825.64	322820.	3.90	82874.	1655.	16.97	0.0230	0.	91.	0.10
MILE	23.10	825.37	321369.	4.41	72815.	1905.	15.74	0.0230	0.	95.	0.13

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Appendix E		Checked	ACM

TIME 23.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	886.57	395833.	12.24	32334.	1023.	10.40	0.0290	0.	68.	0.38
MILE 77.70	884.17	394593.	9.48	41642.	1250.	11.40	0.0400	0.	73.	0.29
MILE 75.60	876.34	392685.	10.73	36608.	2602.	10.49	0.0400	0.	70.	0.50
MILE 73.50	865.67	390407.	12.27	31823.	1966.	10.88	0.0330	0.	66.	0.54
MILE 71.40	862.80	388731.	7.99	48667.	1611.	11.61	0.0400	0.	65.	0.26
MILE 69.30	858.43	387173.	9.06	42720.	1567.	10.75	0.0340	0.	60.	0.31
MILE 67.20	856.18	384579.	5.90	65187.	3976.	10.31	0.0340	0.	65.	0.26
MILE 65.10	852.37	380394.	7.80	48799.	4668.	10.43	0.0320	0.	65.	0.42
MILE 63.00	850.77	376686.	4.96	75882.	3118.	8.66	0.0400	0.	70.	0.18
MILE 60.90	846.06	373806.	7.29	51286.	2767.	9.06	0.0450	0.	70.	0.30
MILE 58.80	837.94	371329.	8.18	45399.	2065.	8.61	0.0400	0.	65.	0.31
MILE 57.00	836.24	369607.	8.02	46099.	2176.	8.81	0.0200	0.	61.	0.31
MILE 55.00	833.80	367631.	9.32	39425.	2198.	8.77	0.0200	0.	60.	0.39
MILE 53.10	832.81	365624.	7.01	52142.	2617.	9.68	0.0200	0.	60.	0.28
MILE 51.00	831.51	362889.	7.29	49755.	3349.	9.66	0.0200	0.	62.	0.33
MILE 48.30	830.93	356893.	5.36	66605.	6851.	12.00	0.0200	0.	62.	0.30
MILE 46.20	830.34	350647.	5.89	59502.	6723.	11.83	0.0200	0.	69.	0.35
MILE 44.10	830.36	345961.	3.47	99587.	3208.	11.23	0.0300	0.	75.	0.11
MILE 43.70	829.16	345412.	8.95	38606.	3107.	13.66	0.0300	0.	76.	0.45
MILE 42.00	829.31	343210.	3.85	89072.	3050.	10.16	0.0300	0.	79.	0.13
MILE 39.10	827.63	339531.	6.50	52235.	2974.	13.01	0.0230	0.	77.	0.27
MILE 37.00	827.70	337334.	3.65	92391.	2087.	13.26	0.0280	0.	76.	0.10
MILE 36.00	826.99	336590.	6.55	51426.	1504.	13.54	0.0280	0.	78.	0.20
MILE 34.60	826.79	335555.	4.96	67620.	2182.	14.67	0.0280	0.	78.	0.16
MILE 33.60	827.01	334305.	2.13	157281.	4029.	14.06	0.0290	0.	84.	0.06
MILE 31.50	826.47	331253.	5.09	65125.	3146.	15.07	0.0250	0.	88.	0.20
MILE 30.10	826.29	330026.	4.57	72149.	1295.	14.24	0.0200	0.	85.	0.11
MILE 29.00	826.17	329353.	4.60	71674.	1811.	15.67	0.0200	0.	86.	0.13
MILE 27.30	826.02	328183.	4.57	71853.	1700.	16.03	0.0230	0.	89.	0.12
MILE 25.20	825.91	326807.	3.93	83209.	1662.	17.00	0.0230	0.	91.	0.10
MILE 23.10	825.64	325350.	4.45	73155.	1914.	15.77	0.0230	0.	96.	0.13

ODATE 10-17-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 0.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	886.93	400000.	12.27	32607.	1026.	10.42	0.0290	0.	68.	0.38
MILE 77.70	884.52	398773.	9.50	41980.	1253.	11.42	0.0400	0.	74.	0.29
MILE 75.60	876.68	396870.	10.75	36910.	2618.	10.51	0.0400	0.	70.	0.50
MILE 73.50	865.98	394602.	12.31	32048.	1980.	10.91	0.0330	0.	67.	0.54
MILE 71.40	863.12	392930.	8.00	49092.	1622.	11.65	0.0400	0.	65.	0.26
MILE 69.30	858.75	391376.	9.09	43036.	1575.	10.77	0.0340	0.	60.	0.31
MILE 67.20	856.49	388786.	5.92	65660.	4005.	10.33	0.0340	0.	66.	0.26
MILE 65.10	852.67	384607.	7.83	49142.	4700.	10.46	0.0320	0.	66.	0.43

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	63.00	851.07	380912.	4.97	76697.	3130.	8.68	0.0400	0.	70.	0.18
MILE	60.90	846.37	378043.	7.29	51884.	2782.	9.06	0.0450	0.	70.	0.30
MILE	58.80	838.25	375569.	8.19	45833.	2079.	8.62	0.0400	0.	65.	0.31
MILE	57.00	836.55	373842.	8.03	46561.	2191.	8.81	0.0200	0.	62.	0.31
MILE	55.00	834.11	371855.	9.34	39825.	2216.	8.78	0.0200	0.	61.	0.39
MILE	53.10	833.12	369835.	7.04	52561.	2637.	9.70	0.0200	0.	60.	0.28
MILE	51.00	831.81	367082.	7.32	50142.	3374.	9.69	0.0200	0.	63.	0.33
MILE	48.30	831.23	361045.	5.38	67086.	6902.	12.04	0.0200	0.	62.	0.30
MILE	46.20	830.64	354760.	5.92	59946.	6770.	11.85	0.0200	0.	69.	0.35
MILE	44.10	830.66	350049.	3.49	100355.	3223.	11.24	0.0300	0.	75.	0.11
MILE	43.70	829.44	349498.	9.00	88826.	3122.	13.69	0.0300	0.	76.	0.45
MILE	42.00	829.60	347284.	3.86	89933.	3068.	10.17	0.0300	0.	80.	0.13
MILE	39.10	827.92	343584.	6.53	52577.	2992.	13.04	0.0230	0.	77.	0.27
MILE	37.00	827.99	341376.	3.67	92981.	2096.	13.29	0.0280	0.	77.	0.10
MILE	36.00	827.27	340628.	6.58	51736.	1509.	13.57	0.0280	0.	78.	0.20
MILE	34.60	827.07	339588.	5.00	67978.	2191.	14.70	0.0280	0.	79.	0.16
MILE	33.60	827.29	338331.	2.14	158157.	4050.	14.10	0.0290	0.	84.	0.06
MILE	31.50	826.75	335260.	5.12	65467.	3163.	15.10	0.0250	0.	88.	0.20
MILE	30.10	826.57	334027.	4.61	72535.	1299.	14.26	0.0200	0.	86.	0.11
MILE	29.00	826.45	333350.	4.63	72027.	1821.	15.70	0.0200	0.	87.	0.13
MILE	27.30	826.29	332174.	4.60	72183.	1707.	16.06	0.0230	0.	89.	0.12
MILE	25.20	826.18	330792.	3.96	83545.	1668.	17.04	0.0230	0.	92.	0.10
MILE	23.10	825.91	329328.	4.48	73495.	1924.	15.79	0.0230	0.	96.	0.13

0DATE 10-17-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME	1.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL
	INFLOW	DEPTH	FROUDE								
MILE	79.80	887.11	400000.	12.21	32747.	1028.	10.42	0.0290	0.	68.	0.38
MILE	77.70	884.72	399577.	9.47	42173.	1255.	11.42	0.0400	0.	74.	0.29
MILE	75.60	876.92	398754.	10.74	37126.	2629.	10.52	0.0400	0.	70.	0.50
MILE	73.50	866.24	397399.	12.33	32242.	1992.	10.92	0.0330	0.	67.	0.54
MILE	71.40	863.40	396151.	8.01	49476.	1633.	11.68	0.0400	0.	66.	0.26
MILE	69.30	859.04	394881.	9.11	43336.	1583.	10.80	0.0340	0.	60.	0.31
MILE	67.20	856.79	392541.	5.94	66119.	4033.	10.36	0.0340	0.	66.	0.26
MILE	65.10	852.96	388645.	7.85	49481.	4732.	10.48	0.0320	0.	66.	0.43
MILE	63.00	851.37	385081.	4.97	77510.	3142.	8.70	0.0400	0.	70.	0.18
MILE	60.90	846.69	382283.	7.28	52483.	2796.	9.07	0.0450	0.	70.	0.30
MILE	58.80	838.56	379830.	8.21	46273.	2093.	8.63	0.0400	0.	65.	0.31
MILE	57.00	836.86	378094.	8.04	47031.	2206.	8.82	0.0200	0.	62.	0.31
MILE	55.00	834.41	376106.	9.35	40224.	2232.	8.79	0.0200	0.	61.	0.39
MILE	53.10	833.42	374063.	7.06	52979.	2658.	9.72	0.0200	0.	60.	0.28
MILE	51.00	832.11	371283.	7.35	50529.	3398.	9.71	0.0200	0.	63.	0.34
MILE	48.30	831.53	365196.	5.40	67568.	6954.	12.08	0.0200	0.	63.	0.31
MILE	46.20	830.94	358882.	5.94	60392.	6817.	11.87	0.0200	0.	69.	0.35
MILE	44.10	830.96	354196.	3.50	101125.	3237.	11.25	0.0300	0.	76.	0.11
MILE	43.70	829.73	353664.	9.06	39044.	3138.	13.73	0.0300	0.	77.	0.45

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	42.00	829.89	351709.	3.87	90784.	3086.	10.18	0.0300	0.	80.	0.13
MILE	39.10	828.17	349120.	6.60	52883.	3008.	13.07	0.0230	0.	77.	0.28
MILE	37.00	828.22	348361.	3.73	93473.	2103.	13.32	0.0280	0.	77.	0.10
MILE	36.00	827.48	348121.	6.70	51966.	1514.	13.59	0.0280	0.	78.	0.20
MILE	34.60	827.26	347925.	5.10	68219.	2197.	14.72	0.0280	0.	79.	0.16
MILE	33.60	827.48	347620.	2.19	158752.	4064.	14.13	0.0290	0.	85.	0.06
MILE	31.50	826.90	346907.	5.28	65649.	3171.	15.11	0.0250	0.	88.	0.20
MILE	30.10	826.69	346747.	4.77	72707.	1301.	14.28	0.0200	0.	86.	0.11
MILE	29.00	826.55	346738.	4.80	72163.	1824.	15.71	0.0200	0.	87.	0.13
MILE	27.30	826.37	346907.	4.80	72274.	1709.	16.07	0.0230	0.	89.	0.13
MILE	25.20	826.22	347091.	4.15	83601.	1669.	17.04	0.0230	0.	92.	0.10
MILE	23.10	825.91	347050.	4.72	73496.	1924.	15.79	0.0230	0.	96.	0.13

0DATE 10-17-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 2.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
	INFLOW DEPTH	FROUDE									
MILE	79.80	887.19	400000.	12.19	32815.	1029.	10.43	0.0290	0.	68.	0.38
MILE	77.70	884.81	399754.	9.46	42266.	1257.	11.43	0.0400	0.	74.	0.29
MILE	75.60	877.05	399263.	10.72	37239.	2635.	10.53	0.0400	0.	71.	0.50
MILE	73.50	866.42	398376.	12.31	32373.	2000.	10.94	0.0330	0.	67.	0.54
MILE	71.40	863.61	397470.	7.99	49749.	1640.	11.71	0.0400	0.	66.	0.26
MILE	69.30	859.28	396504.	9.10	43574.	1589.	10.82	0.0340	0.	61.	0.31
MILE	67.20	857.04	394623.	5.93	66502.	4057.	10.38	0.0340	0.	66.	0.26
MILE	65.10	853.22	391427.	7.86	49784.	4760.	10.50	0.0320	0.	66.	0.43
MILE	63.00	851.64	388415.	4.96	78249.	3153.	8.72	0.0400	0.	71.	0.18
MILE	60.90	846.98	386004.	7.28	53048.	2810.	9.08	0.0450	0.	70.	0.30
MILE	58.80	838.86	383778.	8.22	46705.	2107.	8.64	0.0400	0.	66.	0.31
MILE	57.00	837.17	382117.	8.04	47499.	2221.	8.82	0.0200	0.	62.	0.31
MILE	55.00	834.71	380216.	9.36	40620.	2249.	8.79	0.0200	0.	61.	0.39
MILE	53.10	833.71	378322.	7.09	53389.	2677.	9.74	0.0200	0.	60.	0.28
MILE	51.00	832.39	375898.	7.39	50897.	3422.	9.74	0.0200	0.	63.	0.34
MILE	48.30	831.80	371232.	5.46	68000.	7000.	12.12	0.0200	0.	63.	0.31
MILE	46.20	831.18	366563.	6.03	60758.	6855.	11.89	0.0200	0.	69.	0.36
MILE	44.10	831.19	363261.	3.57	101735.	3249.	11.26	0.0300	0.	76.	0.11
MILE	43.70	829.90	362898.	9.26	39181.	3148.	13.75	0.0300	0.	77.	0.46
MILE	42.00	830.08	361779.	3.96	91306.	3098.	10.19	0.0300	0.	80.	0.13
MILE	39.10	828.26	360222.	6.80	52986.	3013.	13.08	0.0230	0.	77.	0.29
MILE	37.00	828.32	359513.	3.84	93672.	2106.	13.33	0.0280	0.	77.	0.10
MILE	36.00	827.53	359293.	6.91	52025.	1515.	13.60	0.0280	0.	79.	0.21
MILE	34.60	827.30	359132.	5.26	68276.	2198.	14.73	0.0280	0.	79.	0.17
MILE	33.60	827.54	358917.	2.26	158940.	4069.	14.14	0.0290	0.	85.	0.06
MILE	31.50	826.92	358470.	5.46	65683.	3173.	15.12	0.0250	0.	88.	0.21
MILE	30.10	826.71	358450.	4.93	72731.	1301.	14.28	0.0200	0.	86.	0.12
MILE	29.00	826.56	358416.	4.97	72177.	1825.	15.71	0.0200	0.	87.	0.14
MILE	27.30	826.38	358319.	4.96	72285.	1710.	16.07	0.0230	0.	89.	0.13
MILE	25.20	826.23	358251.	4.28	83615.	1669.	17.05	0.0230	0.	92.	0.11

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 386 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 23.10 825.91 358162. 4.87 73496. 1924. 15.79 0.0230 0. 96. 0.14

0DATE 10-17-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	3.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL
INFLOW	DEPTH	FROUDE								
MILE	79.80	887.25	400000.	12.17	32858.	1029.	10.43	0.0290	0.	69. 0.38
MILE	77.70	884.88	399829.	9.45	42325.	1257.	11.43	0.0400	0.	74. 0.29
MILE	75.60	877.13	399482.	10.71	37313.	2639.	10.53	0.0400	0.	71. 0.50
MILE	73.50	866.55	398830.	12.28	32468.	2006.	10.94	0.0330	0.	67. 0.54
MILE	71.40	863.76	398135.	7.97	49952.	1646.	11.73	0.0400	0.	66. 0.25
MILE	69.30	859.46	397382.	9.08	43758.	1594.	10.83	0.0340	0.	61. 0.31
MILE	67.20	857.24	395884.	5.93	66805.	4076.	10.40	0.0340	0.	67. 0.26
MILE	65.10	853.43	393320.	7.86	50032.	4783.	10.51	0.0320	0.	66. 0.43
MILE	63.00	851.86	390881.	4.96	78861.	3161.	8.73	0.0400	0.	71. 0.17
MILE	60.90	847.22	388929.	7.27	53525.	2821.	9.09	0.0450	0.	71. 0.29
MILE	58.80	839.12	387146.	8.22	47076.	2118.	8.65	0.0400	0.	66. 0.31
MILE	57.00	837.42	385903.	8.06	47893.	2234.	8.82	0.0200	0.	63. 0.31
MILE	55.00	834.94	384510.	9.39	40935.	2262.	8.80	0.0200	0.	61. 0.39
MILE	53.10	833.93	383139.	7.13	53701.	2692.	9.76	0.0200	0.	61. 0.28
MILE	51.00	832.60	381341.	7.45	51161.	3438.	9.76	0.0200	0.	63. 0.34
MILE	48.30	831.99	377641.	5.53	68313.	7033.	12.15	0.0200	0.	63. 0.31
MILE	46.20	831.36	373898.	6.13	61029.	6884.	11.91	0.0200	0.	70. 0.36
MILE	44.10	831.38	371238.	3.63	102215.	3257.	11.27	0.0300	0.	76. 0.11
MILE	43.70	830.04	370941.	9.44	39285.	3155.	13.76	0.0300	0.	77. 0.47
MILE	42.00	830.23	369948.	4.03	91727.	3107.	10.20	0.0300	0.	80. 0.13
MILE	39.10	828.34	368518.	6.94	53088.	3018.	13.09	0.0230	0.	77. 0.29
MILE	37.00	828.41	367896.	3.92	93863.	2109.	13.35	0.0280	0.	77. 0.10
MILE	36.00	827.59	367710.	7.06	52091.	1516.	13.60	0.0280	0.	79. 0.21
MILE	34.60	827.35	367560.	5.38	68343.	2200.	14.74	0.0280	0.	79. 0.17
MILE	33.60	827.61	367334.	2.31	159140.	4074.	14.15	0.0290	0.	85. 0.07
MILE	31.50	826.96	366789.	5.58	65732.	3175.	15.12	0.0250	0.	88. 0.22
MILE	30.10	826.74	366671.	5.04	72778.	1301.	14.28	0.0200	0.	86. 0.12
MILE	29.00	826.59	366625.	5.08	72214.	1825.	15.72	0.0200	0.	87. 0.14
MILE	27.30	826.40	366583.	5.07	72311.	1710.	16.07	0.0230	0.	89. 0.14
MILE	25.20	826.25	366537.	4.38	83634.	1670.	17.05	0.0230	0.	92. 0.11
MILE	23.10	825.91	366555.	4.99	73496.	1924.	15.79	0.0230	0.	96. 0.14

0DATE 10-17-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	4.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL
INFLOW	DEPTH	FROUDE								
MILE	79.80	887.29	400000.	12.16	32889.	1029.	10.43	0.0290	0.	69. 0.38

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 387 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 77.70	884.92	399869.	9.44	42368.	1258.	11.43	0.0400	0.	74.	0.29
MILE 75.60	877.19	399603.	10.69	37368.	2642.	10.53	0.0400	0.	71.	0.50
MILE 73.50	866.65	399095.	12.26	32540.	2010.	10.95	0.0330	0.	67.	0.54
MILE 71.40	863.87	398547.	7.95	50108.	1650.	11.74	0.0400	0.	66.	0.25
MILE 69.30	859.60	397953.	9.06	43902.	1598.	10.85	0.0340	0.	61.	0.30
MILE 67.20	857.39	396769.	5.92	67043.	4090.	10.41	0.0340	0.	67.	0.26
MILE 65.10	853.60	394743.	7.86	50228.	4802.	10.53	0.0320	0.	67.	0.43
MILE 63.00	852.04	392818.	4.95	79342.	3168.	8.74	0.0400	0.	71.	0.17
MILE 60.90	847.41	391278.	7.26	53898.	2830.	9.10	0.0450	0.	71.	0.29
MILE 58.80	839.32	389865.	8.23	47359.	2127.	8.65	0.0400	0.	66.	0.31
MILE 57.00	837.61	388856.	8.07	48193.	2243.	8.82	0.0200	0.	63.	0.31
MILE 55.00	835.12	387716.	9.42	41159.	2272.	8.80	0.0200	0.	62.	0.39
MILE 53.10	834.10	386621.	7.17	53945.	2704.	9.77	0.0200	0.	61.	0.28
MILE 51.00	832.76	385167.	7.50	51372.	3452.	9.77	0.0200	0.	63.	0.34
MILE 48.30	832.15	382160.	5.57	68564.	7060.	12.17	0.0200	0.	63.	0.32
MILE 46.20	831.51	379192.	6.19	61248.	6907.	11.92	0.0200	0.	70.	0.37
MILE 44.10	831.52	377050.	3.68	102598.	3264.	11.27	0.0300	0.	76.	0.12
MILE 43.70	830.15	376814.	9.57	39370.	3161.	13.78	0.0300	0.	77.	0.48
MILE 42.00	830.35	376061.	4.08	92066.	3115.	10.20	0.0300	0.	80.	0.13
MILE 39.10	828.41	375004.	7.05	53170.	3022.	13.10	0.0230	0.	77.	0.30
MILE 37.00	828.49	374513.	3.98	94013.	2111.	13.36	0.0280	0.	77.	0.11
MILE 36.00	827.64	374363.	7.18	52142.	1517.	13.61	0.0280	0.	79.	0.22
MILE 34.60	827.39	374243.	5.47	68395.	2201.	14.74	0.0280	0.	79.	0.17
MILE 33.60	827.66	374074.	2.35	159297.	4077.	14.15	0.0290	0.	85.	0.07
MILE 31.50	826.99	373690.	5.68	65767.	3177.	15.12	0.0250	0.	88.	0.22
MILE 30.10	826.76	373638.	5.13	72807.	1302.	14.28	0.0200	0.	86.	0.12
MILE 29.00	826.61	373609.	5.17	72236.	1826.	15.72	0.0200	0.	87.	0.14
MILE 27.30	826.41	373561.	5.17	72325.	1711.	16.07	0.0230	0.	89.	0.14
MILE 25.20	826.26	373530.	4.47	83645.	1670.	17.05	0.0230	0.	92.	0.11
MILE 23.10	825.91	373521.	5.08	73496.	1924.	15.79	0.0230	0.	96.	0.14

ODATE 10-17-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 5.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	887.32	400000.	12.15	32914.	1030.	10.43	0.0290	0.	69.	0.38
MILE 77.70	884.95	399895.	9.43	42401.	1258.	11.43	0.0400	0.	74.	0.29
MILE 75.60	877.24	399681.	10.68	37410.	2644.	10.54	0.0400	0.	71.	0.50
MILE 73.50	866.72	399275.	12.25	32596.	2014.	10.96	0.0330	0.	68.	0.54
MILE 71.40	863.96	398840.	7.94	50228.	1653.	11.75	0.0400	0.	66.	0.25
MILE 69.30	859.71	398369.	9.05	44013.	1601.	10.85	0.0340	0.	61.	0.30
MILE 67.20	857.51	397431.	5.91	67226.	4102.	10.42	0.0340	0.	67.	0.26
MILE 65.10	853.73	395828.	7.86	50379.	4816.	10.53	0.0320	0.	67.	0.43
MILE 63.00	852.17	394305.	4.95	79716.	3174.	8.75	0.0400	0.	71.	0.17
MILE 60.90	847.56	393086.	7.25	54190.	2836.	9.10	0.0450	0.	71.	0.29
MILE 58.80	839.47	391962.	8.24	47584.	2134.	8.66	0.0400	0.	66.	0.31
MILE 57.00	837.77	391153.	8.08	48434.	2251.	8.82	0.0200	0.	63.	0.31

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 388 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	55.00	835.27	390242.	9.44	41332.	2280.	8.80	0.0200	0.	62.	0.39
MILE	53.10	834.24	389368.	7.19	54141.	2713.	9.78	0.0200	0.	61.	0.28
MILE	51.00	832.88	388218.	7.53	51541.	3462.	9.79	0.0200	0.	64.	0.34
MILE	48.30	832.27	385840.	5.61	68764.	7081.	12.19	0.0200	0.	63.	0.32
MILE	46.20	831.62	383455.	6.24	61421.	6925.	11.93	0.0200	0.	70.	0.37
MILE	44.10	831.64	381755.	3.71	102901.	3270.	11.28	0.0300	0.	76.	0.12
MILE	43.70	830.23	381566.	9.68	39436.	3166.	13.79	0.0300	0.	77.	0.48
MILE	42.00	830.44	380950.	4.13	92332.	3121.	10.20	0.0300	0.	80.	0.13
MILE	39.10	828.46	380072.	7.14	53234.	3025.	13.10	0.0230	0.	77.	0.30
MILE	37.00	828.54	379690.	4.03	94131.	2113.	13.36	0.0280	0.	77.	0.11
MILE	36.00	827.67	379573.	7.27	52182.	1517.	13.61	0.0280	0.	79.	0.22
MILE	34.60	827.42	379479.	5.55	68435.	2202.	14.74	0.0280	0.	79.	0.18
MILE	33.60	827.70	379341.	2.38	159417.	4080.	14.16	0.0290	0.	85.	0.07
MILE	31.50	827.01	379018.	5.76	65794.	3178.	15.13	0.0250	0.	88.	0.22
MILE	30.10	826.78	378949.	5.20	72832.	1302.	14.29	0.0200	0.	86.	0.12
MILE	29.00	826.62	378918.	5.24	72255.	1827.	15.72	0.0200	0.	87.	0.15
MILE	27.30	826.42	378881.	5.24	72338.	1711.	16.07	0.0230	0.	89.	0.14
MILE	25.20	826.27	378859.	4.53	83655.	1670.	17.05	0.0230	0.	92.	0.11
MILE	23.10	825.91	378849.	5.15	73496.	1924.	15.79	0.0230	0.	96.	0.15

0DATE 10-17-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	6.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
INFLOW	DEPTH	FROUDE									
MILE	79.80	887.35	400000.	12.15	32935.	1030.	10.43	0.0290	0.	69.	0.38
MILE	77.70	884.98	399914.	9.43	42428.	1258.	11.44	0.0400	0.	74.	0.29
MILE	75.60	877.27	399739.	10.68	37443.	2646.	10.54	0.0400	0.	71.	0.50
MILE	73.50	866.78	399410.	12.24	32639.	2016.	10.96	0.0330	0.	68.	0.54
MILE	71.40	864.03	399061.	7.93	50321.	1656.	11.76	0.0400	0.	66.	0.25
MILE	69.30	859.79	398685.	9.04	44099.	1603.	10.86	0.0340	0.	61.	0.30
MILE	67.20	857.60	397939.	5.91	67369.	4110.	10.43	0.0340	0.	67.	0.26
MILE	65.10	853.83	396666.	7.86	50497.	4827.	10.54	0.0320	0.	67.	0.43
MILE	63.00	852.27	395459.	4.94	80007.	3178.	8.76	0.0400	0.	71.	0.17
MILE	60.90	847.68	394497.	7.25	54418.	2842.	9.11	0.0450	0.	71.	0.29
MILE	58.80	839.59	393610.	8.24	47761.	2140.	8.66	0.0400	0.	67.	0.31
MILE	57.00	837.89	392969.	8.08	48624.	2256.	8.82	0.0200	0.	63.	0.31
MILE	55.00	835.38	392245.	9.46	41468.	2286.	8.80	0.0200	0.	62.	0.39
MILE	53.10	834.35	391547.	7.21	54295.	2720.	9.78	0.0200	0.	61.	0.28
MILE	51.00	832.99	390626.	7.56	51675.	3471.	9.80	0.0200	0.	64.	0.35
MILE	48.30	832.37	388713.	5.64	68922.	7098.	12.20	0.0200	0.	63.	0.32
MILE	46.20	831.71	386803.	6.28	61559.	6939.	11.94	0.0200	0.	70.	0.37
MILE	44.10	831.73	385430.	3.74	103143.	3274.	11.28	0.0300	0.	77.	0.12
MILE	43.70	830.30	385278.	9.76	39489.	3170.	13.80	0.0300	0.	77.	0.49
MILE	42.00	830.52	384783.	4.16	92546.	3125.	10.20	0.0300	0.	81.	0.13
MILE	39.10	828.51	384079.	7.21	53286.	3028.	13.11	0.0230	0.	78.	0.30
MILE	37.00	828.59	383762.	4.07	94227.	2114.	13.37	0.0280	0.	77.	0.11
MILE	36.00	827.70	383664.	7.35	52215.	1518.	13.62	0.0280	0.	79.	0.22

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 389 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 34.60	827.45	383583.	5.60	68469.	2203.	14.75	0.0280	0.	79.	0.18
MILE 33.60	827.73	383471.	2.40	159518.	4083.	14.17	0.0290	0.	85.	0.07
MILE 31.50	827.03	383215.	5.82	65817.	3179.	15.13	0.0250	0.	88.	0.23
MILE 30.10	826.79	383167.	5.26	72852.	1302.	14.29	0.0200	0.	86.	0.12
MILE 29.00	826.64	383145.	5.30	72270.	1827.	15.72	0.0200	0.	87.	0.15
MILE 27.30	826.43	383117.	5.30	72349.	1711.	16.07	0.0230	0.	89.	0.14
MILE 25.20	826.27	383094.	4.58	83664.	1670.	17.05	0.0230	0.	92.	0.11
MILE 23.10	825.91	383086.	5.21	73496.	1924.	15.79	0.0230	0.	96.	0.15

0DATE 10-17-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	7.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL
INFLOW	DEPTH	FROUDE								
MILE 79.80	887.37	400000.	12.14	32952.	1030.	10.44	0.0290	0.	69.	0.38
MILE 77.70	885.00	399929.	9.42	42450.	1259.	11.44	0.0400	0.	74.	0.29
MILE 75.60	877.30	399785.	10.67	37469.	2647.	10.54	0.0400	0.	71.	0.50
MILE 73.50	866.83	399517.	12.23	32673.	2018.	10.96	0.0330	0.	68.	0.54
MILE 71.40	864.08	399235.	7.92	50394.	1658.	11.77	0.0400	0.	66.	0.25
MILE 69.30	859.86	398933.	9.03	44166.	1605.	10.87	0.0340	0.	61.	0.30
MILE 67.20	857.68	398339.	5.90	67480.	4117.	10.43	0.0340	0.	67.	0.26
MILE 65.10	853.90	397325.	7.85	50588.	4835.	10.55	0.0320	0.	67.	0.43
MILE 63.00	852.36	396365.	4.94	80234.	3181.	8.76	0.0400	0.	71.	0.17
MILE 60.90	847.77	395602.	7.25	54597.	2846.	9.11	0.0450	0.	71.	0.29
MILE 58.80	839.69	394899.	8.24	47900.	2144.	8.67	0.0400	0.	67.	0.31
MILE 57.00	837.98	394387.	8.09	48774.	2261.	8.82	0.0200	0.	63.	0.31
MILE 55.00	835.47	393808.	9.47	41577.	2291.	8.80	0.0200	0.	62.	0.39
MILE 53.10	834.43	393248.	7.23	54418.	2726.	9.79	0.0200	0.	61.	0.29
MILE 51.00	833.07	392509.	7.58	51781.	3478.	9.80	0.0200	0.	64.	0.35
MILE 48.30	832.45	390975.	5.66	69049.	7111.	12.21	0.0200	0.	64.	0.32
MILE 46.20	831.78	389440.	6.31	61670.	6951.	11.94	0.0200	0.	70.	0.37
MILE 44.10	831.80	388343.	3.76	103337.	3278.	11.28	0.0300	0.	77.	0.12
MILE 43.70	830.35	388221.	9.82	39532.	3173.	13.80	0.0300	0.	77.	0.49
MILE 42.00	830.58	387824.	4.18	92718.	3129.	10.20	0.0300	0.	81.	0.14
MILE 39.10	828.54	387256.	7.26	53328.	3030.	13.11	0.0230	0.	78.	0.31
MILE 37.00	828.63	387003.	4.10	94304.	2115.	13.37	0.0280	0.	77.	0.11
MILE 36.00	827.73	386926.	7.41	52241.	1519.	13.62	0.0280	0.	79.	0.22
MILE 34.60	827.47	386864.	5.65	68495.	2204.	14.75	0.0280	0.	79.	0.18
MILE 33.60	827.76	386774.	2.42	159597.	4085.	14.17	0.0290	0.	85.	0.07
MILE 31.50	827.05	386565.	5.87	65836.	3180.	15.13	0.0250	0.	88.	0.23
MILE 30.10	826.80	386525.	5.30	72868.	1302.	14.29	0.0200	0.	86.	0.12
MILE 29.00	826.65	386506.	5.35	72283.	1827.	15.72	0.0200	0.	87.	0.15
MILE 27.30	826.44	386480.	5.34	72357.	1711.	16.07	0.0230	0.	89.	0.14
MILE 25.20	826.28	386464.	4.62	83670.	1671.	17.05	0.0230	0.	92.	0.12
MILE 23.10	825.91	386457.	5.26	73496.	1924.	15.79	0.0230	0.	96.	0.15

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

0DATE 10-17-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 8.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
INFLOW	DEPTH	FROUDE									
MILE	79.80	887.39	400000.	12.13	32966.	1030.	10.44	0.0290	0.	69.	0.38
MILE	77.70	885.02	399942.	9.42	42468.	1259.	11.44	0.0400	0.	74.	0.29
MILE	75.60	877.33	399822.	10.66	37489.	2648.	10.54	0.0400	0.	71.	0.50
MILE	73.50	866.86	399603.	12.22	32699.	2020.	10.96	0.0330	0.	68.	0.54
MILE	71.40	864.13	399375.	7.92	50451.	1659.	11.77	0.0400	0.	66.	0.25
MILE	69.30	859.91	399132.	9.03	44219.	1607.	10.87	0.0340	0.	61.	0.30
MILE	67.20	857.73	398656.	5.90	67566.	4122.	10.44	0.0340	0.	67.	0.26
MILE	65.10	853.96	397845.	7.85	50660.	4842.	10.55	0.0320	0.	67.	0.43
MILE	63.00	852.42	397079.	4.94	80412.	3183.	8.77	0.0400	0.	71.	0.17
MILE	60.90	847.84	396471.	7.24	54738.	2849.	9.11	0.0450	0.	71.	0.29
MILE	58.80	839.76	395911.	8.25	48011.	2147.	8.67	0.0400	0.	67.	0.31
MILE	57.00	838.06	395503.	8.09	48893.	2265.	8.83	0.0200	0.	63.	0.31
MILE	55.00	835.54	395040.	9.48	41663.	2295.	8.80	0.0200	0.	62.	0.39
MILE	53.10	834.50	394592.	7.24	54516.	2731.	9.80	0.0200	0.	61.	0.29
MILE	51.00	833.13	394000.	7.60	51866.	3483.	9.81	0.0200	0.	64.	0.35
MILE	48.30	832.51	392769.	5.68	69150.	7122.	12.22	0.0200	0.	64.	0.32
MILE	46.20	831.84	391539.	6.34	61758.	6960.	11.95	0.0200	0.	70.	0.38
MILE	44.10	831.86	390658.	3.77	103491.	3281.	11.28	0.0300	0.	77.	0.12
MILE	43.70	830.40	390560.	9.87	39566.	3175.	13.81	0.0300	0.	77.	0.49
MILE	42.00	830.63	390241.	4.20	92855.	3132.	10.21	0.0300	0.	81.	0.14
MILE	39.10	828.57	389784.	7.30	53361.	3032.	13.11	0.0230	0.	78.	0.31
MILE	37.00	828.66	389580.	4.13	94366.	2116.	13.38	0.0280	0.	77.	0.11
MILE	36.00	827.74	389517.	7.45	52262.	1519.	13.62	0.0280	0.	79.	0.22
MILE	34.60	827.49	389465.	5.68	68517.	2204.	14.75	0.0280	0.	79.	0.18
MILE	33.60	827.78	389392.	2.44	159662.	4086.	14.17	0.0290	0.	85.	0.07
MILE	31.50	827.06	389223.	5.91	65850.	3181.	15.13	0.0250	0.	88.	0.23
MILE	30.10	826.81	389191.	5.34	72881.	1303.	14.29	0.0200	0.	86.	0.13
MILE	29.00	826.65	389176.	5.38	72292.	1828.	15.72	0.0200	0.	87.	0.15
MILE	27.30	826.44	389156.	5.38	72364.	1711.	16.07	0.0230	0.	89.	0.15
MILE	25.20	826.28	389140.	4.65	83676.	1671.	17.05	0.0230	0.	92.	0.12
MILE	23.10	825.91	389135.	5.29	73496.	1924.	15.79	0.0230	0.	96.	0.15

0DATE 10-17-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 9.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
INFLOW	DEPTH	FROUDE									
MILE	79.80	887.40	400000.	12.13	32977.	1030.	10.44	0.0290	0.	69.	0.38
MILE	77.70	885.04	399952.	9.41	42483.	1259.	11.44	0.0400	0.	74.	0.29
MILE	75.60	877.34	399853.	10.66	37506.	2649.	10.54	0.0400	0.	71.	0.50
MILE	73.50	866.89	399673.	12.21	32720.	2021.	10.97	0.0330	0.	68.	0.54
MILE	71.40	864.16	399488.	7.91	50496.	1660.	11.78	0.0400	0.	66.	0.25

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Appendix E		Checked	ACM

MILE 69.30	859.95	399292.	9.02	44260.	1608.	10.88	0.0340	0.	61.	0.30
MILE 67.20	857.78	398909.	5.90	67634.	4127.	10.44	0.0340	0.	67.	0.26
MILE 65.10	854.01	398258.	7.85	50716.	4847.	10.56	0.0320	0.	67.	0.43
MILE 63.00	852.47	397644.	4.94	80551.	3185.	8.77	0.0400	0.	71.	0.17
MILE 60.90	847.89	397158.	7.24	54848.	2852.	9.11	0.0450	0.	71.	0.29
MILE 58.80	839.82	396711.	8.25	48099.	2150.	8.67	0.0400	0.	67.	0.31
MILE 57.00	838.12	396385.	8.09	48988.	2268.	8.83	0.0200	0.	63.	0.31
MILE 55.00	835.60	396014.	9.49	41732.	2298.	8.80	0.0200	0.	62.	0.39
MILE 53.10	834.56	395655.	7.25	54594.	2734.	9.80	0.0200	0.	61.	0.29
MILE 51.00	833.18	395180.	7.61	51934.	3487.	9.81	0.0200	0.	64.	0.35
MILE 48.30	832.56	394192.	5.69	69230.	7130.	12.23	0.0200	0.	64.	0.32
MILE 46.20	831.89	393204.	6.36	61828.	6967.	11.95	0.0200	0.	70.	0.38
MILE 44.10	831.91	392497.	3.79	103615.	3283.	11.29	0.0300	0.	77.	0.12
MILE 43.70	830.43	392419.	9.91	39593.	3177.	13.81	0.0300	0.	77.	0.49
MILE 42.00	830.66	392162.	4.22	92964.	3135.	10.21	0.0300	0.	81.	0.14
MILE 39.10	828.59	391795.	7.34	53388.	3033.	13.12	0.0230	0.	78.	0.31
MILE 37.00	828.68	391630.	4.15	94415.	2117.	13.38	0.0280	0.	77.	0.11
MILE 36.00	827.76	391580.	7.49	52279.	1519.	13.62	0.0280	0.	79.	0.23
MILE 34.60	827.50	391538.	5.71	68534.	2205.	14.75	0.0280	0.	79.	0.18
MILE 33.60	827.79	391479.	2.45	159713.	4087.	14.17	0.0290	0.	85.	0.07
MILE 31.50	827.07	391342.	5.94	65862.	3181.	15.13	0.0250	0.	88.	0.23
MILE 30.10	826.82	391316.	5.37	72892.	1303.	14.29	0.0200	0.	86.	0.13
MILE 29.00	826.66	391303.	5.41	72300.	1828.	15.72	0.0200	0.	87.	0.15
MILE 27.30	826.45	391286.	5.41	72369.	1712.	16.07	0.0230	0.	89.	0.15
MILE 25.20	826.29	391274.	4.68	83680.	1671.	17.05	0.0230	0.	92.	0.12
MILE 23.10	825.91	391268.	5.32	73496.	1924.	15.79	0.0230	0.	96.	0.15

ODATE 10-17-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 10.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	887.42	400000.	12.13	32987.	1031.	10.44	0.0290	0.	69.	0.38
MILE 77.70	885.05	399960.	9.41	42496.	1259.	11.44	0.0400	0.	74.	0.29
MILE 75.60	877.36	399878.	10.66	37520.	2650.	10.54	0.0400	0.	71.	0.50
MILE 73.50	866.92	399730.	12.21	32737.	2022.	10.97	0.0330	0.	68.	0.53
MILE 71.40	864.18	399580.	7.91	50531.	1661.	11.78	0.0400	0.	66.	0.25
MILE 69.30	859.98	399421.	9.02	44293.	1608.	10.88	0.0340	0.	61.	0.30
MILE 67.20	857.81	399112.	5.90	67688.	4130.	10.45	0.0340	0.	67.	0.26
MILE 65.10	854.05	398587.	7.85	50761.	4851.	10.56	0.0320	0.	67.	0.43
MILE 63.00	852.51	398094.	4.94	80662.	3187.	8.77	0.0400	0.	72.	0.17
MILE 60.90	847.94	397704.	7.24	54936.	2854.	9.12	0.0450	0.	71.	0.29
MILE 58.80	839.87	397346.	8.25	48168.	2152.	8.68	0.0400	0.	67.	0.31
MILE 57.00	838.16	397084.	8.09	49063.	2270.	8.83	0.0200	0.	63.	0.31
MILE 55.00	835.64	396787.	9.50	41787.	2300.	8.80	0.0200	0.	62.	0.39
MILE 53.10	834.60	396498.	7.25	54656.	2737.	9.80	0.0200	0.	61.	0.29
MILE 51.00	833.22	396117.	7.62	51988.	3491.	9.82	0.0200	0.	64.	0.35
MILE 48.30	832.60	395324.	5.71	69294.	7137.	12.23	0.0200	0.	64.	0.32

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Appendix E		Checked	ACM

MILE	46.20	831.92	394531.	6.38	61884.	6973.	11.95	0.0200	0.	70.	0.38
MILE	44.10	831.95	393963.	3.80	103713.	3285.	11.29	0.0300	0.	77.	0.12
MILE	43.70	830.46	393900.	9.94	39614.	3178.	13.81	0.0300	0.	77.	0.50
MILE	42.00	830.70	393693.	4.23	93051.	3137.	10.21	0.0300	0.	81.	0.14
MILE	39.10	828.61	393397.	7.37	53409.	3034.	13.12	0.0230	0.	78.	0.31
MILE	37.00	828.70	393265.	4.16	94454.	2118.	13.38	0.0280	0.	77.	0.11
MILE	36.00	827.77	393224.	7.52	52293.	1519.	13.62	0.0280	0.	79.	0.23
MILE	34.60	827.51	393190.	5.74	68547.	2205.	14.75	0.0280	0.	79.	0.18
MILE	33.60	827.81	393142.	2.46	159754.	4088.	14.18	0.0290	0.	85.	0.07
MILE	31.50	827.08	393031.	5.97	65872.	3182.	15.13	0.0250	0.	88.	0.23
MILE	30.10	826.83	393010.	5.39	72900.	1303.	14.29	0.0200	0.	86.	0.13
MILE	29.00	826.66	392999.	5.44	72307.	1828.	15.73	0.0200	0.	87.	0.15
MILE	27.30	826.45	392985.	5.43	72374.	1712.	16.07	0.0230	0.	89.	0.15
MILE	25.20	826.29	392975.	4.70	83683.	1671.	17.05	0.0230	0.	92.	0.12
MILE	23.10	825.91	392970.	5.35	73496.	1924.	15.79	0.0230	0.	96.	0.15

ODATE 10-17-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 11.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	887.43	400000.	12.12	32995.	1031.	10.44	0.0290	0.	69.	0.38
MILE	77.70	885.06	399967.	9.41	42506.	1259.	11.44	0.0400	0.	74.	0.29
MILE	75.60	877.37	399899.	10.66	37531.	2650.	10.54	0.0400	0.	71.	0.50
MILE	73.50	866.93	399777.	12.21	32750.	2023.	10.97	0.0330	0.	68.	0.53
MILE	71.40	864.21	399654.	7.90	50559.	1662.	11.78	0.0400	0.	66.	0.25
MILE	69.30	860.00	399524.	9.01	44319.	1609.	10.88	0.0340	0.	61.	0.30
MILE	67.20	857.84	399275.	5.90	67731.	4132.	10.45	0.0340	0.	67.	0.26
MILE	65.10	854.08	398851.	7.85	50796.	4854.	10.56	0.0320	0.	67.	0.43
MILE	63.00	852.54	398453.	4.93	80749.	3188.	8.78	0.0400	0.	72.	0.17
MILE	60.90	847.97	398139.	7.24	55006.	2855.	9.12	0.0450	0.	71.	0.29
MILE	58.80	839.91	397851.	8.25	48224.	2154.	8.68	0.0400	0.	67.	0.31
MILE	57.00	838.20	397641.	8.09	49123.	2272.	8.83	0.0200	0.	63.	0.31
MILE	55.00	835.68	397402.	9.50	41831.	2302.	8.80	0.0200	0.	62.	0.39
MILE	53.10	834.63	397171.	7.26	54706.	2739.	9.80	0.0200	0.	61.	0.29
MILE	51.00	833.26	396864.	7.63	52031.	3493.	9.82	0.0200	0.	64.	0.35
MILE	48.30	832.63	396226.	5.71	69345.	7142.	12.24	0.0200	0.	64.	0.32
MILE	46.20	831.95	395588.	6.39	61929.	6978.	11.96	0.0200	0.	70.	0.38
MILE	44.10	831.98	395132.	3.81	103792.	3286.	11.29	0.0300	0.	77.	0.12
MILE	43.70	830.48	395081.	9.97	39631.	3180.	13.82	0.0300	0.	77.	0.50
MILE	42.00	830.72	394915.	4.24	93121.	3138.	10.21	0.0300	0.	81.	0.14
MILE	39.10	828.62	394676.	7.39	53426.	3035.	13.12	0.0230	0.	78.	0.31
MILE	37.00	828.72	394569.	4.18	94486.	2118.	13.38	0.0280	0.	77.	0.11
MILE	36.00	827.78	394536.	7.54	52303.	1520.	13.62	0.0280	0.	79.	0.23
MILE	34.60	827.52	394509.	5.75	68558.	2205.	14.76	0.0280	0.	79.	0.18
MILE	33.60	827.82	394470.	2.47	159787.	4089.	14.18	0.0290	0.	85.	0.07
MILE	31.50	827.08	394381.	5.99	65879.	3182.	15.13	0.0250	0.	88.	0.23
MILE	30.10	826.83	394363.	5.41	72907.	1303.	14.29	0.0200	0.	86.	0.13

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Appendix E		Checked	ACM

MILE	29.00	826.67	394354.	5.45	72312.	1828.	15.73	0.0200	0.	87.	0.15
MILE	27.30	826.45	394343.	5.45	72377.	1712.	16.08	0.0230	0.	89.	0.15
MILE	25.20	826.29	394334.	4.71	83686.	1671.	17.05	0.0230	0.	92.	0.12
MILE	23.10	825.91	394330.	5.37	73496.	1924.	15.79	0.0230	0.	96.	0.15

0DATE 10-17-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 12.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE	79.80	887.44	400000.	12.12	33002.	1031.	10.44	0.0290	0.	69.	0.38
MILE	77.70	885.07	399972.	9.41	42514.	1259.	11.44	0.0400	0.	74.	0.29
MILE	75.60	877.38	399915.	10.65	37539.	2651.	10.54	0.0400	0.	71.	0.50
MILE	73.50	866.95	399815.	12.20	32761.	2024.	10.97	0.0330	0.	68.	0.53
MILE	71.40	864.22	399714.	7.90	50582.	1663.	11.78	0.0400	0.	66.	0.25
MILE	69.30	860.02	399608.	9.01	44338.	1610.	10.88	0.0340	0.	61.	0.30
MILE	67.20	857.86	399405.	5.89	67764.	4135.	10.45	0.0340	0.	67.	0.26
MILE	65.10	854.10	399062.	7.85	50823.	4857.	10.56	0.0320	0.	67.	0.43
MILE	63.00	852.56	398740.	4.93	80819.	3189.	8.78	0.0400	0.	72.	0.17
MILE	60.90	848.00	398487.	7.24	55061.	2856.	9.12	0.0450	0.	71.	0.29
MILE	58.80	839.94	398255.	8.25	48268.	2155.	8.68	0.0400	0.	67.	0.31
MILE	57.00	838.23	398086.	8.10	49171.	2273.	8.83	0.0200	0.	63.	0.31
MILE	55.00	835.70	397894.	9.50	41866.	2304.	8.80	0.0200	0.	62.	0.39
MILE	53.10	834.66	397708.	7.26	54745.	2741.	9.81	0.0200	0.	61.	0.29
MILE	51.00	833.28	397461.	7.63	52066.	3495.	9.82	0.0200	0.	64.	0.35
MILE	48.30	832.65	396948.	5.72	69386.	7147.	12.24	0.0200	0.	64.	0.32
MILE	46.20	831.98	396434.	6.40	61964.	6982.	11.96	0.0200	0.	70.	0.38
MILE	44.10	832.00	396067.	3.81	103855.	3287.	11.29	0.0300	0.	77.	0.12
MILE	43.70	830.50	396026.	9.99	39645.	3181.	13.82	0.0300	0.	78.	0.50
MILE	42.00	830.74	395892.	4.25	93177.	3139.	10.21	0.0300	0.	81.	0.14
MILE	39.10	828.64	395699.	7.40	53440.	3036.	13.12	0.0230	0.	78.	0.31
MILE	37.00	828.73	395613.	4.19	94511.	2118.	13.38	0.0280	0.	77.	0.11
MILE	36.00	827.79	395586.	7.56	52312.	1520.	13.63	0.0280	0.	79.	0.23
MILE	34.60	827.53	395564.	5.77	68567.	2205.	14.76	0.0280	0.	79.	0.18
MILE	33.60	827.83	395532.	2.47	159813.	4090.	14.18	0.0290	0.	85.	0.07
MILE	31.50	827.09	395460.	6.00	65885.	3182.	15.13	0.0250	0.	88.	0.23
MILE	30.10	826.84	395445.	5.42	72912.	1303.	14.29	0.0200	0.	86.	0.13
MILE	29.00	826.67	395438.	5.47	72316.	1828.	15.73	0.0200	0.	87.	0.15
MILE	27.30	826.46	395429.	5.46	72380.	1712.	16.08	0.0230	0.	89.	0.15
MILE	25.20	826.29	395422.	4.72	83688.	1671.	17.05	0.0230	0.	92.	0.12
MILE	23.10	825.91	395418.	5.38	73496.	1924.	15.79	0.0230	0.	96.	0.15

0DATE 10-17-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

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Subject: SOCH Model Calibration, Melton Hill			Prepped
Appendix E			Checked
			JAW
			ACM

TIME 13.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	887.44	400000.	12.12	33008.	1031.	10.44	0.0290	0.	69.	0.38
MILE 77.70	885.08	399977.	9.41	42521.	1259.	11.44	0.0400	0.	74.	0.29
MILE 75.60	877.39	399929.	10.65	37547.	2651.	10.54	0.0400	0.	71.	0.50
MILE 73.50	866.96	399846.	12.20	32769.	2024.	10.97	0.0330	0.	68.	0.53
MILE 71.40	864.24	399763.	7.90	50600.	1663.	11.79	0.0400	0.	66.	0.25
MILE 69.30	860.04	399677.	9.01	44354.	1611.	10.88	0.0340	0.	61.	0.30
MILE 67.20	857.88	399512.	5.89	67791.	4136.	10.45	0.0340	0.	67.	0.26
MILE 65.10	854.12	399233.	7.85	50846.	4859.	10.56	0.0320	0.	67.	0.43
MILE 63.00	852.58	398972.	4.93	80874.	3190.	8.78	0.0400	0.	72.	0.17
MILE 60.90	848.02	398767.	7.24	55105.	2857.	9.12	0.0450	0.	72.	0.29
MILE 58.80	839.96	398580.	8.25	48304.	2156.	8.68	0.0400	0.	67.	0.31
MILE 57.00	838.26	398443.	8.10	49210.	2275.	8.83	0.0200	0.	63.	0.31
MILE 55.00	835.73	398288.	9.51	41894.	2305.	8.80	0.0200	0.	62.	0.39
MILE 53.10	834.68	398138.	7.27	54777.	2743.	9.81	0.0200	0.	61.	0.29
MILE 51.00	833.30	397939.	7.64	52093.	3497.	9.82	0.0200	0.	64.	0.35
MILE 48.30	832.67	397526.	5.73	69419.	7150.	12.24	0.0200	0.	64.	0.32
MILE 46.20	832.00	397112.	6.41	61993.	6984.	11.96	0.0200	0.	70.	0.38
MILE 44.10	832.02	396815.	3.82	103905.	3288.	11.29	0.0300	0.	77.	0.12
MILE 43.70	830.51	396782.	10.01	39656.	3181.	13.82	0.0300	0.	78.	0.50
MILE 42.00	830.76	396674.	4.26	93222.	3140.	10.21	0.0300	0.	81.	0.14
MILE 39.10	828.65	396519.	7.42	53451.	3036.	13.12	0.0230	0.	78.	0.31
MILE 37.00	828.74	396449.	4.19	94531.	2119.	13.39	0.0280	0.	77.	0.11
MILE 36.00	827.80	396427.	7.58	52319.	1520.	13.63	0.0280	0.	79.	0.23
MILE 34.60	827.53	396409.	5.78	68574.	2206.	14.76	0.0280	0.	79.	0.18
MILE 33.60	827.83	396384.	2.48	159834.	4090.	14.18	0.0290	0.	85.	0.07
MILE 31.50	827.09	396325.	6.01	65890.	3183.	15.13	0.0250	0.	88.	0.23
MILE 30.10	826.84	396313.	5.44	72917.	1303.	14.29	0.0200	0.	86.	0.13
MILE 29.00	826.67	396307.	5.48	72319.	1828.	15.73	0.0200	0.	87.	0.15
MILE 27.30	826.46	396300.	5.48	72382.	1712.	16.08	0.0230	0.	89.	0.15
MILE 25.20	826.29	396294.	4.74	83690.	1671.	17.05	0.0230	0.	92.	0.12
MILE 23.10	825.91	396290.	5.39	73496.	1924.	15.79	0.0230	0.	96.	0.15

0DATE 10-17-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 14.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	887.45	400000.	12.12	33013.	1031.	10.44	0.0290	0.	69.	0.38
MILE 77.70	885.08	399981.	9.41	42527.	1259.	11.44	0.0400	0.	74.	0.29
MILE 75.60	877.39	399941.	10.65	37553.	2652.	10.54	0.0400	0.	71.	0.50
MILE 73.50	866.97	399873.	12.20	32776.	2025.	10.97	0.0330	0.	68.	0.53
MILE 71.40	864.25	399804.	7.90	50614.	1664.	11.79	0.0400	0.	66.	0.25
MILE 69.30	860.05	399734.	9.01	44367.	1611.	10.88	0.0340	0.	61.	0.30
MILE 67.20	857.89	399599.	5.89	67813.	4138.	10.45	0.0340	0.	67.	0.26
MILE 65.10	854.13	399372.	7.85	50863.	4860.	10.57	0.0320	0.	67.	0.43

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
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MILE 63.00	852.60	399159.	4.93	80919.	3190.	8.78	0.0400	0.	72.	0.17
MILE 60.90	848.04	398992.	7.24	55141.	2858.	9.12	0.0450	0.	72.	0.29
MILE 58.80	839.98	398841.	8.25	48332.	2157.	8.68	0.0400	0.	67.	0.31
MILE 57.00	838.27	398731.	8.10	49240.	2275.	8.83	0.0200	0.	63.	0.31
MILE 55.00	835.74	398606.	9.51	41917.	2306.	8.80	0.0200	0.	62.	0.39
MILE 53.10	834.70	398484.	7.27	54802.	2744.	9.81	0.0200	0.	61.	0.29
MILE 51.00	833.32	398324.	7.64	52115.	3499.	9.83	0.0200	0.	64.	0.35
MILE 48.30	832.69	397990.	5.73	69445.	7153.	12.25	0.0200	0.	64.	0.32
MILE 46.20	832.01	397655.	6.41	62016.	6987.	11.96	0.0200	0.	70.	0.38
MILE 44.10	832.03	397416.	3.82	103945.	3289.	11.29	0.0300	0.	77.	0.12
MILE 43.70	830.53	397390.	10.02	39665.	3182.	13.82	0.0300	0.	78.	0.50
MILE 42.00	830.77	397302.	4.26	93258.	3141.	10.21	0.0300	0.	81.	0.14
MILE 39.10	828.65	397177.	7.43	53460.	3037.	13.12	0.0230	0.	78.	0.31
MILE 37.00	828.75	397120.	4.20	94547.	2119.	13.39	0.0280	0.	77.	0.11
MILE 36.00	827.80	397102.	7.59	52325.	1520.	13.63	0.0280	0.	79.	0.23
MILE 34.60	827.54	397088.	5.79	68580.	2206.	14.76	0.0280	0.	79.	0.18
MILE 33.60	827.84	397067.	2.48	159851.	4091.	14.18	0.0290	0.	85.	0.07
MILE 31.50	827.10	397019.	6.03	65894.	3183.	15.13	0.0250	0.	88.	0.23
MILE 30.10	826.84	397009.	5.44	72920.	1303.	14.29	0.0200	0.	86.	0.13
MILE 29.00	826.68	397005.	5.49	72322.	1828.	15.73	0.0200	0.	87.	0.15
MILE 27.30	826.46	396998.	5.48	72384.	1712.	16.08	0.0230	0.	89.	0.15
MILE 25.20	826.30	396993.	4.74	83691.	1671.	17.05	0.0230	0.	92.	0.12
MILE 23.10	825.91	396991.	5.40	73496.	1924.	15.79	0.0230	0.	96.	0.15

0DATE 10-17-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 15.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	887.45	400000.	12.12	33017.	1031.	10.44	0.0290	0.	69.	0.38
MILE 77.70	885.09	399984.	9.40	42531.	1259.	11.44	0.0400	0.	74.	0.29
MILE 75.60	877.40	399951.	10.65	37557.	2652.	10.55	0.0400	0.	71.	0.50
MILE 73.50	866.98	399894.	12.20	32782.	2025.	10.97	0.0330	0.	68.	0.53
MILE 71.40	864.25	399838.	7.90	50626.	1664.	11.79	0.0400	0.	66.	0.25
MILE 69.30	860.06	399780.	9.01	44377.	1611.	10.89	0.0340	0.	61.	0.30
MILE 67.20	857.90	399670.	5.89	67831.	4139.	10.45	0.0340	0.	67.	0.26
MILE 65.10	854.15	399484.	7.85	50878.	4862.	10.57	0.0320	0.	67.	0.43
MILE 63.00	852.61	399311.	4.93	80955.	3191.	8.78	0.0400	0.	72.	0.17
MILE 60.90	848.05	399175.	7.24	55169.	2859.	9.12	0.0450	0.	72.	0.29
MILE 58.80	840.00	399052.	8.25	48355.	2158.	8.68	0.0400	0.	67.	0.31
MILE 57.00	838.29	398963.	8.10	49265.	2276.	8.83	0.0200	0.	63.	0.31
MILE 55.00	835.76	398862.	9.51	41935.	2307.	8.80	0.0200	0.	62.	0.39
MILE 53.10	834.72	398763.	7.27	54823.	2745.	9.81	0.0200	0.	61.	0.29
MILE 51.00	833.33	398634.	7.65	52133.	3500.	9.83	0.0200	0.	64.	0.35
MILE 48.30	832.70	398363.	5.73	69466.	7155.	12.25	0.0200	0.	64.	0.32
MILE 46.20	832.02	398093.	6.42	62034.	6989.	11.96	0.0200	0.	70.	0.38
MILE 44.10	832.05	397900.	3.83	103978.	3290.	11.29	0.0300	0.	77.	0.12
MILE 43.70	830.54	397878.	10.03	39672.	3183.	13.82	0.0300	0.	78.	0.50

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	42.00	830.78	397807.	4.26	93287.	3142.	10.21	0.0300	0.	81.	0.14
MILE	39.10	828.66	397706.	7.44	53467.	3037.	13.12	0.0230	0.	78.	0.31
MILE	37.00	828.75	397660.	4.21	94560.	2119.	13.39	0.0280	0.	77.	0.11
MILE	36.00	827.80	397645.	7.60	52329.	1520.	13.63	0.0280	0.	79.	0.23
MILE	34.60	827.54	397633.	5.80	68585.	2206.	14.76	0.0280	0.	79.	0.18
MILE	33.60	827.84	397617.	2.49	159865.	4091.	14.18	0.0290	0.	85.	0.07
MILE	31.50	827.10	397578.	6.03	65897.	3183.	15.13	0.0250	0.	88.	0.23
MILE	30.10	826.84	397570.	5.45	72923.	1303.	14.29	0.0200	0.	86.	0.13
MILE	29.00	826.68	397566.	5.50	72324.	1828.	15.73	0.0200	0.	87.	0.15
MILE	27.30	826.46	397560.	5.49	72385.	1712.	16.08	0.0230	0.	89.	0.15
MILE	25.20	826.30	397556.	4.75	83692.	1671.	17.05	0.0230	0.	92.	0.12
MILE	23.10	825.91	397554.	5.41	73496.	1924.	15.79	0.0230	0.	96.	0.15

ODATE 10-17-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 16.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	887.46	400000.	12.11	33020.	1031.	10.44	0.0290	0.	69.	0.38
MILE	77.70	885.09	399987.	9.40	42535.	1259.	11.44	0.0400	0.	74.	0.29
MILE	75.60	877.40	399959.	10.65	37561.	2652.	10.55	0.0400	0.	71.	0.50
MILE	73.50	866.98	399912.	12.20	32786.	2025.	10.97	0.0330	0.	68.	0.53
MILE	71.40	864.26	399866.	7.90	50636.	1664.	11.79	0.0400	0.	66.	0.25
MILE	69.30	860.07	399818.	9.01	44385.	1612.	10.89	0.0340	0.	61.	0.30
MILE	67.20	857.91	399727.	5.89	67845.	4139.	10.45	0.0340	0.	67.	0.26
MILE	65.10	854.16	399574.	7.85	50889.	4863.	10.57	0.0320	0.	67.	0.43
MILE	63.00	852.62	399431.	4.93	80983.	3191.	8.78	0.0400	0.	72.	0.17
MILE	60.90	848.07	399318.	7.24	55192.	2859.	9.12	0.0450	0.	72.	0.29
MILE	58.80	840.01	399216.	8.25	48372.	2158.	8.68	0.0400	0.	67.	0.31
MILE	57.00	838.30	399145.	8.10	49285.	2277.	8.83	0.0200	0.	64.	0.31
MILE	55.00	835.77	399064.	9.51	41949.	2308.	8.80	0.0200	0.	62.	0.39
MILE	53.10	834.73	398986.	7.28	54839.	2746.	9.81	0.0200	0.	61.	0.29
MILE	51.00	833.34	398882.	7.65	52147.	3501.	9.83	0.0200	0.	64.	0.35
MILE	48.30	832.71	398664.	5.74	69483.	7157.	12.25	0.0200	0.	64.	0.32
MILE	46.20	832.03	398445.	6.42	62049.	6990.	11.96	0.0200	0.	70.	0.38
MILE	44.10	832.06	398289.	3.83	104004.	3290.	11.29	0.0300	0.	77.	0.12
MILE	43.70	830.54	398272.	10.04	39678.	3183.	13.82	0.0300	0.	78.	0.50
MILE	42.00	830.79	398214.	4.27	93310.	3142.	10.21	0.0300	0.	81.	0.14
MILE	39.10	828.66	398132.	7.45	53473.	3037.	13.12	0.0230	0.	78.	0.31
MILE	37.00	828.76	398094.	4.21	94571.	2119.	13.39	0.0280	0.	77.	0.11
MILE	36.00	827.81	398083.	7.61	52333.	1520.	13.63	0.0280	0.	79.	0.23
MILE	34.60	827.54	398073.	5.80	68588.	2206.	14.76	0.0280	0.	79.	0.18
MILE	33.60	827.85	398059.	2.49	159876.	4091.	14.18	0.0290	0.	85.	0.07
MILE	31.50	827.10	398028.	6.04	65900.	3183.	15.13	0.0250	0.	88.	0.23
MILE	30.10	826.85	398021.	5.46	72925.	1303.	14.29	0.0200	0.	86.	0.13
MILE	29.00	826.68	398018.	5.50	72326.	1828.	15.73	0.0200	0.	87.	0.15
MILE	27.30	826.46	398014.	5.50	72387.	1712.	16.08	0.0230	0.	89.	0.15
MILE	25.20	826.30	398010.	4.76	83693.	1671.	17.05	0.0230	0.	92.	0.12

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Subject: SOCH Model Calibration, Melton Hill			Prepped
Appendix E			Checked
			JAW
			ACM

MILE 23.10 825.91 398008. 5.42 73496. 1924. 15.79 0.0230 0. 96. 0.15

ODATE 10-17-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 17.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	887.46	400000.	12.11	33023.	1031.	10.44	0.0290	0.	69.	0.38
MILE 77.70	885.09	399989.	9.40	42539.	1260.	11.44	0.0400	0.	74.	0.29
MILE 75.60	877.41	399966.	10.65	37565.	2652.	10.55	0.0400	0.	71.	0.50
MILE 73.50	866.99	399926.	12.20	32790.	2025.	10.97	0.0330	0.	68.	0.53
MILE 71.40	864.27	399887.	7.90	50643.	1664.	11.79	0.0400	0.	66.	0.25
MILE 69.30	860.08	399848.	9.01	44392.	1612.	10.89	0.0340	0.	61.	0.30
MILE 67.20	857.92	399772.	5.89	67856.	4140.	10.45	0.0340	0.	67.	0.26
MILE 65.10	854.16	399646.	7.85	50898.	4864.	10.57	0.0320	0.	67.	0.43
MILE 63.00	852.63	399527.	4.93	81006.	3192.	8.78	0.0400	0.	72.	0.17
MILE 60.90	848.08	399435.	7.23	55211.	2860.	9.12	0.0450	0.	72.	0.29
MILE 58.80	840.02	399351.	8.25	48385.	2159.	8.68	0.0400	0.	67.	0.31
MILE 57.00	838.31	399293.	8.10	49301.	2277.	8.83	0.0200	0.	64.	0.31
MILE 55.00	835.78	399228.	9.51	41961.	2308.	8.80	0.0200	0.	62.	0.39
MILE 53.10	834.74	399164.	7.28	54852.	2746.	9.81	0.0200	0.	61.	0.29
MILE 51.00	833.35	399080.	7.65	52159.	3501.	9.83	0.0200	0.	64.	0.35
MILE 48.30	832.72	398904.	5.74	69496.	7158.	12.25	0.0200	0.	64.	0.32
MILE 46.20	832.04	398728.	6.42	62061.	6992.	11.96	0.0200	0.	70.	0.38
MILE 44.10	832.06	398602.	3.83	104025.	3290.	11.29	0.0300	0.	77.	0.12
MILE 43.70	830.55	398588.	10.04	39682.	3183.	13.82	0.0300	0.	78.	0.50
MILE 42.00	830.79	398541.	4.27	93329.	3143.	10.21	0.0300	0.	81.	0.14
MILE 39.10	828.67	398475.	7.45	53477.	3038.	13.13	0.0230	0.	78.	0.31
MILE 37.00	828.76	398445.	4.21	94579.	2119.	13.39	0.0280	0.	77.	0.11
MILE 36.00	827.81	398435.	7.61	52336.	1520.	13.63	0.0280	0.	79.	0.23
MILE 34.60	827.55	398427.	5.81	68591.	2206.	14.76	0.0280	0.	79.	0.18
MILE 33.60	827.85	398416.	2.49	159885.	4091.	14.18	0.0290	0.	85.	0.07
MILE 31.50	827.10	398391.	6.05	65902.	3183.	15.14	0.0250	0.	88.	0.23
MILE 30.10	826.85	398385.	5.46	72927.	1303.	14.29	0.0200	0.	86.	0.13
MILE 29.00	826.68	398383.	5.51	72327.	1828.	15.73	0.0200	0.	87.	0.15
MILE 27.30	826.46	398379.	5.50	72387.	1712.	16.08	0.0230	0.	89.	0.15
MILE 25.20	826.30	398376.	4.76	83694.	1671.	17.05	0.0230	0.	92.	0.12
MILE 23.10	825.91	398375.	5.42	73496.	1924.	15.79	0.0230	0.	96.	0.15

ODATE 10-17-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 18.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80 887.46 400000. 12.11 33025. 1031. 10.44 0.0290 0. 69. 0.38

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 398 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 77.70	885.10	399990.	9.40	42541.	1260.	11.44	0.0400	0.	74.	0.29
MILE 75.60	877.41	399971.	10.65	37567.	2652.	10.55	0.0400	0.	71.	0.50
MILE 73.50	866.99	399937.	12.20	32793.	2026.	10.97	0.0330	0.	68.	0.53
MILE 71.40	864.27	399905.	7.90	50649.	1664.	11.79	0.0400	0.	66.	0.25
MILE 69.30	860.08	399872.	9.01	44397.	1612.	10.89	0.0340	0.	61.	0.30
MILE 67.20	857.92	399810.	5.89	67865.	4141.	10.46	0.0340	0.	67.	0.26
MILE 65.10	854.17	399705.	7.85	50906.	4864.	10.57	0.0320	0.	67.	0.43
MILE 63.00	852.64	399607.	4.93	81025.	3192.	8.78	0.0400	0.	72.	0.17
MILE 60.90	848.08	399531.	7.23	55226.	2860.	9.12	0.0450	0.	72.	0.29
MILE 58.80	840.03	399462.	8.25	48396.	2159.	8.68	0.0400	0.	67.	0.31
MILE 57.00	838.32	399415.	8.10	49315.	2278.	8.83	0.0200	0.	64.	0.31
MILE 55.00	835.79	399362.	9.52	41971.	2309.	8.80	0.0200	0.	62.	0.39
MILE 53.10	834.74	399310.	7.28	54863.	2747.	9.81	0.0200	0.	61.	0.29
MILE 51.00	833.36	399242.	7.65	52168.	3502.	9.83	0.0200	0.	64.	0.35
MILE 48.30	832.73	399099.	5.74	69507.	7160.	12.25	0.0200	0.	64.	0.32
MILE 46.20	832.05	398957.	6.43	62071.	6993.	11.96	0.0200	0.	70.	0.38
MILE 44.10	832.07	398854.	3.83	104042.	3291.	11.29	0.0300	0.	77.	0.12
MILE 43.70	830.55	398843.	10.05	39686.	3184.	13.83	0.0300	0.	78.	0.50
MILE 42.00	830.80	398806.	4.27	93344.	3143.	10.21	0.0300	0.	81.	0.14
MILE 39.10	828.67	398752.	7.46	53481.	3038.	13.13	0.0230	0.	78.	0.31
MILE 37.00	828.76	398727.	4.22	94586.	2119.	13.39	0.0280	0.	77.	0.11
MILE 36.00	827.81	398719.	7.62	52338.	1520.	13.63	0.0280	0.	79.	0.23
MILE 34.60	827.55	398713.	5.81	68594.	2206.	14.76	0.0280	0.	79.	0.18
MILE 33.60	827.85	398704.	2.49	159892.	4092.	14.18	0.0290	0.	85.	0.07
MILE 31.50	827.10	398683.	6.05	65903.	3183.	15.14	0.0250	0.	88.	0.23
MILE 30.10	826.85	398679.	5.47	72929.	1303.	14.29	0.0200	0.	86.	0.13
MILE 29.00	826.68	398677.	5.51	72328.	1829.	15.73	0.0200	0.	87.	0.15
MILE 27.30	826.46	398674.	5.51	72388.	1712.	16.08	0.0230	0.	89.	0.15
MILE 25.20	826.30	398671.	4.76	83695.	1671.	17.05	0.0230	0.	92.	0.12
MILE 23.10	825.91	398670.	5.42	73496.	1924.	15.79	0.0230	0.	96.	0.15

ODATE 10-17-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 19.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	887.47	400000.	12.11	33027.	1031.	10.44	0.0290	0.	69.	0.38
MILE 77.70	885.10	399992.	9.40	42544.	1260.	11.44	0.0400	0.	74.	0.29
MILE 75.60	877.41	399975.	10.65	37569.	2652.	10.55	0.0400	0.	71.	0.50
MILE 73.50	866.99	399947.	12.20	32795.	2026.	10.97	0.0330	0.	68.	0.53
MILE 71.40	864.28	399920.	7.90	50654.	1665.	11.79	0.0400	0.	66.	0.25
MILE 69.30	860.09	399892.	9.01	44402.	1612.	10.89	0.0340	0.	61.	0.30
MILE 67.20	857.93	399841.	5.89	67872.	4141.	10.46	0.0340	0.	67.	0.26
MILE 65.10	854.18	399754.	7.85	50912.	4865.	10.57	0.0320	0.	67.	0.43
MILE 63.00	852.64	399673.	4.93	81040.	3192.	8.78	0.0400	0.	72.	0.17
MILE 60.90	848.09	399610.	7.23	55238.	2860.	9.12	0.0450	0.	72.	0.29
MILE 58.80	840.04	399554.	8.25	48405.	2160.	8.68	0.0400	0.	67.	0.31
MILE 57.00	838.33	399515.	8.10	49325.	2278.	8.83	0.0200	0.	64.	0.31

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 399 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	55.00	835.79	399472.	9.52	41978.	2309.	8.80	0.0200	0.	62.	0.39
MILE	53.10	834.75	399430.	7.28	54872.	2747.	9.81	0.0200	0.	61.	0.29
MILE	51.00	833.37	399374.	7.65	52176.	3502.	9.83	0.0200	0.	64.	0.35
MILE	48.30	832.73	399258.	5.74	69516.	7161.	12.25	0.0200	0.	64.	0.32
MILE	46.20	832.05	399142.	6.43	62079.	6993.	11.96	0.0200	0.	70.	0.38
MILE	44.10	832.07	399059.	3.84	104056.	3291.	11.29	0.0300	0.	77.	0.12
MILE	43.70	830.56	399050.	10.05	39689.	3184.	13.83	0.0300	0.	78.	0.50
MILE	42.00	830.80	399020.	4.27	93356.	3143.	10.21	0.0300	0.	81.	0.14
MILE	39.10	828.67	398976.	7.46	53484.	3038.	13.13	0.0230	0.	78.	0.31
MILE	37.00	828.77	398956.	4.22	94592.	2120.	13.39	0.0280	0.	77.	0.11
MILE	36.00	827.81	398950.	7.62	52340.	1520.	13.63	0.0280	0.	79.	0.23
MILE	34.60	827.55	398944.	5.82	68596.	2206.	14.76	0.0280	0.	79.	0.18
MILE	33.60	827.85	398937.	2.49	159898.	4092.	14.18	0.0290	0.	85.	0.07
MILE	31.50	827.10	398920.	6.05	65905.	3183.	15.14	0.0250	0.	88.	0.23
MILE	30.10	826.85	398917.	5.47	72930.	1303.	14.29	0.0200	0.	86.	0.13
MILE	29.00	826.68	398915.	5.52	72329.	1829.	15.73	0.0200	0.	87.	0.15
MILE	27.30	826.46	398913.	5.51	72389.	1712.	16.08	0.0230	0.	89.	0.15
MILE	25.20	826.30	398911.	4.77	83695.	1671.	17.05	0.0230	0.	92.	0.12
MILE	23.10	825.91	398910.	5.43	73496.	1924.	15.79	0.0230	0.	96.	0.15

0DATE 10-17-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 20.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	887.47	400000.	12.11	33029.	1031.	10.44	0.0290	0.	69.	0.38
MILE	77.70	885.10	399993.	9.40	42546.	1260.	11.44	0.0400	0.	74.	0.29
MILE	75.60	877.42	399979.	10.65	37571.	2653.	10.55	0.0400	0.	71.	0.50
MILE	73.50	867.00	399955.	12.19	32797.	2026.	10.97	0.0330	0.	68.	0.53
MILE	71.40	864.28	399933.	7.89	50658.	1665.	11.79	0.0400	0.	66.	0.25
MILE	69.30	860.09	399910.	9.01	44405.	1613.	10.89	0.0340	0.	61.	0.30
MILE	67.20	857.93	399867.	5.89	67878.	4142.	10.46	0.0340	0.	67.	0.26
MILE	65.10	854.18	399795.	7.85	50917.	4865.	10.57	0.0320	0.	67.	0.43
MILE	63.00	852.65	399728.	4.93	81053.	3192.	8.78	0.0400	0.	72.	0.17
MILE	60.90	848.09	399676.	7.23	55248.	2861.	9.12	0.0450	0.	72.	0.29
MILE	58.80	840.04	399629.	8.25	48412.	2160.	8.68	0.0400	0.	67.	0.31
MILE	57.00	838.33	399598.	8.10	49334.	2278.	8.83	0.0200	0.	64.	0.31
MILE	55.00	835.80	399563.	9.52	41985.	2309.	8.80	0.0200	0.	62.	0.39
MILE	53.10	834.76	399528.	7.28	54879.	2748.	9.81	0.0200	0.	61.	0.29
MILE	51.00	833.37	399483.	7.66	52182.	3503.	9.83	0.0200	0.	64.	0.35
MILE	48.30	832.74	399388.	5.74	69524.	7161.	12.25	0.0200	0.	64.	0.32
MILE	46.20	832.06	399294.	6.43	62085.	6994.	11.96	0.0200	0.	70.	0.38
MILE	44.10	832.08	399226.	3.84	104067.	3291.	11.29	0.0300	0.	77.	0.12
MILE	43.70	830.56	399219.	10.06	39691.	3184.	13.83	0.0300	0.	78.	0.50
MILE	42.00	830.81	399194.	4.28	93366.	3143.	10.21	0.0300	0.	81.	0.14
MILE	39.10	828.67	399158.	7.46	53486.	3038.	13.13	0.0230	0.	78.	0.31
MILE	37.00	828.77	399142.	4.22	94596.	2120.	13.39	0.0280	0.	77.	0.11
MILE	36.00	827.82	399137.	7.63	52341.	1520.	13.63	0.0280	0.	79.	0.23

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 400 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	34.60	827.55	399133.	5.82	68597.	2206.	14.76	0.0280	0.	79.	0.18
MILE	33.60	827.85	399127.	2.50	159903.	4092.	14.18	0.0290	0.	85.	0.07
MILE	31.50	827.11	399113.	6.06	65906.	3183.	15.14	0.0250	0.	88.	0.23
MILE	30.10	826.85	399110.	5.47	72931.	1303.	14.29	0.0200	0.	86.	0.13
MILE	29.00	826.68	399109.	5.52	72330.	1829.	15.73	0.0200	0.	87.	0.15
MILE	27.30	826.46	399107.	5.51	72389.	1712.	16.08	0.0230	0.	89.	0.15
MILE	25.20	826.30	399105.	4.77	83695.	1671.	17.05	0.0230	0.	92.	0.12
MILE	23.10	825.91	399104.	5.43	73496.	1924.	15.79	0.0230	0.	96.	0.15

ODATE 10-17-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 21.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	887.47	400000.	12.11	33031.	1031.	10.44	0.0290	0.	69.	0.38
MILE	77.70	885.10	399994.	9.40	42547.	1260.	11.44	0.0400	0.	74.	0.29
MILE	75.60	877.42	399982.	10.65	37573.	2653.	10.55	0.0400	0.	71.	0.50
MILE	73.50	867.00	399963.	12.19	32799.	2026.	10.97	0.0330	0.	68.	0.53
MILE	71.40	864.28	399944.	7.89	50662.	1665.	11.79	0.0400	0.	66.	0.25
MILE	69.30	860.10	399925.	9.01	44408.	1613.	10.89	0.0340	0.	61.	0.30
MILE	67.20	857.94	399889.	5.89	67883.	4142.	10.46	0.0340	0.	67.	0.26
MILE	65.10	854.18	399829.	7.85	50921.	4866.	10.57	0.0320	0.	67.	0.43
MILE	63.00	852.65	399773.	4.93	81063.	3192.	8.78	0.0400	0.	72.	0.17
MILE	60.90	848.10	399730.	7.23	55257.	2861.	9.12	0.0450	0.	72.	0.29
MILE	58.80	840.05	399692.	8.26	48418.	2160.	8.68	0.0400	0.	67.	0.31
MILE	57.00	838.34	399667.	8.10	49341.	2279.	8.83	0.0200	0.	64.	0.31
MILE	55.00	835.80	399637.	9.52	41990.	2309.	8.80	0.0200	0.	62.	0.39
MILE	53.10	834.76	399609.	7.28	54885.	2748.	9.81	0.0200	0.	61.	0.29
MILE	51.00	833.37	399572.	7.66	52187.	3503.	9.83	0.0200	0.	64.	0.35
MILE	48.30	832.74	399495.	5.75	69530.	7162.	12.25	0.0200	0.	64.	0.32
MILE	46.20	832.06	399418.	6.43	62090.	6995.	11.96	0.0200	0.	70.	0.38
MILE	44.10	832.08	399362.	3.84	104076.	3291.	11.29	0.0300	0.	77.	0.12
MILE	43.70	830.56	399356.	10.06	39693.	3184.	13.83	0.0300	0.	78.	0.50
MILE	42.00	830.81	399336.	4.28	93374.	3144.	10.21	0.0300	0.	81.	0.14
MILE	39.10	828.68	399307.	7.47	53488.	3038.	13.13	0.0230	0.	78.	0.31
MILE	37.00	828.77	399293.	4.22	94600.	2120.	13.39	0.0280	0.	77.	0.11
MILE	36.00	827.82	399289.	7.63	52343.	1520.	13.63	0.0280	0.	79.	0.23
MILE	34.60	827.55	399286.	5.82	68598.	2206.	14.76	0.0280	0.	79.	0.18
MILE	33.60	827.86	399281.	2.50	159906.	4092.	14.18	0.0290	0.	85.	0.07
MILE	31.50	827.11	399270.	6.06	65907.	3183.	15.14	0.0250	0.	88.	0.23
MILE	30.10	826.85	399267.	5.47	72932.	1303.	14.29	0.0200	0.	86.	0.13
MILE	29.00	826.68	399266.	5.52	72330.	1829.	15.73	0.0200	0.	87.	0.15
MILE	27.30	826.46	399265.	5.52	72390.	1712.	16.08	0.0230	0.	89.	0.15
MILE	25.20	826.30	399263.	4.77	83696.	1671.	17.06	0.0230	0.	92.	0.12
MILE	23.10	825.91	399263.	5.43	73496.	1924.	15.79	0.0230	0.	96.	0.15

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 401 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

0DATE 10-17-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	22.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL
INFLOW	DEPTH	FROUDE							
MILE	79.80	887.47	400000.	12.11	33032.	1031.	10.44	0.0290	0. 69. 0.38
MILE	77.70	885.10	399995.	9.40	42549.	1260.	11.44	0.0400	0. 74. 0.29
MILE	75.60	877.42	399985.	10.65	37574.	2653.	10.55	0.0400	0. 71. 0.50
MILE	73.50	867.00	399969.	12.19	32800.	2026.	10.97	0.0330	0. 68. 0.53
MILE	71.40	864.28	399953.	7.89	50665.	1665.	11.79	0.0400	0. 66. 0.25
MILE	69.30	860.10	399937.	9.01	44410.	1613.	10.89	0.0340	0. 61. 0.30
MILE	67.20	857.94	399907.	5.89	67887.	4142.	10.46	0.0340	0. 67. 0.26
MILE	65.10	854.19	399857.	7.85	50924.	4866.	10.57	0.0320	0. 67. 0.43
MILE	63.00	852.65	399811.	4.93	81071.	3193.	8.78	0.0400	0. 72. 0.17
MILE	60.90	848.10	399776.	7.23	55263.	2861.	9.12	0.0450	0. 72. 0.29
MILE	58.80	840.05	399744.	8.26	48423.	2160.	8.68	0.0400	0. 67. 0.31
MILE	57.00	838.34	399723.	8.10	49347.	2279.	8.83	0.0200	0. 64. 0.31
MILE	55.00	835.81	399699.	9.52	41994.	2310.	8.80	0.0200	0. 62. 0.39
MILE	53.10	834.76	399676.	7.28	54890.	2748.	9.81	0.0200	0. 61. 0.29
MILE	51.00	833.38	399646.	7.66	52191.	3503.	9.83	0.0200	0. 64. 0.35
MILE	48.30	832.74	399582.	5.75	69535.	7163.	12.25	0.0200	0. 64. 0.33
MILE	46.20	832.06	399519.	6.43	62094.	6995.	11.96	0.0200	0. 70. 0.38
MILE	44.10	832.09	399474.	3.84	104084.	3292.	11.29	0.0300	0. 77. 0.12
MILE	43.70	830.56	399469.	10.06	39695.	3184.	13.83	0.0300	0. 78. 0.50
MILE	42.00	830.81	399452.	4.28	93381.	3144.	10.21	0.0300	0. 81. 0.14
MILE	39.10	828.68	399428.	7.47	53490.	3038.	13.13	0.0230	0. 78. 0.31
MILE	37.00	828.77	399417.	4.22	94603.	2120.	13.39	0.0280	0. 77. 0.11
MILE	36.00	827.82	399414.	7.63	52344.	1520.	13.63	0.0280	0. 79. 0.23
MILE	34.60	827.55	399411.	5.82	68599.	2206.	14.76	0.0280	0. 79. 0.18
MILE	33.60	827.86	399407.	2.50	159910.	4092.	14.18	0.0290	0. 85. 0.07
MILE	31.50	827.11	399398.	6.06	65908.	3183.	15.14	0.0250	0. 88. 0.23
MILE	30.10	826.85	399396.	5.48	72932.	1303.	14.29	0.0200	0. 86. 0.13
MILE	29.00	826.68	399395.	5.52	72331.	1829.	15.73	0.0200	0. 87. 0.15
MILE	27.30	826.46	399394.	5.52	72390.	1712.	16.08	0.0230	0. 89. 0.15
MILE	25.20	826.30	399393.	4.77	83696.	1671.	17.06	0.0230	0. 92. 0.12
MILE	23.10	825.91	399392.	5.43	73496.	1924.	15.79	0.0230	0. 96. 0.15

0DATE 10-17-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	23.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL
INFLOW	DEPTH	FROUDE							
MILE	79.80	887.47	400000.	12.11	33033.	1031.	10.44	0.0290	0. 69. 0.38
MILE	77.70	885.11	399996.	9.40	42550.	1260.	11.44	0.0400	0. 74. 0.29
MILE	75.60	877.42	399988.	10.64	37575.	2653.	10.55	0.0400	0. 71. 0.50
MILE	73.50	867.00	399974.	12.19	32801.	2026.	10.97	0.0330	0. 68. 0.53
MILE	71.40	864.28	399961.	7.89	50667.	1665.	11.79	0.0400	0. 66. 0.25

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 402 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 69.30	860.10	399947.	9.01	44412.	1613.	10.89	0.0340	0.	61.	0.30
MILE 67.20	857.94	399923.	5.89	67891.	4142.	10.46	0.0340	0.	67.	0.26
MILE 65.10	854.19	399881.	7.85	50927.	4866.	10.57	0.0320	0.	67.	0.43
MILE 63.00	852.66	399843.	4.93	81078.	3193.	8.79	0.0400	0.	72.	0.17
MILE 60.90	848.10	399813.	7.23	55269.	2861.	9.12	0.0450	0.	72.	0.29
MILE 58.80	840.05	399787.	8.26	48427.	2161.	8.68	0.0400	0.	67.	0.31
MILE 57.00	838.34	399770.	8.10	49352.	2279.	8.83	0.0200	0.	64.	0.31
MILE 55.00	835.81	399750.	9.52	41998.	2310.	8.80	0.0200	0.	62.	0.39
MILE 53.10	834.77	399731.	7.28	54894.	2748.	9.81	0.0200	0.	61.	0.29
MILE 51.00	833.38	399706.	7.66	52195.	3503.	9.83	0.0200	0.	64.	0.35
MILE 48.30	832.75	399654.	5.75	69539.	7163.	12.25	0.0200	0.	64.	0.33
MILE 46.20	832.06	399602.	6.44	62098.	6995.	11.96	0.0200	0.	70.	0.38
MILE 44.10	832.09	399565.	3.84	104090.	3292.	11.29	0.0300	0.	77.	0.12
MILE 43.70	830.57	399561.	10.07	39696.	3184.	13.83	0.0300	0.	78.	0.50
MILE 42.00	830.81	399547.	4.28	93386.	3144.	10.21	0.0300	0.	81.	0.14
MILE 39.10	828.68	399528.	7.47	53491.	3038.	13.13	0.0230	0.	78.	0.31
MILE 37.00	828.77	399519.	4.22	94605.	2120.	13.39	0.0280	0.	77.	0.11
MILE 36.00	827.82	399516.	7.63	52345.	1520.	13.63	0.0280	0.	79.	0.23
MILE 34.60	827.55	399514.	5.82	68600.	2206.	14.76	0.0280	0.	79.	0.18
MILE 33.60	827.86	399510.	2.50	159912.	4092.	14.18	0.0290	0.	85.	0.07
MILE 31.50	827.11	399503.	6.06	65908.	3183.	15.14	0.0250	0.	88.	0.23
MILE 30.10	826.85	399501.	5.48	72933.	1303.	14.29	0.0200	0.	86.	0.13
MILE 29.00	826.68	399500.	5.52	72331.	1829.	15.73	0.0200	0.	87.	0.15
MILE 27.30	826.46	399499.	5.52	72390.	1712.	16.08	0.0230	0.	89.	0.15
MILE 25.20	826.30	399499.	4.77	83696.	1671.	17.06	0.0230	0.	92.	0.12
MILE 23.10	825.91	399498.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.15

0DATE 10-18-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 0.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	887.48	400000.	12.11	33034.	1031.	10.44	0.0290	0.	69.	0.38
MILE 77.70	885.11	399997.	9.40	42551.	1260.	11.44	0.0400	0.	74.	0.29
MILE 75.60	877.42	399990.	10.64	37576.	2653.	10.55	0.0400	0.	71.	0.50
MILE 73.50	867.00	399978.	12.19	32802.	2026.	10.97	0.0330	0.	68.	0.53
MILE 71.40	864.29	399967.	7.89	50669.	1665.	11.79	0.0400	0.	66.	0.25
MILE 69.30	860.10	399956.	9.01	44414.	1613.	10.89	0.0340	0.	61.	0.30
MILE 67.20	857.94	399935.	5.89	67894.	4142.	10.46	0.0340	0.	67.	0.26
MILE 65.10	854.19	399901.	7.85	50929.	4866.	10.57	0.0320	0.	67.	0.43
MILE 63.00	852.66	399869.	4.93	81084.	3193.	8.79	0.0400	0.	72.	0.17
MILE 60.90	848.11	399845.	7.23	55274.	2861.	9.12	0.0450	0.	72.	0.29
MILE 58.80	840.05	399823.	8.26	48430.	2161.	8.68	0.0400	0.	67.	0.31
MILE 57.00	838.35	399809.	8.10	49356.	2279.	8.83	0.0200	0.	64.	0.31
MILE 55.00	835.81	399793.	9.52	42000.	2310.	8.80	0.0200	0.	62.	0.39
MILE 53.10	834.77	399777.	7.28	54897.	2748.	9.81	0.0200	0.	61.	0.29
MILE 51.00	833.38	399757.	7.66	52197.	3504.	9.83	0.0200	0.	64.	0.35
MILE 48.30	832.75	399714.	5.75	69542.	7163.	12.25	0.0200	0.	64.	0.33

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 403 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	46.20	832.07	399671.	6.44	62101.	6996.	11.96	0.0200	0.	70.	0.38
MILE	44.10	832.09	399640.	3.84	104095.	3292.	11.29	0.0300	0.	77.	0.12
MILE	43.70	830.57	399637.	10.07	39697.	3184.	13.83	0.0300	0.	78.	0.50
MILE	42.00	830.81	399626.	4.28	93391.	3144.	10.21	0.0300	0.	81.	0.14
MILE	39.10	828.68	399609.	7.47	53492.	3038.	13.13	0.0230	0.	78.	0.31
MILE	37.00	828.78	399602.	4.22	94608.	2120.	13.39	0.0280	0.	77.	0.11
MILE	36.00	827.82	399600.	7.63	52345.	1520.	13.63	0.0280	0.	79.	0.23
MILE	34.60	827.55	399598.	5.82	68601.	2206.	14.76	0.0280	0.	79.	0.18
MILE	33.60	827.86	399595.	2.50	159914.	4092.	14.18	0.0290	0.	85.	0.07
MILE	31.50	827.11	399589.	6.06	65909.	3184.	15.14	0.0250	0.	88.	0.23
MILE	30.10	826.85	399588.	5.48	72933.	1303.	14.29	0.0200	0.	86.	0.13
MILE	29.00	826.68	399587.	5.52	72332.	1829.	15.73	0.0200	0.	87.	0.15
MILE	27.30	826.46	399586.	5.52	72391.	1712.	16.08	0.0230	0.	89.	0.15
MILE	25.20	826.30	399585.	4.77	83696.	1671.	17.06	0.0230	0.	92.	0.12
MILE	23.10	825.91	399585.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

ODATE 10-18-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	1.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL	
INFLOW	DEPTH	FROUDE									
MILE	79.80	887.48	400000.	12.11	33035.	1031.	10.44	0.0290	0.	69.	0.38
MILE	77.70	885.11	399997.	9.40	42552.	1260.	11.44	0.0400	0.	74.	0.29
MILE	75.60	877.42	399991.	10.64	37577.	2653.	10.55	0.0400	0.	71.	0.50
MILE	73.50	867.00	399982.	12.19	32803.	2026.	10.97	0.0330	0.	68.	0.53
MILE	71.40	864.29	399973.	7.89	50670.	1665.	11.79	0.0400	0.	66.	0.25
MILE	69.30	860.10	399963.	9.01	44415.	1613.	10.89	0.0340	0.	61.	0.30
MILE	67.20	857.94	399946.	5.89	67896.	4143.	10.46	0.0340	0.	67.	0.26
MILE	65.10	854.19	399918.	7.85	50931.	4867.	10.57	0.0320	0.	67.	0.43
MILE	63.00	852.66	399891.	4.93	81089.	3193.	8.79	0.0400	0.	72.	0.17
MILE	60.90	848.11	399871.	7.23	55277.	2861.	9.12	0.0450	0.	72.	0.29
MILE	58.80	840.06	399853.	8.26	48433.	2161.	8.68	0.0400	0.	67.	0.31
MILE	57.00	838.35	399841.	8.10	49359.	2279.	8.83	0.0200	0.	64.	0.31
MILE	55.00	835.81	399828.	9.52	42003.	2310.	8.80	0.0200	0.	62.	0.39
MILE	53.10	834.77	399815.	7.28	54899.	2749.	9.81	0.0200	0.	61.	0.29
MILE	51.00	833.38	399798.	7.66	52200.	3504.	9.83	0.0200	0.	64.	0.35
MILE	48.30	832.75	399763.	5.75	69545.	7164.	12.25	0.0200	0.	64.	0.33
MILE	46.20	832.07	399727.	6.44	62103.	6996.	11.96	0.0200	0.	70.	0.38
MILE	44.10	832.09	399702.	3.84	104099.	3292.	11.29	0.0300	0.	77.	0.12
MILE	43.70	830.57	399699.	10.07	39698.	3184.	13.83	0.0300	0.	78.	0.50
MILE	42.00	830.82	399690.	4.28	93395.	3144.	10.21	0.0300	0.	81.	0.14
MILE	39.10	828.68	399677.	7.47	53493.	3038.	13.13	0.0230	0.	78.	0.31
MILE	37.00	828.78	399671.	4.22	94609.	2120.	13.39	0.0280	0.	77.	0.11
MILE	36.00	827.82	399669.	7.64	52346.	1520.	13.63	0.0280	0.	79.	0.23
MILE	34.60	827.55	399667.	5.83	68602.	2206.	14.76	0.0280	0.	79.	0.18
MILE	33.60	827.86	399665.	2.50	159916.	4092.	14.18	0.0290	0.	85.	0.07
MILE	31.50	827.11	399660.	6.06	65909.	3184.	15.14	0.0250	0.	88.	0.23
MILE	30.10	826.85	399659.	5.48	72934.	1303.	14.29	0.0200	0.	86.	0.13

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 404 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	29.00	826.68	399658.	5.53	72332.	1829.	15.73	0.0200	0.	87.	0.15
MILE	27.30	826.47	399657.	5.52	72391.	1712.	16.08	0.0230	0.	89.	0.15
MILE	25.20	826.30	399657.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE	23.10	825.91	399657.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

ODATE 10-18-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 2.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	887.48	400000.	12.11	33035.	1031.	10.44	0.0290	0.	69.	0.38
MILE	77.70	885.11	399998.	9.40	42553.	1260.	11.44	0.0400	0.	74.	0.29
MILE	75.60	877.42	399993.	10.64	37577.	2653.	10.55	0.0400	0.	71.	0.50
MILE	73.50	867.01	399985.	12.19	32803.	2026.	10.97	0.0330	0.	68.	0.53
MILE	71.40	864.29	399977.	7.89	50672.	1665.	11.79	0.0400	0.	66.	0.25
MILE	69.30	860.10	399969.	9.00	44417.	1613.	10.89	0.0340	0.	61.	0.30
MILE	67.20	857.95	399955.	5.89	67898.	4143.	10.46	0.0340	0.	67.	0.26
MILE	65.10	854.19	399931.	7.85	50933.	4867.	10.57	0.0320	0.	67.	0.43
MILE	63.00	852.66	399910.	4.93	81092.	3193.	8.79	0.0400	0.	72.	0.17
MILE	60.90	848.11	399893.	7.23	55281.	2861.	9.12	0.0450	0.	72.	0.29
MILE	58.80	840.06	399878.	8.26	48435.	2161.	8.68	0.0400	0.	67.	0.31
MILE	57.00	838.35	399868.	8.10	49362.	2279.	8.83	0.0200	0.	64.	0.31
MILE	55.00	835.82	399857.	9.52	42005.	2310.	8.80	0.0200	0.	62.	0.39
MILE	53.10	834.77	399846.	7.28	54902.	2749.	9.81	0.0200	0.	61.	0.29
MILE	51.00	833.38	399832.	7.66	52202.	3504.	9.83	0.0200	0.	64.	0.35
MILE	48.30	832.75	399803.	5.75	69547.	7164.	12.25	0.0200	0.	64.	0.33
MILE	46.20	832.07	399774.	6.44	62105.	6996.	11.96	0.0200	0.	70.	0.38
MILE	44.10	832.09	399753.	3.84	104102.	3292.	11.29	0.0300	0.	77.	0.12
MILE	43.70	830.57	399751.	10.07	39699.	3184.	13.83	0.0300	0.	78.	0.50
MILE	42.00	830.82	399743.	4.28	93398.	3144.	10.21	0.0300	0.	81.	0.14
MILE	39.10	828.68	399732.	7.47	53494.	3039.	13.13	0.0230	0.	78.	0.31
MILE	37.00	828.78	399727.	4.22	94611.	2120.	13.39	0.0280	0.	77.	0.11
MILE	36.00	827.82	399726.	7.64	52346.	1520.	13.63	0.0280	0.	79.	0.23
MILE	34.60	827.55	399724.	5.83	68602.	2206.	14.76	0.0280	0.	79.	0.18
MILE	33.60	827.86	399722.	2.50	159918.	4092.	14.18	0.0290	0.	85.	0.07
MILE	31.50	827.11	399718.	6.06	65909.	3184.	15.14	0.0250	0.	88.	0.23
MILE	30.10	826.85	399717.	5.48	72934.	1303.	14.29	0.0200	0.	86.	0.13
MILE	29.00	826.68	399717.	5.53	72332.	1829.	15.73	0.0200	0.	87.	0.15
MILE	27.30	826.47	399716.	5.52	72391.	1712.	16.08	0.0230	0.	89.	0.15
MILE	25.20	826.30	399716.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE	23.10	825.91	399716.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

ODATE 10-18-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 405 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

TIME	3.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL
INFLOW	DEPTH	FROUDE								
MILE	79.80	887.48	400000.	12.11	33036.	1031.	10.44	0.0290	0.	69. 0.38
MILE	77.70	885.11	399998.	9.40	42553.	1260.	11.44	0.0400	0.	74. 0.29
MILE	75.60	877.42	399994.	10.64	37578.	2653.	10.55	0.0400	0.	71. 0.50
MILE	73.50	867.01	399987.	12.19	32804.	2026.	10.97	0.0330	0.	68. 0.53
MILE	71.40	864.29	399981.	7.89	50673.	1665.	11.79	0.0400	0.	66. 0.25
MILE	69.30	860.10	399975.	9.00	44418.	1613.	10.89	0.0340	0.	61. 0.30
MILE	67.20	857.95	399963.	5.89	67899.	4143.	10.46	0.0340	0.	67. 0.26
MILE	65.10	854.19	399943.	7.85	50934.	4867.	10.57	0.0320	0.	67. 0.43
MILE	63.00	852.66	399925.	4.93	81096.	3193.	8.79	0.0400	0.	72. 0.17
MILE	60.90	848.11	399911.	7.23	55283.	2862.	9.12	0.0450	0.	72. 0.29
MILE	58.80	840.06	399899.	8.26	48437.	2161.	8.68	0.0400	0.	67. 0.31
MILE	57.00	838.35	399890.	8.10	49364.	2279.	8.83	0.0200	0.	64. 0.31
MILE	55.00	835.82	399881.	9.52	42006.	2310.	8.80	0.0200	0.	62. 0.39
MILE	53.10	834.77	399872.	7.28	54903.	2749.	9.81	0.0200	0.	61. 0.29
MILE	51.00	833.39	399861.	7.66	52203.	3504.	9.83	0.0200	0.	64. 0.35
MILE	48.30	832.75	399837.	5.75	69549.	7164.	12.25	0.0200	0.	64. 0.33
MILE	46.20	832.07	399813.	6.44	62107.	6996.	11.97	0.0200	0.	70. 0.38
MILE	44.10	832.09	399795.	3.84	104105.	3292.	11.29	0.0300	0.	77. 0.12
MILE	43.70	830.57	399793.	10.07	39700.	3185.	13.83	0.0300	0.	78. 0.50
MILE	42.00	830.82	399787.	4.28	93400.	3144.	10.21	0.0300	0.	81. 0.14
MILE	39.10	828.68	399778.	7.47	53495.	3039.	13.13	0.0230	0.	78. 0.31
MILE	37.00	828.78	399774.	4.23	94612.	2120.	13.39	0.0280	0.	77. 0.11
MILE	36.00	827.82	399773.	7.64	52347.	1520.	13.63	0.0280	0.	79. 0.23
MILE	34.60	827.55	399771.	5.83	68603.	2206.	14.76	0.0280	0.	79. 0.18
MILE	33.60	827.86	399770.	2.50	159919.	4092.	14.18	0.0290	0.	85. 0.07
MILE	31.50	827.11	399766.	6.07	65910.	3184.	15.14	0.0250	0.	88. 0.23
MILE	30.10	826.85	399766.	5.48	72934.	1303.	14.29	0.0200	0.	86. 0.13
MILE	29.00	826.68	399765.	5.53	72332.	1829.	15.73	0.0200	0.	87. 0.15
MILE	27.30	826.47	399765.	5.52	72391.	1712.	16.08	0.0230	0.	89. 0.15
MILE	25.20	826.30	399764.	4.78	83697.	1671.	17.06	0.0230	0.	92. 0.12
MILE	23.10	825.91	399764.	5.44	73496.	1924.	15.79	0.0230	0.	96. 0.16

ODATE 10-18-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	4.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL
INFLOW	DEPTH	FROUDE								
MILE	79.80	887.48	400000.	12.11	33036.	1031.	10.44	0.0290	0.	69. 0.38
MILE	77.70	885.11	399998.	9.40	42554.	1260.	11.44	0.0400	0.	74. 0.29
MILE	75.60	877.42	399995.	10.64	37578.	2653.	10.55	0.0400	0.	71. 0.50
MILE	73.50	867.01	399989.	12.19	32804.	2026.	10.97	0.0330	0.	68. 0.53
MILE	71.40	864.29	399984.	7.89	50674.	1665.	11.79	0.0400	0.	66. 0.25
MILE	69.30	860.11	399979.	9.00	44418.	1613.	10.89	0.0340	0.	61. 0.30
MILE	67.20	857.95	399969.	5.89	67901.	4143.	10.46	0.0340	0.	67. 0.26
MILE	65.10	854.19	399953.	7.85	50935.	4867.	10.57	0.0320	0.	67. 0.43

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 406 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	63.00	852.66	399937.	4.93	81098.	3193.	8.79	0.0400	0.	72.	0.17
MILE	60.90	848.11	399926.	7.23	55285.	2862.	9.12	0.0450	0.	72.	0.29
MILE	58.80	840.06	399916.	8.26	48438.	2161.	8.68	0.0400	0.	67.	0.31
MILE	57.00	838.35	399909.	8.10	49366.	2279.	8.83	0.0200	0.	64.	0.31
MILE	55.00	835.82	399901.	9.52	42008.	2310.	8.80	0.0200	0.	62.	0.39
MILE	53.10	834.77	399894.	7.28	54905.	2749.	9.81	0.0200	0.	61.	0.29
MILE	51.00	833.39	399884.	7.66	52204.	3504.	9.83	0.0200	0.	64.	0.35
MILE	48.30	832.75	399864.	5.75	69550.	7164.	12.25	0.0200	0.	64.	0.33
MILE	46.20	832.07	399844.	6.44	62108.	6996.	11.97	0.0200	0.	70.	0.38
MILE	44.10	832.09	399830.	3.84	104108.	3292.	11.29	0.0300	0.	77.	0.12
MILE	43.70	830.57	399829.	10.07	39700.	3185.	13.83	0.0300	0.	78.	0.50
MILE	42.00	830.82	399823.	4.28	93402.	3144.	10.21	0.0300	0.	81.	0.14
MILE	39.10	828.68	399816.	7.47	53495.	3039.	13.13	0.0230	0.	78.	0.31
MILE	37.00	828.78	399812.	4.23	94613.	2120.	13.39	0.0280	0.	77.	0.11
MILE	36.00	827.82	399811.	7.64	52347.	1520.	13.63	0.0280	0.	79.	0.23
MILE	34.60	827.55	399810.	5.83	68603.	2206.	14.76	0.0280	0.	79.	0.18
MILE	33.60	827.86	399809.	2.50	159920.	4092.	14.18	0.0290	0.	85.	0.07
MILE	31.50	827.11	399806.	6.07	65910.	3184.	15.14	0.0250	0.	88.	0.23
MILE	30.10	826.85	399806.	5.48	72934.	1303.	14.29	0.0200	0.	86.	0.13
MILE	29.00	826.68	399805.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE	27.30	826.47	399805.	5.52	72391.	1712.	16.08	0.0230	0.	89.	0.15
MILE	25.20	826.30	399805.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE	23.10	825.91	399804.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

0DATE 10-18-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	5.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
INFLOW	DEPTH	FROUDE									
MILE	79.80	887.48	400000.	12.11	33036.	1031.	10.44	0.0290	0.	69.	0.38
MILE	77.70	885.11	399999.	9.40	42554.	1260.	11.44	0.0400	0.	74.	0.29
MILE	75.60	877.42	399996.	10.64	37579.	2653.	10.55	0.0400	0.	71.	0.50
MILE	73.50	867.01	399991.	12.19	32805.	2026.	10.97	0.0330	0.	68.	0.53
MILE	71.40	864.29	399987.	7.89	50674.	1665.	11.79	0.0400	0.	66.	0.25
MILE	69.30	860.11	399982.	9.00	44419.	1613.	10.89	0.0340	0.	61.	0.30
MILE	67.20	857.95	399974.	5.89	67902.	4143.	10.46	0.0340	0.	67.	0.26
MILE	65.10	854.20	399961.	7.85	50936.	4867.	10.57	0.0320	0.	67.	0.43
MILE	63.00	852.66	399948.	4.93	81101.	3193.	8.79	0.0400	0.	72.	0.17
MILE	60.90	848.11	399938.	7.23	55287.	2862.	9.12	0.0450	0.	72.	0.29
MILE	58.80	840.06	399930.	8.26	48440.	2161.	8.68	0.0400	0.	67.	0.31
MILE	57.00	838.35	399924.	8.10	49368.	2279.	8.83	0.0200	0.	64.	0.31
MILE	55.00	835.82	399918.	9.52	42009.	2310.	8.80	0.0200	0.	62.	0.39
MILE	53.10	834.77	399912.	7.28	54906.	2749.	9.81	0.0200	0.	61.	0.29
MILE	51.00	833.39	399904.	7.66	52206.	3504.	9.83	0.0200	0.	64.	0.35
MILE	48.30	832.75	399887.	5.75	69551.	7164.	12.25	0.0200	0.	64.	0.33
MILE	46.20	832.07	399871.	6.44	62109.	6997.	11.97	0.0200	0.	70.	0.38
MILE	44.10	832.10	399859.	3.84	104110.	3292.	11.29	0.0300	0.	77.	0.12
MILE	43.70	830.57	399858.	10.07	39701.	3185.	13.83	0.0300	0.	78.	0.50

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 407 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	42.00	830.82	399853.	4.28	93404.	3144.	10.21	0.0300	0.	81.	0.14
MILE	39.10	828.68	399847.	7.47	53496.	3039.	13.13	0.0230	0.	78.	0.31
MILE	37.00	828.78	399844.	4.23	94613.	2120.	13.39	0.0280	0.	77.	0.11
MILE	36.00	827.82	399843.	7.64	52347.	1520.	13.63	0.0280	0.	79.	0.23
MILE	34.60	827.55	399843.	5.83	68603.	2206.	14.76	0.0280	0.	79.	0.18
MILE	33.60	827.86	399842.	2.50	159921.	4092.	14.18	0.0290	0.	85.	0.07
MILE	31.50	827.11	399839.	6.07	65910.	3184.	15.14	0.0250	0.	88.	0.23
MILE	30.10	826.85	399839.	5.48	72935.	1303.	14.29	0.0200	0.	86.	0.13
MILE	29.00	826.68	399839.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE	27.30	826.47	399838.	5.52	72391.	1712.	16.08	0.0230	0.	89.	0.15
MILE	25.20	826.30	399838.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE	23.10	825.91	399838.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

ODATE 10-18-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 6.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	887.48	400000.	12.11	33037.	1031.	10.44	0.0290	0.	69.	0.38
MILE	77.70	885.11	399999.	9.40	42554.	1260.	11.44	0.0400	0.	74.	0.29
MILE	75.60	877.42	399997.	10.64	37579.	2653.	10.55	0.0400	0.	71.	0.50
MILE	73.50	867.01	399993.	12.19	32805.	2026.	10.97	0.0330	0.	68.	0.53
MILE	71.40	864.29	399989.	7.89	50675.	1665.	11.79	0.0400	0.	66.	0.25
MILE	69.30	860.11	399985.	9.00	44420.	1613.	10.89	0.0340	0.	61.	0.30
MILE	67.20	857.95	399979.	5.89	67903.	4143.	10.46	0.0340	0.	67.	0.26
MILE	65.10	854.20	399967.	7.85	50937.	4867.	10.57	0.0320	0.	67.	0.43
MILE	63.00	852.67	399957.	4.93	81103.	3193.	8.79	0.0400	0.	72.	0.17
MILE	60.90	848.11	399949.	7.23	55289.	2862.	9.12	0.0450	0.	72.	0.29
MILE	58.80	840.06	399942.	8.26	48441.	2161.	8.68	0.0400	0.	67.	0.31
MILE	57.00	838.35	399937.	8.10	49369.	2279.	8.83	0.0200	0.	64.	0.31
MILE	55.00	835.82	399932.	9.52	42010.	2310.	8.80	0.0200	0.	62.	0.39
MILE	53.10	834.78	399927.	7.28	54907.	2749.	9.81	0.0200	0.	61.	0.29
MILE	51.00	833.39	399920.	7.66	52206.	3504.	9.83	0.0200	0.	64.	0.35
MILE	48.30	832.76	399907.	5.75	69552.	7164.	12.25	0.0200	0.	64.	0.33
MILE	46.20	832.07	399893.	6.44	62110.	6997.	11.97	0.0200	0.	70.	0.38
MILE	44.10	832.10	399883.	3.84	104111.	3292.	11.29	0.0300	0.	77.	0.12
MILE	43.70	830.57	399882.	10.07	39701.	3185.	13.83	0.0300	0.	78.	0.50
MILE	42.00	830.82	399878.	4.28	93406.	3144.	10.21	0.0300	0.	81.	0.14
MILE	39.10	828.68	399873.	7.47	53496.	3039.	13.13	0.0230	0.	78.	0.31
MILE	37.00	828.78	399871.	4.23	94614.	2120.	13.39	0.0280	0.	77.	0.11
MILE	36.00	827.82	399870.	7.64	52348.	1520.	13.63	0.0280	0.	79.	0.23
MILE	34.60	827.55	399869.	5.83	68603.	2206.	14.76	0.0280	0.	79.	0.18
MILE	33.60	827.86	399869.	2.50	159921.	4092.	14.18	0.0290	0.	85.	0.07
MILE	31.50	827.11	399867.	6.07	65910.	3184.	15.14	0.0250	0.	88.	0.23
MILE	30.10	826.85	399866.	5.48	72935.	1303.	14.29	0.0200	0.	86.	0.13
MILE	29.00	826.68	399866.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE	27.30	826.47	399866.	5.52	72391.	1712.	16.08	0.0230	0.	89.	0.15
MILE	25.20	826.30	399865.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 408 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 23.10 825.91 399865. 5.44 73496. 1924. 15.79 0.0230 0. 96. 0.16

ODATE 10-18-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 7.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	887.48	400000.	12.11	33037.	1031.	10.44	0.0290	0.	69.	0.38
MILE 77.70	885.11	399999.	9.40	42555.	1260.	11.44	0.0400	0.	74.	0.28
MILE 75.60	877.42	399997.	10.64	37579.	2653.	10.55	0.0400	0.	71.	0.50
MILE 73.50	867.01	399994.	12.19	32805.	2026.	10.97	0.0330	0.	68.	0.53
MILE 71.40	864.29	399991.	7.89	50676.	1665.	11.79	0.0400	0.	66.	0.25
MILE 69.30	860.11	399988.	9.00	44420.	1613.	10.89	0.0340	0.	61.	0.30
MILE 67.20	857.95	399982.	5.89	67903.	4143.	10.46	0.0340	0.	67.	0.26
MILE 65.10	854.20	399973.	7.85	50937.	4867.	10.57	0.0320	0.	67.	0.43
MILE 63.00	852.67	399964.	4.93	81104.	3193.	8.79	0.0400	0.	72.	0.17
MILE 60.90	848.12	399957.	7.23	55290.	2862.	9.12	0.0450	0.	72.	0.29
MILE 58.80	840.06	399952.	8.26	48442.	2161.	8.68	0.0400	0.	67.	0.31
MILE 57.00	838.36	399948.	8.10	49370.	2279.	8.83	0.0200	0.	64.	0.31
MILE 55.00	835.82	399943.	9.52	42011.	2310.	8.80	0.0200	0.	62.	0.39
MILE 53.10	834.78	399939.	7.28	54908.	2749.	9.81	0.0200	0.	61.	0.29
MILE 51.00	833.39	399934.	7.66	52207.	3504.	9.83	0.0200	0.	64.	0.35
MILE 48.30	832.76	399922.	5.75	69553.	7164.	12.25	0.0200	0.	64.	0.33
MILE 46.20	832.07	399911.	6.44	62111.	6997.	11.97	0.0200	0.	70.	0.38
MILE 44.10	832.10	399903.	3.84	104113.	3292.	11.29	0.0300	0.	77.	0.12
MILE 43.70	830.57	399902.	10.07	39701.	3185.	13.83	0.0300	0.	78.	0.50
MILE 42.00	830.82	399899.	4.28	93407.	3144.	10.21	0.0300	0.	81.	0.14
MILE 39.10	828.68	399895.	7.48	53496.	3039.	13.13	0.0230	0.	78.	0.31
MILE 37.00	828.78	399893.	4.23	94615.	2120.	13.39	0.0280	0.	77.	0.11
MILE 36.00	827.82	399892.	7.64	52348.	1520.	13.63	0.0280	0.	79.	0.23
MILE 34.60	827.55	399892.	5.83	68604.	2206.	14.76	0.0280	0.	79.	0.18
MILE 33.60	827.86	399891.	2.50	159922.	4092.	14.18	0.0290	0.	85.	0.07
MILE 31.50	827.11	399889.	6.07	65910.	3184.	15.14	0.0250	0.	88.	0.23
MILE 30.10	826.85	399889.	5.48	72935.	1303.	14.29	0.0200	0.	86.	0.13
MILE 29.00	826.69	399889.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE 27.30	826.47	399888.	5.52	72391.	1712.	16.08	0.0230	0.	89.	0.15
MILE 25.20	826.30	399888.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE 23.10	825.91	399888.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

ODATE 10-18-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 8.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80 887.48 400000. 12.11 33037. 1031. 10.44 0.0290 0. 69. 0.38

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 409 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	77.70	885.11	399999.	9.40	42555.	1260.	11.44	0.0400	0.	74.	0.28
MILE	75.60	877.42	399998.	10.64	37579.	2653.	10.55	0.0400	0.	71.	0.50
MILE	73.50	867.01	399995.	12.19	32805.	2026.	10.97	0.0330	0.	68.	0.53
MILE	71.40	864.29	399992.	7.89	50676.	1665.	11.79	0.0400	0.	66.	0.25
MILE	69.30	860.11	399990.	9.00	44420.	1613.	10.89	0.0340	0.	61.	0.30
MILE	67.20	857.95	399985.	5.89	67904.	4143.	10.46	0.0340	0.	67.	0.26
MILE	65.10	854.20	399977.	7.85	50938.	4867.	10.57	0.0320	0.	67.	0.43
MILE	63.00	852.67	399970.	4.93	81105.	3193.	8.79	0.0400	0.	72.	0.17
MILE	60.90	848.12	399965.	7.23	55291.	2862.	9.12	0.0450	0.	72.	0.29
MILE	58.80	840.06	399960.	8.26	48442.	2161.	8.68	0.0400	0.	67.	0.31
MILE	57.00	838.36	399957.	8.10	49371.	2279.	8.83	0.0200	0.	64.	0.31
MILE	55.00	835.82	399953.	9.52	42011.	2310.	8.80	0.0200	0.	62.	0.39
MILE	53.10	834.78	399950.	7.28	54909.	2749.	9.81	0.0200	0.	61.	0.29
MILE	51.00	833.39	399945.	7.66	52208.	3504.	9.83	0.0200	0.	64.	0.35
MILE	48.30	832.76	399936.	5.75	69554.	7165.	12.25	0.0200	0.	64.	0.33
MILE	46.20	832.07	399926.	6.44	62112.	6997.	11.97	0.0200	0.	70.	0.38
MILE	44.10	832.10	399919.	3.84	104114.	3292.	11.29	0.0300	0.	77.	0.12
MILE	43.70	830.57	399919.	10.07	39701.	3185.	13.83	0.0300	0.	78.	0.50
MILE	42.00	830.82	399916.	4.28	93408.	3144.	10.21	0.0300	0.	81.	0.14
MILE	39.10	828.68	399913.	7.48	53497.	3039.	13.13	0.0230	0.	78.	0.31
MILE	37.00	828.78	399911.	4.23	94615.	2120.	13.39	0.0280	0.	77.	0.11
MILE	36.00	827.82	399910.	7.64	52348.	1520.	13.63	0.0280	0.	79.	0.23
MILE	34.60	827.56	399910.	5.83	68604.	2206.	14.76	0.0280	0.	79.	0.18
MILE	33.60	827.86	399909.	2.50	159922.	4092.	14.18	0.0290	0.	85.	0.07
MILE	31.50	827.11	399908.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.23
MILE	30.10	826.85	399908.	5.48	72935.	1303.	14.29	0.0200	0.	86.	0.13
MILE	29.00	826.69	399908.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE	27.30	826.47	399907.	5.52	72391.	1712.	16.08	0.0230	0.	89.	0.15
MILE	25.20	826.30	399907.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE	23.10	825.91	399907.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

ODATE 10-18-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 9.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	887.48	400000.	12.11	33037.	1031.	10.44	0.0290	0.	69.	0.38
MILE	77.70	885.11	399999.	9.40	42555.	1260.	11.44	0.0400	0.	74.	0.28
MILE	75.60	877.42	399998.	10.64	37580.	2653.	10.55	0.0400	0.	71.	0.50
MILE	73.50	867.01	399996.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.53
MILE	71.40	864.29	399994.	7.89	50676.	1665.	11.79	0.0400	0.	66.	0.25
MILE	69.30	860.11	399992.	9.00	44421.	1613.	10.89	0.0340	0.	61.	0.30
MILE	67.20	857.95	399988.	5.89	67905.	4143.	10.46	0.0340	0.	67.	0.26
MILE	65.10	854.20	399981.	7.85	50938.	4867.	10.57	0.0320	0.	67.	0.43
MILE	63.00	852.67	399975.	4.93	81106.	3193.	8.79	0.0400	0.	72.	0.17
MILE	60.90	848.12	399971.	7.23	55292.	2862.	9.12	0.0450	0.	72.	0.29
MILE	58.80	840.06	399967.	8.26	48443.	2161.	8.68	0.0400	0.	67.	0.31
MILE	57.00	838.36	399964.	8.10	49372.	2279.	8.83	0.0200	0.	64.	0.31

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 410 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	55.00	835.82	399961.	9.52	42012.	2310.	8.80	0.0200	0.	62.	0.39
MILE	53.10	834.78	399958.	7.28	54909.	2749.	9.81	0.0200	0.	61.	0.29
MILE	51.00	833.39	399954.	7.66	52208.	3504.	9.83	0.0200	0.	64.	0.35
MILE	48.30	832.76	399946.	5.75	69555.	7165.	12.25	0.0200	0.	64.	0.33
MILE	46.20	832.07	399939.	6.44	62112.	6997.	11.97	0.0200	0.	70.	0.38
MILE	44.10	832.10	399933.	3.84	104115.	3292.	11.29	0.0300	0.	77.	0.12
MILE	43.70	830.57	399932.	10.07	39702.	3185.	13.83	0.0300	0.	78.	0.50
MILE	42.00	830.82	399930.	4.28	93409.	3144.	10.21	0.0300	0.	81.	0.14
MILE	39.10	828.68	399927.	7.48	53497.	3039.	13.13	0.0230	0.	78.	0.31
MILE	37.00	828.78	399926.	4.23	94616.	2120.	13.39	0.0280	0.	77.	0.11
MILE	36.00	827.82	399926.	7.64	52348.	1520.	13.63	0.0280	0.	79.	0.23
MILE	34.60	827.56	399925.	5.83	68604.	2206.	14.76	0.0280	0.	79.	0.18
MILE	33.60	827.86	399925.	2.50	159923.	4092.	14.18	0.0290	0.	85.	0.07
MILE	31.50	827.11	399924.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE	30.10	826.85	399923.	5.48	72935.	1303.	14.29	0.0200	0.	86.	0.13
MILE	29.00	826.69	399923.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE	27.30	826.47	399923.	5.52	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE	25.20	826.30	399923.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE	23.10	825.91	399923.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

ODATE 10-18-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 10.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	887.48	400000.	12.11	33037.	1031.	10.44	0.0290	0.	69.	0.38
MILE	77.70	885.11	399999.	9.40	42555.	1260.	11.44	0.0400	0.	74.	0.28
MILE	75.60	877.42	399998.	10.64	37580.	2653.	10.55	0.0400	0.	71.	0.50
MILE	73.50	867.01	399996.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.53
MILE	71.40	864.29	399995.	7.89	50677.	1665.	11.79	0.0400	0.	66.	0.25
MILE	69.30	860.11	399993.	9.00	44421.	1613.	10.89	0.0340	0.	61.	0.30
MILE	67.20	857.95	399990.	5.89	67905.	4143.	10.46	0.0340	0.	67.	0.26
MILE	65.10	854.20	399984.	7.85	50939.	4867.	10.57	0.0320	0.	67.	0.43
MILE	63.00	852.67	399979.	4.93	81107.	3193.	8.79	0.0400	0.	72.	0.17
MILE	60.90	848.12	399976.	7.23	55293.	2862.	9.12	0.0450	0.	72.	0.29
MILE	58.80	840.06	399972.	8.26	48444.	2161.	8.68	0.0400	0.	67.	0.31
MILE	57.00	838.36	399970.	8.10	49372.	2279.	8.83	0.0200	0.	64.	0.31
MILE	55.00	835.82	399968.	9.52	42012.	2310.	8.80	0.0200	0.	62.	0.39
MILE	53.10	834.78	399965.	7.28	54910.	2749.	9.81	0.0200	0.	61.	0.29
MILE	51.00	833.39	399962.	7.66	52209.	3504.	9.83	0.0200	0.	64.	0.35
MILE	48.30	832.76	399956.	5.75	69555.	7165.	12.25	0.0200	0.	64.	0.33
MILE	46.20	832.07	399949.	6.44	62113.	6997.	11.97	0.0200	0.	70.	0.38
MILE	44.10	832.10	399944.	3.84	104115.	3292.	11.29	0.0300	0.	77.	0.12
MILE	43.70	830.57	399944.	10.07	39702.	3185.	13.83	0.0300	0.	78.	0.50
MILE	42.00	830.82	399942.	4.28	93409.	3144.	10.21	0.0300	0.	81.	0.14
MILE	39.10	828.68	399940.	7.48	53497.	3039.	13.13	0.0230	0.	78.	0.31
MILE	37.00	828.78	399939.	4.23	94616.	2120.	13.39	0.0280	0.	77.	0.11
MILE	36.00	827.82	399938.	7.64	52348.	1520.	13.63	0.0280	0.	79.	0.23

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 411 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	34.60	827.56	399938.	5.83	68604.	2206.	14.76	0.0280	0.	79.	0.18
MILE	33.60	827.86	399937.	2.50	159923.	4092.	14.18	0.0290	0.	85.	0.07
MILE	31.50	827.11	399937.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE	30.10	826.85	399936.	5.48	72935.	1303.	14.29	0.0200	0.	86.	0.13
MILE	29.00	826.69	399936.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE	27.30	826.47	399936.	5.52	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE	25.20	826.30	399936.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE	23.10	825.91	399936.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

ODATE 10-18-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 11.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69.	0.38
MILE	77.70	885.11	400000.	9.40	42555.	1260.	11.44	0.0400	0.	74.	0.28
MILE	75.60	877.42	399999.	10.64	37580.	2653.	10.55	0.0400	0.	71.	0.50
MILE	73.50	867.01	399997.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.53
MILE	71.40	864.29	399996.	7.89	50677.	1665.	11.79	0.0400	0.	66.	0.25
MILE	69.30	860.11	399994.	9.00	44421.	1613.	10.89	0.0340	0.	61.	0.30
MILE	67.20	857.95	399991.	5.89	67905.	4143.	10.46	0.0340	0.	67.	0.26
MILE	65.10	854.20	399987.	7.85	50939.	4867.	10.57	0.0320	0.	67.	0.43
MILE	63.00	852.67	399983.	4.93	81108.	3193.	8.79	0.0400	0.	72.	0.17
MILE	60.90	848.12	399980.	7.23	55293.	2862.	9.12	0.0450	0.	72.	0.29
MILE	58.80	840.06	399977.	8.26	48444.	2161.	8.68	0.0400	0.	67.	0.31
MILE	57.00	838.36	399975.	8.10	49373.	2279.	8.83	0.0200	0.	64.	0.31
MILE	55.00	835.82	399973.	9.52	42013.	2310.	8.80	0.0200	0.	62.	0.39
MILE	53.10	834.78	399971.	7.28	54910.	2749.	9.81	0.0200	0.	61.	0.29
MILE	51.00	833.39	399968.	7.66	52209.	3504.	9.83	0.0200	0.	64.	0.35
MILE	48.30	832.76	399963.	5.75	69556.	7165.	12.25	0.0200	0.	64.	0.33
MILE	46.20	832.07	399958.	6.44	62113.	6997.	11.97	0.0200	0.	70.	0.38
MILE	44.10	832.10	399954.	3.84	104116.	3292.	11.29	0.0300	0.	77.	0.12
MILE	43.70	830.57	399953.	10.07	39702.	3185.	13.83	0.0300	0.	78.	0.50
MILE	42.00	830.82	399952.	4.28	93410.	3144.	10.21	0.0300	0.	81.	0.14
MILE	39.10	828.68	399950.	7.48	53497.	3039.	13.13	0.0230	0.	78.	0.31
MILE	37.00	828.78	399949.	4.23	94616.	2120.	13.39	0.0280	0.	77.	0.11
MILE	36.00	827.82	399949.	7.64	52348.	1520.	13.63	0.0280	0.	79.	0.23
MILE	34.60	827.56	399948.	5.83	68604.	2206.	14.76	0.0280	0.	79.	0.18
MILE	33.60	827.86	399948.	2.50	159923.	4092.	14.18	0.0290	0.	85.	0.07
MILE	31.50	827.11	399947.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE	30.10	826.85	399947.	5.48	72935.	1303.	14.29	0.0200	0.	86.	0.13
MILE	29.00	826.69	399947.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE	27.30	826.47	399947.	5.52	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE	25.20	826.30	399947.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE	23.10	825.91	399947.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 412 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

0DATE 10-18-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 12.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69.	0.38
MILE 77.70	885.11	400000.	9.40	42555.	1260.	11.44	0.0400	0.	74.	0.28
MILE 75.60	877.42	399999.	10.64	37580.	2653.	10.55	0.0400	0.	71.	0.50
MILE 73.50	867.01	399998.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.53
MILE 71.40	864.29	399996.	7.89	50677.	1665.	11.79	0.0400	0.	66.	0.25
MILE 69.30	860.11	399995.	9.00	44421.	1613.	10.89	0.0340	0.	61.	0.30
MILE 67.20	857.95	399993.	5.89	67906.	4143.	10.46	0.0340	0.	67.	0.26
MILE 65.10	854.20	399989.	7.85	50939.	4867.	10.57	0.0320	0.	67.	0.43
MILE 63.00	852.67	399986.	4.93	81109.	3193.	8.79	0.0400	0.	72.	0.17
MILE 60.90	848.12	399983.	7.23	55294.	2862.	9.12	0.0450	0.	72.	0.29
MILE 58.80	840.07	399981.	8.26	48444.	2161.	8.68	0.0400	0.	67.	0.31
MILE 57.00	838.36	399979.	8.10	49373.	2280.	8.83	0.0200	0.	64.	0.31
MILE 55.00	835.82	399978.	9.52	42013.	2310.	8.80	0.0200	0.	62.	0.39
MILE 53.10	834.78	399976.	7.28	54911.	2749.	9.81	0.0200	0.	61.	0.29
MILE 51.00	833.39	399974.	7.66	52209.	3504.	9.83	0.0200	0.	64.	0.35
MILE 48.30	832.76	399969.	5.75	69556.	7165.	12.25	0.0200	0.	64.	0.33
MILE 46.20	832.07	399965.	6.44	62113.	6997.	11.97	0.0200	0.	70.	0.38
MILE 44.10	832.10	399962.	3.84	104117.	3292.	11.29	0.0300	0.	77.	0.12
MILE 43.70	830.57	399961.	10.07	39702.	3185.	13.83	0.0300	0.	78.	0.50
MILE 42.00	830.82	399960.	4.28	93410.	3144.	10.21	0.0300	0.	81.	0.14
MILE 39.10	828.68	399958.	7.48	53497.	3039.	13.13	0.0230	0.	78.	0.31
MILE 37.00	828.78	399958.	4.23	94616.	2120.	13.39	0.0280	0.	77.	0.11
MILE 36.00	827.82	399957.	7.64	52348.	1520.	13.63	0.0280	0.	79.	0.23
MILE 34.60	827.56	399957.	5.83	68604.	2206.	14.76	0.0280	0.	79.	0.18
MILE 33.60	827.86	399957.	2.50	159924.	4092.	14.18	0.0290	0.	85.	0.07
MILE 31.50	827.11	399956.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE 30.10	826.85	399956.	5.48	72935.	1303.	14.29	0.0200	0.	86.	0.13
MILE 29.00	826.69	399956.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE 27.30	826.47	399956.	5.52	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE 25.20	826.30	399956.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE 23.10	825.91	399956.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

0DATE 10-18-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 13.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69.	0.38
MILE 77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74.	0.28
MILE 75.60	877.42	399999.	10.64	37580.	2653.	10.55	0.0400	0.	71.	0.50
MILE 73.50	867.01	399998.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.53
MILE 71.40	864.29	399997.	7.89	50677.	1665.	11.79	0.0400	0.	66.	0.25

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 413 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	69.30	860.11	399996.	9.00	44421.	1613.	10.89	0.0340	0.	61.	0.30
MILE	67.20	857.95	399994.	5.89	67906.	4143.	10.46	0.0340	0.	67.	0.26
MILE	65.10	854.20	399991.	7.85	50939.	4867.	10.57	0.0320	0.	67.	0.43
MILE	63.00	852.67	399988.	4.93	81109.	3193.	8.79	0.0400	0.	72.	0.17
MILE	60.90	848.12	399986.	7.23	55294.	2862.	9.12	0.0450	0.	72.	0.29
MILE	58.80	840.07	399984.	8.26	48445.	2161.	8.68	0.0400	0.	67.	0.31
MILE	57.00	838.36	399983.	8.10	49374.	2280.	8.83	0.0200	0.	64.	0.31
MILE	55.00	835.82	399981.	9.52	42013.	2310.	8.80	0.0200	0.	62.	0.39
MILE	53.10	834.78	399980.	7.28	54911.	2749.	9.81	0.0200	0.	61.	0.29
MILE	51.00	833.39	399978.	7.66	52210.	3504.	9.83	0.0200	0.	64.	0.35
MILE	48.30	832.76	399974.	5.75	69556.	7165.	12.25	0.0200	0.	64.	0.33
MILE	46.20	832.07	399971.	6.44	62113.	6997.	11.97	0.0200	0.	70.	0.38
MILE	44.10	832.10	399968.	3.84	104117.	3292.	11.29	0.0300	0.	77.	0.12
MILE	43.70	830.57	399968.	10.07	39702.	3185.	13.83	0.0300	0.	78.	0.50
MILE	42.00	830.82	399967.	4.28	93411.	3144.	10.21	0.0300	0.	81.	0.14
MILE	39.10	828.68	399965.	7.48	53497.	3039.	13.13	0.0230	0.	78.	0.31
MILE	37.00	828.78	399965.	4.23	94616.	2120.	13.39	0.0280	0.	77.	0.11
MILE	36.00	827.82	399965.	7.64	52348.	1520.	13.63	0.0280	0.	79.	0.23
MILE	34.60	827.56	399964.	5.83	68604.	2206.	14.76	0.0280	0.	79.	0.18
MILE	33.60	827.86	399964.	2.50	159924.	4092.	14.18	0.0290	0.	85.	0.07
MILE	31.50	827.11	399964.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE	30.10	826.85	399964.	5.48	72935.	1303.	14.29	0.0200	0.	86.	0.13
MILE	29.00	826.69	399963.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE	27.30	826.47	399963.	5.52	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE	25.20	826.30	399963.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE	23.10	825.91	399963.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

0DATE 10-18-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 14.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69.	0.38
MILE	77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74.	0.28
MILE	75.60	877.43	399999.	10.64	37580.	2653.	10.55	0.0400	0.	71.	0.50
MILE	73.50	867.01	399998.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.53
MILE	71.40	864.29	399997.	7.89	50677.	1665.	11.79	0.0400	0.	66.	0.25
MILE	69.30	860.11	399997.	9.00	44422.	1613.	10.89	0.0340	0.	61.	0.30
MILE	67.20	857.95	399995.	5.89	67906.	4143.	10.46	0.0340	0.	67.	0.26
MILE	65.10	854.20	399993.	7.85	50939.	4867.	10.57	0.0320	0.	67.	0.43
MILE	63.00	852.67	399990.	4.93	81110.	3193.	8.79	0.0400	0.	72.	0.17
MILE	60.90	848.12	399988.	7.23	55294.	2862.	9.12	0.0450	0.	72.	0.29
MILE	58.80	840.07	399987.	8.26	48445.	2161.	8.68	0.0400	0.	67.	0.31
MILE	57.00	838.36	399986.	8.10	49374.	2280.	8.83	0.0200	0.	64.	0.31
MILE	55.00	835.82	399985.	9.52	42013.	2310.	8.80	0.0200	0.	62.	0.39
MILE	53.10	834.78	399983.	7.28	54911.	2749.	9.81	0.0200	0.	61.	0.29
MILE	51.00	833.39	399982.	7.66	52210.	3504.	9.83	0.0200	0.	64.	0.35
MILE	48.30	832.76	399979.	5.75	69556.	7165.	12.25	0.0200	0.	64.	0.33

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 414 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	46.20	832.07	399976.	6.44	62114.	6997.	11.97	0.0200	0.	70.	0.38
MILE	44.10	832.10	399973.	3.84	104117.	3292.	11.29	0.0300	0.	77.	0.12
MILE	43.70	830.57	399973.	10.07	39702.	3185.	13.83	0.0300	0.	78.	0.50
MILE	42.00	830.82	399972.	4.28	93411.	3144.	10.21	0.0300	0.	81.	0.14
MILE	39.10	828.68	399971.	7.48	53497.	3039.	13.13	0.0230	0.	78.	0.31
MILE	37.00	828.78	399971.	4.23	94617.	2120.	13.39	0.0280	0.	77.	0.11
MILE	36.00	827.82	399971.	7.64	52349.	1520.	13.63	0.0280	0.	79.	0.23
MILE	34.60	827.56	399970.	5.83	68604.	2206.	14.76	0.0280	0.	79.	0.18
MILE	33.60	827.86	399970.	2.50	159924.	4092.	14.18	0.0290	0.	85.	0.07
MILE	31.50	827.11	399970.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE	30.10	826.85	399970.	5.48	72935.	1303.	14.29	0.0200	0.	86.	0.13
MILE	29.00	826.69	399970.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE	27.30	826.47	399970.	5.53	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE	25.20	826.30	399970.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE	23.10	825.91	399969.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

ODATE 10-18-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	15.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL	
INFLOW	DEPTH	FROUDE									
MILE	79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69.	0.38
MILE	77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74.	0.28
MILE	75.60	877.43	399999.	10.64	37580.	2653.	10.55	0.0400	0.	71.	0.50
MILE	73.50	867.01	399999.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.53
MILE	71.40	864.29	399998.	7.89	50678.	1665.	11.79	0.0400	0.	66.	0.25
MILE	69.30	860.11	399997.	9.00	44422.	1613.	10.89	0.0340	0.	61.	0.30
MILE	67.20	857.95	399996.	5.89	67906.	4143.	10.46	0.0340	0.	67.	0.26
MILE	65.10	854.20	399994.	7.85	50940.	4867.	10.57	0.0320	0.	67.	0.43
MILE	63.00	852.67	399992.	4.93	81110.	3193.	8.79	0.0400	0.	72.	0.17
MILE	60.90	848.12	399990.	7.23	55295.	2862.	9.12	0.0450	0.	72.	0.29
MILE	58.80	840.07	399989.	8.26	48445.	2161.	8.68	0.0400	0.	67.	0.31
MILE	57.00	838.36	399988.	8.10	49374.	2280.	8.83	0.0200	0.	64.	0.31
MILE	55.00	835.82	399987.	9.52	42013.	2310.	8.80	0.0200	0.	62.	0.39
MILE	53.10	834.78	399986.	7.28	54911.	2749.	9.81	0.0200	0.	61.	0.29
MILE	51.00	833.39	399985.	7.66	52210.	3504.	9.83	0.0200	0.	64.	0.35
MILE	48.30	832.76	399982.	5.75	69557.	7165.	12.25	0.0200	0.	64.	0.33
MILE	46.20	832.07	399980.	6.44	62114.	6997.	11.97	0.0200	0.	70.	0.38
MILE	44.10	832.10	399978.	3.84	104118.	3292.	11.29	0.0300	0.	77.	0.12
MILE	43.70	830.57	399978.	10.07	39702.	3185.	13.83	0.0300	0.	78.	0.50
MILE	42.00	830.82	399977.	4.28	93411.	3144.	10.21	0.0300	0.	81.	0.14
MILE	39.10	828.68	399976.	7.48	53497.	3039.	13.13	0.0230	0.	78.	0.31
MILE	37.00	828.78	399976.	4.23	94617.	2120.	13.39	0.0280	0.	77.	0.11
MILE	36.00	827.82	399976.	7.64	52349.	1520.	13.63	0.0280	0.	79.	0.23
MILE	34.60	827.56	399975.	5.83	68604.	2206.	14.76	0.0280	0.	79.	0.18
MILE	33.60	827.86	399975.	2.50	159924.	4092.	14.18	0.0290	0.	85.	0.07
MILE	31.50	827.11	399975.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE	30.10	826.85	399975.	5.48	72935.	1303.	14.29	0.0200	0.	86.	0.13

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 415 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	29.00	826.69	399975.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE	27.30	826.47	399975.	5.53	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE	25.20	826.30	399975.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE	23.10	825.91	399975.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

0DATE 10-18-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 16.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69.	0.38
MILE	77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74.	0.28
MILE	75.60	877.43	399999.	10.64	37580.	2653.	10.55	0.0400	0.	71.	0.50
MILE	73.50	867.01	399999.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.53
MILE	71.40	864.29	399998.	7.89	50678.	1665.	11.79	0.0400	0.	66.	0.25
MILE	69.30	860.11	399998.	9.00	44422.	1613.	10.89	0.0340	0.	61.	0.30
MILE	67.20	857.95	399997.	5.89	67906.	4143.	10.46	0.0340	0.	67.	0.26
MILE	65.10	854.20	399995.	7.85	50940.	4867.	10.57	0.0320	0.	67.	0.43
MILE	63.00	852.67	399993.	4.93	81110.	3193.	8.79	0.0400	0.	72.	0.17
MILE	60.90	848.12	399992.	7.23	55295.	2862.	9.12	0.0450	0.	72.	0.29
MILE	58.80	840.07	399991.	8.26	48445.	2161.	8.68	0.0400	0.	67.	0.31
MILE	57.00	838.36	399990.	8.10	49374.	2280.	8.83	0.0200	0.	64.	0.31
MILE	55.00	835.82	399989.	9.52	42014.	2310.	8.80	0.0200	0.	62.	0.39
MILE	53.10	834.78	399989.	7.28	54911.	2749.	9.81	0.0200	0.	61.	0.29
MILE	51.00	833.39	399987.	7.66	52210.	3504.	9.83	0.0200	0.	64.	0.35
MILE	48.30	832.76	399985.	5.75	69557.	7165.	12.25	0.0200	0.	64.	0.33
MILE	46.20	832.07	399983.	6.44	62114.	6997.	11.97	0.0200	0.	70.	0.38
MILE	44.10	832.10	399982.	3.84	104118.	3292.	11.29	0.0300	0.	77.	0.12
MILE	43.70	830.57	399982.	10.07	39702.	3185.	13.83	0.0300	0.	78.	0.50
MILE	42.00	830.82	399981.	4.28	93412.	3144.	10.21	0.0300	0.	81.	0.14
MILE	39.10	828.68	399980.	7.48	53498.	3039.	13.13	0.0230	0.	78.	0.31
MILE	37.00	828.78	399980.	4.23	94617.	2120.	13.39	0.0280	0.	77.	0.11
MILE	36.00	827.82	399980.	7.64	52349.	1520.	13.63	0.0280	0.	79.	0.23
MILE	34.60	827.56	399980.	5.83	68604.	2206.	14.76	0.0280	0.	79.	0.18
MILE	33.60	827.86	399979.	2.50	159924.	4092.	14.18	0.0290	0.	85.	0.07
MILE	31.50	827.11	399979.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE	30.10	826.85	399979.	5.48	72935.	1303.	14.29	0.0200	0.	86.	0.13
MILE	29.00	826.69	399979.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE	27.30	826.47	399979.	5.53	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE	25.20	826.30	399979.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE	23.10	825.91	399979.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

0DATE 10-18-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 416 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

TIME 17.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69.	0.38
MILE 77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74.	0.28
MILE 75.60	877.43	400000.	10.64	37580.	2653.	10.55	0.0400	0.	71.	0.50
MILE 73.50	867.01	399999.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.53
MILE 71.40	864.29	399999.	7.89	50678.	1665.	11.79	0.0400	0.	66.	0.25
MILE 69.30	860.11	399998.	9.00	44422.	1613.	10.89	0.0340	0.	61.	0.30
MILE 67.20	857.95	399997.	5.89	67907.	4143.	10.46	0.0340	0.	67.	0.26
MILE 65.10	854.20	399996.	7.85	50940.	4867.	10.57	0.0320	0.	67.	0.43
MILE 63.00	852.67	399994.	4.93	81110.	3193.	8.79	0.0400	0.	72.	0.17
MILE 60.90	848.12	399993.	7.23	55295.	2862.	9.12	0.0450	0.	72.	0.29
MILE 58.80	840.07	399992.	8.26	48445.	2161.	8.68	0.0400	0.	67.	0.31
MILE 57.00	838.36	399992.	8.10	49374.	2280.	8.83	0.0200	0.	64.	0.31
MILE 55.00	835.82	399991.	9.52	42014.	2310.	8.80	0.0200	0.	62.	0.39
MILE 53.10	834.78	399990.	7.28	54912.	2749.	9.81	0.0200	0.	61.	0.29
MILE 51.00	833.39	399990.	7.66	52210.	3504.	9.83	0.0200	0.	64.	0.35
MILE 48.30	832.76	399988.	5.75	69557.	7165.	12.25	0.0200	0.	64.	0.33
MILE 46.20	832.07	399986.	6.44	62114.	6997.	11.97	0.0200	0.	70.	0.38
MILE 44.10	832.10	399985.	3.84	104118.	3292.	11.29	0.0300	0.	77.	0.12
MILE 43.70	830.57	399985.	10.07	39702.	3185.	13.83	0.0300	0.	78.	0.50
MILE 42.00	830.82	399984.	4.28	93412.	3144.	10.21	0.0300	0.	81.	0.14
MILE 39.10	828.68	399984.	7.48	53498.	3039.	13.13	0.0230	0.	78.	0.31
MILE 37.00	828.78	399983.	4.23	94617.	2120.	13.39	0.0280	0.	77.	0.11
MILE 36.00	827.82	399983.	7.64	52349.	1520.	13.63	0.0280	0.	79.	0.23
MILE 34.60	827.56	399983.	5.83	68604.	2206.	14.76	0.0280	0.	79.	0.18
MILE 33.60	827.86	399983.	2.50	159924.	4092.	14.18	0.0290	0.	85.	0.07
MILE 31.50	827.11	399983.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE 30.10	826.85	399983.	5.48	72935.	1303.	14.29	0.0200	0.	86.	0.13
MILE 29.00	826.69	399983.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE 27.30	826.47	399983.	5.53	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE 25.20	826.30	399983.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE 23.10	825.91	399983.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

ODATE 10-18-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 18.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69.	0.38
MILE 77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74.	0.28
MILE 75.60	877.43	400000.	10.64	37580.	2653.	10.55	0.0400	0.	71.	0.50
MILE 73.50	867.01	399999.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.53
MILE 71.40	864.29	399999.	7.89	50678.	1665.	11.79	0.0400	0.	66.	0.25
MILE 69.30	860.11	399998.	9.00	44422.	1613.	10.89	0.0340	0.	61.	0.30
MILE 67.20	857.95	399998.	5.89	67907.	4143.	10.46	0.0340	0.	67.	0.26
MILE 65.10	854.20	399996.	7.85	50940.	4867.	10.57	0.0320	0.	67.	0.43

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 417 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 63.00	852.67	399995.	4.93	81111.	3193.	8.79	0.0400	0.	72.	0.17
MILE 60.90	848.12	399994.	7.23	55295.	2862.	9.12	0.0450	0.	72.	0.29
MILE 58.80	840.07	399994.	8.26	48445.	2161.	8.68	0.0400	0.	67.	0.31
MILE 57.00	838.36	399993.	8.10	49375.	2280.	8.83	0.0200	0.	64.	0.31
MILE 55.00	835.82	399993.	9.52	42014.	2310.	8.80	0.0200	0.	62.	0.39
MILE 53.10	834.78	399992.	7.28	54912.	2749.	9.81	0.0200	0.	61.	0.29
MILE 51.00	833.39	399991.	7.66	52210.	3504.	9.83	0.0200	0.	64.	0.35
MILE 48.30	832.76	399990.	5.75	69557.	7165.	12.25	0.0200	0.	64.	0.33
MILE 46.20	832.07	399988.	6.44	62114.	6997.	11.97	0.0200	0.	70.	0.38
MILE 44.10	832.10	399987.	3.84	104118.	3292.	11.29	0.0300	0.	77.	0.12
MILE 43.70	830.57	399987.	10.07	39702.	3185.	13.83	0.0300	0.	78.	0.50
MILE 42.00	830.82	399987.	4.28	93412.	3144.	10.21	0.0300	0.	81.	0.14
MILE 39.10	828.68	399986.	7.48	53498.	3039.	13.13	0.0230	0.	78.	0.31
MILE 37.00	828.78	399986.	4.23	94617.	2120.	13.39	0.0280	0.	77.	0.11
MILE 36.00	827.82	399986.	7.64	52349.	1520.	13.63	0.0280	0.	79.	0.23
MILE 34.60	827.56	399986.	5.83	68604.	2206.	14.76	0.0280	0.	79.	0.18
MILE 33.60	827.86	399986.	2.50	159924.	4092.	14.18	0.0290	0.	85.	0.07
MILE 31.50	827.11	399986.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE 30.10	826.85	399986.	5.48	72935.	1303.	14.29	0.0200	0.	86.	0.13
MILE 29.00	826.69	399986.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE 27.30	826.47	399986.	5.53	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE 25.20	826.30	399985.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE 23.10	825.91	399985.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

0DATE 10-18-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 19.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69.	0.38
MILE 77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74.	0.28
MILE 75.60	877.43	400000.	10.64	37580.	2653.	10.55	0.0400	0.	71.	0.50
MILE 73.50	867.01	399999.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.53
MILE 71.40	864.29	399999.	7.89	50678.	1665.	11.79	0.0400	0.	66.	0.25
MILE 69.30	860.11	399999.	9.00	44422.	1613.	10.89	0.0340	0.	61.	0.30
MILE 67.20	857.95	399998.	5.89	67907.	4143.	10.46	0.0340	0.	67.	0.26
MILE 65.10	854.20	399997.	7.85	50940.	4867.	10.57	0.0320	0.	67.	0.43
MILE 63.00	852.67	399996.	4.93	81111.	3193.	8.79	0.0400	0.	72.	0.17
MILE 60.90	848.12	399995.	7.23	55295.	2862.	9.12	0.0450	0.	72.	0.29
MILE 58.80	840.07	399995.	8.26	48446.	2161.	8.68	0.0400	0.	67.	0.31
MILE 57.00	838.36	399994.	8.10	49375.	2280.	8.83	0.0200	0.	64.	0.31
MILE 55.00	835.82	399994.	9.52	42014.	2310.	8.80	0.0200	0.	62.	0.39
MILE 53.10	834.78	399993.	7.28	54912.	2749.	9.81	0.0200	0.	61.	0.29
MILE 51.00	833.39	399993.	7.66	52210.	3504.	9.83	0.0200	0.	64.	0.35
MILE 48.30	832.76	399992.	5.75	69557.	7165.	12.25	0.0200	0.	64.	0.33
MILE 46.20	832.07	399990.	6.44	62114.	6997.	11.97	0.0200	0.	70.	0.38
MILE 44.10	832.10	399990.	3.84	104118.	3292.	11.29	0.0300	0.	77.	0.12
MILE 43.70	830.57	399989.	10.07	39702.	3185.	13.83	0.0300	0.	78.	0.50

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 418 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	42.00	830.82	399989.	4.28	93412.	3144.	10.21	0.0300	0.	81.	0.14
MILE	39.10	828.68	399989.	7.48	53498.	3039.	13.13	0.0230	0.	78.	0.31
MILE	37.00	828.78	399988.	4.23	94617.	2120.	13.39	0.0280	0.	77.	0.11
MILE	36.00	827.82	399988.	7.64	52349.	1520.	13.63	0.0280	0.	79.	0.23
MILE	34.60	827.56	399988.	5.83	68604.	2206.	14.76	0.0280	0.	79.	0.18
MILE	33.60	827.86	399988.	2.50	159924.	4092.	14.18	0.0290	0.	85.	0.07
MILE	31.50	827.11	399988.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE	30.10	826.85	399988.	5.48	72935.	1303.	14.29	0.0200	0.	86.	0.13
MILE	29.00	826.69	399988.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE	27.30	826.47	399988.	5.53	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE	25.20	826.30	399988.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE	23.10	825.91	399988.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

0DATE 10-18-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 20.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69.	0.38
MILE	77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74.	0.28
MILE	75.60	877.43	400000.	10.64	37580.	2653.	10.55	0.0400	0.	71.	0.50
MILE	73.50	867.01	399999.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.25
MILE	71.40	864.29	399999.	7.89	50678.	1665.	11.79	0.0400	0.	66.	0.25
MILE	69.30	860.11	399999.	9.00	44422.	1613.	10.89	0.0340	0.	61.	0.30
MILE	67.20	857.95	399998.	5.89	67907.	4143.	10.46	0.0340	0.	67.	0.26
MILE	65.10	854.20	399998.	7.85	50940.	4867.	10.57	0.0320	0.	67.	0.43
MILE	63.00	852.67	399997.	4.93	81111.	3193.	8.79	0.0400	0.	72.	0.17
MILE	60.90	848.12	399996.	7.23	55296.	2862.	9.12	0.0450	0.	72.	0.29
MILE	58.80	840.07	399996.	8.26	48446.	2161.	8.68	0.0400	0.	67.	0.31
MILE	57.00	838.36	399995.	8.10	49375.	2280.	8.83	0.0200	0.	64.	0.31
MILE	55.00	835.82	399995.	9.52	42014.	2310.	8.80	0.0200	0.	62.	0.39
MILE	53.10	834.78	399995.	7.28	54912.	2749.	9.81	0.0200	0.	61.	0.29
MILE	51.00	833.39	399994.	7.66	52210.	3504.	9.83	0.0200	0.	64.	0.35
MILE	48.30	832.76	399993.	5.75	69557.	7165.	12.25	0.0200	0.	64.	0.33
MILE	46.20	832.07	399992.	6.44	62114.	6997.	11.97	0.0200	0.	70.	0.38
MILE	44.10	832.10	399991.	3.84	104119.	3292.	11.29	0.0300	0.	77.	0.12
MILE	43.70	830.57	399991.	10.07	39703.	3185.	13.83	0.0300	0.	78.	0.50
MILE	42.00	830.82	399991.	4.28	93412.	3144.	10.21	0.0300	0.	81.	0.14
MILE	39.10	828.68	399991.	7.48	53498.	3039.	13.13	0.0230	0.	78.	0.31
MILE	37.00	828.78	399990.	4.23	94617.	2120.	13.39	0.0280	0.	77.	0.11
MILE	36.00	827.82	399990.	7.64	52349.	1520.	13.63	0.0280	0.	79.	0.23
MILE	34.60	827.56	399990.	5.83	68604.	2206.	14.76	0.0280	0.	79.	0.18
MILE	33.60	827.86	399990.	2.50	159925.	4092.	14.18	0.0290	0.	85.	0.07
MILE	31.50	827.11	399990.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE	30.10	826.85	399990.	5.48	72935.	1303.	14.29	0.0200	0.	86.	0.13
MILE	29.00	826.69	399990.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE	27.30	826.47	399990.	5.53	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE	25.20	826.30	399990.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 419 of 665
Subject: SOCH Model Calibration, Melton Hill			Prepped
Appendix E			Checked
			JAW
			ACM

MILE 23.10 825.91 399990. 5.44 73496. 1924. 15.79 0.0230 0. 96. 0.16

0DATE 10-18-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 21.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69.	0.38
MILE 77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74.	0.28
MILE 75.60	877.43	400000.	10.64	37580.	2653.	10.55	0.0400	0.	71.	0.50
MILE 73.50	867.01	400000.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.53
MILE 71.40	864.29	399999.	7.89	50678.	1665.	11.79	0.0400	0.	66.	0.25
MILE 69.30	860.11	399999.	9.00	44422.	1613.	10.89	0.0340	0.	61.	0.30
MILE 67.20	857.95	399999.	5.89	67907.	4143.	10.46	0.0340	0.	67.	0.26
MILE 65.10	854.20	399998.	7.85	50940.	4867.	10.57	0.0320	0.	67.	0.43
MILE 63.00	852.67	399997.	4.93	81111.	3193.	8.79	0.0400	0.	72.	0.17
MILE 60.90	848.12	399997.	7.23	55296.	2862.	9.12	0.0450	0.	72.	0.29
MILE 58.80	840.07	399996.	8.26	48446.	2161.	8.68	0.0400	0.	67.	0.31
MILE 57.00	838.36	399996.	8.10	49375.	2280.	8.83	0.0200	0.	64.	0.31
MILE 55.00	835.82	399996.	9.52	42014.	2310.	8.80	0.0200	0.	62.	0.39
MILE 53.10	834.78	399995.	7.28	54912.	2749.	9.81	0.0200	0.	61.	0.29
MILE 51.00	833.39	399995.	7.66	52211.	3504.	9.83	0.0200	0.	64.	0.35
MILE 48.30	832.76	399994.	5.75	69557.	7165.	12.25	0.0200	0.	64.	0.33
MILE 46.20	832.08	399993.	6.44	62114.	6997.	11.97	0.0200	0.	70.	0.38
MILE 44.10	832.10	399993.	3.84	104119.	3292.	11.29	0.0300	0.	77.	0.12
MILE 43.70	830.57	399993.	10.07	39703.	3185.	13.83	0.0300	0.	78.	0.50
MILE 42.00	830.82	399992.	4.28	93412.	3144.	10.21	0.0300	0.	81.	0.14
MILE 39.10	828.68	399992.	7.48	53498.	3039.	13.13	0.0230	0.	78.	0.31
MILE 37.00	828.78	399992.	4.23	94617.	2120.	13.39	0.0280	0.	77.	0.11
MILE 36.00	827.82	399992.	7.64	52349.	1520.	13.63	0.0280	0.	79.	0.23
MILE 34.60	827.56	399992.	5.83	68604.	2206.	14.76	0.0280	0.	79.	0.18
MILE 33.60	827.86	399992.	2.50	159925.	4092.	14.18	0.0290	0.	85.	0.07
MILE 31.50	827.11	399992.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE 30.10	826.85	399992.	5.48	72935.	1303.	14.29	0.0200	0.	86.	0.13
MILE 29.00	826.69	399992.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE 27.30	826.47	399992.	5.53	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE 25.20	826.30	399992.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE 23.10	825.91	399992.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

0DATE 10-18-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 22.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80 887.48 400000. 12.11 33038. 1031. 10.44 0.0290 0. 69. 0.38

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 420 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74.	0.28
MILE 75.60	877.43	400000.	10.64	37580.	2653.	10.55	0.0400	0.	71.	0.50
MILE 73.50	867.01	400000.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.53
MILE 71.40	864.29	399999.	7.89	50678.	1665.	11.79	0.0400	0.	66.	0.25
MILE 69.30	860.11	399999.	9.00	44422.	1613.	10.89	0.0340	0.	61.	0.30
MILE 67.20	857.95	399999.	5.89	67907.	4143.	10.46	0.0340	0.	67.	0.26
MILE 65.10	854.20	399998.	7.85	50940.	4867.	10.57	0.0320	0.	67.	0.43
MILE 63.00	852.67	399998.	4.93	81111.	3193.	8.79	0.0400	0.	72.	0.17
MILE 60.90	848.12	399997.	7.23	55296.	2862.	9.12	0.0450	0.	72.	0.29
MILE 58.80	840.07	399997.	8.26	48446.	2161.	8.68	0.0400	0.	67.	0.31
MILE 57.00	838.36	399997.	8.10	49375.	2280.	8.83	0.0200	0.	64.	0.31
MILE 55.00	835.82	399996.	9.52	42014.	2310.	8.80	0.0200	0.	62.	0.39
MILE 53.10	834.78	399996.	7.28	54912.	2749.	9.81	0.0200	0.	61.	0.29
MILE 51.00	833.39	399996.	7.66	52211.	3504.	9.83	0.0200	0.	64.	0.35
MILE 48.30	832.76	399995.	5.75	69557.	7165.	12.25	0.0200	0.	64.	0.33
MILE 46.20	832.08	399994.	6.44	62114.	6997.	11.97	0.0200	0.	70.	0.38
MILE 44.10	832.10	399994.	3.84	104119.	3292.	11.29	0.0300	0.	77.	0.12
MILE 43.70	830.57	399994.	10.07	39703.	3185.	13.83	0.0300	0.	78.	0.50
MILE 42.00	830.82	399994.	4.28	93412.	3144.	10.21	0.0300	0.	81.	0.14
MILE 39.10	828.68	399993.	7.48	53498.	3039.	13.13	0.0230	0.	78.	0.31
MILE 37.00	828.78	399993.	4.23	94617.	2120.	13.39	0.0280	0.	77.	0.11
MILE 36.00	827.82	399993.	7.64	52349.	1520.	13.63	0.0280	0.	79.	0.23
MILE 34.60	827.56	399993.	5.83	68605.	2206.	14.76	0.0280	0.	79.	0.18
MILE 33.60	827.86	399993.	2.50	159925.	4092.	14.18	0.0290	0.	85.	0.07
MILE 31.50	827.11	399993.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE 30.10	826.85	399993.	5.48	72935.	1303.	14.29	0.0200	0.	86.	0.13
MILE 29.00	826.69	399993.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE 27.30	826.47	399993.	5.53	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE 25.20	826.30	399993.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE 23.10	825.91	399993.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

DATE 10-18-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 23.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69.	0.38
MILE 77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74.	0.28
MILE 75.60	877.43	400000.	10.64	37580.	2653.	10.55	0.0400	0.	71.	0.50
MILE 73.50	867.01	400000.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.53
MILE 71.40	864.29	400000.	7.89	50678.	1665.	11.79	0.0400	0.	66.	0.25
MILE 69.30	860.11	399999.	9.00	44422.	1613.	10.89	0.0340	0.	61.	0.30
MILE 67.20	857.95	399999.	5.89	67907.	4143.	10.46	0.0340	0.	67.	0.26
MILE 65.10	854.20	399999.	7.85	50940.	4867.	10.57	0.0320	0.	67.	0.43
MILE 63.00	852.67	399998.	4.93	81111.	3193.	8.79	0.0400	0.	72.	0.17
MILE 60.90	848.12	399998.	7.23	55296.	2862.	9.12	0.0450	0.	72.	0.29
MILE 58.80	840.07	399997.	8.26	48446.	2161.	8.68	0.0400	0.	67.	0.31
MILE 57.00	838.36	399997.	8.10	49375.	2280.	8.83	0.0200	0.	64.	0.31

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 421 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	55.00	835.82	399997.	9.52	42014.	2310.	8.80	0.0200	0.	62.	0.39
MILE	53.10	834.78	399997.	7.28	54912.	2749.	9.81	0.0200	0.	61.	0.29
MILE	51.00	833.39	399997.	7.66	52211.	3504.	9.83	0.0200	0.	64.	0.35
MILE	48.30	832.76	399996.	5.75	69557.	7165.	12.25	0.0200	0.	64.	0.33
MILE	46.20	832.08	399995.	6.44	62114.	6997.	11.97	0.0200	0.	70.	0.38
MILE	44.10	832.10	399995.	3.84	104119.	3292.	11.29	0.0300	0.	77.	0.12
MILE	43.70	830.57	399995.	10.07	39703.	3185.	13.83	0.0300	0.	78.	0.50
MILE	42.00	830.82	399995.	4.28	93412.	3144.	10.21	0.0300	0.	81.	0.14
MILE	39.10	828.68	399995.	7.48	53498.	3039.	13.13	0.0230	0.	78.	0.31
MILE	37.00	828.78	399994.	4.23	94617.	2120.	13.39	0.0280	0.	77.	0.11
MILE	36.00	827.82	399994.	7.64	52349.	1520.	13.63	0.0280	0.	79.	0.23
MILE	34.60	827.56	399994.	5.83	68605.	2206.	14.76	0.0280	0.	79.	0.18
MILE	33.60	827.86	399994.	2.50	159925.	4092.	14.18	0.0290	0.	85.	0.07
MILE	31.50	827.11	399994.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE	30.10	826.85	399994.	5.48	72935.	1303.	14.29	0.0200	0.	86.	0.13
MILE	29.00	826.69	399994.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE	27.30	826.47	399994.	5.53	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE	25.20	826.30	399994.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE	23.10	825.91	399994.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

ODATE 10-19-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 0.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69.	0.38
MILE	77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74.	0.28
MILE	75.60	877.43	400000.	10.64	37580.	2653.	10.55	0.0400	0.	71.	0.50
MILE	73.50	867.01	400000.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.53
MILE	71.40	864.29	400000.	7.89	50678.	1665.	11.79	0.0400	0.	66.	0.25
MILE	69.30	860.11	399999.	9.00	44422.	1613.	10.89	0.0340	0.	61.	0.30
MILE	67.20	857.95	399999.	5.89	67907.	4143.	10.46	0.0340	0.	67.	0.26
MILE	65.10	854.20	399999.	7.85	50940.	4867.	10.57	0.0320	0.	67.	0.43
MILE	63.00	852.67	399998.	4.93	81111.	3193.	8.79	0.0400	0.	72.	0.17
MILE	60.90	848.12	399998.	7.23	55296.	2862.	9.12	0.0450	0.	72.	0.29
MILE	58.80	840.07	399998.	8.26	48446.	2161.	8.68	0.0400	0.	67.	0.31
MILE	57.00	838.36	399998.	8.10	49375.	2280.	8.83	0.0200	0.	64.	0.31
MILE	55.00	835.82	399998.	9.52	42014.	2310.	8.80	0.0200	0.	62.	0.39
MILE	53.10	834.78	399997.	7.28	54912.	2749.	9.81	0.0200	0.	61.	0.29
MILE	51.00	833.39	399997.	7.66	52211.	3504.	9.83	0.0200	0.	64.	0.35
MILE	48.30	832.76	399997.	5.75	69557.	7165.	12.25	0.0200	0.	64.	0.33
MILE	46.20	832.08	399996.	6.44	62115.	6997.	11.97	0.0200	0.	70.	0.38
MILE	44.10	832.10	399996.	3.84	104119.	3292.	11.29	0.0300	0.	77.	0.12
MILE	43.70	830.57	399996.	10.07	39703.	3185.	13.83	0.0300	0.	78.	0.50
MILE	42.00	830.82	399996.	4.28	93412.	3144.	10.21	0.0300	0.	81.	0.14
MILE	39.10	828.68	399995.	7.48	53498.	3039.	13.13	0.0230	0.	78.	0.31
MILE	37.00	828.78	399995.	4.23	94617.	2120.	13.39	0.0280	0.	77.	0.11
MILE	36.00	827.82	399995.	7.64	52349.	1520.	13.63	0.0280	0.	79.	0.23

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 422 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 34.60	827.56	399995.	5.83	68605.	2206.	14.76	0.0280	0.	79.	0.18
MILE 33.60	827.86	399995.	2.50	159925.	4092.	14.18	0.0290	0.	85.	0.07
MILE 31.50	827.11	399995.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE 30.10	826.85	399995.	5.48	72935.	1303.	14.29	0.0200	0.	86.	0.13
MILE 29.00	826.69	399995.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE 27.30	826.47	399995.	5.53	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE 25.20	826.30	399995.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE 23.10	825.91	399995.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

0DATE 10-19-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	1.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL
INFLOW	DEPTH	FROUDE								
MILE 79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69.	0.38
MILE 77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74.	0.28
MILE 75.60	877.43	400000.	10.64	37580.	2653.	10.55	0.0400	0.	71.	0.50
MILE 73.50	867.01	400000.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.53
MILE 71.40	864.29	400000.	7.89	50678.	1665.	11.79	0.0400	0.	66.	0.25
MILE 69.30	860.11	400000.	9.00	44422.	1613.	10.89	0.0340	0.	61.	0.30
MILE 67.20	857.95	399999.	5.89	67907.	4143.	10.46	0.0340	0.	67.	0.26
MILE 65.10	854.20	399999.	7.85	50940.	4867.	10.57	0.0320	0.	67.	0.43
MILE 63.00	852.67	399999.	4.93	81111.	3193.	8.79	0.0400	0.	72.	0.17
MILE 60.90	848.12	399998.	7.23	55296.	2862.	9.12	0.0450	0.	72.	0.29
MILE 58.80	840.07	399998.	8.26	48446.	2161.	8.68	0.0400	0.	67.	0.31
MILE 57.00	838.36	399998.	8.10	49375.	2280.	8.83	0.0200	0.	64.	0.31
MILE 55.00	835.82	399998.	9.52	42014.	2310.	8.80	0.0200	0.	62.	0.39
MILE 53.10	834.78	399998.	7.28	54912.	2749.	9.81	0.0200	0.	61.	0.29
MILE 51.00	833.39	399998.	7.66	52211.	3504.	9.83	0.0200	0.	64.	0.35
MILE 48.30	832.76	399997.	5.75	69557.	7165.	12.25	0.0200	0.	64.	0.33
MILE 46.20	832.08	399997.	6.44	62115.	6997.	11.97	0.0200	0.	70.	0.38
MILE 44.10	832.10	399997.	3.84	104119.	3292.	11.29	0.0300	0.	77.	0.12
MILE 43.70	830.57	399997.	10.07	39703.	3185.	13.83	0.0300	0.	78.	0.50
MILE 42.00	830.82	399996.	4.28	93412.	3144.	10.21	0.0300	0.	81.	0.14
MILE 39.10	828.68	399996.	7.48	53498.	3039.	13.13	0.0230	0.	78.	0.31
MILE 37.00	828.78	399996.	4.23	94617.	2120.	13.39	0.0280	0.	77.	0.11
MILE 36.00	827.82	399996.	7.64	52349.	1520.	13.63	0.0280	0.	79.	0.23
MILE 34.60	827.56	399996.	5.83	68605.	2206.	14.76	0.0280	0.	79.	0.18
MILE 33.60	827.86	399996.	2.50	159925.	4092.	14.18	0.0290	0.	85.	0.07
MILE 31.50	827.11	399996.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE 30.10	826.85	399996.	5.48	72935.	1303.	14.29	0.0200	0.	86.	0.13
MILE 29.00	826.69	399996.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE 27.30	826.47	399996.	5.53	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE 25.20	826.30	399996.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE 23.10	825.91	399996.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 423 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

0DATE 10-19-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 2.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
	INFLOW DEPTH	FROUDE									
MILE	79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69.	0.38
MILE	77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74.	0.28
MILE	75.60	877.43	400000.	10.64	37580.	2653.	10.55	0.0400	0.	71.	0.50
MILE	73.50	867.01	400000.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.53
MILE	71.40	864.29	400000.	7.89	50678.	1665.	11.79	0.0400	0.	66.	0.25
MILE	69.30	860.11	400000.	9.00	44422.	1613.	10.89	0.0340	0.	61.	0.30
MILE	67.20	857.95	399999.	5.89	67907.	4143.	10.46	0.0340	0.	67.	0.26
MILE	65.10	854.20	399999.	7.85	50940.	4867.	10.57	0.0320	0.	67.	0.43
MILE	63.00	852.67	399999.	4.93	81111.	3193.	8.79	0.0400	0.	72.	0.17
MILE	60.90	848.12	399999.	7.23	55296.	2862.	9.12	0.0450	0.	72.	0.29
MILE	58.80	840.07	399999.	8.26	48446.	2161.	8.68	0.0400	0.	67.	0.31
MILE	57.00	838.36	399998.	8.10	49375.	2280.	8.83	0.0200	0.	64.	0.31
MILE	55.00	835.82	399998.	9.52	42014.	2310.	8.80	0.0200	0.	62.	0.39
MILE	53.10	834.78	399998.	7.28	54912.	2749.	9.81	0.0200	0.	61.	0.29
MILE	51.00	833.39	399998.	7.66	52211.	3504.	9.83	0.0200	0.	64.	0.35
MILE	48.30	832.76	399998.	5.75	69557.	7165.	12.25	0.0200	0.	64.	0.33
MILE	46.20	832.08	399997.	6.44	62115.	6997.	11.97	0.0200	0.	70.	0.38
MILE	44.10	832.10	399997.	3.84	104119.	3292.	11.29	0.0300	0.	77.	0.12
MILE	43.70	830.57	399997.	10.07	39703.	3185.	13.83	0.0300	0.	78.	0.50
MILE	42.00	830.82	399997.	4.28	93412.	3144.	10.21	0.0300	0.	81.	0.14
MILE	39.10	828.68	399997.	7.48	53498.	3039.	13.13	0.0230	0.	78.	0.31
MILE	37.00	828.78	399997.	4.23	94617.	2120.	13.39	0.0280	0.	77.	0.11
MILE	36.00	827.82	399997.	7.64	52349.	1520.	13.63	0.0280	0.	79.	0.23
MILE	34.60	827.56	399997.	5.83	68605.	2206.	14.76	0.0280	0.	79.	0.18
MILE	33.60	827.86	399997.	2.50	159925.	4092.	14.18	0.0290	0.	85.	0.07
MILE	31.50	827.11	399997.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE	30.10	826.85	399997.	5.48	72935.	1303.	14.29	0.0200	0.	86.	0.13
MILE	29.00	826.69	399997.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE	27.30	826.47	399997.	5.53	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE	25.20	826.30	399997.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE	23.10	825.91	399997.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

0DATE 10-19-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 3.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
	INFLOW DEPTH	FROUDE									
MILE	79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69.	0.38
MILE	77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74.	0.28
MILE	75.60	877.43	400000.	10.64	37580.	2653.	10.55	0.0400	0.	71.	0.50
MILE	73.50	867.01	400000.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.53
MILE	71.40	864.29	400000.	7.89	50678.	1665.	11.79	0.0400	0.	66.	0.25

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 424 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	69.30	860.11	400000.	9.00	44422.	1613.	10.89	0.0340	0.	61.	0.30
MILE	67.20	857.95	400000.	5.89	67907.	4143.	10.46	0.0340	0.	67.	0.26
MILE	65.10	854.20	399999.	7.85	50940.	4867.	10.57	0.0320	0.	67.	0.43
MILE	63.00	852.67	399999.	4.93	81111.	3193.	8.79	0.0400	0.	72.	0.17
MILE	60.90	848.12	399999.	7.23	55296.	2862.	9.12	0.0450	0.	72.	0.29
MILE	58.80	840.07	399999.	8.26	48446.	2161.	8.68	0.0400	0.	67.	0.31
MILE	57.00	838.36	399999.	8.10	49375.	2280.	8.83	0.0200	0.	64.	0.31
MILE	55.00	835.82	399999.	9.52	42014.	2310.	8.80	0.0200	0.	62.	0.39
MILE	53.10	834.78	399999.	7.28	54912.	2749.	9.81	0.0200	0.	61.	0.29
MILE	51.00	833.39	399999.	7.66	52211.	3504.	9.83	0.0200	0.	64.	0.35
MILE	48.30	832.76	399998.	5.75	69558.	7165.	12.25	0.0200	0.	64.	0.33
MILE	46.20	832.08	399998.	6.44	62115.	6997.	11.97	0.0200	0.	70.	0.38
MILE	44.10	832.10	399998.	3.84	104119.	3292.	11.29	0.0300	0.	77.	0.12
MILE	43.70	830.57	399998.	10.07	39703.	3185.	13.83	0.0300	0.	78.	0.50
MILE	42.00	830.82	399998.	4.28	93413.	3144.	10.21	0.0300	0.	81.	0.14
MILE	39.10	828.68	399997.	7.48	53498.	3039.	13.13	0.0230	0.	78.	0.31
MILE	37.00	828.78	399997.	4.23	94617.	2120.	13.39	0.0280	0.	77.	0.11
MILE	36.00	827.82	399997.	7.64	52349.	1520.	13.63	0.0280	0.	79.	0.23
MILE	34.60	827.56	399997.	5.83	68605.	2206.	14.76	0.0280	0.	79.	0.18
MILE	33.60	827.86	399997.	2.50	159925.	4092.	14.18	0.0290	0.	85.	0.07
MILE	31.50	827.11	399997.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE	30.10	826.85	399997.	5.48	72935.	1303.	14.29	0.0200	0.	86.	0.13
MILE	29.00	826.69	399997.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE	27.30	826.47	399997.	5.53	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE	25.20	826.30	399997.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE	23.10	825.91	399997.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

0DATE 10-19-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 4.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69.	0.38
MILE	77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74.	0.28
MILE	75.60	877.43	400000.	10.64	37580.	2653.	10.55	0.0400	0.	71.	0.50
MILE	73.50	867.01	400000.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.53
MILE	71.40	864.29	400000.	7.89	50678.	1665.	11.79	0.0400	0.	66.	0.25
MILE	69.30	860.11	400000.	9.00	44422.	1613.	10.89	0.0340	0.	61.	0.30
MILE	67.20	857.95	400000.	5.89	67907.	4143.	10.46	0.0340	0.	67.	0.26
MILE	65.10	854.20	399999.	7.85	50940.	4867.	10.57	0.0320	0.	67.	0.43
MILE	63.00	852.67	399999.	4.93	81111.	3193.	8.79	0.0400	0.	72.	0.17
MILE	60.90	848.12	399999.	7.23	55296.	2862.	9.12	0.0450	0.	72.	0.29
MILE	58.80	840.07	399999.	8.26	48446.	2161.	8.68	0.0400	0.	67.	0.31
MILE	57.00	838.36	399999.	8.10	49375.	2280.	8.83	0.0200	0.	64.	0.31
MILE	55.00	835.82	399999.	9.52	42014.	2310.	8.80	0.0200	0.	62.	0.39
MILE	53.10	834.78	399999.	7.28	54912.	2749.	9.81	0.0200	0.	61.	0.29
MILE	51.00	833.39	399999.	7.66	52211.	3504.	9.83	0.0200	0.	64.	0.35
MILE	48.30	832.76	399998.	5.75	69558.	7165.	12.25	0.0200	0.	64.	0.33

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 425 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	46.20	832.08	399998.	6.44	62115.	6997.	11.97	0.0200	0.	70.	0.38
MILE	44.10	832.10	399998.	3.84	104119.	3292.	11.29	0.0300	0.	77.	0.12
MILE	43.70	830.57	399998.	10.07	39703.	3185.	13.83	0.0300	0.	78.	0.50
MILE	42.00	830.82	399998.	4.28	93413.	3144.	10.21	0.0300	0.	81.	0.14
MILE	39.10	828.68	399998.	7.48	53498.	3039.	13.13	0.0230	0.	78.	0.31
MILE	37.00	828.78	399998.	4.23	94617.	2120.	13.39	0.0280	0.	77.	0.11
MILE	36.00	827.82	399998.	7.64	52349.	1520.	13.63	0.0280	0.	79.	0.23
MILE	34.60	827.56	399998.	5.83	68605.	2206.	14.76	0.0280	0.	79.	0.18
MILE	33.60	827.86	399998.	2.50	159925.	4092.	14.18	0.0290	0.	85.	0.07
MILE	31.50	827.11	399998.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE	30.10	826.85	399998.	5.48	72935.	1303.	14.29	0.0200	0.	86.	0.13
MILE	29.00	826.69	399998.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE	27.30	826.47	399998.	5.53	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE	25.20	826.30	399998.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE	23.10	825.91	399998.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

ODATE 10-19-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	5.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL	
INFLOW	DEPTH	FROUDE									
MILE	79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69.	0.38
MILE	77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74.	0.28
MILE	75.60	877.43	400000.	10.64	37580.	2653.	10.55	0.0400	0.	71.	0.50
MILE	73.50	867.01	400000.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.53
MILE	71.40	864.29	400000.	7.89	50678.	1665.	11.79	0.0400	0.	66.	0.25
MILE	69.30	860.11	400000.	9.00	44422.	1613.	10.89	0.0340	0.	61.	0.30
MILE	67.20	857.95	400000.	5.89	67907.	4143.	10.46	0.0340	0.	67.	0.26
MILE	65.10	854.20	400000.	7.85	50940.	4867.	10.57	0.0320	0.	67.	0.43
MILE	63.00	852.67	399999.	4.93	81111.	3193.	8.79	0.0400	0.	72.	0.17
MILE	60.90	848.12	399999.	7.23	55296.	2862.	9.12	0.0450	0.	72.	0.29
MILE	58.80	840.07	399999.	8.26	48446.	2161.	8.68	0.0400	0.	67.	0.31
MILE	57.00	838.36	399999.	8.10	49375.	2280.	8.83	0.0200	0.	64.	0.31
MILE	55.00	835.82	399999.	9.52	42014.	2310.	8.80	0.0200	0.	62.	0.39
MILE	53.10	834.78	399999.	7.28	54912.	2749.	9.81	0.0200	0.	61.	0.29
MILE	51.00	833.39	399999.	7.66	52211.	3504.	9.83	0.0200	0.	64.	0.35
MILE	48.30	832.76	399999.	5.75	69558.	7165.	12.25	0.0200	0.	64.	0.33
MILE	46.20	832.08	399998.	6.44	62115.	6997.	11.97	0.0200	0.	70.	0.38
MILE	44.10	832.10	399998.	3.84	104119.	3292.	11.29	0.0300	0.	77.	0.12
MILE	43.70	830.57	399998.	10.07	39703.	3185.	13.83	0.0300	0.	78.	0.50
MILE	42.00	830.82	399998.	4.28	93413.	3144.	10.21	0.0300	0.	81.	0.14
MILE	39.10	828.68	399998.	7.48	53498.	3039.	13.13	0.0230	0.	78.	0.31
MILE	37.00	828.78	399998.	4.23	94617.	2120.	13.39	0.0280	0.	77.	0.11
MILE	36.00	827.82	399998.	7.64	52349.	1520.	13.63	0.0280	0.	79.	0.23
MILE	34.60	827.56	399998.	5.83	68605.	2206.	14.76	0.0280	0.	79.	0.18
MILE	33.60	827.86	399998.	2.50	159925.	4092.	14.18	0.0290	0.	85.	0.07
MILE	31.50	827.11	399998.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE	30.10	826.85	399998.	5.48	72935.	1303.	14.29	0.0200	0.	86.	0.13

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 426 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	29.00	826.69	399998.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE	27.30	826.47	399998.	5.53	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE	25.20	826.30	399998.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE	23.10	825.91	399998.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

ODATE 10-19-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 6.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE	79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69.	0.38
MILE	77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74.	0.28
MILE	75.60	877.43	400000.	10.64	37580.	2653.	10.55	0.0400	0.	71.	0.50
MILE	73.50	867.01	400000.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.53
MILE	71.40	864.29	400000.	7.89	50678.	1665.	11.79	0.0400	0.	66.	0.25
MILE	69.30	860.11	400000.	9.00	44422.	1613.	10.89	0.0340	0.	61.	0.30
MILE	67.20	857.95	400000.	5.89	67907.	4143.	10.46	0.0340	0.	67.	0.26
MILE	65.10	854.20	400000.	7.85	50940.	4867.	10.57	0.0320	0.	67.	0.43
MILE	63.00	852.67	399999.	4.93	81112.	3193.	8.79	0.0400	0.	72.	0.17
MILE	60.90	848.12	399999.	7.23	55296.	2862.	9.12	0.0450	0.	72.	0.29
MILE	58.80	840.07	399999.	8.26	48446.	2161.	8.68	0.0400	0.	67.	0.31
MILE	57.00	838.36	399999.	8.10	49375.	2280.	8.83	0.0200	0.	64.	0.31
MILE	55.00	835.82	399999.	9.52	42014.	2310.	8.80	0.0200	0.	62.	0.39
MILE	53.10	834.78	399999.	7.28	54912.	2749.	9.81	0.0200	0.	61.	0.29
MILE	51.00	833.39	399999.	7.66	52211.	3504.	9.83	0.0200	0.	64.	0.35
MILE	48.30	832.76	399999.	5.75	69558.	7165.	12.25	0.0200	0.	64.	0.33
MILE	46.20	832.08	399999.	6.44	62115.	6997.	11.97	0.0200	0.	70.	0.38
MILE	44.10	832.10	399999.	3.84	104119.	3292.	11.29	0.0300	0.	77.	0.12
MILE	43.70	830.57	399999.	10.07	39703.	3185.	13.83	0.0300	0.	78.	0.50
MILE	42.00	830.82	399999.	4.28	93413.	3144.	10.21	0.0300	0.	81.	0.14
MILE	39.10	828.68	399999.	7.48	53498.	3039.	13.13	0.0230	0.	78.	0.31
MILE	37.00	828.78	399998.	4.23	94617.	2120.	13.39	0.0280	0.	77.	0.11
MILE	36.00	827.82	399998.	7.64	52349.	1520.	13.63	0.0280	0.	79.	0.23
MILE	34.60	827.56	399998.	5.83	68605.	2206.	14.76	0.0280	0.	79.	0.18
MILE	33.60	827.86	399998.	2.50	159925.	4092.	14.18	0.0290	0.	85.	0.07
MILE	31.50	827.11	399998.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE	30.10	826.85	399998.	5.48	72935.	1303.	14.29	0.0200	0.	86.	0.13
MILE	29.00	826.69	399998.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE	27.30	826.47	399998.	5.53	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE	25.20	826.30	399998.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE	23.10	825.91	399998.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

ODATE 10-19-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 427 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

	TIME	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL
	INFLOW	DEPTH	FROUDE							
MILE	79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69. 0.38
MILE	77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74. 0.28
MILE	75.60	877.43	400000.	10.64	37580.	2653.	10.55	0.0400	0.	71. 0.50
MILE	73.50	867.01	400000.	12.19	32806.	2026.	10.97	0.0330	0.	68. 0.53
MILE	71.40	864.29	400000.	7.89	50678.	1665.	11.79	0.0400	0.	66. 0.25
MILE	69.30	860.11	400000.	9.00	44422.	1613.	10.89	0.0340	0.	61. 0.30
MILE	67.20	857.95	400000.	5.89	67907.	4143.	10.46	0.0340	0.	67. 0.26
MILE	65.10	854.20	400000.	7.85	50940.	4867.	10.57	0.0320	0.	67. 0.43
MILE	63.00	852.67	400000.	4.93	81112.	3193.	8.79	0.0400	0.	72. 0.17
MILE	60.90	848.12	400000.	7.23	55296.	2862.	9.12	0.0450	0.	72. 0.29
MILE	58.80	840.07	399999.	8.26	48446.	2161.	8.68	0.0400	0.	67. 0.31
MILE	57.00	838.36	399999.	8.10	49375.	2280.	8.83	0.0200	0.	64. 0.31
MILE	55.00	835.82	399999.	9.52	42014.	2310.	8.80	0.0200	0.	62. 0.39
MILE	53.10	834.78	399999.	7.28	54912.	2749.	9.81	0.0200	0.	61. 0.29
MILE	51.00	833.39	399999.	7.66	52211.	3504.	9.83	0.0200	0.	64. 0.35
MILE	48.30	832.76	399999.	5.75	69558.	7165.	12.25	0.0200	0.	64. 0.33
MILE	46.20	832.08	399999.	6.44	62115.	6997.	11.97	0.0200	0.	70. 0.38
MILE	44.10	832.10	399999.	3.84	104119.	3292.	11.29	0.0300	0.	77. 0.12
MILE	43.70	830.57	399999.	10.07	39703.	3185.	13.83	0.0300	0.	78. 0.50
MILE	42.00	830.82	399999.	4.28	93413.	3144.	10.21	0.0300	0.	81. 0.14
MILE	39.10	828.68	399999.	7.48	53498.	3039.	13.13	0.0230	0.	78. 0.31
MILE	37.00	828.78	399999.	4.23	94617.	2120.	13.39	0.0280	0.	77. 0.11
MILE	36.00	827.82	399999.	7.64	52349.	1520.	13.63	0.0280	0.	79. 0.23
MILE	34.60	827.56	399999.	5.83	68605.	2206.	14.76	0.0280	0.	79. 0.18
MILE	33.60	827.86	399999.	2.50	159925.	4092.	14.18	0.0290	0.	85. 0.07
MILE	31.50	827.11	399999.	6.07	65911.	3184.	15.14	0.0250	0.	88. 0.24
MILE	30.10	826.85	399999.	5.48	72935.	1303.	14.29	0.0200	0.	86. 0.13
MILE	29.00	826.69	399999.	5.53	72333.	1829.	15.73	0.0200	0.	87. 0.15
MILE	27.30	826.47	399999.	5.53	72392.	1712.	16.08	0.0230	0.	89. 0.15
MILE	25.20	826.30	399999.	4.78	83697.	1671.	17.06	0.0230	0.	92. 0.12
MILE	23.10	825.91	399999.	5.44	73496.	1924.	15.79	0.0230	0.	96. 0.16

0DATE 10-19-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL
	INFLOW	DEPTH	FROUDE							
MILE	79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69. 0.38
MILE	77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74. 0.28
MILE	75.60	877.43	400000.	10.64	37580.	2653.	10.55	0.0400	0.	71. 0.50
MILE	73.50	867.01	400000.	12.19	32806.	2026.	10.97	0.0330	0.	68. 0.53
MILE	71.40	864.29	400000.	7.89	50678.	1665.	11.79	0.0400	0.	66. 0.25
MILE	69.30	860.11	400000.	9.00	44422.	1613.	10.89	0.0340	0.	61. 0.30
MILE	67.20	857.95	400000.	5.89	67907.	4143.	10.46	0.0340	0.	67. 0.26
MILE	65.10	854.20	400000.	7.85	50940.	4867.	10.57	0.0320	0.	67. 0.43

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 428 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	63.00	852.67	400000.	4.93	81112.	3193.	8.79	0.0400	0.	72.	0.17
MILE	60.90	848.12	400000.	7.23	55296.	2862.	9.12	0.0450	0.	72.	0.29
MILE	58.80	840.07	400000.	8.26	48446.	2161.	8.68	0.0400	0.	67.	0.31
MILE	57.00	838.36	399999.	8.10	49375.	2280.	8.83	0.0200	0.	64.	0.31
MILE	55.00	835.82	399999.	9.52	42014.	2310.	8.80	0.0200	0.	62.	0.39
MILE	53.10	834.78	399999.	7.28	54912.	2749.	9.81	0.0200	0.	61.	0.29
MILE	51.00	833.39	399999.	7.66	52211.	3504.	9.83	0.0200	0.	64.	0.35
MILE	48.30	832.76	399999.	5.75	69558.	7165.	12.25	0.0200	0.	64.	0.33
MILE	46.20	832.08	399999.	6.44	62115.	6997.	11.97	0.0200	0.	70.	0.38
MILE	44.10	832.10	399999.	3.84	104119.	3292.	11.29	0.0300	0.	77.	0.12
MILE	43.70	830.57	399999.	10.07	39703.	3185.	13.83	0.0300	0.	78.	0.50
MILE	42.00	830.82	399999.	4.28	93413.	3144.	10.21	0.0300	0.	81.	0.14
MILE	39.10	828.68	399999.	7.48	53498.	3039.	13.13	0.0230	0.	78.	0.31
MILE	37.00	828.78	399999.	4.23	94617.	2120.	13.39	0.0280	0.	77.	0.11
MILE	36.00	827.82	399999.	7.64	52349.	1520.	13.63	0.0280	0.	79.	0.23
MILE	34.60	827.56	399999.	5.83	68605.	2206.	14.76	0.0280	0.	79.	0.18
MILE	33.60	827.86	399999.	2.50	159925.	4092.	14.18	0.0290	0.	85.	0.07
MILE	31.50	827.11	399999.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE	30.10	826.85	399999.	5.48	72935.	1303.	14.29	0.0200	0.	86.	0.13
MILE	29.00	826.69	399999.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE	27.30	826.47	399999.	5.53	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE	25.20	826.30	399999.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE	23.10	825.91	399999.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

ODATE 10-19-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	9.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
INFLOW	DEPTH	FROUDE									
MILE	79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69.	0.38
MILE	77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74.	0.28
MILE	75.60	877.43	400000.	10.64	37580.	2653.	10.55	0.0400	0.	71.	0.50
MILE	73.50	867.01	400000.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.53
MILE	71.40	864.29	400000.	7.89	50678.	1665.	11.79	0.0400	0.	66.	0.25
MILE	69.30	860.11	400000.	9.00	44422.	1613.	10.89	0.0340	0.	61.	0.30
MILE	67.20	857.95	400000.	5.89	67907.	4143.	10.46	0.0340	0.	67.	0.26
MILE	65.10	854.20	400000.	7.85	50940.	4867.	10.57	0.0320	0.	67.	0.43
MILE	63.00	852.67	400000.	4.93	81112.	3193.	8.79	0.0400	0.	72.	0.17
MILE	60.90	848.12	400000.	7.23	55296.	2862.	9.12	0.0450	0.	72.	0.29
MILE	58.80	840.07	400000.	8.26	48446.	2161.	8.68	0.0400	0.	67.	0.31
MILE	57.00	838.36	400000.	8.10	49375.	2280.	8.83	0.0200	0.	64.	0.31
MILE	55.00	835.82	400000.	9.52	42014.	2310.	8.80	0.0200	0.	62.	0.39
MILE	53.10	834.78	400000.	7.28	54912.	2749.	9.81	0.0200	0.	61.	0.29
MILE	51.00	833.39	399999.	7.66	52211.	3504.	9.83	0.0200	0.	64.	0.35
MILE	48.30	832.76	399999.	5.75	69558.	7165.	12.25	0.0200	0.	64.	0.33
MILE	46.20	832.08	399999.	6.44	62115.	6997.	11.97	0.0200	0.	70.	0.38
MILE	44.10	832.10	399999.	3.84	104119.	3292.	11.29	0.0300	0.	77.	0.12
MILE	43.70	830.57	399999.	10.07	39703.	3185.	13.83	0.0300	0.	78.	0.50

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 429 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	42.00	830.82	399999.	4.28	93413.	3144.	10.21	0.0300	0.	81.	0.14
MILE	39.10	828.68	399999.	7.48	53498.	3039.	13.13	0.0230	0.	78.	0.31
MILE	37.00	828.78	399999.	4.23	94617.	2120.	13.39	0.0280	0.	77.	0.11
MILE	36.00	827.82	399999.	7.64	52349.	1520.	13.63	0.0280	0.	79.	0.23
MILE	34.60	827.56	399999.	5.83	68605.	2206.	14.76	0.0280	0.	79.	0.18
MILE	33.60	827.86	399999.	2.50	159925.	4092.	14.18	0.0290	0.	85.	0.07
MILE	31.50	827.11	399999.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE	30.10	826.85	399999.	5.48	72936.	1303.	14.29	0.0200	0.	86.	0.13
MILE	29.00	826.69	399999.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE	27.30	826.47	399999.	5.53	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE	25.20	826.30	399999.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE	23.10	825.91	399999.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

0DATE 10-19-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 10.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69.	0.38
MILE	77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74.	0.28
MILE	75.60	877.43	400000.	10.64	37580.	2653.	10.55	0.0400	0.	71.	0.50
MILE	73.50	867.01	400000.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.53
MILE	71.40	864.29	400000.	7.89	50678.	1665.	11.79	0.0400	0.	66.	0.25
MILE	69.30	860.11	400000.	9.00	44422.	1613.	10.89	0.0340	0.	61.	0.30
MILE	67.20	857.95	400000.	5.89	67907.	4143.	10.46	0.0340	0.	67.	0.26
MILE	65.10	854.20	400000.	7.85	50940.	4867.	10.57	0.0320	0.	67.	0.43
MILE	63.00	852.67	400000.	4.93	81112.	3193.	8.79	0.0400	0.	72.	0.17
MILE	60.90	848.12	400000.	7.23	55296.	2862.	9.12	0.0450	0.	72.	0.29
MILE	58.80	840.07	400000.	8.26	48446.	2161.	8.68	0.0400	0.	67.	0.31
MILE	57.00	838.36	400000.	8.10	49375.	2280.	8.83	0.0200	0.	64.	0.31
MILE	55.00	835.82	400000.	9.52	42014.	2310.	8.80	0.0200	0.	62.	0.39
MILE	53.10	834.78	400000.	7.28	54912.	2749.	9.81	0.0200	0.	61.	0.29
MILE	51.00	833.39	400000.	7.66	52211.	3504.	9.83	0.0200	0.	64.	0.35
MILE	48.30	832.76	399999.	5.75	69558.	7165.	12.25	0.0200	0.	64.	0.33
MILE	46.20	832.08	399999.	6.44	62115.	6997.	11.97	0.0200	0.	70.	0.38
MILE	44.10	832.10	399999.	3.84	104119.	3292.	11.29	0.0300	0.	77.	0.12
MILE	43.70	830.57	399999.	10.07	39703.	3185.	13.83	0.0300	0.	78.	0.50
MILE	42.00	830.82	399999.	4.28	93413.	3144.	10.21	0.0300	0.	81.	0.14
MILE	39.10	828.68	399999.	7.48	53498.	3039.	13.13	0.0230	0.	78.	0.31
MILE	37.00	828.78	399999.	4.23	94617.	2120.	13.39	0.0280	0.	77.	0.11
MILE	36.00	827.82	399999.	7.64	52349.	1520.	13.63	0.0280	0.	79.	0.23
MILE	34.60	827.56	399999.	5.83	68605.	2206.	14.76	0.0280	0.	79.	0.18
MILE	33.60	827.86	399999.	2.50	159925.	4092.	14.18	0.0290	0.	85.	0.07
MILE	31.50	827.11	399999.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE	30.10	826.85	399999.	5.48	72936.	1303.	14.29	0.0200	0.	86.	0.13
MILE	29.00	826.69	399999.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE	27.30	826.47	399999.	5.53	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE	25.20	826.30	399999.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 430 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 23.10 825.91 399999. 5.44 73496. 1924. 15.79 0.0230 0. 96. 0.16

0DATE 10-19-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 11.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80 887.48 400000. 12.11 33038. 1031. 10.44 0.0290 0. 69. 0.38
MILE 77.70 885.11 400000. 9.40 42556. 1260. 11.44 0.0400 0. 74. 0.28
MILE 75.60 877.43 400000. 10.64 37580. 2653. 10.55 0.0400 0. 71. 0.50
MILE 73.50 867.01 400000. 12.19 32806. 2026. 10.97 0.0330 0. 68. 0.53
MILE 71.40 864.29 400000. 7.89 50678. 1665. 11.79 0.0400 0. 66. 0.25
MILE 69.30 860.11 400000. 9.00 44422. 1613. 10.89 0.0340 0. 61. 0.30
MILE 67.20 857.95 400000. 5.89 67907. 4143. 10.46 0.0340 0. 67. 0.26
MILE 65.10 854.20 400000. 7.85 50940. 4867. 10.57 0.0320 0. 67. 0.43
MILE 63.00 852.67 400000. 4.93 81112. 3193. 8.79 0.0400 0. 72. 0.17
MILE 60.90 848.12 400000. 7.23 55296. 2862. 9.12 0.0450 0. 72. 0.29
MILE 58.80 840.07 400000. 8.26 48446. 2161. 8.68 0.0400 0. 67. 0.31
MILE 57.00 838.36 400000. 8.10 49375. 2280. 8.83 0.0200 0. 64. 0.31
MILE 55.00 835.82 400000. 9.52 42014. 2310. 8.80 0.0200 0. 62. 0.39
MILE 53.10 834.78 400000. 7.28 54912. 2749. 9.81 0.0200 0. 61. 0.29
MILE 51.00 833.39 400000. 7.66 52211. 3504. 9.83 0.0200 0. 64. 0.35
MILE 48.30 832.76 400000. 5.75 69558. 7165. 12.25 0.0200 0. 64. 0.33
MILE 46.20 832.08 400000. 6.44 62115. 6997. 11.97 0.0200 0. 70. 0.38
MILE 44.10 832.10 399999. 3.84 104119. 3292. 11.29 0.0300 0. 77. 0.12
MILE 43.70 830.57 399999. 10.07 39703. 3185. 13.83 0.0300 0. 78. 0.50
MILE 42.00 830.82 399999. 4.28 93413. 3144. 10.21 0.0300 0. 81. 0.14
MILE 39.10 828.68 399999. 7.48 53498. 3039. 13.13 0.0230 0. 78. 0.31
MILE 37.00 828.78 399999. 4.23 94617. 2120. 13.39 0.0280 0. 77. 0.11
MILE 36.00 827.82 399999. 7.64 52349. 1520. 13.63 0.0280 0. 79. 0.23
MILE 34.60 827.56 399999. 5.83 68605. 2206. 14.76 0.0280 0. 79. 0.18
MILE 33.60 827.86 399999. 2.50 159925. 4092. 14.18 0.0290 0. 85. 0.07
MILE 31.50 827.11 399999. 6.07 65911. 3184. 15.14 0.0250 0. 88. 0.24
MILE 30.10 826.85 399999. 5.48 72936. 1303. 14.29 0.0200 0. 86. 0.13
MILE 29.00 826.69 399999. 5.53 72333. 1829. 15.73 0.0200 0. 87. 0.15
MILE 27.30 826.47 399999. 5.53 72392. 1712. 16.08 0.0230 0. 89. 0.15
MILE 25.20 826.30 399999. 4.78 83697. 1671. 17.06 0.0230 0. 92. 0.12
MILE 23.10 825.91 399999. 5.44 73496. 1924. 15.79 0.0230 0. 96. 0.16

0DATE 10-19-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 12.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80 887.48 400000. 12.11 33038. 1031. 10.44 0.0290 0. 69. 0.38

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 431 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74.	0.28
MILE	75.60	877.43	400000.	10.64	37580.	2653.	10.55	0.0400	0.	71.	0.50
MILE	73.50	867.01	400000.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.53
MILE	71.40	864.29	400000.	7.89	50678.	1665.	11.79	0.0400	0.	66.	0.25
MILE	69.30	860.11	400000.	9.00	44422.	1613.	10.89	0.0340	0.	61.	0.30
MILE	67.20	857.95	400000.	5.89	67907.	4143.	10.46	0.0340	0.	67.	0.26
MILE	65.10	854.20	400000.	7.85	50940.	4867.	10.57	0.0320	0.	67.	0.43
MILE	63.00	852.67	400000.	4.93	81112.	3193.	8.79	0.0400	0.	72.	0.17
MILE	60.90	848.12	400000.	7.23	55296.	2862.	9.12	0.0450	0.	72.	0.29
MILE	58.80	840.07	400000.	8.26	48446.	2161.	8.68	0.0400	0.	67.	0.31
MILE	57.00	838.36	400000.	8.10	49375.	2280.	8.83	0.0200	0.	64.	0.31
MILE	55.00	835.82	400000.	9.52	42014.	2310.	8.80	0.0200	0.	62.	0.39
MILE	53.10	834.78	400000.	7.28	54912.	2749.	9.81	0.0200	0.	61.	0.29
MILE	51.00	833.39	400000.	7.66	52211.	3504.	9.83	0.0200	0.	64.	0.35
MILE	48.30	832.76	400000.	5.75	69558.	7165.	12.25	0.0200	0.	64.	0.33
MILE	46.20	832.08	400000.	6.44	62115.	6997.	11.97	0.0200	0.	70.	0.38
MILE	44.10	832.10	400000.	3.84	104119.	3292.	11.29	0.0300	0.	77.	0.12
MILE	43.70	830.57	400000.	10.07	39703.	3185.	13.83	0.0300	0.	78.	0.50
MILE	42.00	830.82	400000.	4.28	93413.	3144.	10.21	0.0300	0.	81.	0.14
MILE	39.10	828.68	400000.	7.48	53498.	3039.	13.13	0.0230	0.	78.	0.31
MILE	37.00	828.78	400000.	4.23	94617.	2120.	13.39	0.0280	0.	77.	0.11
MILE	36.00	827.82	400000.	7.64	52349.	1520.	13.63	0.0280	0.	79.	0.23
MILE	34.60	827.56	399999.	5.83	68605.	2206.	14.76	0.0280	0.	79.	0.18
MILE	33.60	827.86	399999.	2.50	159925.	4092.	14.18	0.0290	0.	85.	0.07
MILE	31.50	827.11	399999.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE	30.10	826.85	399999.	5.48	72936.	1303.	14.29	0.0200	0.	86.	0.13
MILE	29.00	826.69	399999.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE	27.30	826.47	399999.	5.53	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE	25.20	826.30	399999.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE	23.10	825.91	399999.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

ODATE 10-19-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 13.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69.	0.38
MILE	77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74.	0.28
MILE	75.60	877.43	400000.	10.64	37580.	2653.	10.55	0.0400	0.	71.	0.50
MILE	73.50	867.01	400000.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.53
MILE	71.40	864.29	400000.	7.89	50678.	1665.	11.79	0.0400	0.	66.	0.25
MILE	69.30	860.11	400000.	9.00	44422.	1613.	10.89	0.0340	0.	61.	0.30
MILE	67.20	857.95	400000.	5.89	67907.	4143.	10.46	0.0340	0.	67.	0.26
MILE	65.10	854.20	400000.	7.85	50940.	4867.	10.57	0.0320	0.	67.	0.43
MILE	63.00	852.67	400000.	4.93	81112.	3193.	8.79	0.0400	0.	72.	0.17
MILE	60.90	848.12	400000.	7.23	55296.	2862.	9.12	0.0450	0.	72.	0.29
MILE	58.80	840.07	400000.	8.26	48446.	2161.	8.68	0.0400	0.	67.	0.31
MILE	57.00	838.36	400000.	8.10	49375.	2280.	8.83	0.0200	0.	64.	0.31

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 432 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 55.00	835.82	400000.	9.52	42014.	2310.	8.80	0.0200	0.	62.	0.39
MILE 53.10	834.78	400000.	7.28	54912.	2749.	9.81	0.0200	0.	61.	0.29
MILE 51.00	833.39	400000.	7.66	52211.	3504.	9.83	0.0200	0.	64.	0.35
MILE 48.30	832.76	400000.	5.75	69558.	7165.	12.25	0.0200	0.	64.	0.33
MILE 46.20	832.08	400000.	6.44	62115.	6997.	11.97	0.0200	0.	70.	0.38
MILE 44.10	832.10	400000.	3.84	104119.	3292.	11.29	0.0300	0.	77.	0.12
MILE 43.70	830.57	400000.	10.07	39703.	3185.	13.83	0.0300	0.	78.	0.50
MILE 42.00	830.82	400000.	4.28	93413.	3144.	10.21	0.0300	0.	81.	0.14
MILE 39.10	828.68	400000.	7.48	53498.	3039.	13.13	0.0230	0.	78.	0.31
MILE 37.00	828.78	400000.	4.23	94617.	2120.	13.39	0.0280	0.	77.	0.11
MILE 36.00	827.82	400000.	7.64	52349.	1520.	13.63	0.0280	0.	79.	0.23
MILE 34.60	827.56	400000.	5.83	68605.	2206.	14.76	0.0280	0.	79.	0.18
MILE 33.60	827.86	400000.	2.50	159925.	4092.	14.18	0.0290	0.	85.	0.07
MILE 31.50	827.11	400000.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE 30.10	826.85	400000.	5.48	72936.	1303.	14.29	0.0200	0.	86.	0.13
MILE 29.00	826.69	400000.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE 27.30	826.47	400000.	5.53	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE 25.20	826.30	400000.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE 23.10	825.91	400000.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

ODATE 10-19-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 14.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69.	0.38
MILE 77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74.	0.28
MILE 75.60	877.43	400000.	10.64	37580.	2653.	10.55	0.0400	0.	71.	0.50
MILE 73.50	867.01	400000.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.53
MILE 71.40	864.29	400000.	7.89	50678.	1665.	11.79	0.0400	0.	66.	0.25
MILE 69.30	860.11	400000.	9.00	44422.	1613.	10.89	0.0340	0.	61.	0.30
MILE 67.20	857.95	400000.	5.89	67907.	4143.	10.46	0.0340	0.	67.	0.26
MILE 65.10	854.20	400000.	7.85	50940.	4867.	10.57	0.0320	0.	67.	0.43
MILE 63.00	852.67	400000.	4.93	81112.	3193.	8.79	0.0400	0.	72.	0.17
MILE 60.90	848.12	400000.	7.23	55296.	2862.	9.12	0.0450	0.	72.	0.29
MILE 58.80	840.07	400000.	8.26	48446.	2161.	8.68	0.0400	0.	67.	0.31
MILE 57.00	838.36	400000.	8.10	49375.	2280.	8.83	0.0200	0.	64.	0.31
MILE 55.00	835.82	400000.	9.52	42014.	2310.	8.80	0.0200	0.	62.	0.39
MILE 53.10	834.78	400000.	7.28	54912.	2749.	9.81	0.0200	0.	61.	0.29
MILE 51.00	833.39	400000.	7.66	52211.	3504.	9.83	0.0200	0.	64.	0.35
MILE 48.30	832.76	400000.	5.75	69558.	7165.	12.25	0.0200	0.	64.	0.33
MILE 46.20	832.08	400000.	6.44	62115.	6997.	11.97	0.0200	0.	70.	0.38
MILE 44.10	832.10	400000.	3.84	104119.	3292.	11.29	0.0300	0.	77.	0.12
MILE 43.70	830.57	400000.	10.07	39703.	3185.	13.83	0.0300	0.	78.	0.50
MILE 42.00	830.82	400000.	4.28	93413.	3144.	10.21	0.0300	0.	81.	0.14
MILE 39.10	828.68	400000.	7.48	53498.	3039.	13.13	0.0230	0.	78.	0.31
MILE 37.00	828.78	400000.	4.23	94617.	2120.	13.39	0.0280	0.	77.	0.11
MILE 36.00	827.82	400000.	7.64	52349.	1520.	13.63	0.0280	0.	79.	0.23

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 433 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 34.60	827.56	400000.	5.83	68605.	2206.	14.76	0.0280	0.	79.	0.18
MILE 33.60	827.86	400000.	2.50	159925.	4092.	14.18	0.0290	0.	85.	0.07
MILE 31.50	827.11	400000.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE 30.10	826.85	400000.	5.48	72936.	1303.	14.29	0.0200	0.	86.	0.13
MILE 29.00	826.69	400000.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE 27.30	826.47	400000.	5.53	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE 25.20	826.30	400000.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE 23.10	825.91	400000.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

0DATE 10-19-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	15.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL	
INFLOW	DEPTH	FROUDE								
MILE 79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69.	0.38
MILE 77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74.	0.28
MILE 75.60	877.43	400000.	10.64	37580.	2653.	10.55	0.0400	0.	71.	0.50
MILE 73.50	867.01	400000.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.53
MILE 71.40	864.29	400000.	7.89	50678.	1665.	11.79	0.0400	0.	66.	0.25
MILE 69.30	860.11	400000.	9.00	44422.	1613.	10.89	0.0340	0.	61.	0.30
MILE 67.20	857.95	400000.	5.89	67907.	4143.	10.46	0.0340	0.	67.	0.26
MILE 65.10	854.20	400000.	7.85	50940.	4867.	10.57	0.0320	0.	67.	0.43
MILE 63.00	852.67	400000.	4.93	81112.	3193.	8.79	0.0400	0.	72.	0.17
MILE 60.90	848.12	400000.	7.23	55296.	2862.	9.12	0.0450	0.	72.	0.29
MILE 58.80	840.07	400000.	8.26	48446.	2161.	8.68	0.0400	0.	67.	0.31
MILE 57.00	838.36	400000.	8.10	49375.	2280.	8.83	0.0200	0.	64.	0.31
MILE 55.00	835.82	400000.	9.52	42014.	2310.	8.80	0.0200	0.	62.	0.39
MILE 53.10	834.78	400000.	7.28	54912.	2749.	9.81	0.0200	0.	61.	0.29
MILE 51.00	833.39	400000.	7.66	52211.	3504.	9.83	0.0200	0.	64.	0.35
MILE 48.30	832.76	400000.	5.75	69558.	7165.	12.25	0.0200	0.	64.	0.33
MILE 46.20	832.08	400000.	6.44	62115.	6997.	11.97	0.0200	0.	70.	0.38
MILE 44.10	832.10	400000.	3.84	104119.	3292.	11.29	0.0300	0.	77.	0.12
MILE 43.70	830.57	400000.	10.07	39703.	3185.	13.83	0.0300	0.	78.	0.50
MILE 42.00	830.82	400000.	4.28	93413.	3144.	10.21	0.0300	0.	81.	0.14
MILE 39.10	828.68	400000.	7.48	53498.	3039.	13.13	0.0230	0.	78.	0.31
MILE 37.00	828.78	400000.	4.23	94617.	2120.	13.39	0.0280	0.	77.	0.11
MILE 36.00	827.82	400000.	7.64	52349.	1520.	13.63	0.0280	0.	79.	0.23
MILE 34.60	827.56	400000.	5.83	68605.	2206.	14.76	0.0280	0.	79.	0.18
MILE 33.60	827.86	400000.	2.50	159925.	4092.	14.18	0.0290	0.	85.	0.07
MILE 31.50	827.11	400000.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE 30.10	826.85	400000.	5.48	72936.	1303.	14.29	0.0200	0.	86.	0.13
MILE 29.00	826.69	400000.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE 27.30	826.47	400000.	5.53	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE 25.20	826.30	400000.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE 23.10	825.91	400000.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 434 of 665
Subject: SOCH Model Calibration, Melton Hill			Prepped
Appendix E			Checked
			ACM

0DATE 10-19-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 16.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL
	INFLOW DEPTH	FROUDE							
MILE 79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69. 0.38
MILE 77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74. 0.28
MILE 75.60	877.43	400000.	10.64	37580.	2653.	10.55	0.0400	0.	71. 0.50
MILE 73.50	867.01	400000.	12.19	32806.	2026.	10.97	0.0330	0.	68. 0.53
MILE 71.40	864.29	400000.	7.89	50678.	1665.	11.79	0.0400	0.	66. 0.25
MILE 69.30	860.11	400000.	9.00	44422.	1613.	10.89	0.0340	0.	61. 0.30
MILE 67.20	857.95	400000.	5.89	67907.	4143.	10.46	0.0340	0.	67. 0.26
MILE 65.10	854.20	400000.	7.85	50940.	4867.	10.57	0.0320	0.	67. 0.43
MILE 63.00	852.67	400000.	4.93	81112.	3193.	8.79	0.0400	0.	72. 0.17
MILE 60.90	848.12	400000.	7.23	55296.	2862.	9.12	0.0450	0.	72. 0.29
MILE 58.80	840.07	400000.	8.26	48446.	2161.	8.68	0.0400	0.	67. 0.31
MILE 57.00	838.36	400000.	8.10	49375.	2280.	8.83	0.0200	0.	64. 0.31
MILE 55.00	835.82	400000.	9.52	42014.	2310.	8.80	0.0200	0.	62. 0.39
MILE 53.10	834.78	400000.	7.28	54912.	2749.	9.81	0.0200	0.	61. 0.29
MILE 51.00	833.39	400000.	7.66	52211.	3504.	9.83	0.0200	0.	64. 0.35
MILE 48.30	832.76	400000.	5.75	69558.	7165.	12.25	0.0200	0.	64. 0.33
MILE 46.20	832.08	400000.	6.44	62115.	6997.	11.97	0.0200	0.	70. 0.38
MILE 44.10	832.10	400000.	3.84	104119.	3292.	11.29	0.0300	0.	77. 0.12
MILE 43.70	830.57	400000.	10.07	39703.	3185.	13.83	0.0300	0.	78. 0.50
MILE 42.00	830.82	400000.	4.28	93413.	3144.	10.21	0.0300	0.	81. 0.14
MILE 39.10	828.68	400000.	7.48	53498.	3039.	13.13	0.0230	0.	78. 0.31
MILE 37.00	828.78	400000.	4.23	94617.	2120.	13.39	0.0280	0.	77. 0.11
MILE 36.00	827.82	400000.	7.64	52349.	1520.	13.63	0.0280	0.	79. 0.23
MILE 34.60	827.56	400000.	5.83	68605.	2206.	14.76	0.0280	0.	79. 0.18
MILE 33.60	827.86	400000.	2.50	159925.	4092.	14.18	0.0290	0.	85. 0.07
MILE 31.50	827.11	400000.	6.07	65911.	3184.	15.14	0.0250	0.	88. 0.24
MILE 30.10	826.85	400000.	5.48	72936.	1303.	14.29	0.0200	0.	86. 0.13
MILE 29.00	826.69	400000.	5.53	72333.	1829.	15.73	0.0200	0.	87. 0.15
MILE 27.30	826.47	400000.	5.53	72392.	1712.	16.08	0.0230	0.	89. 0.15
MILE 25.20	826.30	400000.	4.78	83697.	1671.	17.06	0.0230	0.	92. 0.12
MILE 23.10	825.91	400000.	5.44	73496.	1924.	15.79	0.0230	0.	96. 0.16

0DATE 10-19-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 17.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL
	INFLOW DEPTH	FROUDE							
MILE 79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69. 0.38
MILE 77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74. 0.28
MILE 75.60	877.43	400000.	10.64	37580.	2653.	10.55	0.0400	0.	71. 0.50
MILE 73.50	867.01	400000.	12.19	32806.	2026.	10.97	0.0330	0.	68. 0.53
MILE 71.40	864.29	400000.	7.89	50678.	1665.	11.79	0.0400	0.	66. 0.25

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
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MILE 69.30	860.11	400000.	9.00	44422.	1613.	10.89	0.0340	0.	61.	0.30
MILE 67.20	857.95	400000.	5.89	67907.	4143.	10.46	0.0340	0.	67.	0.26
MILE 65.10	854.20	400000.	7.85	50940.	4867.	10.57	0.0320	0.	67.	0.43
MILE 63.00	852.67	400000.	4.93	81112.	3193.	8.79	0.0400	0.	72.	0.17
MILE 60.90	848.12	400000.	7.23	55296.	2862.	9.12	0.0450	0.	72.	0.29
MILE 58.80	840.07	400000.	8.26	48446.	2161.	8.68	0.0400	0.	67.	0.31
MILE 57.00	838.36	400000.	8.10	49375.	2280.	8.83	0.0200	0.	64.	0.31
MILE 55.00	835.82	400000.	9.52	42014.	2310.	8.80	0.0200	0.	62.	0.39
MILE 53.10	834.78	400000.	7.28	54912.	2749.	9.81	0.0200	0.	61.	0.29
MILE 51.00	833.39	400000.	7.66	52211.	3504.	9.83	0.0200	0.	64.	0.35
MILE 48.30	832.76	400000.	5.75	69558.	7165.	12.25	0.0200	0.	64.	0.33
MILE 46.20	832.08	400000.	6.44	62115.	6997.	11.97	0.0200	0.	70.	0.38
MILE 44.10	832.10	400000.	3.84	104119.	3292.	11.29	0.0300	0.	77.	0.12
MILE 43.70	830.57	400000.	10.07	39703.	3185.	13.83	0.0300	0.	78.	0.50
MILE 42.00	830.82	400000.	4.28	93413.	3144.	10.21	0.0300	0.	81.	0.14
MILE 39.10	828.68	400000.	7.48	53498.	3039.	13.13	0.0230	0.	78.	0.31
MILE 37.00	828.78	400000.	4.23	94617.	2120.	13.39	0.0280	0.	77.	0.11
MILE 36.00	827.82	400000.	7.64	52349.	1520.	13.63	0.0280	0.	79.	0.23
MILE 34.60	827.56	400000.	5.83	68605.	2206.	14.76	0.0280	0.	79.	0.18
MILE 33.60	827.86	400000.	2.50	159925.	4092.	14.18	0.0290	0.	85.	0.07
MILE 31.50	827.11	400000.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE 30.10	826.85	400000.	5.48	72936.	1303.	14.29	0.0200	0.	86.	0.13
MILE 29.00	826.69	400000.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE 27.30	826.47	400000.	5.53	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE 25.20	826.30	400000.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE 23.10	825.91	400000.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

ODATE 10-19-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 18.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69.	0.38
MILE 77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74.	0.28
MILE 75.60	877.43	400000.	10.64	37581.	2653.	10.55	0.0400	0.	71.	0.50
MILE 73.50	867.01	400000.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.53
MILE 71.40	864.29	400000.	7.89	50678.	1665.	11.79	0.0400	0.	66.	0.25
MILE 69.30	860.11	400000.	9.00	44422.	1613.	10.89	0.0340	0.	61.	0.30
MILE 67.20	857.95	400000.	5.89	67907.	4143.	10.46	0.0340	0.	67.	0.26
MILE 65.10	854.20	400000.	7.85	50940.	4867.	10.57	0.0320	0.	67.	0.43
MILE 63.00	852.67	400000.	4.93	81112.	3193.	8.79	0.0400	0.	72.	0.17
MILE 60.90	848.12	400000.	7.23	55296.	2862.	9.12	0.0450	0.	72.	0.29
MILE 58.80	840.07	400000.	8.26	48446.	2161.	8.68	0.0400	0.	67.	0.31
MILE 57.00	838.36	400000.	8.10	49375.	2280.	8.83	0.0200	0.	64.	0.31
MILE 55.00	835.82	400000.	9.52	42014.	2310.	8.80	0.0200	0.	62.	0.39
MILE 53.10	834.78	400000.	7.28	54912.	2749.	9.81	0.0200	0.	61.	0.29
MILE 51.00	833.39	400000.	7.66	52211.	3504.	9.83	0.0200	0.	64.	0.35
MILE 48.30	832.76	400000.	5.75	69558.	7165.	12.25	0.0200	0.	64.	0.33

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 46.20	832.08	400000.	6.44	62115.	6997.	11.97	0.0200	0.	70.	0.38
MILE 44.10	832.10	400000.	3.84	104119.	3292.	11.29	0.0300	0.	77.	0.12
MILE 43.70	830.57	400000.	10.07	39703.	3185.	13.83	0.0300	0.	78.	0.50
MILE 42.00	830.82	400000.	4.28	93413.	3144.	10.21	0.0300	0.	81.	0.14
MILE 39.10	828.68	400000.	7.48	53498.	3039.	13.13	0.0230	0.	78.	0.31
MILE 37.00	828.78	400000.	4.23	94617.	2120.	13.39	0.0280	0.	77.	0.11
MILE 36.00	827.82	400000.	7.64	52349.	1520.	13.63	0.0280	0.	79.	0.23
MILE 34.60	827.56	400000.	5.83	68605.	2206.	14.76	0.0280	0.	79.	0.18
MILE 33.60	827.86	400000.	2.50	159925.	4092.	14.18	0.0290	0.	85.	0.07
MILE 31.50	827.11	400000.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE 30.10	826.85	400000.	5.48	72936.	1303.	14.29	0.0200	0.	86.	0.13
MILE 29.00	826.69	400000.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE 27.30	826.47	400000.	5.53	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE 25.20	826.30	400000.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE 23.10	825.91	400000.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

ODATE 10-19-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 19.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69.	0.38
MILE 77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74.	0.28
MILE 75.60	877.43	400000.	10.64	37581.	2653.	10.55	0.0400	0.	71.	0.50
MILE 73.50	867.01	400000.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.53
MILE 71.40	864.29	400000.	7.89	50678.	1665.	11.79	0.0400	0.	66.	0.25
MILE 69.30	860.11	400000.	9.00	44422.	1613.	10.89	0.0340	0.	61.	0.30
MILE 67.20	857.95	400000.	5.89	67907.	4143.	10.46	0.0340	0.	67.	0.26
MILE 65.10	854.20	400000.	7.85	50940.	4867.	10.57	0.0320	0.	67.	0.43
MILE 63.00	852.67	400000.	4.93	81112.	3193.	8.79	0.0400	0.	72.	0.17
MILE 60.90	848.12	400000.	7.23	55296.	2862.	9.12	0.0450	0.	72.	0.29
MILE 58.80	840.07	400000.	8.26	48446.	2161.	8.68	0.0400	0.	67.	0.31
MILE 57.00	838.36	400000.	8.10	49375.	2280.	8.83	0.0200	0.	64.	0.31
MILE 55.00	835.82	400000.	9.52	42014.	2310.	8.80	0.0200	0.	62.	0.39
MILE 53.10	834.78	400000.	7.28	54912.	2749.	9.81	0.0200	0.	61.	0.29
MILE 51.00	833.39	400000.	7.66	52211.	3504.	9.83	0.0200	0.	64.	0.35
MILE 48.30	832.76	400000.	5.75	69558.	7165.	12.25	0.0200	0.	64.	0.33
MILE 46.20	832.08	400000.	6.44	62115.	6997.	11.97	0.0200	0.	70.	0.38
MILE 44.10	832.10	400000.	3.84	104119.	3292.	11.29	0.0300	0.	77.	0.12
MILE 43.70	830.57	400000.	10.07	39703.	3185.	13.83	0.0300	0.	78.	0.50
MILE 42.00	830.82	400000.	4.28	93413.	3144.	10.21	0.0300	0.	81.	0.14
MILE 39.10	828.68	400000.	7.48	53498.	3039.	13.13	0.0230	0.	78.	0.31
MILE 37.00	828.78	400000.	4.23	94617.	2120.	13.39	0.0280	0.	77.	0.11
MILE 36.00	827.82	400000.	7.64	52349.	1520.	13.63	0.0280	0.	79.	0.23
MILE 34.60	827.56	400000.	5.83	68605.	2206.	14.76	0.0280	0.	79.	0.18
MILE 33.60	827.86	400000.	2.50	159925.	4092.	14.18	0.0290	0.	85.	0.07
MILE 31.50	827.11	400000.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE 30.10	826.85	400000.	5.48	72936.	1303.	14.29	0.0200	0.	86.	0.13

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 437 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	29.00	826.69	400000.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE	27.30	826.47	400000.	5.53	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE	25.20	826.30	400000.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE	23.10	825.91	400000.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

ODATE 10-19-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 20.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69.	0.38
MILE	77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74.	0.28
MILE	75.60	877.43	400000.	10.64	37581.	2653.	10.55	0.0400	0.	71.	0.50
MILE	73.50	867.01	400000.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.53
MILE	71.40	864.29	400000.	7.89	50678.	1665.	11.79	0.0400	0.	66.	0.25
MILE	69.30	860.11	400000.	9.00	44422.	1613.	10.89	0.0340	0.	61.	0.30
MILE	67.20	857.95	400000.	5.89	67907.	4143.	10.46	0.0340	0.	67.	0.26
MILE	65.10	854.20	400000.	7.85	50940.	4867.	10.57	0.0320	0.	67.	0.43
MILE	63.00	852.67	400000.	4.93	81112.	3193.	8.79	0.0400	0.	72.	0.17
MILE	60.90	848.12	400000.	7.23	55296.	2862.	9.12	0.0450	0.	72.	0.29
MILE	58.80	840.07	400000.	8.26	48446.	2161.	8.68	0.0400	0.	67.	0.31
MILE	57.00	838.36	400000.	8.10	49375.	2280.	8.83	0.0200	0.	64.	0.31
MILE	55.00	835.82	400000.	9.52	42014.	2310.	8.80	0.0200	0.	62.	0.39
MILE	53.10	834.78	400000.	7.28	54912.	2749.	9.81	0.0200	0.	61.	0.29
MILE	51.00	833.39	400000.	7.66	52211.	3504.	9.83	0.0200	0.	64.	0.35
MILE	48.30	832.76	400000.	5.75	69558.	7165.	12.25	0.0200	0.	64.	0.33
MILE	46.20	832.08	400000.	6.44	62115.	6997.	11.97	0.0200	0.	70.	0.38
MILE	44.10	832.10	400000.	3.84	104119.	3292.	11.29	0.0300	0.	77.	0.12
MILE	43.70	830.57	400000.	10.07	39703.	3185.	13.83	0.0300	0.	78.	0.50
MILE	42.00	830.82	400000.	4.28	93413.	3144.	10.21	0.0300	0.	81.	0.14
MILE	39.10	828.68	400000.	7.48	53498.	3039.	13.13	0.0230	0.	78.	0.31
MILE	37.00	828.78	400000.	4.23	94617.	2120.	13.39	0.0280	0.	77.	0.11
MILE	36.00	827.82	400000.	7.64	52349.	1520.	13.63	0.0280	0.	79.	0.23
MILE	34.60	827.56	400000.	5.83	68605.	2206.	14.76	0.0280	0.	79.	0.18
MILE	33.60	827.86	400000.	2.50	159925.	4092.	14.18	0.0290	0.	85.	0.07
MILE	31.50	827.11	400000.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE	30.10	826.85	400000.	5.48	72936.	1303.	14.29	0.0200	0.	86.	0.13
MILE	29.00	826.69	400000.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE	27.30	826.47	400000.	5.53	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE	25.20	826.30	400000.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE	23.10	825.91	400000.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

ODATE 10-19-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 438 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

TIME 21.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69.	0.38
MILE 77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74.	0.28
MILE 75.60	877.43	400000.	10.64	37581.	2653.	10.55	0.0400	0.	71.	0.50
MILE 73.50	867.01	400000.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.53
MILE 71.40	864.29	400000.	7.89	50678.	1665.	11.79	0.0400	0.	66.	0.25
MILE 69.30	860.11	400000.	9.00	44422.	1613.	10.89	0.0340	0.	61.	0.30
MILE 67.20	857.95	400000.	5.89	67907.	4143.	10.46	0.0340	0.	67.	0.26
MILE 65.10	854.20	400000.	7.85	50940.	4867.	10.57	0.0320	0.	67.	0.43
MILE 63.00	852.67	400000.	4.93	81112.	3193.	8.79	0.0400	0.	72.	0.17
MILE 60.90	848.12	400000.	7.23	55296.	2862.	9.12	0.0450	0.	72.	0.29
MILE 58.80	840.07	400000.	8.26	48446.	2161.	8.68	0.0400	0.	67.	0.31
MILE 57.00	838.36	400000.	8.10	49375.	2280.	8.83	0.0200	0.	64.	0.31
MILE 55.00	835.82	400000.	9.52	42014.	2310.	8.80	0.0200	0.	62.	0.39
MILE 53.10	834.78	400000.	7.28	54912.	2749.	9.81	0.0200	0.	61.	0.29
MILE 51.00	833.39	400000.	7.66	52211.	3504.	9.83	0.0200	0.	64.	0.35
MILE 48.30	832.76	400000.	5.75	69558.	7165.	12.25	0.0200	0.	64.	0.33
MILE 46.20	832.08	400000.	6.44	62115.	6997.	11.97	0.0200	0.	70.	0.38
MILE 44.10	832.10	400000.	3.84	104119.	3292.	11.29	0.0300	0.	77.	0.12
MILE 43.70	830.57	400000.	10.07	39703.	3185.	13.83	0.0300	0.	78.	0.50
MILE 42.00	830.82	400000.	4.28	93413.	3144.	10.21	0.0300	0.	81.	0.14
MILE 39.10	828.68	400000.	7.48	53498.	3039.	13.13	0.0230	0.	78.	0.31
MILE 37.00	828.78	400000.	4.23	94617.	2120.	13.39	0.0280	0.	77.	0.11
MILE 36.00	827.82	400000.	7.64	52349.	1520.	13.63	0.0280	0.	79.	0.23
MILE 34.60	827.56	400000.	5.83	68605.	2206.	14.76	0.0280	0.	79.	0.18
MILE 33.60	827.86	400000.	2.50	159925.	4092.	14.18	0.0290	0.	85.	0.07
MILE 31.50	827.11	400000.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE 30.10	826.85	400000.	5.48	72936.	1303.	14.29	0.0200	0.	86.	0.13
MILE 29.00	826.69	400000.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE 27.30	826.47	400000.	5.53	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE 25.20	826.30	400000.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE 23.10	825.91	400000.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

0DATE 10-19-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 22.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69.	0.38
MILE 77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74.	0.28
MILE 75.60	877.43	400000.	10.64	37581.	2653.	10.55	0.0400	0.	71.	0.50
MILE 73.50	867.01	400000.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.53
MILE 71.40	864.29	400000.	7.89	50678.	1665.	11.79	0.0400	0.	66.	0.25
MILE 69.30	860.11	400000.	9.00	44422.	1613.	10.89	0.0340	0.	61.	0.30
MILE 67.20	857.95	400000.	5.89	67907.	4143.	10.46	0.0340	0.	67.	0.26
MILE 65.10	854.20	400000.	7.85	50940.	4867.	10.57	0.0320	0.	67.	0.43

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 439 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	63.00	852.67	400000.	4.93	81112.	3193.	8.79	0.0400	0.	72.	0.17
MILE	60.90	848.12	400000.	7.23	55296.	2862.	9.12	0.0450	0.	72.	0.29
MILE	58.80	840.07	400000.	8.26	48446.	2161.	8.68	0.0400	0.	67.	0.31
MILE	57.00	838.36	400000.	8.10	49375.	2280.	8.83	0.0200	0.	64.	0.31
MILE	55.00	835.82	400000.	9.52	42014.	2310.	8.80	0.0200	0.	62.	0.39
MILE	53.10	834.78	400000.	7.28	54912.	2749.	9.81	0.0200	0.	61.	0.29
MILE	51.00	833.39	400000.	7.66	52211.	3504.	9.83	0.0200	0.	64.	0.35
MILE	48.30	832.76	400000.	5.75	69558.	7165.	12.25	0.0200	0.	64.	0.33
MILE	46.20	832.08	400000.	6.44	62115.	6997.	11.97	0.0200	0.	70.	0.38
MILE	44.10	832.10	400000.	3.84	104119.	3292.	11.29	0.0300	0.	77.	0.12
MILE	43.70	830.57	400000.	10.07	39703.	3185.	13.83	0.0300	0.	78.	0.50
MILE	42.00	830.82	400000.	4.28	93413.	3144.	10.21	0.0300	0.	81.	0.14
MILE	39.10	828.68	400000.	7.48	53498.	3039.	13.13	0.0230	0.	78.	0.31
MILE	37.00	828.78	400000.	4.23	94617.	2120.	13.39	0.0280	0.	77.	0.11
MILE	36.00	827.82	400000.	7.64	52349.	1520.	13.63	0.0280	0.	79.	0.23
MILE	34.60	827.56	400000.	5.83	68605.	2206.	14.76	0.0280	0.	79.	0.18
MILE	33.60	827.86	400000.	2.50	159925.	4092.	14.18	0.0290	0.	85.	0.07
MILE	31.50	827.11	400000.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE	30.10	826.85	400000.	5.48	72936.	1303.	14.29	0.0200	0.	86.	0.13
MILE	29.00	826.69	400000.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE	27.30	826.47	400000.	5.53	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE	25.20	826.30	400000.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE	23.10	825.91	400000.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

ODATE 10-19-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 23.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE	79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69.	0.38
MILE	77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74.	0.28
MILE	75.60	877.43	400000.	10.64	37581.	2653.	10.55	0.0400	0.	71.	0.50
MILE	73.50	867.01	400000.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.53
MILE	71.40	864.29	400000.	7.89	50678.	1665.	11.79	0.0400	0.	66.	0.25
MILE	69.30	860.11	400000.	9.00	44422.	1613.	10.89	0.0340	0.	61.	0.30
MILE	67.20	857.95	400000.	5.89	67907.	4143.	10.46	0.0340	0.	67.	0.26
MILE	65.10	854.20	400000.	7.85	50940.	4867.	10.57	0.0320	0.	67.	0.43
MILE	63.00	852.67	400000.	4.93	81112.	3193.	8.79	0.0400	0.	72.	0.17
MILE	60.90	848.12	400000.	7.23	55296.	2862.	9.12	0.0450	0.	72.	0.29
MILE	58.80	840.07	400000.	8.26	48446.	2161.	8.68	0.0400	0.	67.	0.31
MILE	57.00	838.36	400000.	8.10	49375.	2280.	8.83	0.0200	0.	64.	0.31
MILE	55.00	835.82	400000.	9.52	42014.	2310.	8.80	0.0200	0.	62.	0.39
MILE	53.10	834.78	400000.	7.28	54912.	2749.	9.81	0.0200	0.	61.	0.29
MILE	51.00	833.39	400000.	7.66	52211.	3504.	9.83	0.0200	0.	64.	0.35
MILE	48.30	832.76	400000.	5.75	69558.	7165.	12.25	0.0200	0.	64.	0.33
MILE	46.20	832.08	400000.	6.44	62115.	6997.	11.97	0.0200	0.	70.	0.38
MILE	44.10	832.10	400000.	3.84	104119.	3292.	11.29	0.0300	0.	77.	0.12
MILE	43.70	830.57	400000.	10.07	39703.	3185.	13.83	0.0300	0.	78.	0.50

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 440 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	42.00	830.82	400000.	4.28	93413.	3144.	10.21	0.0300	0.	81.	0.14
MILE	39.10	828.68	400000.	7.48	53498.	3039.	13.13	0.0230	0.	78.	0.31
MILE	37.00	828.78	400000.	4.23	94617.	2120.	13.39	0.0280	0.	77.	0.11
MILE	36.00	827.82	400000.	7.64	52349.	1520.	13.63	0.0280	0.	79.	0.23
MILE	34.60	827.56	400000.	5.83	68605.	2206.	14.76	0.0280	0.	79.	0.18
MILE	33.60	827.86	400000.	2.50	159925.	4092.	14.18	0.0290	0.	85.	0.07
MILE	31.50	827.11	400000.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE	30.10	826.85	400000.	5.48	72936.	1303.	14.29	0.0200	0.	86.	0.13
MILE	29.00	826.69	400000.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE	27.30	826.47	400000.	5.53	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE	25.20	826.30	400000.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE	23.10	825.91	400000.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

0DATE 10-20-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL	
	0.0000	FROUDE									
	INFLOW	DEPTH									
MILE	79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69.	0.38
MILE	77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74.	0.28
MILE	75.60	877.43	400000.	10.64	37581.	2653.	10.55	0.0400	0.	71.	0.50
MILE	73.50	867.01	400000.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.53
MILE	71.40	864.29	400000.	7.89	50678.	1665.	11.79	0.0400	0.	66.	0.25
MILE	69.30	860.11	400000.	9.00	44422.	1613.	10.89	0.0340	0.	61.	0.30
MILE	67.20	857.95	400000.	5.89	67907.	4143.	10.46	0.0340	0.	67.	0.26
MILE	65.10	854.20	400000.	7.85	50940.	4867.	10.57	0.0320	0.	67.	0.43
MILE	63.00	852.67	400000.	4.93	81112.	3193.	8.79	0.0400	0.	72.	0.17
MILE	60.90	848.12	400000.	7.23	55296.	2862.	9.12	0.0450	0.	72.	0.29
MILE	58.80	840.07	400000.	8.26	48446.	2161.	8.68	0.0400	0.	67.	0.31
MILE	57.00	838.36	400000.	8.10	49375.	2280.	8.83	0.0200	0.	64.	0.31
MILE	55.00	835.82	400000.	9.52	42014.	2310.	8.80	0.0200	0.	62.	0.39
MILE	53.10	834.78	400000.	7.28	54912.	2749.	9.81	0.0200	0.	61.	0.29
MILE	51.00	833.39	400000.	7.66	52211.	3504.	9.83	0.0200	0.	64.	0.35
MILE	48.30	832.76	400000.	5.75	69558.	7165.	12.25	0.0200	0.	64.	0.33
MILE	46.20	832.08	400000.	6.44	62115.	6997.	11.97	0.0200	0.	70.	0.38
MILE	44.10	832.10	400000.	3.84	104119.	3292.	11.29	0.0300	0.	77.	0.12
MILE	43.70	830.57	400000.	10.07	39703.	3185.	13.83	0.0300	0.	78.	0.50
MILE	42.00	830.82	400000.	4.28	93413.	3144.	10.21	0.0300	0.	81.	0.14
MILE	39.10	828.68	400000.	7.48	53498.	3039.	13.13	0.0230	0.	78.	0.31
MILE	37.00	828.78	400000.	4.23	94617.	2120.	13.39	0.0280	0.	77.	0.11
MILE	36.00	827.82	400000.	7.64	52349.	1520.	13.63	0.0280	0.	79.	0.23
MILE	34.60	827.56	400000.	5.83	68605.	2206.	14.76	0.0280	0.	79.	0.18
MILE	33.60	827.86	400000.	2.50	159925.	4092.	14.18	0.0290	0.	85.	0.07
MILE	31.50	827.11	400000.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE	30.10	826.85	400000.	5.48	72936.	1303.	14.29	0.0200	0.	86.	0.13
MILE	29.00	826.69	400000.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE	27.30	826.47	400000.	5.53	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE	25.20	826.30	400000.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 441 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 23.10 825.91 400000. 5.44 73496. 1924. 15.79 0.0230 0. 96. 0.16

0DATE 10-20-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	1.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL
INFLOW	DEPTH	FROUDE								
MILE	79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69. 0.38
MILE	77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74. 0.28
MILE	75.60	877.43	400000.	10.64	37581.	2653.	10.55	0.0400	0.	71. 0.50
MILE	73.50	867.01	400000.	12.19	32806.	2026.	10.97	0.0330	0.	68. 0.53
MILE	71.40	864.29	400000.	7.89	50678.	1665.	11.79	0.0400	0.	66. 0.25
MILE	69.30	860.11	400000.	9.00	44422.	1613.	10.89	0.0340	0.	61. 0.30
MILE	67.20	857.95	400000.	5.89	67907.	4143.	10.46	0.0340	0.	67. 0.26
MILE	65.10	854.20	400000.	7.85	50940.	4867.	10.57	0.0320	0.	67. 0.43
MILE	63.00	852.67	400000.	4.93	81112.	3193.	8.79	0.0400	0.	72. 0.17
MILE	60.90	848.12	400000.	7.23	55296.	2862.	9.12	0.0450	0.	72. 0.29
MILE	58.80	840.07	400000.	8.26	48446.	2161.	8.68	0.0400	0.	67. 0.31
MILE	57.00	838.36	400000.	8.10	49375.	2280.	8.83	0.0200	0.	64. 0.31
MILE	55.00	835.82	400000.	9.52	42014.	2310.	8.80	0.0200	0.	62. 0.39
MILE	53.10	834.78	400000.	7.28	54912.	2749.	9.81	0.0200	0.	61. 0.29
MILE	51.00	833.39	400000.	7.66	52211.	3504.	9.83	0.0200	0.	64. 0.35
MILE	48.30	832.76	400000.	5.75	69558.	7165.	12.25	0.0200	0.	64. 0.33
MILE	46.20	832.08	400000.	6.44	62115.	6997.	11.97	0.0200	0.	70. 0.38
MILE	44.10	832.10	400000.	3.84	104119.	3292.	11.29	0.0300	0.	77. 0.12
MILE	43.70	830.57	400000.	10.07	39703.	3185.	13.83	0.0300	0.	78. 0.50
MILE	42.00	830.82	400000.	4.28	93413.	3144.	10.21	0.0300	0.	81. 0.14
MILE	39.10	828.68	400000.	7.48	53498.	3039.	13.13	0.0230	0.	78. 0.31
MILE	37.00	828.78	400000.	4.23	94617.	2120.	13.39	0.0280	0.	77. 0.11
MILE	36.00	827.82	400000.	7.64	52349.	1520.	13.63	0.0280	0.	79. 0.23
MILE	34.60	827.56	400000.	5.83	68605.	2206.	14.76	0.0280	0.	79. 0.18
MILE	33.60	827.86	400000.	2.50	159925.	4092.	14.18	0.0290	0.	85. 0.07
MILE	31.50	827.11	400000.	6.07	65911.	3184.	15.14	0.0250	0.	88. 0.24
MILE	30.10	826.85	400000.	5.48	72936.	1303.	14.29	0.0200	0.	86. 0.13
MILE	29.00	826.69	400000.	5.53	72333.	1829.	15.73	0.0200	0.	87. 0.15
MILE	27.30	826.47	400000.	5.53	72392.	1712.	16.08	0.0230	0.	89. 0.15
MILE	25.20	826.30	400000.	4.78	83697.	1671.	17.06	0.0230	0.	92. 0.12
MILE	23.10	825.91	400000.	5.44	73496.	1924.	15.79	0.0230	0.	96. 0.16

0DATE 10-20-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	2.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL
INFLOW	DEPTH	FROUDE								
MILE	79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69. 0.38

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 442 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74.	0.28
MILE 75.60	877.43	400000.	10.64	37581.	2653.	10.55	0.0400	0.	71.	0.50
MILE 73.50	867.01	400000.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.53
MILE 71.40	864.29	400000.	7.89	50678.	1665.	11.79	0.0400	0.	66.	0.25
MILE 69.30	860.11	400000.	9.00	44422.	1613.	10.89	0.0340	0.	61.	0.30
MILE 67.20	857.95	400000.	5.89	67907.	4143.	10.46	0.0340	0.	67.	0.26
MILE 65.10	854.20	400000.	7.85	50940.	4867.	10.57	0.0320	0.	67.	0.43
MILE 63.00	852.67	400000.	4.93	81112.	3193.	8.79	0.0400	0.	72.	0.17
MILE 60.90	848.12	400000.	7.23	55296.	2862.	9.12	0.0450	0.	72.	0.29
MILE 58.80	840.07	400000.	8.26	48446.	2161.	8.68	0.0400	0.	67.	0.31
MILE 57.00	838.36	400000.	8.10	49375.	2280.	8.83	0.0200	0.	64.	0.31
MILE 55.00	835.82	400000.	9.52	42014.	2310.	8.80	0.0200	0.	62.	0.39
MILE 53.10	834.78	400000.	7.28	54912.	2749.	9.81	0.0200	0.	61.	0.29
MILE 51.00	833.39	400000.	7.66	52211.	3504.	9.83	0.0200	0.	64.	0.35
MILE 48.30	832.76	400000.	5.75	69558.	7165.	12.25	0.0200	0.	64.	0.33
MILE 46.20	832.08	400000.	6.44	62115.	6997.	11.97	0.0200	0.	70.	0.38
MILE 44.10	832.10	400000.	3.84	104119.	3292.	11.29	0.0300	0.	77.	0.12
MILE 43.70	830.57	400000.	10.07	39703.	3185.	13.83	0.0300	0.	78.	0.50
MILE 42.00	830.82	400000.	4.28	93413.	3144.	10.21	0.0300	0.	81.	0.14
MILE 39.10	828.68	400000.	7.48	53498.	3039.	13.13	0.0230	0.	78.	0.31
MILE 37.00	828.78	400000.	4.23	94617.	2120.	13.39	0.0280	0.	77.	0.11
MILE 36.00	827.82	400000.	7.64	52349.	1520.	13.63	0.0280	0.	79.	0.23
MILE 34.60	827.56	400000.	5.83	68605.	2206.	14.76	0.0280	0.	79.	0.18
MILE 33.60	827.86	400000.	2.50	159925.	4092.	14.18	0.0290	0.	85.	0.07
MILE 31.50	827.11	400000.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE 30.10	826.85	400000.	5.48	72936.	1303.	14.29	0.0200	0.	86.	0.13
MILE 29.00	826.69	400000.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE 27.30	826.47	400000.	5.53	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE 25.20	826.30	400000.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE 23.10	825.91	400000.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

ODATE 10-20-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 3.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69.	0.38
MILE 77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74.	0.28
MILE 75.60	877.43	400000.	10.64	37581.	2653.	10.55	0.0400	0.	71.	0.50
MILE 73.50	867.01	400000.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.53
MILE 71.40	864.29	400000.	7.89	50678.	1665.	11.79	0.0400	0.	66.	0.25
MILE 69.30	860.11	400000.	9.00	44422.	1613.	10.89	0.0340	0.	61.	0.30
MILE 67.20	857.95	400000.	5.89	67907.	4143.	10.46	0.0340	0.	67.	0.26
MILE 65.10	854.20	400000.	7.85	50940.	4867.	10.57	0.0320	0.	67.	0.43
MILE 63.00	852.67	400000.	4.93	81112.	3193.	8.79	0.0400	0.	72.	0.17
MILE 60.90	848.12	400000.	7.23	55296.	2862.	9.12	0.0450	0.	72.	0.29
MILE 58.80	840.07	400000.	8.26	48446.	2161.	8.68	0.0400	0.	67.	0.31
MILE 57.00	838.36	400000.	8.10	49375.	2280.	8.83	0.0200	0.	64.	0.31

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 443 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	55.00	835.82	400000.	9.52	42014.	2310.	8.80	0.0200	0.	62.	0.39
MILE	53.10	834.78	400000.	7.28	54912.	2749.	9.81	0.0200	0.	61.	0.29
MILE	51.00	833.39	400000.	7.66	52211.	3504.	9.83	0.0200	0.	64.	0.35
MILE	48.30	832.76	400000.	5.75	69558.	7165.	12.25	0.0200	0.	64.	0.33
MILE	46.20	832.08	400000.	6.44	62115.	6997.	11.97	0.0200	0.	70.	0.38
MILE	44.10	832.10	400000.	3.84	104119.	3292.	11.29	0.0300	0.	77.	0.12
MILE	43.70	830.57	400000.	10.07	39703.	3185.	13.83	0.0300	0.	78.	0.50
MILE	42.00	830.82	400000.	4.28	93413.	3144.	10.21	0.0300	0.	81.	0.14
MILE	39.10	828.68	400000.	7.48	53498.	3039.	13.13	0.0230	0.	78.	0.31
MILE	37.00	828.78	400000.	4.23	94617.	2120.	13.39	0.0280	0.	77.	0.11
MILE	36.00	827.82	400000.	7.64	52349.	1520.	13.63	0.0280	0.	79.	0.23
MILE	34.60	827.56	400000.	5.83	68605.	2206.	14.76	0.0280	0.	79.	0.18
MILE	33.60	827.86	400000.	2.50	159925.	4092.	14.18	0.0290	0.	85.	0.07
MILE	31.50	827.11	400000.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE	30.10	826.85	400000.	5.48	72936.	1303.	14.29	0.0200	0.	86.	0.13
MILE	29.00	826.69	400000.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE	27.30	826.47	400000.	5.53	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE	25.20	826.30	400000.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE	23.10	825.91	400000.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

ODATE 10-20-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 4.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69.	0.38
MILE	77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74.	0.28
MILE	75.60	877.43	400000.	10.64	37581.	2653.	10.55	0.0400	0.	71.	0.50
MILE	73.50	867.01	400000.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.53
MILE	71.40	864.29	400000.	7.89	50678.	1665.	11.79	0.0400	0.	66.	0.25
MILE	69.30	860.11	400000.	9.00	44422.	1613.	10.89	0.0340	0.	61.	0.30
MILE	67.20	857.95	400000.	5.89	67907.	4143.	10.46	0.0340	0.	67.	0.26
MILE	65.10	854.20	400000.	7.85	50940.	4867.	10.57	0.0320	0.	67.	0.43
MILE	63.00	852.67	400000.	4.93	81112.	3193.	8.79	0.0400	0.	72.	0.17
MILE	60.90	848.12	400000.	7.23	55296.	2862.	9.12	0.0450	0.	72.	0.29
MILE	58.80	840.07	400000.	8.26	48446.	2161.	8.68	0.0400	0.	67.	0.31
MILE	57.00	838.36	400000.	8.10	49375.	2280.	8.83	0.0200	0.	64.	0.31
MILE	55.00	835.82	400000.	9.52	42014.	2310.	8.80	0.0200	0.	62.	0.39
MILE	53.10	834.78	400000.	7.28	54912.	2749.	9.81	0.0200	0.	61.	0.29
MILE	51.00	833.39	400000.	7.66	52211.	3504.	9.83	0.0200	0.	64.	0.35
MILE	48.30	832.76	400000.	5.75	69558.	7165.	12.25	0.0200	0.	64.	0.33
MILE	46.20	832.08	400000.	6.44	62115.	6997.	11.97	0.0200	0.	70.	0.38
MILE	44.10	832.10	400000.	3.84	104119.	3292.	11.29	0.0300	0.	77.	0.12
MILE	43.70	830.57	400000.	10.07	39703.	3185.	13.83	0.0300	0.	78.	0.50
MILE	42.00	830.82	400000.	4.28	93413.	3144.	10.21	0.0300	0.	81.	0.14
MILE	39.10	828.68	400000.	7.48	53498.	3039.	13.13	0.0230	0.	78.	0.31
MILE	37.00	828.78	400000.	4.23	94617.	2120.	13.39	0.0280	0.	77.	0.11
MILE	36.00	827.82	400000.	7.64	52349.	1520.	13.63	0.0280	0.	79.	0.23

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 444 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 34.60	827.56	400000.	5.83	68605.	2206.	14.76	0.0280	0.	79.	0.18
MILE 33.60	827.86	400000.	2.50	159925.	4092.	14.18	0.0290	0.	85.	0.07
MILE 31.50	827.11	400000.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE 30.10	826.85	400000.	5.48	72936.	1303.	14.29	0.0200	0.	86.	0.13
MILE 29.00	826.69	400000.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE 27.30	826.47	400000.	5.53	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE 25.20	826.30	400000.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE 23.10	825.91	400000.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

0DATE 10-20-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	5.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL
INFLOW	DEPTH	FROUDE								
MILE 79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69.	0.38
MILE 77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74.	0.28
MILE 75.60	877.43	400000.	10.64	37581.	2653.	10.55	0.0400	0.	71.	0.50
MILE 73.50	867.01	400000.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.53
MILE 71.40	864.29	400000.	7.89	50678.	1665.	11.79	0.0400	0.	66.	0.25
MILE 69.30	860.11	400000.	9.00	44422.	1613.	10.89	0.0340	0.	61.	0.30
MILE 67.20	857.95	400000.	5.89	67907.	4143.	10.46	0.0340	0.	67.	0.26
MILE 65.10	854.20	400000.	7.85	50940.	4867.	10.57	0.0320	0.	67.	0.43
MILE 63.00	852.67	400000.	4.93	81112.	3193.	8.79	0.0400	0.	72.	0.17
MILE 60.90	848.12	400000.	7.23	55296.	2862.	9.12	0.0450	0.	72.	0.29
MILE 58.80	840.07	400000.	8.26	48446.	2161.	8.68	0.0400	0.	67.	0.31
MILE 57.00	838.36	400000.	8.10	49375.	2280.	8.83	0.0200	0.	64.	0.31
MILE 55.00	835.82	400000.	9.52	42014.	2310.	8.80	0.0200	0.	62.	0.39
MILE 53.10	834.78	400000.	7.28	54912.	2749.	9.81	0.0200	0.	61.	0.29
MILE 51.00	833.39	400000.	7.66	52211.	3504.	9.83	0.0200	0.	64.	0.35
MILE 48.30	832.76	400000.	5.75	69558.	7165.	12.25	0.0200	0.	64.	0.33
MILE 46.20	832.08	400000.	6.44	62115.	6997.	11.97	0.0200	0.	70.	0.38
MILE 44.10	832.10	400000.	3.84	104119.	3292.	11.29	0.0300	0.	77.	0.12
MILE 43.70	830.57	400000.	10.07	39703.	3185.	13.83	0.0300	0.	78.	0.50
MILE 42.00	830.82	400000.	4.28	93413.	3144.	10.21	0.0300	0.	81.	0.14
MILE 39.10	828.68	400000.	7.48	53498.	3039.	13.13	0.0230	0.	78.	0.31
MILE 37.00	828.78	400000.	4.23	94617.	2120.	13.39	0.0280	0.	77.	0.11
MILE 36.00	827.82	400000.	7.64	52349.	1520.	13.63	0.0280	0.	79.	0.23
MILE 34.60	827.56	400000.	5.83	68605.	2206.	14.76	0.0280	0.	79.	0.18
MILE 33.60	827.86	400000.	2.50	159925.	4092.	14.18	0.0290	0.	85.	0.07
MILE 31.50	827.11	400000.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE 30.10	826.85	400000.	5.48	72936.	1303.	14.29	0.0200	0.	86.	0.13
MILE 29.00	826.69	400000.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE 27.30	826.47	400000.	5.53	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE 25.20	826.30	400000.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE 23.10	825.91	400000.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 445 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

0DATE 10-20-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 6.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
	INFLOW DEPTH	FROUDE									
MILE	79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69.	0.38
MILE	77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74.	0.28
MILE	75.60	877.43	400000.	10.64	37581.	2653.	10.55	0.0400	0.	71.	0.50
MILE	73.50	867.01	400000.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.53
MILE	71.40	864.29	400000.	7.89	50678.	1665.	11.79	0.0400	0.	66.	0.25
MILE	69.30	860.11	400000.	9.00	44422.	1613.	10.89	0.0340	0.	61.	0.30
MILE	67.20	857.95	400000.	5.89	67907.	4143.	10.46	0.0340	0.	67.	0.26
MILE	65.10	854.20	400000.	7.85	50940.	4867.	10.57	0.0320	0.	67.	0.43
MILE	63.00	852.67	400000.	4.93	81112.	3193.	8.79	0.0400	0.	72.	0.17
MILE	60.90	848.12	400000.	7.23	55296.	2862.	9.12	0.0450	0.	72.	0.29
MILE	58.80	840.07	400000.	8.26	48446.	2161.	8.68	0.0400	0.	67.	0.31
MILE	57.00	838.36	400000.	8.10	49375.	2280.	8.83	0.0200	0.	64.	0.31
MILE	55.00	835.82	400000.	9.52	42014.	2310.	8.80	0.0200	0.	62.	0.39
MILE	53.10	834.78	400000.	7.28	54912.	2749.	9.81	0.0200	0.	61.	0.29
MILE	51.00	833.39	400000.	7.66	52211.	3504.	9.83	0.0200	0.	64.	0.35
MILE	48.30	832.76	400000.	5.75	69558.	7165.	12.25	0.0200	0.	64.	0.33
MILE	46.20	832.08	400000.	6.44	62115.	6997.	11.97	0.0200	0.	70.	0.38
MILE	44.10	832.10	400000.	3.84	104119.	3292.	11.29	0.0300	0.	77.	0.12
MILE	43.70	830.57	400000.	10.07	39703.	3185.	13.83	0.0300	0.	78.	0.50
MILE	42.00	830.82	400000.	4.28	93413.	3144.	10.21	0.0300	0.	81.	0.14
MILE	39.10	828.68	400000.	7.48	53498.	3039.	13.13	0.0230	0.	78.	0.31
MILE	37.00	828.78	400000.	4.23	94617.	2120.	13.39	0.0280	0.	77.	0.11
MILE	36.00	827.82	400000.	7.64	52349.	1520.	13.63	0.0280	0.	79.	0.23
MILE	34.60	827.56	400000.	5.83	68605.	2206.	14.76	0.0280	0.	79.	0.18
MILE	33.60	827.86	400000.	2.50	159925.	4092.	14.18	0.0290	0.	85.	0.07
MILE	31.50	827.11	400000.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE	30.10	826.85	400000.	5.48	72936.	1303.	14.29	0.0200	0.	86.	0.13
MILE	29.00	826.69	400000.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE	27.30	826.47	400000.	5.53	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE	25.20	826.30	400000.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE	23.10	825.91	400000.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

0DATE 10-20-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 7.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
	INFLOW DEPTH	FROUDE									
MILE	79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69.	0.38
MILE	77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74.	0.28
MILE	75.60	877.43	400000.	10.64	37581.	2653.	10.55	0.0400	0.	71.	0.50
MILE	73.50	867.01	400000.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.53
MILE	71.40	864.29	400000.	7.89	50678.	1665.	11.79	0.0400	0.	66.	0.25

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 446 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	69.30	860.11	400000.	9.00	44422.	1613.	10.89	0.0340	0.	61.	0.30
MILE	67.20	857.95	400000.	5.89	67907.	4143.	10.46	0.0340	0.	67.	0.26
MILE	65.10	854.20	400000.	7.85	50940.	4867.	10.57	0.0320	0.	67.	0.43
MILE	63.00	852.67	400000.	4.93	81112.	3193.	8.79	0.0400	0.	72.	0.17
MILE	60.90	848.12	400000.	7.23	55296.	2862.	9.12	0.0450	0.	72.	0.29
MILE	58.80	840.07	400000.	8.26	48446.	2161.	8.68	0.0400	0.	67.	0.31
MILE	57.00	838.36	400000.	8.10	49375.	2280.	8.83	0.0200	0.	64.	0.31
MILE	55.00	835.82	400000.	9.52	42014.	2310.	8.80	0.0200	0.	62.	0.39
MILE	53.10	834.78	400000.	7.28	54912.	2749.	9.81	0.0200	0.	61.	0.29
MILE	51.00	833.39	400000.	7.66	52211.	3504.	9.83	0.0200	0.	64.	0.35
MILE	48.30	832.76	400000.	5.75	69558.	7165.	12.25	0.0200	0.	64.	0.33
MILE	46.20	832.08	400000.	6.44	62115.	6997.	11.97	0.0200	0.	70.	0.38
MILE	44.10	832.10	400000.	3.84	104119.	3292.	11.29	0.0300	0.	77.	0.12
MILE	43.70	830.57	400000.	10.07	39703.	3185.	13.83	0.0300	0.	78.	0.50
MILE	42.00	830.82	400000.	4.28	93413.	3144.	10.21	0.0300	0.	81.	0.14
MILE	39.10	828.68	400000.	7.48	53498.	3039.	13.13	0.0230	0.	78.	0.31
MILE	37.00	828.78	400000.	4.23	94617.	2120.	13.39	0.0280	0.	77.	0.11
MILE	36.00	827.82	400000.	7.64	52349.	1520.	13.63	0.0280	0.	79.	0.23
MILE	34.60	827.56	400000.	5.83	68605.	2206.	14.76	0.0280	0.	79.	0.18
MILE	33.60	827.86	400000.	2.50	159925.	4092.	14.18	0.0290	0.	85.	0.07
MILE	31.50	827.11	400000.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE	30.10	826.85	400000.	5.48	72936.	1303.	14.29	0.0200	0.	86.	0.13
MILE	29.00	826.69	400000.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE	27.30	826.47	400000.	5.53	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE	25.20	826.30	400000.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE	23.10	825.91	400000.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

0DATE 10-20-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 8.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69.	0.38
MILE	77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74.	0.28
MILE	75.60	877.43	400000.	10.64	37581.	2653.	10.55	0.0400	0.	71.	0.50
MILE	73.50	867.01	400000.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.53
MILE	71.40	864.29	400000.	7.89	50678.	1665.	11.79	0.0400	0.	66.	0.25
MILE	69.30	860.11	400000.	9.00	44422.	1613.	10.89	0.0340	0.	61.	0.30
MILE	67.20	857.95	400000.	5.89	67907.	4143.	10.46	0.0340	0.	67.	0.26
MILE	65.10	854.20	400000.	7.85	50940.	4867.	10.57	0.0320	0.	67.	0.43
MILE	63.00	852.67	400000.	4.93	81112.	3193.	8.79	0.0400	0.	72.	0.17
MILE	60.90	848.12	400000.	7.23	55296.	2862.	9.12	0.0450	0.	72.	0.29
MILE	58.80	840.07	400000.	8.26	48446.	2161.	8.68	0.0400	0.	67.	0.31
MILE	57.00	838.36	400000.	8.10	49375.	2280.	8.83	0.0200	0.	64.	0.31
MILE	55.00	835.82	400000.	9.52	42014.	2310.	8.80	0.0200	0.	62.	0.39
MILE	53.10	834.78	400000.	7.28	54912.	2749.	9.81	0.0200	0.	61.	0.29
MILE	51.00	833.39	400000.	7.66	52211.	3504.	9.83	0.0200	0.	64.	0.35
MILE	48.30	832.76	400000.	5.75	69558.	7165.	12.25	0.0200	0.	64.	0.33

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 447 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 46.20	832.08	400000.	6.44	62115.	6997.	11.97	0.0200	0.	70.	0.38
MILE 44.10	832.10	400000.	3.84	104119.	3292.	11.29	0.0300	0.	77.	0.12
MILE 43.70	830.57	400000.	10.07	39703.	3185.	13.83	0.0300	0.	78.	0.50
MILE 42.00	830.82	400000.	4.28	93413.	3144.	10.21	0.0300	0.	81.	0.14
MILE 39.10	828.68	400000.	7.48	53498.	3039.	13.13	0.0230	0.	78.	0.31
MILE 37.00	828.78	400000.	4.23	94617.	2120.	13.39	0.0280	0.	77.	0.11
MILE 36.00	827.82	400000.	7.64	52349.	1520.	13.63	0.0280	0.	79.	0.23
MILE 34.60	827.56	400000.	5.83	68605.	2206.	14.76	0.0280	0.	79.	0.18
MILE 33.60	827.86	400000.	2.50	159925.	4092.	14.18	0.0290	0.	85.	0.07
MILE 31.50	827.11	400000.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE 30.10	826.85	400000.	5.48	72936.	1303.	14.29	0.0200	0.	86.	0.13
MILE 29.00	826.69	400000.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE 27.30	826.47	400000.	5.53	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE 25.20	826.30	400000.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE 23.10	825.91	400000.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

ODATE 10-20-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 9.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
INFLOW DEPTH	FROUDE									
MILE 79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69.	0.38
MILE 77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74.	0.28
MILE 75.60	877.43	400000.	10.64	37581.	2653.	10.55	0.0400	0.	71.	0.50
MILE 73.50	867.01	400000.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.53
MILE 71.40	864.29	400000.	7.89	50678.	1665.	11.79	0.0400	0.	66.	0.25
MILE 69.30	860.11	400000.	9.00	44422.	1613.	10.89	0.0340	0.	61.	0.30
MILE 67.20	857.95	400000.	5.89	67907.	4143.	10.46	0.0340	0.	67.	0.26
MILE 65.10	854.20	400000.	7.85	50940.	4867.	10.57	0.0320	0.	67.	0.43
MILE 63.00	852.67	400000.	4.93	81112.	3193.	8.79	0.0400	0.	72.	0.17
MILE 60.90	848.12	400000.	7.23	55296.	2862.	9.12	0.0450	0.	72.	0.29
MILE 58.80	840.07	400000.	8.26	48446.	2161.	8.68	0.0400	0.	67.	0.31
MILE 57.00	838.36	400000.	8.10	49375.	2280.	8.83	0.0200	0.	64.	0.31
MILE 55.00	835.82	400000.	9.52	42014.	2310.	8.80	0.0200	0.	62.	0.39
MILE 53.10	834.78	400000.	7.28	54912.	2749.	9.81	0.0200	0.	61.	0.29
MILE 51.00	833.39	400000.	7.66	52211.	3504.	9.83	0.0200	0.	64.	0.35
MILE 48.30	832.76	400000.	5.75	69558.	7165.	12.25	0.0200	0.	64.	0.33
MILE 46.20	832.08	400000.	6.44	62115.	6997.	11.97	0.0200	0.	70.	0.38
MILE 44.10	832.10	400000.	3.84	104119.	3292.	11.29	0.0300	0.	77.	0.12
MILE 43.70	830.57	400000.	10.07	39703.	3185.	13.83	0.0300	0.	78.	0.50
MILE 42.00	830.82	400000.	4.28	93413.	3144.	10.21	0.0300	0.	81.	0.14
MILE 39.10	828.68	400000.	7.48	53498.	3039.	13.13	0.0230	0.	78.	0.31
MILE 37.00	828.78	400000.	4.23	94617.	2120.	13.39	0.0280	0.	77.	0.11
MILE 36.00	827.82	400000.	7.64	52349.	1520.	13.63	0.0280	0.	79.	0.23
MILE 34.60	827.56	400000.	5.83	68605.	2206.	14.76	0.0280	0.	79.	0.18
MILE 33.60	827.86	400000.	2.50	159925.	4092.	14.18	0.0290	0.	85.	0.07
MILE 31.50	827.11	400000.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE 30.10	826.85	400000.	5.48	72936.	1303.	14.29	0.0200	0.	86.	0.13

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 448 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	29.00	826.69	400000.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE	27.30	826.47	400000.	5.53	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE	25.20	826.30	400000.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE	23.10	825.91	400000.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

ODATE 10-20-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 10.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE	79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69.	0.38
MILE	77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74.	0.28
MILE	75.60	877.43	400000.	10.64	37581.	2653.	10.55	0.0400	0.	71.	0.50
MILE	73.50	867.01	400000.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.53
MILE	71.40	864.29	400000.	7.89	50678.	1665.	11.79	0.0400	0.	66.	0.25
MILE	69.30	860.11	400000.	9.00	44422.	1613.	10.89	0.0340	0.	61.	0.30
MILE	67.20	857.95	400000.	5.89	67907.	4143.	10.46	0.0340	0.	67.	0.26
MILE	65.10	854.20	400000.	7.85	50940.	4867.	10.57	0.0320	0.	67.	0.43
MILE	63.00	852.67	400000.	4.93	81112.	3193.	8.79	0.0400	0.	72.	0.17
MILE	60.90	848.12	400000.	7.23	55296.	2862.	9.12	0.0450	0.	72.	0.29
MILE	58.80	840.07	400000.	8.26	48446.	2161.	8.68	0.0400	0.	67.	0.31
MILE	57.00	838.36	400000.	8.10	49375.	2280.	8.83	0.0200	0.	64.	0.31
MILE	55.00	835.82	400000.	9.52	42014.	2310.	8.80	0.0200	0.	62.	0.39
MILE	53.10	834.78	400000.	7.28	54912.	2749.	9.81	0.0200	0.	61.	0.29
MILE	51.00	833.39	400000.	7.66	52211.	3504.	9.83	0.0200	0.	64.	0.35
MILE	48.30	832.76	400000.	5.75	69558.	7165.	12.25	0.0200	0.	64.	0.33
MILE	46.20	832.08	400000.	6.44	62115.	6997.	11.97	0.0200	0.	70.	0.38
MILE	44.10	832.10	400000.	3.84	104119.	3292.	11.29	0.0300	0.	77.	0.12
MILE	43.70	830.57	400000.	10.07	39703.	3185.	13.83	0.0300	0.	78.	0.50
MILE	42.00	830.82	400000.	4.28	93413.	3144.	10.21	0.0300	0.	81.	0.14
MILE	39.10	828.68	400000.	7.48	53498.	3039.	13.13	0.0230	0.	78.	0.31
MILE	37.00	828.78	400000.	4.23	94617.	2120.	13.39	0.0280	0.	77.	0.11
MILE	36.00	827.82	400000.	7.64	52349.	1520.	13.63	0.0280	0.	79.	0.23
MILE	34.60	827.56	400000.	5.83	68605.	2206.	14.76	0.0280	0.	79.	0.18
MILE	33.60	827.86	400000.	2.50	159925.	4092.	14.18	0.0290	0.	85.	0.07
MILE	31.50	827.11	400000.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE	30.10	826.85	400000.	5.48	72936.	1303.	14.29	0.0200	0.	86.	0.13
MILE	29.00	826.69	400000.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE	27.30	826.47	400000.	5.53	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE	25.20	826.30	400000.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE	23.10	825.91	400000.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

ODATE 10-20-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 449 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

	TIME 11.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL
	INFLOW DEPTH	FROUDE							
MILE	79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0. 69. 0.38
MILE	77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0. 74. 0.28
MILE	75.60	877.43	400000.	10.64	37581.	2653.	10.55	0.0400	0. 71. 0.50
MILE	73.50	867.01	400000.	12.19	32806.	2026.	10.97	0.0330	0. 68. 0.53
MILE	71.40	864.29	400000.	7.89	50678.	1665.	11.79	0.0400	0. 66. 0.25
MILE	69.30	860.11	400000.	9.00	44422.	1613.	10.89	0.0340	0. 61. 0.30
MILE	67.20	857.95	400000.	5.89	67907.	4143.	10.46	0.0340	0. 67. 0.26
MILE	65.10	854.20	400000.	7.85	50940.	4867.	10.57	0.0320	0. 67. 0.43
MILE	63.00	852.67	400000.	4.93	81112.	3193.	8.79	0.0400	0. 72. 0.17
MILE	60.90	848.12	400000.	7.23	55296.	2862.	9.12	0.0450	0. 72. 0.29
MILE	58.80	840.07	400000.	8.26	48446.	2161.	8.68	0.0400	0. 67. 0.31
MILE	57.00	838.36	400000.	8.10	49375.	2280.	8.83	0.0200	0. 64. 0.31
MILE	55.00	835.82	400000.	9.52	42014.	2310.	8.80	0.0200	0. 62. 0.39
MILE	53.10	834.78	400000.	7.28	54912.	2749.	9.81	0.0200	0. 61. 0.29
MILE	51.00	833.39	400000.	7.66	52211.	3504.	9.83	0.0200	0. 64. 0.35
MILE	48.30	832.76	400000.	5.75	69558.	7165.	12.25	0.0200	0. 64. 0.33
MILE	46.20	832.08	400000.	6.44	62115.	6997.	11.97	0.0200	0. 70. 0.38
MILE	44.10	832.10	400000.	3.84	104119.	3292.	11.29	0.0300	0. 77. 0.12
MILE	43.70	830.57	400000.	10.07	39703.	3185.	13.83	0.0300	0. 78. 0.50
MILE	42.00	830.82	400000.	4.28	93413.	3144.	10.21	0.0300	0. 81. 0.14
MILE	39.10	828.68	400000.	7.48	53498.	3039.	13.13	0.0230	0. 78. 0.31
MILE	37.00	828.78	400000.	4.23	94617.	2120.	13.39	0.0280	0. 77. 0.11
MILE	36.00	827.82	400000.	7.64	52349.	1520.	13.63	0.0280	0. 79. 0.23
MILE	34.60	827.56	400000.	5.83	68605.	2206.	14.76	0.0280	0. 79. 0.18
MILE	33.60	827.86	400000.	2.50	159925.	4092.	14.18	0.0290	0. 85. 0.07
MILE	31.50	827.11	400000.	6.07	65911.	3184.	15.14	0.0250	0. 88. 0.24
MILE	30.10	826.85	400000.	5.48	72936.	1303.	14.29	0.0200	0. 86. 0.13
MILE	29.00	826.69	400000.	5.53	72333.	1829.	15.73	0.0200	0. 87. 0.15
MILE	27.30	826.47	400000.	5.53	72392.	1712.	16.08	0.0230	0. 89. 0.15
MILE	25.20	826.30	400000.	4.78	83697.	1671.	17.06	0.0230	0. 92. 0.12
MILE	23.10	825.91	400000.	5.44	73496.	1924.	15.79	0.0230	0. 96. 0.16

0DATE 10-20-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 12.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL
	INFLOW DEPTH	FROUDE							
MILE	79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0. 69. 0.38
MILE	77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0. 74. 0.28
MILE	75.60	877.43	400000.	10.64	37581.	2653.	10.55	0.0400	0. 71. 0.50
MILE	73.50	867.01	400000.	12.19	32806.	2026.	10.97	0.0330	0. 68. 0.53
MILE	71.40	864.29	400000.	7.89	50678.	1665.	11.79	0.0400	0. 66. 0.25
MILE	69.30	860.11	400000.	9.00	44422.	1613.	10.89	0.0340	0. 61. 0.30
MILE	67.20	857.95	400000.	5.89	67907.	4143.	10.46	0.0340	0. 67. 0.26
MILE	65.10	854.20	400000.	7.85	50940.	4867.	10.57	0.0320	0. 67. 0.43

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 450 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 63.00	852.67	400000.	4.93	81112.	3193.	8.79	0.0400	0.	72.	0.17
MILE 60.90	848.12	400000.	7.23	55296.	2862.	9.12	0.0450	0.	72.	0.29
MILE 58.80	840.07	400000.	8.26	48446.	2161.	8.68	0.0400	0.	67.	0.31
MILE 57.00	838.36	400000.	8.10	49375.	2280.	8.83	0.0200	0.	64.	0.31
MILE 55.00	835.82	400000.	9.52	42014.	2310.	8.80	0.0200	0.	62.	0.39
MILE 53.10	834.78	400000.	7.28	54912.	2749.	9.81	0.0200	0.	61.	0.29
MILE 51.00	833.39	400000.	7.66	52211.	3504.	9.83	0.0200	0.	64.	0.35
MILE 48.30	832.76	400000.	5.75	69558.	7165.	12.25	0.0200	0.	64.	0.33
MILE 46.20	832.08	400000.	6.44	62115.	6997.	11.97	0.0200	0.	70.	0.38
MILE 44.10	832.10	400000.	3.84	104119.	3292.	11.29	0.0300	0.	77.	0.12
MILE 43.70	830.57	400000.	10.07	39703.	3185.	13.83	0.0300	0.	78.	0.50
MILE 42.00	830.82	400000.	4.28	93413.	3144.	10.21	0.0300	0.	81.	0.14
MILE 39.10	828.68	400000.	7.48	53498.	3039.	13.13	0.0230	0.	78.	0.31
MILE 37.00	828.78	400000.	4.23	94617.	2120.	13.39	0.0280	0.	77.	0.11
MILE 36.00	827.82	400000.	7.64	52349.	1520.	13.63	0.0280	0.	79.	0.23
MILE 34.60	827.56	400000.	5.83	68605.	2206.	14.76	0.0280	0.	79.	0.18
MILE 33.60	827.86	400000.	2.50	159925.	4092.	14.18	0.0290	0.	85.	0.07
MILE 31.50	827.11	400000.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE 30.10	826.85	400000.	5.48	72936.	1303.	14.29	0.0200	0.	86.	0.13
MILE 29.00	826.69	400000.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE 27.30	826.47	400000.	5.53	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE 25.20	826.30	400000.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE 23.10	825.91	400000.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

ODATE 10-20-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 13.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69.	0.38
MILE 77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74.	0.28
MILE 75.60	877.43	400000.	10.64	37581.	2653.	10.55	0.0400	0.	71.	0.50
MILE 73.50	867.01	400000.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.53
MILE 71.40	864.29	400000.	7.89	50678.	1665.	11.79	0.0400	0.	66.	0.25
MILE 69.30	860.11	400000.	9.00	44422.	1613.	10.89	0.0340	0.	61.	0.30
MILE 67.20	857.95	400000.	5.89	67907.	4143.	10.46	0.0340	0.	67.	0.26
MILE 65.10	854.20	400000.	7.85	50940.	4867.	10.57	0.0320	0.	67.	0.43
MILE 63.00	852.67	400000.	4.93	81112.	3193.	8.79	0.0400	0.	72.	0.17
MILE 60.90	848.12	400000.	7.23	55296.	2862.	9.12	0.0450	0.	72.	0.29
MILE 58.80	840.07	400000.	8.26	48446.	2161.	8.68	0.0400	0.	67.	0.31
MILE 57.00	838.36	400000.	8.10	49375.	2280.	8.83	0.0200	0.	64.	0.31
MILE 55.00	835.82	400000.	9.52	42014.	2310.	8.80	0.0200	0.	62.	0.39
MILE 53.10	834.78	400000.	7.28	54912.	2749.	9.81	0.0200	0.	61.	0.29
MILE 51.00	833.39	400000.	7.66	52211.	3504.	9.83	0.0200	0.	64.	0.35
MILE 48.30	832.76	400000.	5.75	69558.	7165.	12.25	0.0200	0.	64.	0.33
MILE 46.20	832.08	400000.	6.44	62115.	6997.	11.97	0.0200	0.	70.	0.38
MILE 44.10	832.10	400000.	3.84	104119.	3292.	11.29	0.0300	0.	77.	0.12
MILE 43.70	830.57	400000.	10.07	39703.	3185.	13.83	0.0300	0.	78.	0.50

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 451 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	42.00	830.82	400000.	4.28	93413.	3144.	10.21	0.0300	0.	81.	0.14
MILE	39.10	828.68	400000.	7.48	53498.	3039.	13.13	0.0230	0.	78.	0.31
MILE	37.00	828.78	400000.	4.23	94617.	2120.	13.39	0.0280	0.	77.	0.11
MILE	36.00	827.82	400000.	7.64	52349.	1520.	13.63	0.0280	0.	79.	0.23
MILE	34.60	827.56	400000.	5.83	68605.	2206.	14.76	0.0280	0.	79.	0.18
MILE	33.60	827.86	400000.	2.50	159925.	4092.	14.18	0.0290	0.	85.	0.07
MILE	31.50	827.11	400000.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE	30.10	826.85	400000.	5.48	72936.	1303.	14.29	0.0200	0.	86.	0.13
MILE	29.00	826.69	400000.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE	27.30	826.47	400000.	5.53	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE	25.20	826.30	400000.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE	23.10	825.91	400000.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

0DATE 10-20-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 14.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE	79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69.	0.38
MILE	77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74.	0.28
MILE	75.60	877.43	400000.	10.64	37581.	2653.	10.55	0.0400	0.	71.	0.50
MILE	73.50	867.01	400000.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.53
MILE	71.40	864.29	400000.	7.89	50678.	1665.	11.79	0.0400	0.	66.	0.25
MILE	69.30	860.11	400000.	9.00	44422.	1613.	10.89	0.0340	0.	61.	0.30
MILE	67.20	857.95	400000.	5.89	67907.	4143.	10.46	0.0340	0.	67.	0.26
MILE	65.10	854.20	400000.	7.85	50940.	4867.	10.57	0.0320	0.	67.	0.43
MILE	63.00	852.67	400000.	4.93	81112.	3193.	8.79	0.0400	0.	72.	0.17
MILE	60.90	848.12	400000.	7.23	55296.	2862.	9.12	0.0450	0.	72.	0.29
MILE	58.80	840.07	400000.	8.26	48446.	2161.	8.68	0.0400	0.	67.	0.31
MILE	57.00	838.36	400000.	8.10	49375.	2280.	8.83	0.0200	0.	64.	0.31
MILE	55.00	835.82	400000.	9.52	42014.	2310.	8.80	0.0200	0.	62.	0.39
MILE	53.10	834.78	400000.	7.28	54912.	2749.	9.81	0.0200	0.	61.	0.29
MILE	51.00	833.39	400000.	7.66	52211.	3504.	9.83	0.0200	0.	64.	0.35
MILE	48.30	832.76	400000.	5.75	69558.	7165.	12.25	0.0200	0.	64.	0.33
MILE	46.20	832.08	400000.	6.44	62115.	6997.	11.97	0.0200	0.	70.	0.38
MILE	44.10	832.10	400000.	3.84	104119.	3292.	11.29	0.0300	0.	77.	0.12
MILE	43.70	830.57	400000.	10.07	39703.	3185.	13.83	0.0300	0.	78.	0.50
MILE	42.00	830.82	400000.	4.28	93413.	3144.	10.21	0.0300	0.	81.	0.14
MILE	39.10	828.68	400000.	7.48	53498.	3039.	13.13	0.0230	0.	78.	0.31
MILE	37.00	828.78	400000.	4.23	94617.	2120.	13.39	0.0280	0.	77.	0.11
MILE	36.00	827.82	400000.	7.64	52349.	1520.	13.63	0.0280	0.	79.	0.23
MILE	34.60	827.56	400000.	5.83	68605.	2206.	14.76	0.0280	0.	79.	0.18
MILE	33.60	827.86	400000.	2.50	159925.	4092.	14.18	0.0290	0.	85.	0.07
MILE	31.50	827.11	400000.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE	30.10	826.85	400000.	5.48	72936.	1303.	14.29	0.0200	0.	86.	0.13
MILE	29.00	826.69	400000.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE	27.30	826.47	400000.	5.53	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE	25.20	826.30	400000.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 452 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 23.10 825.91 400000. 5.44 73496. 1924. 15.79 0.0230 0. 96. 0.16

0DATE 10-20-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 15.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80 887.48 400000. 12.11 33038. 1031. 10.44 0.0290 0. 69. 0.38
MILE 77.70 885.11 400000. 9.40 42556. 1260. 11.44 0.0400 0. 74. 0.28
MILE 75.60 877.43 400000. 10.64 37581. 2653. 10.55 0.0400 0. 71. 0.50
MILE 73.50 867.01 400000. 12.19 32806. 2026. 10.97 0.0330 0. 68. 0.53
MILE 71.40 864.29 400000. 7.89 50678. 1665. 11.79 0.0400 0. 66. 0.25
MILE 69.30 860.11 400000. 9.00 44422. 1613. 10.89 0.0340 0. 61. 0.30
MILE 67.20 857.95 400000. 5.89 67907. 4143. 10.46 0.0340 0. 67. 0.26
MILE 65.10 854.20 400000. 7.85 50940. 4867. 10.57 0.0320 0. 67. 0.43
MILE 63.00 852.67 400000. 4.93 81112. 3193. 8.79 0.0400 0. 72. 0.17
MILE 60.90 848.12 400000. 7.23 55296. 2862. 9.12 0.0450 0. 72. 0.29
MILE 58.80 840.07 400000. 8.26 48446. 2161. 8.68 0.0400 0. 67. 0.31
MILE 57.00 838.36 400000. 8.10 49375. 2280. 8.83 0.0200 0. 64. 0.31
MILE 55.00 835.82 400000. 9.52 42014. 2310. 8.80 0.0200 0. 62. 0.39
MILE 53.10 834.78 400000. 7.28 54912. 2749. 9.81 0.0200 0. 61. 0.29
MILE 51.00 833.39 400000. 7.66 52211. 3504. 9.83 0.0200 0. 64. 0.35
MILE 48.30 832.76 400000. 5.75 69558. 7165. 12.25 0.0200 0. 64. 0.33
MILE 46.20 832.08 400000. 6.44 62115. 6997. 11.97 0.0200 0. 70. 0.38
MILE 44.10 832.10 400000. 3.84 104119. 3292. 11.29 0.0300 0. 77. 0.12
MILE 43.70 830.57 400000. 10.07 39703. 3185. 13.83 0.0300 0. 78. 0.50
MILE 42.00 830.82 400000. 4.28 93413. 3144. 10.21 0.0300 0. 81. 0.14
MILE 39.10 828.68 400000. 7.48 53498. 3039. 13.13 0.0230 0. 78. 0.31
MILE 37.00 828.78 400000. 4.23 94617. 2120. 13.39 0.0280 0. 77. 0.11
MILE 36.00 827.82 400000. 7.64 52349. 1520. 13.63 0.0280 0. 79. 0.23
MILE 34.60 827.56 400000. 5.83 68605. 2206. 14.76 0.0280 0. 79. 0.18
MILE 33.60 827.86 400000. 2.50 159925. 4092. 14.18 0.0290 0. 85. 0.07
MILE 31.50 827.11 400000. 6.07 65911. 3184. 15.14 0.0250 0. 88. 0.24
MILE 30.10 826.85 400000. 5.48 72936. 1303. 14.29 0.0200 0. 86. 0.13
MILE 29.00 826.69 400000. 5.53 72333. 1829. 15.73 0.0200 0. 87. 0.15
MILE 27.30 826.47 400000. 5.53 72392. 1712. 16.08 0.0230 0. 89. 0.15
MILE 25.20 826.30 400000. 4.78 83697. 1671. 17.06 0.0230 0. 92. 0.12
MILE 23.10 825.91 400000. 5.44 73496. 1924. 15.79 0.0230 0. 96. 0.16

0DATE 10-20-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 16.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80 887.48 400000. 12.11 33038. 1031. 10.44 0.0290 0. 69. 0.38

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 453 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74.	0.28
MILE 75.60	877.43	400000.	10.64	37581.	2653.	10.55	0.0400	0.	71.	0.50
MILE 73.50	867.01	400000.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.53
MILE 71.40	864.29	400000.	7.89	50678.	1665.	11.79	0.0400	0.	66.	0.25
MILE 69.30	860.11	400000.	9.00	44422.	1613.	10.89	0.0340	0.	61.	0.30
MILE 67.20	857.95	400000.	5.89	67907.	4143.	10.46	0.0340	0.	67.	0.26
MILE 65.10	854.20	400000.	7.85	50940.	4867.	10.57	0.0320	0.	67.	0.43
MILE 63.00	852.67	400000.	4.93	81112.	3193.	8.79	0.0400	0.	72.	0.17
MILE 60.90	848.12	400000.	7.23	55296.	2862.	9.12	0.0450	0.	72.	0.29
MILE 58.80	840.07	400000.	8.26	48446.	2161.	8.68	0.0400	0.	67.	0.31
MILE 57.00	838.36	400000.	8.10	49375.	2280.	8.83	0.0200	0.	64.	0.31
MILE 55.00	835.82	400000.	9.52	42014.	2310.	8.80	0.0200	0.	62.	0.39
MILE 53.10	834.78	400000.	7.28	54912.	2749.	9.81	0.0200	0.	61.	0.29
MILE 51.00	833.39	400000.	7.66	52211.	3504.	9.83	0.0200	0.	64.	0.35
MILE 48.30	832.76	400000.	5.75	69558.	7165.	12.25	0.0200	0.	64.	0.33
MILE 46.20	832.08	400000.	6.44	62115.	6997.	11.97	0.0200	0.	70.	0.38
MILE 44.10	832.10	400000.	3.84	104119.	3292.	11.29	0.0300	0.	77.	0.12
MILE 43.70	830.57	400000.	10.07	39703.	3185.	13.83	0.0300	0.	78.	0.50
MILE 42.00	830.82	400000.	4.28	93413.	3144.	10.21	0.0300	0.	81.	0.14
MILE 39.10	828.68	400000.	7.48	53498.	3039.	13.13	0.0230	0.	78.	0.31
MILE 37.00	828.78	400000.	4.23	94617.	2120.	13.39	0.0280	0.	77.	0.11
MILE 36.00	827.82	400000.	7.64	52349.	1520.	13.63	0.0280	0.	79.	0.23
MILE 34.60	827.56	400000.	5.83	68605.	2206.	14.76	0.0280	0.	79.	0.18
MILE 33.60	827.86	400000.	2.50	159925.	4092.	14.18	0.0290	0.	85.	0.07
MILE 31.50	827.11	400000.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE 30.10	826.85	400000.	5.48	72936.	1303.	14.29	0.0200	0.	86.	0.13
MILE 29.00	826.69	400000.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE 27.30	826.47	400000.	5.53	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE 25.20	826.30	400000.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE 23.10	825.91	400000.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

ODATE 10-20-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 17.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69.	0.38
MILE 77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74.	0.28
MILE 75.60	877.43	400000.	10.64	37581.	2653.	10.55	0.0400	0.	71.	0.50
MILE 73.50	867.01	400000.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.53
MILE 71.40	864.29	400000.	7.89	50678.	1665.	11.79	0.0400	0.	66.	0.25
MILE 69.30	860.11	400000.	9.00	44422.	1613.	10.89	0.0340	0.	61.	0.30
MILE 67.20	857.95	400000.	5.89	67907.	4143.	10.46	0.0340	0.	67.	0.26
MILE 65.10	854.20	400000.	7.85	50940.	4867.	10.57	0.0320	0.	67.	0.43
MILE 63.00	852.67	400000.	4.93	81112.	3193.	8.79	0.0400	0.	72.	0.17
MILE 60.90	848.12	400000.	7.23	55296.	2862.	9.12	0.0450	0.	72.	0.29
MILE 58.80	840.07	400000.	8.26	48446.	2161.	8.68	0.0400	0.	67.	0.31
MILE 57.00	838.36	400000.	8.10	49375.	2280.	8.83	0.0200	0.	64.	0.31

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 454 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 55.00	835.82	400000.	9.52	42014.	2310.	8.80	0.0200	0.	62.	0.39
MILE 53.10	834.78	400000.	7.28	54912.	2749.	9.81	0.0200	0.	61.	0.29
MILE 51.00	833.39	400000.	7.66	52211.	3504.	9.83	0.0200	0.	64.	0.35
MILE 48.30	832.76	400000.	5.75	69558.	7165.	12.25	0.0200	0.	64.	0.33
MILE 46.20	832.08	400000.	6.44	62115.	6997.	11.97	0.0200	0.	70.	0.38
MILE 44.10	832.10	400000.	3.84	104119.	3292.	11.29	0.0300	0.	77.	0.12
MILE 43.70	830.57	400000.	10.07	39703.	3185.	13.83	0.0300	0.	78.	0.50
MILE 42.00	830.82	400000.	4.28	93413.	3144.	10.21	0.0300	0.	81.	0.14
MILE 39.10	828.68	400000.	7.48	53498.	3039.	13.13	0.0230	0.	78.	0.31
MILE 37.00	828.78	400000.	4.23	94617.	2120.	13.39	0.0280	0.	77.	0.11
MILE 36.00	827.82	400000.	7.64	52349.	1520.	13.63	0.0280	0.	79.	0.23
MILE 34.60	827.56	400000.	5.83	68605.	2206.	14.76	0.0280	0.	79.	0.18
MILE 33.60	827.86	400000.	2.50	159925.	4092.	14.18	0.0290	0.	85.	0.07
MILE 31.50	827.11	400000.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE 30.10	826.85	400000.	5.48	72936.	1303.	14.29	0.0200	0.	86.	0.13
MILE 29.00	826.69	400000.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE 27.30	826.47	400000.	5.53	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE 25.20	826.30	400000.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE 23.10	825.91	400000.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

0DATE 10-20-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 18.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
INFLOW DEPTH	FROUDE									
MILE 79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69.	0.38
MILE 77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74.	0.28
MILE 75.60	877.43	400000.	10.64	37581.	2653.	10.55	0.0400	0.	71.	0.50
MILE 73.50	867.01	400000.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.53
MILE 71.40	864.29	400000.	7.89	50678.	1665.	11.79	0.0400	0.	66.	0.25
MILE 69.30	860.11	400000.	9.00	44422.	1613.	10.89	0.0340	0.	61.	0.30
MILE 67.20	857.95	400000.	5.89	67907.	4143.	10.46	0.0340	0.	67.	0.26
MILE 65.10	854.20	400000.	7.85	50940.	4867.	10.57	0.0320	0.	67.	0.43
MILE 63.00	852.67	400000.	4.93	81112.	3193.	8.79	0.0400	0.	72.	0.17
MILE 60.90	848.12	400000.	7.23	55296.	2862.	9.12	0.0450	0.	72.	0.29
MILE 58.80	840.07	400000.	8.26	48446.	2161.	8.68	0.0400	0.	67.	0.31
MILE 57.00	838.36	400000.	8.10	49375.	2280.	8.83	0.0200	0.	64.	0.31
MILE 55.00	835.82	400000.	9.52	42014.	2310.	8.80	0.0200	0.	62.	0.39
MILE 53.10	834.78	400000.	7.28	54912.	2749.	9.81	0.0200	0.	61.	0.29
MILE 51.00	833.39	400000.	7.66	52211.	3504.	9.83	0.0200	0.	64.	0.35
MILE 48.30	832.76	400000.	5.75	69558.	7165.	12.25	0.0200	0.	64.	0.33
MILE 46.20	832.08	400000.	6.44	62115.	6997.	11.97	0.0200	0.	70.	0.38
MILE 44.10	832.10	400000.	3.84	104119.	3292.	11.29	0.0300	0.	77.	0.12
MILE 43.70	830.57	400000.	10.07	39703.	3185.	13.83	0.0300	0.	78.	0.50
MILE 42.00	830.82	400000.	4.28	93413.	3144.	10.21	0.0300	0.	81.	0.14
MILE 39.10	828.68	400000.	7.48	53498.	3039.	13.13	0.0230	0.	78.	0.31
MILE 37.00	828.78	400000.	4.23	94617.	2120.	13.39	0.0280	0.	77.	0.11
MILE 36.00	827.82	400000.	7.64	52349.	1520.	13.63	0.0280	0.	79.	0.23

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 34.60	827.56	400000.	5.83	68605.	2206.	14.76	0.0280	0.	79.	0.18
MILE 33.60	827.86	400000.	2.50	159925.	4092.	14.18	0.0290	0.	85.	0.07
MILE 31.50	827.11	400000.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE 30.10	826.85	400000.	5.48	72936.	1303.	14.29	0.0200	0.	86.	0.13
MILE 29.00	826.69	400000.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE 27.30	826.47	400000.	5.53	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE 25.20	826.30	400000.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE 23.10	825.91	400000.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

ODATE 10-20-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 19.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
INFLOW DEPTH	FROUDE									
MILE 79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69.	0.38
MILE 77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74.	0.28
MILE 75.60	877.43	400000.	10.64	37581.	2653.	10.55	0.0400	0.	71.	0.50
MILE 73.50	867.01	400000.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.53
MILE 71.40	864.29	400000.	7.89	50678.	1665.	11.79	0.0400	0.	66.	0.25
MILE 69.30	860.11	400000.	9.00	44422.	1613.	10.89	0.0340	0.	61.	0.30
MILE 67.20	857.95	400000.	5.89	67907.	4143.	10.46	0.0340	0.	67.	0.26
MILE 65.10	854.20	400000.	7.85	50940.	4867.	10.57	0.0320	0.	67.	0.43
MILE 63.00	852.67	400000.	4.93	81112.	3193.	8.79	0.0400	0.	72.	0.17
MILE 60.90	848.12	400000.	7.23	55296.	2862.	9.12	0.0450	0.	72.	0.29
MILE 58.80	840.07	400000.	8.26	48446.	2161.	8.68	0.0400	0.	67.	0.31
MILE 57.00	838.36	400000.	8.10	49375.	2280.	8.83	0.0200	0.	64.	0.31
MILE 55.00	835.82	400000.	9.52	42014.	2310.	8.80	0.0200	0.	62.	0.39
MILE 53.10	834.78	400000.	7.28	54912.	2749.	9.81	0.0200	0.	61.	0.29
MILE 51.00	833.39	400000.	7.66	52211.	3504.	9.83	0.0200	0.	64.	0.35
MILE 48.30	832.76	400000.	5.75	69558.	7165.	12.25	0.0200	0.	64.	0.33
MILE 46.20	832.08	400000.	6.44	62115.	6997.	11.97	0.0200	0.	70.	0.38
MILE 44.10	832.10	400000.	3.84	104119.	3292.	11.29	0.0300	0.	77.	0.12
MILE 43.70	830.57	400000.	10.07	39703.	3185.	13.83	0.0300	0.	78.	0.50
MILE 42.00	830.82	400000.	4.28	93413.	3144.	10.21	0.0300	0.	81.	0.14
MILE 39.10	828.68	400000.	7.48	53498.	3039.	13.13	0.0230	0.	78.	0.31
MILE 37.00	828.78	400000.	4.23	94617.	2120.	13.39	0.0280	0.	77.	0.11
MILE 36.00	827.82	400000.	7.64	52349.	1520.	13.63	0.0280	0.	79.	0.23
MILE 34.60	827.56	400000.	5.83	68605.	2206.	14.76	0.0280	0.	79.	0.18
MILE 33.60	827.86	400000.	2.50	159925.	4092.	14.18	0.0290	0.	85.	0.07
MILE 31.50	827.11	400000.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE 30.10	826.85	400000.	5.48	72936.	1303.	14.29	0.0200	0.	86.	0.13
MILE 29.00	826.69	400000.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE 27.30	826.47	400000.	5.53	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE 25.20	826.30	400000.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE 23.10	825.91	400000.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 456 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

0DATE 10-20-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 20.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69.	0.38
MILE 77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74.	0.28
MILE 75.60	877.43	400000.	10.64	37581.	2653.	10.55	0.0400	0.	71.	0.50
MILE 73.50	867.01	400000.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.53
MILE 71.40	864.29	400000.	7.89	50678.	1665.	11.79	0.0400	0.	66.	0.25
MILE 69.30	860.11	400000.	9.00	44422.	1613.	10.89	0.0340	0.	61.	0.30
MILE 67.20	857.95	400000.	5.89	67907.	4143.	10.46	0.0340	0.	67.	0.26
MILE 65.10	854.20	400000.	7.85	50940.	4867.	10.57	0.0320	0.	67.	0.43
MILE 63.00	852.67	400000.	4.93	81112.	3193.	8.79	0.0400	0.	72.	0.17
MILE 60.90	848.12	400000.	7.23	55296.	2862.	9.12	0.0450	0.	72.	0.29
MILE 58.80	840.07	400000.	8.26	48446.	2161.	8.68	0.0400	0.	67.	0.31
MILE 57.00	838.36	400000.	8.10	49375.	2280.	8.83	0.0200	0.	64.	0.31
MILE 55.00	835.82	400000.	9.52	42014.	2310.	8.80	0.0200	0.	62.	0.39
MILE 53.10	834.78	400000.	7.28	54912.	2749.	9.81	0.0200	0.	61.	0.29
MILE 51.00	833.39	400000.	7.66	52211.	3504.	9.83	0.0200	0.	64.	0.35
MILE 48.30	832.76	400000.	5.75	69558.	7165.	12.25	0.0200	0.	64.	0.33
MILE 46.20	832.08	400000.	6.44	62115.	6997.	11.97	0.0200	0.	70.	0.38
MILE 44.10	832.10	400000.	3.84	104119.	3292.	11.29	0.0300	0.	77.	0.12
MILE 43.70	830.57	400000.	10.07	39703.	3185.	13.83	0.0300	0.	78.	0.50
MILE 42.00	830.82	400000.	4.28	93413.	3144.	10.21	0.0300	0.	81.	0.14
MILE 39.10	828.68	400000.	7.48	53498.	3039.	13.13	0.0230	0.	78.	0.31
MILE 37.00	828.78	400000.	4.23	94617.	2120.	13.39	0.0280	0.	77.	0.11
MILE 36.00	827.82	400000.	7.64	52349.	1520.	13.63	0.0280	0.	79.	0.23
MILE 34.60	827.56	400000.	5.83	68605.	2206.	14.76	0.0280	0.	79.	0.18
MILE 33.60	827.86	400000.	2.50	159925.	4092.	14.18	0.0290	0.	85.	0.07
MILE 31.50	827.11	400000.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE 30.10	826.85	400000.	5.48	72936.	1303.	14.29	0.0200	0.	86.	0.13
MILE 29.00	826.69	400000.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE 27.30	826.47	400000.	5.53	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE 25.20	826.30	400000.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE 23.10	825.91	400000.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

0DATE 10-20-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 21.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69.	0.38
MILE 77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74.	0.28
MILE 75.60	877.43	400000.	10.64	37581.	2653.	10.55	0.0400	0.	71.	0.50
MILE 73.50	867.01	400000.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.53
MILE 71.40	864.29	400000.	7.89	50678.	1665.	11.79	0.0400	0.	66.	0.25

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 457 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	69.30	860.11	400000.	9.00	44422.	1613.	10.89	0.0340	0.	61.	0.30
MILE	67.20	857.95	400000.	5.89	67907.	4143.	10.46	0.0340	0.	67.	0.26
MILE	65.10	854.20	400000.	7.85	50940.	4867.	10.57	0.0320	0.	67.	0.43
MILE	63.00	852.67	400000.	4.93	81112.	3193.	8.79	0.0400	0.	72.	0.17
MILE	60.90	848.12	400000.	7.23	55296.	2862.	9.12	0.0450	0.	72.	0.29
MILE	58.80	840.07	400000.	8.26	48446.	2161.	8.68	0.0400	0.	67.	0.31
MILE	57.00	838.36	400000.	8.10	49375.	2280.	8.83	0.0200	0.	64.	0.31
MILE	55.00	835.82	400000.	9.52	42014.	2310.	8.80	0.0200	0.	62.	0.39
MILE	53.10	834.78	400000.	7.28	54912.	2749.	9.81	0.0200	0.	61.	0.29
MILE	51.00	833.39	400000.	7.66	52211.	3504.	9.83	0.0200	0.	64.	0.35
MILE	48.30	832.76	400000.	5.75	69558.	7165.	12.25	0.0200	0.	64.	0.33
MILE	46.20	832.08	400000.	6.44	62115.	6997.	11.97	0.0200	0.	70.	0.38
MILE	44.10	832.10	400000.	3.84	104119.	3292.	11.29	0.0300	0.	77.	0.12
MILE	43.70	830.57	400000.	10.07	39703.	3185.	13.83	0.0300	0.	78.	0.50
MILE	42.00	830.82	400000.	4.28	93413.	3144.	10.21	0.0300	0.	81.	0.14
MILE	39.10	828.68	400000.	7.48	53498.	3039.	13.13	0.0230	0.	78.	0.31
MILE	37.00	828.78	400000.	4.23	94617.	2120.	13.39	0.0280	0.	77.	0.11
MILE	36.00	827.82	400000.	7.64	52349.	1520.	13.63	0.0280	0.	79.	0.23
MILE	34.60	827.56	400000.	5.83	68605.	2206.	14.76	0.0280	0.	79.	0.18
MILE	33.60	827.86	400000.	2.50	159925.	4092.	14.18	0.0290	0.	85.	0.07
MILE	31.50	827.11	400000.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE	30.10	826.85	400000.	5.48	72936.	1303.	14.29	0.0200	0.	86.	0.13
MILE	29.00	826.69	400000.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE	27.30	826.47	400000.	5.53	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE	25.20	826.30	400000.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE	23.10	825.91	400000.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

0DATE 10-20-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 22.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE	79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69.	0.38
MILE	77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74.	0.28
MILE	75.60	877.43	400000.	10.64	37581.	2653.	10.55	0.0400	0.	71.	0.50
MILE	73.50	867.01	400000.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.53
MILE	71.40	864.29	400000.	7.89	50678.	1665.	11.79	0.0400	0.	66.	0.25
MILE	69.30	860.11	400000.	9.00	44422.	1613.	10.89	0.0340	0.	61.	0.30
MILE	67.20	857.95	400000.	5.89	67907.	4143.	10.46	0.0340	0.	67.	0.26
MILE	65.10	854.20	400000.	7.85	50940.	4867.	10.57	0.0320	0.	67.	0.43
MILE	63.00	852.67	400000.	4.93	81112.	3193.	8.79	0.0400	0.	72.	0.17
MILE	60.90	848.12	400000.	7.23	55296.	2862.	9.12	0.0450	0.	72.	0.29
MILE	58.80	840.07	400000.	8.26	48446.	2161.	8.68	0.0400	0.	67.	0.31
MILE	57.00	838.36	400000.	8.10	49375.	2280.	8.83	0.0200	0.	64.	0.31
MILE	55.00	835.82	400000.	9.52	42014.	2310.	8.80	0.0200	0.	62.	0.39
MILE	53.10	834.78	400000.	7.28	54912.	2749.	9.81	0.0200	0.	61.	0.29
MILE	51.00	833.39	400000.	7.66	52211.	3504.	9.83	0.0200	0.	64.	0.35
MILE	48.30	832.76	400000.	5.75	69558.	7165.	12.25	0.0200	0.	64.	0.33

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 458 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 46.20	832.08	400000.	6.44	62115.	6997.	11.97	0.0200	0.	70.	0.38
MILE 44.10	832.10	400000.	3.84	104119.	3292.	11.29	0.0300	0.	77.	0.12
MILE 43.70	830.57	400000.	10.07	39703.	3185.	13.83	0.0300	0.	78.	0.50
MILE 42.00	830.82	400000.	4.28	93413.	3144.	10.21	0.0300	0.	81.	0.14
MILE 39.10	828.68	400000.	7.48	53498.	3039.	13.13	0.0230	0.	78.	0.31
MILE 37.00	828.78	400000.	4.23	94617.	2120.	13.39	0.0280	0.	77.	0.11
MILE 36.00	827.82	400000.	7.64	52349.	1520.	13.63	0.0280	0.	79.	0.23
MILE 34.60	827.56	400000.	5.83	68605.	2206.	14.76	0.0280	0.	79.	0.18
MILE 33.60	827.86	400000.	2.50	159925.	4092.	14.18	0.0290	0.	85.	0.07
MILE 31.50	827.11	400000.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE 30.10	826.85	400000.	5.48	72936.	1303.	14.29	0.0200	0.	86.	0.13
MILE 29.00	826.69	400000.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE 27.30	826.47	400000.	5.53	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE 25.20	826.30	400000.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE 23.10	825.91	400000.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

ODATE 10-20-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 23.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69.	0.38
MILE 77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74.	0.28
MILE 75.60	877.43	400000.	10.64	37581.	2653.	10.55	0.0400	0.	71.	0.50
MILE 73.50	867.01	400000.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.53
MILE 71.40	864.29	400000.	7.89	50678.	1665.	11.79	0.0400	0.	66.	0.25
MILE 69.30	860.11	400000.	9.00	44422.	1613.	10.89	0.0340	0.	61.	0.30
MILE 67.20	857.95	400000.	5.89	67907.	4143.	10.46	0.0340	0.	67.	0.26
MILE 65.10	854.20	400000.	7.85	50940.	4867.	10.57	0.0320	0.	67.	0.43
MILE 63.00	852.67	400000.	4.93	81112.	3193.	8.79	0.0400	0.	72.	0.17
MILE 60.90	848.12	400000.	7.23	55296.	2862.	9.12	0.0450	0.	72.	0.29
MILE 58.80	840.07	400000.	8.26	48446.	2161.	8.68	0.0400	0.	67.	0.31
MILE 57.00	838.36	400000.	8.10	49375.	2280.	8.83	0.0200	0.	64.	0.31
MILE 55.00	835.82	400000.	9.52	42014.	2310.	8.80	0.0200	0.	62.	0.39
MILE 53.10	834.78	400000.	7.28	54912.	2749.	9.81	0.0200	0.	61.	0.29
MILE 51.00	833.39	400000.	7.66	52211.	3504.	9.83	0.0200	0.	64.	0.35
MILE 48.30	832.76	400000.	5.75	69558.	7165.	12.25	0.0200	0.	64.	0.33
MILE 46.20	832.08	400000.	6.44	62115.	6997.	11.97	0.0200	0.	70.	0.38
MILE 44.10	832.10	400000.	3.84	104119.	3292.	11.29	0.0300	0.	77.	0.12
MILE 43.70	830.57	400000.	10.07	39703.	3185.	13.83	0.0300	0.	78.	0.50
MILE 42.00	830.82	400000.	4.28	93413.	3144.	10.21	0.0300	0.	81.	0.14
MILE 39.10	828.68	400000.	7.48	53498.	3039.	13.13	0.0230	0.	78.	0.31
MILE 37.00	828.78	400000.	4.23	94617.	2120.	13.39	0.0280	0.	77.	0.11
MILE 36.00	827.82	400000.	7.64	52349.	1520.	13.63	0.0280	0.	79.	0.23
MILE 34.60	827.56	400000.	5.83	68605.	2206.	14.76	0.0280	0.	79.	0.18
MILE 33.60	827.86	400000.	2.50	159925.	4092.	14.18	0.0290	0.	85.	0.07
MILE 31.50	827.11	400000.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE 30.10	826.85	400000.	5.48	72936.	1303.	14.29	0.0200	0.	86.	0.13

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	29.00	826.69	400000.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE	27.30	826.47	400000.	5.53	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE	25.20	826.30	400000.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE	23.10	825.91	400000.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

0DATE 10-21-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 0.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE	79.80	887.48	400000.	12.11	33038.	1031.	10.44	0.0290	0.	69.	0.38
MILE	77.70	885.11	400000.	9.40	42556.	1260.	11.44	0.0400	0.	74.	0.28
MILE	75.60	877.43	400000.	10.64	37581.	2653.	10.55	0.0400	0.	71.	0.50
MILE	73.50	867.01	400000.	12.19	32806.	2026.	10.97	0.0330	0.	68.	0.53
MILE	71.40	864.29	400000.	7.89	50678.	1665.	11.79	0.0400	0.	66.	0.25
MILE	69.30	860.11	400000.	9.00	44422.	1613.	10.89	0.0340	0.	61.	0.30
MILE	67.20	857.95	400000.	5.89	67907.	4143.	10.46	0.0340	0.	67.	0.26
MILE	65.10	854.20	400000.	7.85	50940.	4867.	10.57	0.0320	0.	67.	0.43
MILE	63.00	852.67	400000.	4.93	81112.	3193.	8.79	0.0400	0.	72.	0.17
MILE	60.90	848.12	400000.	7.23	55296.	2862.	9.12	0.0450	0.	72.	0.29
MILE	58.80	840.07	400000.	8.26	48446.	2161.	8.68	0.0400	0.	67.	0.31
MILE	57.00	838.36	400000.	8.10	49375.	2280.	8.83	0.0200	0.	64.	0.31
MILE	55.00	835.82	400000.	9.52	42014.	2310.	8.80	0.0200	0.	62.	0.39
MILE	53.10	834.78	400000.	7.28	54912.	2749.	9.81	0.0200	0.	61.	0.29
MILE	51.00	833.39	400000.	7.66	52211.	3504.	9.83	0.0200	0.	64.	0.35
MILE	48.30	832.76	400000.	5.75	69558.	7165.	12.25	0.0200	0.	64.	0.33
MILE	46.20	832.08	400000.	6.44	62115.	6997.	11.97	0.0200	0.	70.	0.38
MILE	44.10	832.10	400000.	3.84	104119.	3292.	11.29	0.0300	0.	77.	0.12
MILE	43.70	830.57	400000.	10.07	39703.	3185.	13.83	0.0300	0.	78.	0.50
MILE	42.00	830.82	400000.	4.28	93413.	3144.	10.21	0.0300	0.	81.	0.14
MILE	39.10	828.68	400000.	7.48	53498.	3039.	13.13	0.0230	0.	78.	0.31
MILE	37.00	828.78	400000.	4.23	94617.	2120.	13.39	0.0280	0.	77.	0.11
MILE	36.00	827.82	400000.	7.64	52349.	1520.	13.63	0.0280	0.	79.	0.23
MILE	34.60	827.56	400000.	5.83	68605.	2206.	14.76	0.0280	0.	79.	0.18
MILE	33.60	827.86	400000.	2.50	159925.	4092.	14.18	0.0290	0.	85.	0.07
MILE	31.50	827.11	400000.	6.07	65911.	3184.	15.14	0.0250	0.	88.	0.24
MILE	30.10	826.85	400000.	5.48	72936.	1303.	14.29	0.0200	0.	86.	0.13
MILE	29.00	826.69	400000.	5.53	72333.	1829.	15.73	0.0200	0.	87.	0.15
MILE	27.30	826.47	400000.	5.53	72392.	1712.	16.08	0.0230	0.	89.	0.15
MILE	25.20	826.30	400000.	4.78	83697.	1671.	17.06	0.0230	0.	92.	0.12
MILE	23.10	825.91	400000.	5.44	73496.	1924.	15.79	0.0230	0.	96.	0.16

0DATE 10-21-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 460 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

TIME 1.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	887.65	404167.	12.18	33173.	1033.	10.45	0.0290	0.	69.	0.38
MILE 77.70	885.26	403360.	9.45	42703.	1261.	11.45	0.0400	0.	75.	0.29
MILE 75.60	877.51	402286.	10.68	37657.	2657.	10.55	0.0400	0.	71.	0.50
MILE 73.50	867.05	401371.	12.22	32834.	2028.	10.98	0.0330	0.	68.	0.54
MILE 71.40	864.32	400950.	7.91	50715.	1666.	11.80	0.0400	0.	67.	0.25
MILE 69.30	860.12	400671.	9.02	44436.	1614.	10.89	0.0340	0.	61.	0.30
MILE 67.20	857.96	400435.	5.90	67918.	4144.	10.46	0.0340	0.	67.	0.26
MILE 65.10	854.20	400173.	7.86	50943.	4868.	10.57	0.0320	0.	67.	0.43
MILE 63.00	852.67	400067.	4.93	81115.	3193.	8.79	0.0400	0.	72.	0.17
MILE 60.90	848.12	400018.	7.23	55297.	2862.	9.12	0.0450	0.	72.	0.29
MILE 58.80	840.07	400004.	8.26	48446.	2161.	8.68	0.0400	0.	67.	0.31
MILE 57.00	838.36	400002.	8.10	49375.	2280.	8.83	0.0200	0.	64.	0.31
MILE 55.00	835.82	400000.	9.52	42014.	2310.	8.80	0.0200	0.	62.	0.39
MILE 53.10	834.78	400000.	7.28	54912.	2749.	9.81	0.0200	0.	61.	0.29
MILE 51.00	833.39	400000.	7.66	52211.	3504.	9.83	0.0200	0.	64.	0.35
MILE 48.30	832.76	400000.	5.75	69558.	7165.	12.25	0.0200	0.	64.	0.33
MILE 46.20	832.08	399999.	6.44	62115.	6997.	11.97	0.0200	0.	70.	0.38
MILE 44.10	832.10	399970.	3.84	104121.	3292.	11.29	0.0300	0.	77.	0.12
MILE 43.70	830.58	399956.	10.07	39704.	3185.	13.83	0.0300	0.	78.	0.50
MILE 42.00	830.83	399755.	4.28	93424.	3145.	10.21	0.0300	0.	81.	0.14
MILE 39.10	828.71	398845.	7.45	53527.	3040.	13.13	0.0230	0.	78.	0.31
MILE 37.00	828.82	397461.	4.20	94706.	2121.	13.40	0.0280	0.	78.	0.11
MILE 36.00	827.89	396986.	7.57	52423.	1522.	13.64	0.0280	0.	79.	0.23
MILE 34.60	827.64	396195.	5.77	68715.	2209.	14.77	0.0280	0.	79.	0.18
MILE 33.60	827.94	395281.	2.47	160185.	4099.	14.20	0.0290	0.	85.	0.07
MILE 31.50	827.23	392983.	5.95	66063.	3191.	15.15	0.0250	0.	88.	0.23
MILE 30.10	827.00	391924.	5.36	73142.	1305.	14.31	0.0200	0.	86.	0.13
MILE 29.00	826.85	391266.	5.39	72546.	1834.	15.75	0.0200	0.	87.	0.15
MILE 27.30	826.66	389950.	5.37	72627.	1717.	16.10	0.0230	0.	90.	0.15
MILE 25.20	826.52	388455.	4.63	83973.	1676.	17.08	0.0230	0.	92.	0.12
MILE 23.10	826.18	387016.	5.24	73836.	1934.	15.82	0.0230	0.	96.	0.15

ODATE 10-21-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 2.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	887.92	408333.	12.23	33380.	1035.	10.46	0.0290	0.	69.	0.38
MILE 77.70	885.51	407353.	9.48	42951.	1264.	11.46	0.0400	0.	75.	0.29
MILE 75.60	877.70	405949.	10.73	37835.	2666.	10.56	0.0400	0.	71.	0.50
MILE 73.50	867.17	404567.	12.29	32923.	2034.	10.99	0.0330	0.	68.	0.54
MILE 71.40	864.42	403806.	7.94	50857.	1670.	11.81	0.0400	0.	67.	0.25
MILE 69.30	860.19	403228.	9.06	44506.	1616.	10.90	0.0340	0.	61.	0.30
MILE 67.20	858.01	402548.	5.92	68000.	4149.	10.46	0.0340	0.	67.	0.26
MILE 65.10	854.23	401612.	7.88	50979.	4871.	10.57	0.0320	0.	67.	0.43

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 461 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	63.00	852.70	400983.	4.94	81191.	3194.	8.79	0.0400	0.	72.	0.17
MILE	60.90	848.14	400573.	7.24	55335.	2863.	9.12	0.0450	0.	72.	0.29
MILE	58.80	840.08	400336.	8.26	48459.	2162.	8.68	0.0400	0.	67.	0.31
MILE	57.00	838.37	400257.	8.10	49386.	2280.	8.83	0.0200	0.	64.	0.31
MILE	55.00	835.83	400170.	9.52	42020.	2311.	8.80	0.0200	0.	62.	0.39
MILE	53.10	834.78	400045.	7.28	54921.	2750.	9.81	0.0200	0.	62.	0.29
MILE	51.00	833.40	399763.	7.65	52224.	3505.	9.83	0.0200	0.	64.	0.35
MILE	48.30	832.78	398575.	5.73	69595.	7169.	12.26	0.0200	0.	64.	0.32
MILE	46.20	832.12	397053.	6.39	62181.	7004.	11.97	0.0200	0.	70.	0.38
MILE	44.10	832.15	395749.	3.80	104261.	3295.	11.29	0.0300	0.	77.	0.12
MILE	43.70	830.67	395573.	9.95	39776.	3190.	13.84	0.0300	0.	78.	0.50
MILE	42.00	830.93	394508.	4.21	93711.	3151.	10.21	0.0300	0.	81.	0.14
MILE	39.10	828.90	392406.	7.30	53754.	3052.	13.15	0.0230	0.	78.	0.31
MILE	37.00	829.00	390961.	4.11	95076.	2127.	13.42	0.0280	0.	78.	0.11
MILE	36.00	828.11	390440.	7.41	52664.	1526.	13.66	0.0280	0.	79.	0.22
MILE	34.60	827.87	389552.	5.65	69008.	2216.	14.80	0.0280	0.	79.	0.18
MILE	33.60	828.16	388512.	2.42	160850.	4114.	14.23	0.0290	0.	85.	0.07
MILE	31.50	827.48	385928.	5.82	66364.	3205.	15.17	0.0250	0.	89.	0.23
MILE	30.10	827.25	384709.	5.23	73499.	1309.	14.33	0.0200	0.	86.	0.12
MILE	29.00	827.11	384059.	5.27	72880.	1843.	15.77	0.0200	0.	87.	0.15
MILE	27.30	826.92	382968.	5.25	72943.	1725.	16.13	0.0230	0.	90.	0.14
MILE	25.20	826.78	381644.	4.53	84294.	1683.	17.12	0.0230	0.	92.	0.11
MILE	23.10	826.44	380242.	5.13	74177.	1943.	15.85	0.0230	0.	96.	0.15

0DATE 10-21-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	3.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL	
INFLOW	DEPTH	FROUDE									
MILE	79.80	888.21	412500.	12.27	33611.	1037.	10.47	0.0290	0.	70.	0.38
MILE	77.70	885.80	411451.	9.52	43231.	1267.	11.47	0.0400	0.	75.	0.29
MILE	75.60	877.94	409905.	10.77	38050.	2677.	10.57	0.0400	0.	71.	0.50
MILE	73.50	867.33	408288.	12.35	33048.	2041.	11.00	0.0330	0.	68.	0.54
MILE	71.40	864.58	407316.	7.98	51066.	1676.	11.83	0.0400	0.	67.	0.25
MILE	69.30	860.32	406528.	9.11	44626.	1621.	10.91	0.0340	0.	62.	0.31
MILE	67.20	858.11	405474.	5.95	68159.	4159.	10.47	0.0340	0.	67.	0.26
MILE	65.10	854.31	403927.	7.91	51068.	4879.	10.58	0.0320	0.	67.	0.43
MILE	63.00	852.77	402750.	4.95	81391.	3197.	8.79	0.0400	0.	72.	0.17
MILE	60.90	848.20	401909.	7.25	55459.	2866.	9.13	0.0450	0.	72.	0.29
MILE	58.80	840.12	401251.	8.27	48523.	2164.	8.68	0.0400	0.	67.	0.31
MILE	57.00	838.42	400794.	8.10	49467.	2282.	8.83	0.0200	0.	64.	0.31
MILE	55.00	835.89	400235.	9.51	42093.	2314.	8.80	0.0200	0.	62.	0.39
MILE	53.10	834.85	399610.	7.26	55017.	2754.	9.82	0.0200	0.	62.	0.29
MILE	51.00	833.48	398698.	7.62	52332.	3512.	9.84	0.0200	0.	64.	0.35
MILE	48.30	832.87	396431.	5.68	69742.	7184.	12.27	0.0200	0.	64.	0.32
MILE	46.20	832.22	393952.	6.32	62339.	7020.	11.98	0.0200	0.	70.	0.37
MILE	44.10	832.25	391949.	3.75	104534.	3300.	11.30	0.0300	0.	77.	0.12
MILE	43.70	830.81	391702.	9.82	39884.	3198.	13.86	0.0300	0.	78.	0.49

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Appendix E		Checked	ACM

MILE 42.00	831.06	390487.	4.15	94096.	3159.	10.22	0.0300	0.	81.	0.13
MILE 39.10	829.09	388239.	7.19	53987.	3063.	13.17	0.0230	0.	78.	0.30
MILE 37.00	829.19	386656.	4.05	95467.	2132.	13.44	0.0280	0.	78.	0.11
MILE 36.00	828.32	386099.	7.30	52905.	1530.	13.68	0.0280	0.	79.	0.22
MILE 34.60	828.09	385213.	5.56	69297.	2223.	14.82	0.0280	0.	80.	0.18
MILE 33.60	828.37	384174.	2.38	161517.	4130.	14.26	0.0290	0.	85.	0.07
MILE 31.50	827.71	381624.	5.73	66655.	3219.	15.20	0.0250	0.	89.	0.22
MILE 30.10	827.49	380492.	5.15	73838.	1313.	14.36	0.0200	0.	87.	0.12
MILE 29.00	827.35	379859.	5.19	73197.	1851.	15.80	0.0200	0.	88.	0.15
MILE 27.30	827.17	378729.	5.17	73249.	1732.	16.16	0.0230	0.	90.	0.14
MILE 25.20	827.03	377377.	4.46	84610.	1689.	17.15	0.0230	0.	93.	0.11
MILE 23.10	826.71	375874.	5.04	74518.	1953.	15.88	0.0230	0.	97.	0.14

0DATE 10-21-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 4.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
INFLOW DEPTH	FROUDE									
MILE 79.80	888.51	416667.	12.31	33853.	1040.	10.48	0.0290	0.	70.	0.38
MILE 77.70	886.10	415582.	9.55	43528.	1270.	11.48	0.0400	0.	75.	0.29
MILE 75.60	878.20	413958.	10.81	38290.	2689.	10.59	0.0400	0.	72.	0.50
MILE 73.50	867.53	412178.	12.42	33192.	2050.	11.01	0.0330	0.	68.	0.54
MILE 71.40	864.76	411052.	8.01	51317.	1682.	11.85	0.0400	0.	67.	0.26
MILE 69.30	860.47	410104.	9.16	44781.	1627.	10.92	0.0340	0.	62.	0.31
MILE 67.20	858.26	408744.	5.98	68379.	4172.	10.48	0.0340	0.	68.	0.26
MILE 65.10	854.42	406674.	7.94	51205.	4892.	10.59	0.0320	0.	67.	0.43
MILE 63.00	852.88	404999.	4.96	81714.	3202.	8.80	0.0400	0.	72.	0.17
MILE 60.90	848.31	403756.	7.25	55681.	2871.	9.13	0.0450	0.	72.	0.29
MILE 58.80	840.23	402713.	8.28	48664.	2169.	8.68	0.0400	0.	67.	0.31
MILE 57.00	838.52	401997.	8.10	49643.	2288.	8.83	0.0200	0.	64.	0.31
MILE 55.00	836.00	401144.	9.50	42233.	2320.	8.80	0.0200	0.	62.	0.39
MILE 53.10	834.97	400231.	7.25	55186.	2762.	9.83	0.0200	0.	62.	0.29
MILE 51.00	833.61	398945.	7.60	52498.	3522.	9.85	0.0200	0.	64.	0.35
MILE 48.30	833.00	395924.	5.66	69956.	7207.	12.29	0.0200	0.	64.	0.32
MILE 46.20	832.36	392609.	6.28	62555.	7043.	11.99	0.0200	0.	71.	0.37
MILE 44.10	832.40	390047.	3.72	104911.	3306.	11.30	0.0300	0.	77.	0.12
MILE 43.70	830.97	389735.	9.74	40012.	3207.	13.87	0.0300	0.	78.	0.49
MILE 42.00	831.23	388266.	4.11	94570.	3170.	10.22	0.0300	0.	81.	0.13
MILE 39.10	829.30	385601.	7.11	54243.	3076.	13.19	0.0230	0.	78.	0.30
MILE 37.00	829.40	383861.	4.00	95901.	2139.	13.47	0.0280	0.	78.	0.11
MILE 36.00	828.55	383258.	7.21	53162.	1535.	13.71	0.0280	0.	80.	0.22
MILE 34.60	828.33	382327.	5.49	69602.	2230.	14.85	0.0280	0.	80.	0.17
MILE 33.60	828.60	381216.	2.35	162230.	4147.	14.29	0.0290	0.	86.	0.07
MILE 31.50	827.96	378478.	5.65	66961.	3233.	15.23	0.0250	0.	89.	0.22
MILE 30.10	827.75	377287.	5.09	74194.	1316.	14.38	0.0200	0.	87.	0.12
MILE 29.00	827.61	376627.	5.12	73528.	1860.	15.83	0.0200	0.	88.	0.14
MILE 27.30	827.43	375466.	5.10	73564.	1739.	16.19	0.0230	0.	90.	0.14
MILE 25.20	827.29	374091.	4.40	84934.	1695.	17.19	0.0230	0.	93.	0.11

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MILE 23.10 826.98 372608. 4.98 74861. 1962. 15.90 0.0230 0. 97. 0.14

0DATE 10-21-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 5.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80 888.82 420833. 12.34 34102. 1043. 10.50 0.0290 0. 70. 0.38
MILE 77.70 886.40 419725. 9.58 43835. 1274. 11.50 0.0400 0. 76. 0.29
MILE 75.60 878.47 418043. 10.85 38542. 2702. 10.60 0.0400 0. 72. 0.51
MILE 73.50 867.74 416145. 12.48 33350. 2059. 11.02 0.0330 0. 69. 0.55
MILE 71.40 864.97 414899. 8.04 51600. 1690. 11.88 0.0400 0. 67. 0.26
MILE 69.30 860.66 413823. 9.20 44965. 1634. 10.94 0.0340 0. 62. 0.31
MILE 67.20 858.43 412214. 6.00 68648. 4188. 10.50 0.0340 0. 68. 0.26
MILE 65.10 854.57 409714. 7.97 51382. 4908. 10.60 0.0320 0. 68. 0.43
MILE 63.00 853.03 407627. 4.96 82138. 3207. 8.81 0.0400 0. 72. 0.17
MILE 60.90 848.46 406062. 7.25 55977. 2877. 9.14 0.0450 0. 72. 0.29
MILE 58.80 840.38 404722. 8.28 48860. 2176. 8.69 0.0400 0. 67. 0.31
MILE 57.00 838.67 403798. 8.09 49884. 2295. 8.83 0.0200 0. 64. 0.31
MILE 55.00 836.15 402704. 9.49 42422. 2328. 8.80 0.0200 0. 63. 0.39
MILE 53.10 835.12 401543. 7.25 55396. 2772. 9.84 0.0200 0. 62. 0.29
MILE 51.00 833.77 399932. 7.59 52710. 3536. 9.87 0.0200 0. 64. 0.35
MILE 48.30 833.17 396202. 5.64 70226. 7236. 12.31 0.0200 0. 64. 0.32
MILE 46.20 832.54 392213. 6.24 62823. 7070. 12.00 0.0200 0. 71. 0.37
MILE 44.10 832.57 389154. 3.69 105380. 3315. 11.31 0.0300 0. 77. 0.12
MILE 43.70 831.16 388788. 9.68 40162. 3217. 13.90 0.0300 0. 78. 0.48
MILE 42.00 831.42 387152. 4.07 95132. 3182. 10.23 0.0300 0. 81. 0.13
MILE 39.10 829.53 384259. 7.05 54521. 3090. 13.22 0.0230 0. 79. 0.30
MILE 37.00 829.63 382391. 3.97 96373. 2146. 13.49 0.0280 0. 78. 0.10
MILE 36.00 828.80 381749. 7.14 53433. 1540. 13.74 0.0280 0. 80. 0.21
MILE 34.60 828.57 380785. 5.45 69922. 2238. 14.88 0.0280 0. 80. 0.17
MILE 33.60 828.84 379632. 2.33 162984. 4165. 14.33 0.0290 0. 86. 0.07
MILE 31.50 828.21 376807. 5.60 67277. 3248. 15.25 0.0250 0. 89. 0.22
MILE 30.10 828.00 375610. 5.04 74559. 1320. 14.41 0.0200 0. 87. 0.12
MILE 29.00 827.87 374949. 5.08 73865. 1869. 15.85 0.0200 0. 88. 0.14
MILE 27.30 827.69 373783. 5.06 73884. 1746. 16.22 0.0230 0. 91. 0.14
MILE 25.20 827.56 372389. 4.37 85260. 1702. 17.22 0.0230 0. 93. 0.11
MILE 23.10 827.25 370903. 4.93 75204. 1972. 15.93 0.0230 0. 97. 0.14

0DATE 10-21-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 6.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80 889.14 425000. 12.37 34357. 1045. 10.51 0.0290 0. 70. 0.38

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 77.70	886.72	423875.	9.60	44148.	1277.	11.51	0.0400	0.	76.	0.29
MILE 75.60	878.75	422150.	10.88	38803.	2715.	10.61	0.0400	0.	72.	0.51
MILE 73.50	867.96	420161.	12.53	33520.	2069.	11.04	0.0330	0.	69.	0.55
MILE 71.40	865.20	418818.	8.07	51907.	1698.	11.90	0.0400	0.	67.	0.26
MILE 69.30	860.86	417640.	9.25	45171.	1642.	10.95	0.0340	0.	62.	0.31
MILE 67.20	858.62	415826.	6.03	68956.	4207.	10.51	0.0340	0.	68.	0.26
MILE 65.10	854.75	412978.	8.00	51592.	4927.	10.61	0.0320	0.	68.	0.44
MILE 63.00	853.21	410565.	4.97	82646.	3214.	8.82	0.0400	0.	72.	0.17
MILE 60.90	848.63	408741.	7.26	56330.	2885.	9.14	0.0450	0.	72.	0.29
MILE 58.80	840.55	407153.	8.29	49099.	2185.	8.69	0.0400	0.	67.	0.31
MILE 57.00	838.86	406049.	8.09	50181.	2304.	8.84	0.0200	0.	64.	0.31
MILE 55.00	836.33	404749.	9.49	42653.	2339.	8.80	0.0200	0.	63.	0.39
MILE 53.10	835.31	403394.	7.25	55645.	2785.	9.85	0.0200	0.	62.	0.29
MILE 51.00	833.96	401517.	7.58	52962.	3551.	9.88	0.0200	0.	65.	0.35
MILE 48.30	833.36	397243.	5.63	70542.	7269.	12.34	0.0200	0.	64.	0.32
MILE 46.20	832.74	392708.	6.22	63131.	7102.	12.02	0.0200	0.	71.	0.37
MILE 44.10	832.77	389274.	3.68	105919.	3325.	11.32	0.0300	0.	78.	0.11
MILE 43.70	831.38	388867.	9.64	40327.	3229.	13.92	0.0300	0.	78.	0.48
MILE 42.00	831.64	387092.	4.04	95756.	3195.	10.24	0.0300	0.	82.	0.13
MILE 39.10	829.77	383991.	7.01	54813.	3105.	13.25	0.0230	0.	79.	0.29
MILE 37.00	829.87	382039.	3.94	96870.	2153.	13.52	0.0280	0.	79.	0.10
MILE 36.00	829.05	381373.	7.10	53713.	1545.	13.76	0.0280	0.	80.	0.21
MILE 34.60	828.83	380390.	5.41	70250.	2246.	14.91	0.0280	0.	80.	0.17
MILE 33.60	829.09	379204.	2.32	163763.	4183.	14.36	0.0290	0.	86.	0.07
MILE 31.50	828.47	376296.	5.57	67599.	3263.	15.28	0.0250	0.	90.	0.22
MILE 30.10	828.26	375076.	5.01	74928.	1324.	14.44	0.0200	0.	87.	0.12
MILE 29.00	828.13	374402.	5.05	74206.	1878.	15.88	0.0200	0.	88.	0.14
MILE 27.30	827.95	373218.	5.03	74206.	1753.	16.25	0.0230	0.	91.	0.14
MILE 25.20	827.82	371823.	4.34	85589.	1708.	17.26	0.0230	0.	93.	0.11
MILE 23.10	827.51	370325.	4.90	75547.	1981.	15.96	0.0230	0.	98.	0.14

ODATE 10-21-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	7.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL	
INFLOW	DEPTH	FROUDE								
MILE 79.80	889.45	429167.	12.40	34616.	1048.	10.53	0.0290	0.	71.	0.38
MILE 77.70	887.03	428030.	9.63	44467.	1280.	11.53	0.0400	0.	76.	0.29
MILE 75.60	879.04	426273.	10.91	39072.	2729.	10.63	0.0400	0.	73.	0.51
MILE 73.50	868.20	424211.	12.59	33699.	2080.	11.06	0.0330	0.	69.	0.55
MILE 71.40	865.44	422792.	8.09	52233.	1707.	11.93	0.0400	0.	68.	0.26
MILE 69.30	861.09	421532.	9.29	45394.	1651.	10.97	0.0340	0.	62.	0.31
MILE 67.20	858.84	419556.	6.05	69295.	4227.	10.53	0.0340	0.	68.	0.26
MILE 65.10	854.94	416429.	8.03	51828.	4949.	10.63	0.0320	0.	68.	0.44
MILE 63.00	853.41	413756.	4.97	83220.	3222.	8.84	0.0400	0.	72.	0.17
MILE 60.90	848.83	411726.	7.26	56733.	2894.	9.15	0.0450	0.	72.	0.29
MILE 58.80	840.76	409941.	8.30	49376.	2195.	8.70	0.0400	0.	68.	0.31
MILE 57.00	839.06	408698.	8.09	50523.	2314.	8.84	0.0200	0.	64.	0.31

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	55.00	836.54	407236.	9.49	42918.	2350.	8.80	0.0200	0.	63.	0.39
MILE	53.10	835.51	405724.	7.25	55928.	2798.	9.86	0.0200	0.	62.	0.29
MILE	51.00	834.17	403637.	7.58	53245.	3569.	9.90	0.0200	0.	65.	0.35
MILE	48.30	833.58	398922.	5.63	70894.	7306.	12.37	0.0200	0.	65.	0.32
MILE	46.20	832.96	393951.	6.21	63470.	7137.	12.04	0.0200	0.	71.	0.37
MILE	44.10	832.99	390201.	3.66	106515.	3335.	11.33	0.0300	0.	78.	0.11
MILE	43.70	831.60	389759.	9.62	40503.	3241.	13.95	0.0300	0.	79.	0.48
MILE	42.00	831.87	387868.	4.02	96433.	3210.	10.24	0.0300	0.	82.	0.13
MILE	39.10	830.02	384603.	6.98	55117.	3120.	13.27	0.0230	0.	79.	0.29
MILE	37.00	830.12	382575.	3.93	97395.	2161.	13.55	0.0280	0.	79.	0.10
MILE	36.00	829.30	381884.	7.07	54001.	1550.	13.79	0.0280	0.	80.	0.21
MILE	34.60	829.09	380878.	5.40	70586.	2254.	14.94	0.0280	0.	81.	0.17
MILE	33.60	829.35	379662.	2.31	164564.	4202.	14.40	0.0290	0.	86.	0.06
MILE	31.50	828.73	376689.	5.55	67926.	3279.	15.31	0.0250	0.	90.	0.21
MILE	30.10	828.53	375455.	4.99	75303.	1328.	14.46	0.0200	0.	88.	0.12
MILE	29.00	828.39	374775.	5.03	74551.	1887.	15.91	0.0200	0.	89.	0.14
MILE	27.30	828.22	373584.	5.01	74531.	1761.	16.28	0.0230	0.	91.	0.14
MILE	25.20	828.09	372176.	4.33	85919.	1714.	17.29	0.0230	0.	94.	0.11
MILE	23.10	827.78	370672.	4.88	75891.	1991.	15.98	0.0230	0.	98.	0.14

0DATE 10-21-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME	8.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL	
	INFLOW	DEPTH	FROUDE								
MILE	79.80	889.77	433333.	12.42	34877.	1051.	10.54	0.0290	0.	71.	0.38
MILE	77.70	887.35	432188.	9.65	44790.	1284.	11.54	0.0400	0.	77.	0.29
MILE	75.60	879.33	430406.	10.94	39346.	2743.	10.64	0.0400	0.	73.	0.51
MILE	73.50	868.45	428284.	12.64	33885.	2091.	11.07	0.0330	0.	69.	0.55
MILE	71.40	865.68	426802.	8.12	52573.	1716.	11.96	0.0400	0.	68.	0.26
MILE	69.30	861.32	425473.	9.32	45632.	1660.	10.99	0.0340	0.	63.	0.31
MILE	67.20	859.07	423362.	6.08	69658.	4249.	10.55	0.0340	0.	68.	0.26
MILE	65.10	855.15	419999.	8.07	52075.	4972.	10.64	0.0320	0.	68.	0.44
MILE	63.00	853.63	417134.	4.98	83845.	3231.	8.85	0.0400	0.	73.	0.17
MILE	60.90	849.04	414950.	7.26	57176.	2904.	9.16	0.0450	0.	73.	0.29
MILE	58.80	840.98	413013.	8.31	49682.	2206.	8.70	0.0400	0.	68.	0.31
MILE	57.00	839.29	411659.	8.09	50901.	2325.	8.85	0.0200	0.	64.	0.30
MILE	55.00	836.77	410068.	9.49	43210.	2363.	8.81	0.0200	0.	63.	0.39
MILE	53.10	835.74	408427.	7.26	56238.	2814.	9.88	0.0200	0.	62.	0.29
MILE	51.00	834.40	406169.	7.58	53552.	3588.	9.92	0.0200	0.	65.	0.35
MILE	48.30	833.81	401100.	5.63	71274.	7346.	12.40	0.0200	0.	65.	0.32
MILE	46.20	833.19	395771.	6.20	63835.	7174.	12.05	0.0200	0.	71.	0.37
MILE	44.10	833.23	391770.	3.66	107156.	3347.	11.34	0.0300	0.	78.	0.11
MILE	43.70	831.84	391301.	9.62	40689.	3255.	13.98	0.0300	0.	79.	0.48
MILE	42.00	832.11	389317.	4.01	97151.	3225.	10.25	0.0300	0.	82.	0.13
MILE	39.10	830.28	385914.	6.96	55429.	3136.	13.30	0.0230	0.	79.	0.29
MILE	37.00	830.37	383825.	3.92	97945.	2168.	13.58	0.0280	0.	79.	0.10
MILE	36.00	829.56	383117.	7.06	54295.	1555.	13.82	0.0280	0.	81.	0.21

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 466 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	34.60	829.35	382097.	5.39	70928.	2263.	14.97	0.0280	0.	81.	0.17
MILE	33.60	829.61	380858.	2.30	165383.	4222.	14.44	0.0290	0.	87.	0.06
MILE	31.50	828.99	377830.	5.54	68257.	3294.	15.33	0.0250	0.	90.	0.21
MILE	30.10	828.79	376583.	4.98	75682.	1332.	14.49	0.0200	0.	88.	0.12
MILE	29.00	828.66	375897.	5.02	74900.	1896.	15.94	0.0200	0.	89.	0.14
MILE	27.30	828.48	374695.	5.01	74858.	1768.	16.31	0.0230	0.	91.	0.14
MILE	25.20	828.35	373281.	4.33	86251.	1721.	17.33	0.0230	0.	94.	0.11
MILE	23.10	828.05	371770.	4.88	76236.	2000.	16.01	0.0230	0.	98.	0.14

ODATE 10-21-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	9.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL	
INFLOW	DEPTH	FROUDE									
MILE	79.80	890.09	437500.	12.45	35135.	1054.	10.55	0.0290	0.	71.	0.38
MILE	77.70	887.67	436351.	9.67	45116.	1287.	11.56	0.0400	0.	77.	0.29
MILE	75.60	879.63	434548.	10.97	39624.	2756.	10.66	0.0400	0.	73.	0.51
MILE	73.50	868.70	432375.	12.69	34077.	2102.	11.09	0.0330	0.	69.	0.56
MILE	71.40	865.94	430842.	8.14	52926.	1725.	11.99	0.0400	0.	68.	0.26
MILE	69.30	861.57	429461.	9.36	45880.	1669.	11.01	0.0340	0.	63.	0.31
MILE	67.20	859.31	427245.	6.10	70040.	4272.	10.57	0.0340	0.	69.	0.27
MILE	65.10	855.38	423704.	8.10	52334.	4996.	10.66	0.0320	0.	68.	0.44
MILE	63.00	853.86	420677.	4.98	84511.	3240.	8.87	0.0400	0.	73.	0.17
MILE	60.90	849.27	418368.	7.26	57650.	2915.	9.17	0.0450	0.	73.	0.29
MILE	58.80	841.22	416310.	8.32	50011.	2217.	8.71	0.0400	0.	68.	0.31
MILE	57.00	839.54	414867.	8.09	51308.	2337.	8.85	0.0200	0.	65.	0.30
MILE	55.00	837.01	413172.	9.49	43523.	2376.	8.81	0.0200	0.	64.	0.39
MILE	53.10	835.98	411427.	7.27	56569.	2830.	9.89	0.0200	0.	63.	0.29
MILE	51.00	834.64	409032.	7.59	53878.	3608.	9.95	0.0200	0.	65.	0.35
MILE	48.30	834.06	403676.	5.63	71675.	7388.	12.43	0.0200	0.	65.	0.32
MILE	46.20	833.44	398063.	6.20	64220.	7214.	12.07	0.0200	0.	72.	0.37
MILE	44.10	833.48	393861.	3.65	107834.	3359.	11.35	0.0300	0.	78.	0.11
MILE	43.70	832.09	393369.	9.62	40883.	3268.	14.00	0.0300	0.	79.	0.48
MILE	42.00	832.37	391311.	4.00	97903.	3241.	10.26	0.0300	0.	82.	0.13
MILE	39.10	830.54	387799.	6.96	55749.	3152.	13.32	0.0230	0.	80.	0.29
MILE	37.00	830.64	385660.	3.92	98508.	2176.	13.61	0.0280	0.	79.	0.10
MILE	36.00	829.83	384937.	7.05	54593.	1561.	13.85	0.0280	0.	81.	0.21
MILE	34.60	829.61	383903.	5.39	71275.	2271.	15.00	0.0280	0.	81.	0.17
MILE	33.60	829.88	382644.	2.30	166215.	4241.	14.47	0.0290	0.	87.	0.06
MILE	31.50	829.26	379570.	5.53	68592.	3310.	15.36	0.0250	0.	90.	0.21
MILE	30.10	829.06	378313.	4.97	76065.	1336.	14.52	0.0200	0.	88.	0.12
MILE	29.00	828.92	377622.	5.02	75250.	1905.	15.97	0.0200	0.	89.	0.14
MILE	27.30	828.75	376411.	5.01	75187.	1775.	16.34	0.0230	0.	92.	0.14
MILE	25.20	828.62	374988.	4.33	86584.	1727.	17.36	0.0230	0.	94.	0.11
MILE	23.10	828.31	373470.	4.88	76581.	2010.	16.04	0.0230	0.	98.	0.14

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

0DATE 10-21-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 10.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	890.41	441667.	12.48	35377.	1057.	10.55	0.0290	0.	72.	0.38
MILE 77.70	887.99	440514.	9.69	45446.	1290.	11.57	0.0400	0.	77.	0.29
MILE 75.60	879.92	438698.	10.99	39907.	2770.	10.68	0.0400	0.	73.	0.51
MILE 73.50	868.96	436488.	12.74	34273.	2114.	11.11	0.0330	0.	70.	0.56
MILE 71.40	866.20	434915.	8.16	53287.	1735.	12.02	0.0400	0.	68.	0.26
MILE 69.30	861.82	433491.	9.40	46137.	1679.	11.03	0.0340	0.	63.	0.32
MILE 67.20	859.56	431193.	6.12	70436.	4296.	10.59	0.0340	0.	69.	0.27
MILE 65.10	855.61	427507.	8.13	52604.	5022.	10.67	0.0320	0.	69.	0.44
MILE 63.00	854.10	424353.	4.98	85209.	3249.	8.89	0.0400	0.	73.	0.17
MILE 60.90	849.51	421945.	7.26	58149.	2926.	9.18	0.0450	0.	73.	0.29
MILE 58.80	841.47	419792.	8.34	50360.	2229.	8.71	0.0400	0.	68.	0.31
MILE 57.00	839.79	418278.	8.08	51739.	2350.	8.86	0.0200	0.	65.	0.30
MILE 55.00	837.27	416500.	9.50	43855.	2390.	8.81	0.0200	0.	64.	0.39
MILE 53.10	836.23	414670.	7.29	56916.	2847.	9.91	0.0200	0.	63.	0.29
MILE 51.00	834.89	412164.	7.60	54220.	3629.	9.97	0.0200	0.	66.	0.35
MILE 48.30	834.31	406576.	5.64	72094.	7432.	12.47	0.0200	0.	65.	0.32
MILE 46.20	833.70	400731.	6.20	64621.	7254.	12.10	0.0200	0.	72.	0.37
MILE 44.10	833.73	396367.	3.65	108541.	3371.	11.36	0.0300	0.	79.	0.11
MILE 43.70	832.34	395858.	9.64	41082.	3282.	14.03	0.0300	0.	79.	0.48
MILE 42.00	832.63	393740.	3.99	98684.	3258.	10.27	0.0300	0.	83.	0.13
MILE 39.10	830.81	390137.	6.96	56075.	3168.	13.35	0.0230	0.	80.	0.29
MILE 37.00	830.90	387955.	3.92	99083.	2184.	13.64	0.0280	0.	80.	0.10
MILE 36.00	830.10	387220.	7.05	54895.	1566.	13.88	0.0280	0.	81.	0.21
MILE 34.60	829.88	386176.	5.39	71625.	2279.	15.03	0.0280	0.	81.	0.17
MILE 33.60	830.15	384900.	2.30	167055.	4261.	14.51	0.0290	0.	87.	0.06
MILE 31.50	829.53	381786.	5.54	68930.	3325.	15.39	0.0250	0.	91.	0.21
MILE 30.10	829.33	380519.	4.98	76450.	1340.	14.54	0.0200	0.	89.	0.12
MILE 29.00	829.19	379823.	5.02	75603.	1914.	15.99	0.0200	0.	89.	0.14
MILE 27.30	829.02	378605.	5.01	75517.	1783.	16.37	0.0230	0.	92.	0.14
MILE 25.20	828.89	377175.	4.34	86919.	1734.	17.40	0.0230	0.	94.	0.11
MILE 23.10	828.58	375650.	4.88	76927.	2019.	16.07	0.0230	0.	99.	0.14

0DATE 10-21-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 11.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	890.73	445833.	12.51	35626.	1060.	10.56	0.0290	0.	72.	0.38
MILE 77.70	888.31	444642.	9.71	45782.	1294.	11.59	0.0400	0.	78.	0.29
MILE 75.60	880.23	442730.	11.02	40178.	2788.	10.68	0.0400	0.	74.	0.51
MILE 73.50	869.22	440547.	12.78	34473.	2126.	11.13	0.0330	0.	70.	0.56
MILE 71.40	866.47	438965.	8.18	53655.	1745.	12.06	0.0400	0.	69.	0.26

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 468 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	69.30	862.08	437520.	9.43	46399.	1689.	11.05	0.0340	0.	63.	0.32
MILE	67.20	859.82	435166.	6.14	70843.	4320.	10.61	0.0340	0.	69.	0.27
MILE	65.10	855.85	431379.	8.16	52882.	5048.	10.69	0.0320	0.	69.	0.44
MILE	63.00	854.34	428133.	4.98	85932.	3259.	8.90	0.0400	0.	73.	0.17
MILE	60.90	849.76	425650.	7.26	58667.	2937.	9.19	0.0450	0.	73.	0.29
MILE	58.80	841.73	423409.	8.35	50724.	2242.	8.72	0.0400	0.	69.	0.31
MILE	57.00	840.06	421805.	8.08	52178.	2363.	8.86	0.0200	0.	65.	0.30
MILE	55.00	837.53	419976.	9.50	44202.	2405.	8.81	0.0200	0.	64.	0.39
MILE	53.10	836.49	418088.	7.30	57278.	2864.	9.93	0.0200	0.	63.	0.29
MILE	51.00	835.15	415489.	7.61	54566.	3651.	9.99	0.0200	0.	66.	0.35
MILE	48.30	834.57	409716.	5.65	72526.	7477.	12.50	0.0200	0.	66.	0.32
MILE	46.20	833.96	403690.	6.21	65035.	7296.	12.12	0.0200	0.	72.	0.37
MILE	44.10	834.00	399198.	3.65	109273.	3384.	11.37	0.0300	0.	79.	0.11
MILE	43.70	832.60	398676.	9.66	41285.	3296.	14.06	0.0300	0.	80.	0.48
MILE	42.00	832.90	396509.	3.99	99487.	3274.	10.28	0.0300	0.	83.	0.13
MILE	39.10	831.08	392832.	6.96	56406.	3184.	13.38	0.0230	0.	80.	0.29
MILE	37.00	831.18	390616.	3.92	99666.	2193.	13.67	0.0280	0.	80.	0.10
MILE	36.00	830.37	389871.	7.06	55198.	1571.	13.91	0.0280	0.	81.	0.21
MILE	34.60	830.15	388816.	5.40	71978.	2288.	15.06	0.0280	0.	82.	0.17
MILE	33.60	830.42	387525.	2.31	167900.	4281.	14.55	0.0290	0.	88.	0.06
MILE	31.50	829.80	384378.	5.55	69270.	3341.	15.42	0.0250	0.	91.	0.21
MILE	30.10	829.60	383102.	4.99	76838.	1344.	14.57	0.0200	0.	89.	0.12
MILE	29.00	829.46	382402.	5.03	75958.	1924.	16.02	0.0200	0.	90.	0.14
MILE	27.30	829.29	381176.	5.03	75849.	1790.	16.40	0.0230	0.	92.	0.14
MILE	25.20	829.15	379740.	4.35	87254.	1740.	17.43	0.0230	0.	95.	0.11
MILE	23.10	828.85	378209.	4.89	77274.	2029.	16.09	0.0230	0.	99.	0.14

0DATE 10-21-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 12.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	891.06	450000.	12.54	35881.	1062.	10.56	0.0290	0.	72.	0.38
MILE	77.70	888.64	448806.	9.73	46126.	1297.	11.60	0.0400	0.	78.	0.29
MILE	75.60	880.54	446883.	11.05	40454.	2808.	10.69	0.0400	0.	74.	0.51
MILE	73.50	869.49	444670.	12.82	34680.	2138.	11.14	0.0330	0.	70.	0.56
MILE	71.40	866.74	443057.	8.20	54032.	1755.	12.09	0.0400	0.	69.	0.26
MILE	69.30	862.35	441583.	9.46	46668.	1699.	11.08	0.0340	0.	64.	0.32
MILE	67.20	860.08	439173.	6.16	71255.	4348.	10.64	0.0340	0.	69.	0.27
MILE	65.10	856.09	435294.	8.19	53168.	5075.	10.71	0.0320	0.	69.	0.45
MILE	63.00	854.59	431968.	4.98	86675.	3269.	8.92	0.0400	0.	74.	0.17
MILE	60.90	850.01	429398.	7.25	59199.	2948.	9.20	0.0450	0.	73.	0.29
MILE	58.80	842.00	427118.	8.36	51106.	2255.	8.73	0.0400	0.	69.	0.31
MILE	57.00	840.33	425480.	8.09	52588.	2377.	8.86	0.0200	0.	66.	0.30
MILE	55.00	837.80	423581.	9.51	44560.	2420.	8.82	0.0200	0.	64.	0.39
MILE	53.10	836.76	421626.	7.31	57650.	2882.	9.94	0.0200	0.	63.	0.29
MILE	51.00	835.42	418953.	7.63	54915.	3673.	10.02	0.0200	0.	66.	0.35
MILE	48.30	834.84	413033.	5.66	72969.	7523.	12.54	0.0200	0.	66.	0.32

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 46.20	834.23	406861.	6.22	65459.	7339.	12.14	0.0200	0.	72.	0.37
MILE 44.10	834.27	402267.	3.66	110023.	3397.	11.38	0.0300	0.	79.	0.11
MILE 43.70	832.86	401734.	9.68	41492.	3311.	14.09	0.0300	0.	80.	0.48
MILE 42.00	833.17	399532.	3.98	100310.	3291.	10.29	0.0300	0.	83.	0.13
MILE 39.10	831.35	395799.	6.98	56741.	3201.	13.41	0.0230	0.	80.	0.29
MILE 37.00	831.45	393557.	3.93	100258.	2201.	13.70	0.0280	0.	80.	0.10
MILE 36.00	830.64	392805.	7.08	55505.	1577.	13.94	0.0280	0.	82.	0.21
MILE 34.60	830.42	391743.	5.42	72334.	2296.	15.09	0.0280	0.	82.	0.17
MILE 33.60	830.69	390441.	2.31	168752.	4301.	14.59	0.0290	0.	88.	0.07
MILE 31.50	830.07	387266.	5.56	69613.	3357.	15.45	0.0250	0.	91.	0.22
MILE 30.10	829.87	385983.	5.00	77227.	1348.	14.60	0.0200	0.	89.	0.12
MILE 29.00	829.73	385279.	5.05	76314.	1933.	16.05	0.0200	0.	90.	0.14
MILE 27.30	829.55	384046.	5.04	76181.	1798.	16.43	0.0230	0.	92.	0.14
MILE 25.20	829.42	382602.	4.37	87590.	1747.	17.47	0.0230	0.	95.	0.11
MILE 23.10	829.11	381063.	4.91	77621.	2038.	16.12	0.0230	0.	99.	0.14

ODATE 10-21-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 13.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	891.39	454167.	12.57	36137.	1065.	10.57	0.0290	0.	73.	0.38
MILE 77.70	888.97	452975.	9.75	46471.	1301.	11.62	0.0400	0.	78.	0.29
MILE 75.60	880.85	451048.	11.07	40732.	2827.	10.70	0.0400	0.	74.	0.51
MILE 73.50	869.76	448813.	12.86	34890.	2150.	11.16	0.0330	0.	71.	0.56
MILE 71.40	867.02	447175.	8.22	54416.	1765.	12.12	0.0400	0.	69.	0.26
MILE 69.30	862.62	445672.	9.49	46941.	1709.	11.10	0.0340	0.	64.	0.32
MILE 67.20	860.34	443200.	6.18	71663.	4383.	10.66	0.0340	0.	70.	0.27
MILE 65.10	856.35	439202.	8.22	53461.	5102.	10.73	0.0320	0.	69.	0.45
MILE 63.00	854.85	435754.	4.98	87444.	3279.	8.94	0.0400	0.	74.	0.17
MILE 60.90	850.27	433100.	7.26	59665.	2961.	9.21	0.0450	0.	74.	0.28
MILE 58.80	842.28	430807.	8.37	51495.	2268.	8.74	0.0400	0.	69.	0.31
MILE 57.00	840.60	429152.	8.10	53008.	2391.	8.86	0.0200	0.	66.	0.30
MILE 55.00	838.08	427227.	9.51	44927.	2435.	8.82	0.0200	0.	65.	0.39
MILE 53.10	837.03	425238.	7.33	58030.	2900.	9.96	0.0200	0.	64.	0.29
MILE 51.00	835.69	422519.	7.64	55271.	3695.	10.04	0.0200	0.	66.	0.35
MILE 48.30	835.12	416499.	5.67	73417.	7570.	12.58	0.0200	0.	66.	0.32
MILE 46.20	834.50	410215.	6.23	65890.	7382.	12.16	0.0200	0.	73.	0.37
MILE 44.10	834.54	405543.	3.66	110789.	3410.	11.39	0.0300	0.	79.	0.11
MILE 43.70	833.13	405002.	9.71	41702.	3326.	14.13	0.0300	0.	80.	0.48
MILE 42.00	833.45	402766.	3.98	101148.	3309.	10.30	0.0300	0.	83.	0.13
MILE 39.10	831.62	398980.	6.99	57079.	3218.	13.43	0.0230	0.	81.	0.29
MILE 37.00	831.73	396711.	3.93	100855.	2209.	13.73	0.0280	0.	80.	0.10
MILE 36.00	830.91	395951.	7.09	55813.	1582.	13.96	0.0280	0.	82.	0.21
MILE 34.60	830.70	394881.	5.43	72691.	2305.	15.11	0.0280	0.	82.	0.17
MILE 33.60	830.97	393569.	2.32	169610.	4321.	14.63	0.0290	0.	88.	0.07
MILE 31.50	830.34	390365.	5.58	69958.	3373.	15.47	0.0250	0.	92.	0.22
MILE 30.10	830.14	389074.	5.01	77611.	1352.	14.62	0.0200	0.	89.	0.12

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	29.00	830.00	388367.	5.07	76671.	1942.	16.08	0.0200	0.	90.	0.14
MILE	27.30	829.82	387127.	5.06	76515.	1805.	16.46	0.0230	0.	93.	0.14
MILE	25.20	829.69	385678.	4.39	87926.	1753.	17.50	0.0230	0.	95.	0.11
MILE	23.10	829.38	384134.	4.93	77969.	2048.	16.15	0.0230	0.	99.	0.14

0DATE 10-21-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 14.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	891.72	458333.	12.59	36395.	1068.	10.57	0.0290	0.	73.	0.38
MILE	77.70	889.30	457143.	9.76	46814.	1305.	11.63	0.0400	0.	79.	0.29
MILE	75.60	881.16	455208.	11.10	41012.	2847.	10.71	0.0400	0.	75.	0.52
MILE	73.50	870.03	452934.	12.90	35102.	2163.	11.18	0.0330	0.	71.	0.56
MILE	71.40	867.30	451295.	8.23	54805.	1775.	12.15	0.0400	0.	70.	0.26
MILE	69.30	862.89	449773.	9.53	47220.	1720.	11.12	0.0340	0.	64.	0.32
MILE	67.20	860.61	447248.	6.20	72081.	4419.	10.69	0.0340	0.	70.	0.27
MILE	65.10	856.60	443155.	8.24	53763.	5130.	10.74	0.0320	0.	70.	0.45
MILE	63.00	855.12	439622.	4.98	88198.	3290.	8.96	0.0400	0.	74.	0.17
MILE	60.90	850.54	436938.	7.26	60147.	2973.	9.23	0.0450	0.	74.	0.28
MILE	58.80	842.55	434609.	8.38	51890.	2282.	8.75	0.0400	0.	69.	0.31
MILE	57.00	840.87	432922.	8.10	53437.	2405.	8.86	0.0200	0.	66.	0.30
MILE	55.00	838.35	430960.	9.51	45301.	2450.	8.83	0.0200	0.	65.	0.39
MILE	53.10	837.30	428932.	7.34	58415.	2919.	9.98	0.0200	0.	64.	0.29
MILE	51.00	835.96	426161.	7.66	55633.	3718.	10.06	0.0200	0.	67.	0.35
MILE	48.30	835.39	420041.	5.69	73868.	7617.	12.61	0.0200	0.	66.	0.32
MILE	46.20	834.78	413660.	6.24	66326.	7426.	12.18	0.0200	0.	73.	0.37
MILE	44.10	834.82	408928.	3.67	111565.	3423.	11.40	0.0300	0.	80.	0.11
MILE	43.70	833.40	408380.	9.74	41913.	3340.	14.16	0.0300	0.	80.	0.48
MILE	42.00	833.72	406122.	3.98	101998.	3326.	10.31	0.0300	0.	84.	0.13
MILE	39.10	831.90	402301.	7.01	57419.	3234.	13.46	0.0230	0.	81.	0.29
MILE	37.00	832.00	400018.	3.94	101456.	2218.	13.75	0.0280	0.	81.	0.10
MILE	36.00	831.18	399254.	7.11	56123.	1588.	13.99	0.0280	0.	82.	0.21
MILE	34.60	830.97	398180.	5.45	73050.	2313.	15.14	0.0280	0.	82.	0.17
MILE	33.60	831.24	396862.	2.33	170470.	4342.	14.66	0.0290	0.	88.	0.07
MILE	31.50	830.61	393644.	5.60	70305.	3389.	15.50	0.0250	0.	92.	0.22
MILE	30.10	830.41	392347.	5.03	77989.	1356.	14.65	0.0200	0.	90.	0.12
MILE	29.00	830.27	391637.	5.08	77060.	1951.	16.10	0.0200	0.	91.	0.14
MILE	27.30	830.09	390392.	5.08	76854.	1813.	16.49	0.0230	0.	93.	0.14
MILE	25.20	829.96	388937.	4.41	88263.	1760.	17.53	0.0230	0.	95.	0.11
MILE	23.10	829.65	387386.	4.95	78317.	2057.	16.17	0.0230	0.	100.	0.14

0DATE 10-21-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

TIME 15.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	892.05	462500.	12.62	36659.	1071.	10.57	0.0290	0.	73.	0.38
MILE 77.70	889.62	461301.	9.78	47157.	1308.	11.65	0.0400	0.	79.	0.29
MILE 75.60	881.46	459338.	11.12	41292.	2866.	10.71	0.0400	0.	75.	0.52
MILE 73.50	870.31	457019.	12.94	35306.	2176.	11.20	0.0330	0.	71.	0.57
MILE 71.40	867.58	455361.	8.25	55198.	1786.	12.19	0.0400	0.	70.	0.26
MILE 69.30	863.16	453826.	9.55	47502.	1730.	11.15	0.0340	0.	64.	0.32
MILE 67.20	860.89	451278.	6.22	72505.	4455.	10.71	0.0340	0.	70.	0.27
MILE 65.10	856.86	447137.	8.27	54070.	5159.	10.76	0.0320	0.	70.	0.45
MILE 63.00	855.39	443562.	4.99	88921.	3300.	8.98	0.0400	0.	74.	0.17
MILE 60.90	850.81	440850.	7.27	60639.	2985.	9.24	0.0450	0.	74.	0.28
MILE 58.80	842.83	438491.	8.39	52294.	2295.	8.75	0.0400	0.	70.	0.31
MILE 57.00	841.15	436780.	8.11	53875.	2420.	8.86	0.0200	0.	66.	0.30
MILE 55.00	838.63	434789.	9.52	45684.	2466.	8.83	0.0200	0.	65.	0.39
MILE 53.10	837.58	432731.	7.36	58807.	2937.	10.00	0.0200	0.	64.	0.29
MILE 51.00	836.24	429918.	7.68	55999.	3741.	10.09	0.0200	0.	67.	0.35
MILE 48.30	835.67	423707.	5.70	74324.	7665.	12.65	0.0200	0.	67.	0.32
MILE 46.20	835.06	417226.	6.25	66765.	7470.	12.20	0.0200	0.	73.	0.37
MILE 44.10	835.10	412440.	3.67	112336.	3437.	11.41	0.0300	0.	80.	0.11
MILE 43.70	833.66	411885.	9.78	42126.	3355.	14.19	0.0300	0.	81.	0.49
MILE 42.00	834.00	409606.	3.98	102858.	3344.	10.32	0.0300	0.	84.	0.13
MILE 39.10	832.17	405749.	7.02	57761.	3251.	13.49	0.0230	0.	81.	0.29
MILE 37.00	832.28	403445.	3.95	102060.	2226.	13.78	0.0280	0.	81.	0.10
MILE 36.00	831.46	402675.	7.14	56434.	1593.	14.02	0.0280	0.	82.	0.21
MILE 34.60	831.24	401594.	5.47	73409.	2322.	15.17	0.0280	0.	83.	0.17
MILE 33.60	831.52	400264.	2.34	171334.	4362.	14.70	0.0290	0.	89.	0.07
MILE 31.50	830.89	397019.	5.62	70652.	3405.	15.52	0.0250	0.	92.	0.22
MILE 30.10	830.68	395712.	5.05	78369.	1360.	14.67	0.0200	0.	90.	0.12
MILE 29.00	830.55	394999.	5.10	77451.	1961.	16.12	0.0200	0.	91.	0.14
MILE 27.30	830.36	393746.	5.10	77205.	1820.	16.51	0.0230	0.	93.	0.14
MILE 25.20	830.23	392284.	4.43	88603.	1767.	17.57	0.0230	0.	96.	0.11
MILE 23.10	829.92	390728.	4.97	78666.	2067.	16.20	0.0230	0.	100.	0.14

0DATE 10-21-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 16.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	892.38	466667.	12.64	36924.	1074.	10.58	0.0290	0.	74.	0.38
MILE 77.70	889.95	465469.	9.80	47502.	1311.	11.67	0.0400	0.	79.	0.29
MILE 75.60	881.77	463502.	11.15	41575.	2886.	10.72	0.0400	0.	75.	0.52
MILE 73.50	870.59	461165.	12.99	35512.	2190.	11.21	0.0330	0.	71.	0.57
MILE 71.40	867.87	459491.	8.26	55596.	1796.	12.22	0.0400	0.	70.	0.26
MILE 69.30	863.44	457942.	9.58	47788.	1741.	11.17	0.0340	0.	65.	0.32
MILE 67.20	861.16	455366.	6.24	72934.	4492.	10.74	0.0340	0.	70.	0.27
MILE 65.10	857.13	451169.	8.30	54382.	5188.	10.78	0.0320	0.	70.	0.45

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Appendix E		Checked	ACM

MILE 63.00	855.66	447564.	4.99	89651.	3311.	9.00	0.0400	0.	75.	0.17
MILE 60.90	851.09	444822.	7.28	61138.	2998.	9.26	0.0450	0.	75.	0.28
MILE 58.80	843.11	442440.	8.39	52704.	2309.	8.76	0.0400	0.	70.	0.31
MILE 57.00	841.43	440706.	8.11	54321.	2434.	8.86	0.0200	0.	67.	0.30
MILE 55.00	838.92	438688.	9.52	46073.	2481.	8.84	0.0200	0.	65.	0.39
MILE 53.10	837.86	436598.	7.37	59204.	2956.	10.02	0.0200	0.	65.	0.29
MILE 51.00	836.51	433744.	7.69	56369.	3764.	10.11	0.0200	0.	67.	0.35
MILE 48.30	835.95	427447.	5.72	74784.	7713.	12.69	0.0200	0.	67.	0.32
MILE 46.20	835.34	420888.	6.26	67199.	7514.	12.22	0.0200	0.	74.	0.37
MILE 44.10	835.38	416039.	3.68	113092.	3450.	11.42	0.0300	0.	80.	0.11
MILE 43.70	833.93	415480.	9.81	42340.	3370.	14.22	0.0300	0.	81.	0.49
MILE 42.00	834.28	413178.	3.98	103729.	3361.	10.33	0.0300	0.	84.	0.13
MILE 39.10	832.45	409284.	7.04	58105.	3268.	13.52	0.0230	0.	81.	0.29
MILE 37.00	832.56	406962.	3.96	102668.	2235.	13.81	0.0280	0.	81.	0.10
MILE 36.00	831.73	406187.	7.16	56747.	1599.	14.05	0.0280	0.	83.	0.21
MILE 34.60	831.52	405101.	5.49	73771.	2330.	15.20	0.0280	0.	83.	0.17
MILE 33.60	831.80	403763.	2.34	172201.	4382.	14.74	0.0290	0.	89.	0.07
MILE 31.50	831.16	400494.	5.64	71001.	3421.	15.55	0.0250	0.	92.	0.22
MILE 30.10	830.96	399184.	5.07	78749.	1364.	14.70	0.0200	0.	90.	0.12
MILE 29.00	830.82	398465.	5.12	77843.	1970.	16.14	0.0200	0.	91.	0.14
MILE 27.30	830.63	397205.	5.12	77556.	1827.	16.54	0.0230	0.	94.	0.14
MILE 25.20	830.50	395736.	4.45	88945.	1773.	17.60	0.0230	0.	96.	0.11
MILE 23.10	830.18	394170.	4.99	79004.	2077.	16.23	0.0230	0.	100.	0.14

ODATE 10-21-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 17.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	892.72	470833.	12.66	37196.	1077.	10.59	0.0290	0.	74.	0.38
MILE 77.70	890.27	469612.	9.82	47838.	1315.	11.68	0.0400	0.	80.	0.29
MILE 75.60	882.09	467669.	11.17	41863.	2905.	10.73	0.0400	0.	76.	0.52
MILE 73.50	870.87	465331.	13.03	35721.	2204.	11.23	0.0330	0.	72.	0.57
MILE 71.40	868.16	463649.	8.28	55998.	1807.	12.26	0.0400	0.	70.	0.26
MILE 69.30	863.72	462088.	9.61	48078.	1752.	11.19	0.0340	0.	65.	0.32
MILE 67.20	861.44	459486.	6.26	73368.	4529.	10.76	0.0340	0.	71.	0.27
MILE 65.10	857.39	455249.	8.32	54698.	5217.	10.80	0.0320	0.	70.	0.45
MILE 63.00	855.93	451608.	5.00	90388.	3322.	9.02	0.0400	0.	75.	0.17
MILE 60.90	851.36	448849.	7.28	61641.	3011.	9.27	0.0450	0.	75.	0.28
MILE 58.80	843.40	446448.	8.40	53119.	2322.	8.77	0.0400	0.	70.	0.31
MILE 57.00	841.71	444691.	8.12	54775.	2449.	8.86	0.0200	0.	67.	0.30
MILE 55.00	839.20	442644.	9.53	46467.	2497.	8.84	0.0200	0.	66.	0.39
MILE 53.10	838.14	440526.	7.39	59605.	2975.	10.03	0.0200	0.	65.	0.29
MILE 51.00	836.79	437640.	7.71	56743.	3787.	10.13	0.0200	0.	68.	0.35
MILE 48.30	836.23	431267.	5.73	75247.	7762.	12.73	0.0200	0.	67.	0.32
MILE 46.20	835.62	424632.	6.28	67638.	7559.	12.25	0.0200	0.	74.	0.37
MILE 44.10	835.66	419732.	3.69	113856.	3464.	11.43	0.0300	0.	80.	0.11
MILE 43.70	834.21	419167.	9.85	42555.	3385.	14.25	0.0300	0.	81.	0.49

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	42.00	834.57	416844.	3.98	104610.	3379.	10.34	0.0300	0.	85.	0.13
MILE	39.10	832.73	412913.	7.06	58451.	3285.	13.54	0.0230	0.	82.	0.30
MILE	37.00	832.84	410574.	3.98	103280.	2243.	13.84	0.0280	0.	82.	0.10
MILE	36.00	832.01	409795.	7.18	57062.	1604.	14.08	0.0280	0.	83.	0.21
MILE	34.60	831.79	408703.	5.51	74134.	2339.	15.23	0.0280	0.	83.	0.17
MILE	33.60	832.08	407357.	2.35	173071.	4403.	14.78	0.0290	0.	89.	0.07
MILE	31.50	831.43	404067.	5.66	71352.	3437.	15.57	0.0250	0.	93.	0.22
MILE	30.10	831.23	402749.	5.09	79132.	1368.	14.73	0.0200	0.	90.	0.12
MILE	29.00	831.09	402026.	5.14	78237.	1979.	16.15	0.0200	0.	91.	0.14
MILE	27.30	830.90	400761.	5.14	77908.	1835.	16.56	0.0230	0.	94.	0.14
MILE	25.20	830.77	399285.	4.47	89287.	1780.	17.63	0.0230	0.	96.	0.11
MILE	23.10	830.45	397713.	5.01	79338.	2086.	16.26	0.0230	0.	100.	0.14

0DATE 10-21-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 18.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	893.05	475000.	12.68	37469.	1080.	10.59	0.0290	0.	74.	0.38
MILE	77.70	890.60	473788.	9.84	48174.	1319.	11.68	0.0400	0.	80.	0.29
MILE	75.60	882.40	471855.	11.19	42154.	2925.	10.74	0.0400	0.	76.	0.52
MILE	73.50	871.15	469518.	13.07	35933.	2217.	11.24	0.0330	0.	72.	0.57
MILE	71.40	868.44	467831.	8.29	56403.	1817.	12.29	0.0400	0.	71.	0.26
MILE	69.30	864.00	466263.	9.64	48371.	1763.	11.22	0.0340	0.	65.	0.32
MILE	67.20	861.72	463648.	6.28	73806.	4566.	10.79	0.0340	0.	71.	0.28
MILE	65.10	857.66	459385.	8.35	55018.	5246.	10.82	0.0320	0.	71.	0.45
MILE	63.00	856.20	455722.	5.00	91134.	3333.	9.04	0.0400	0.	75.	0.17
MILE	60.90	851.64	452951.	7.29	62152.	3023.	9.29	0.0450	0.	75.	0.28
MILE	58.80	843.68	450529.	8.41	53546.	2336.	8.78	0.0400	0.	71.	0.31
MILE	57.00	842.00	448748.	8.12	55242.	2464.	8.87	0.0200	0.	67.	0.30
MILE	55.00	839.48	446691.	9.53	46864.	2512.	8.85	0.0200	0.	66.	0.39
MILE	53.10	838.41	444540.	7.41	60007.	2993.	10.05	0.0200	0.	65.	0.29
MILE	51.00	837.07	441608.	7.73	57118.	3810.	10.16	0.0200	0.	68.	0.35
MILE	48.30	836.51	435156.	5.75	75712.	7810.	12.76	0.0200	0.	68.	0.33
MILE	46.20	835.90	428442.	6.29	68079.	7603.	12.27	0.0200	0.	74.	0.37
MILE	44.10	835.94	423488.	3.69	114627.	3477.	11.44	0.0300	0.	81.	0.11
MILE	43.70	834.48	422919.	9.89	42771.	3400.	14.28	0.0300	0.	81.	0.49
MILE	42.00	834.85	420578.	3.99	105500.	3397.	10.35	0.0300	0.	85.	0.13
MILE	39.10	833.01	416620.	7.09	58799.	3302.	13.57	0.0230	0.	82.	0.30
MILE	37.00	833.12	414269.	3.99	103895.	2252.	13.87	0.0280	0.	82.	0.10
MILE	36.00	832.29	413486.	7.21	57377.	1609.	14.10	0.0280	0.	83.	0.21
MILE	34.60	832.07	412390.	5.54	74498.	2348.	15.26	0.0280	0.	84.	0.17
MILE	33.60	832.35	411037.	2.36	173944.	4423.	14.82	0.0290	0.	89.	0.07
MILE	31.50	831.71	407731.	5.69	71704.	3453.	15.60	0.0250	0.	93.	0.22
MILE	30.10	831.50	406408.	5.11	79515.	1372.	14.75	0.0200	0.	91.	0.12
MILE	29.00	831.36	405683.	5.16	78632.	1988.	16.17	0.0200	0.	92.	0.14
MILE	27.30	831.17	404411.	5.17	78261.	1842.	16.59	0.0230	0.	94.	0.14
MILE	25.20	831.04	402930.	4.50	89630.	1786.	17.67	0.0230	0.	97.	0.11

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 474 of 665
Subject: SOCH Model Calibration, Melton Hill			Prepped
Appendix E			Checked
			JAW
			ACM

MILE 23.10 830.72 401351. 5.04 79673. 2096. 16.29 0.0230 0. 101. 0.14

ODATE 10-21-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 19.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80 893.38 479167. 12.70 37740. 1083. 10.60 0.0290 0. 75. 0.38
MILE 77.70 890.92 477965. 9.85 48508. 1322. 11.69 0.0400 0. 80. 0.29
MILE 75.60 882.71 476044. 11.22 42446. 2944. 10.75 0.0400 0. 76. 0.52
MILE 73.50 871.43 473710. 13.10 36148. 2231. 11.26 0.0330 0. 72. 0.57
MILE 71.40 868.73 472023. 8.31 56810. 1828. 12.32 0.0400 0. 71. 0.26
MILE 69.30 864.29 470454. 9.67 48665. 1774. 11.24 0.0340 0. 66. 0.33
MILE 67.20 862.00 467826. 6.30 74247. 4603. 10.81 0.0340 0. 71. 0.28
MILE 65.10 857.93 463547. 8.38 55340. 5275. 10.84 0.0320 0. 71. 0.46
MILE 63.00 856.48 459872. 5.00 91889. 3343. 9.07 0.0400 0. 75. 0.17
MILE 60.90 851.92 457096. 7.29 62670. 3036. 9.30 0.0450 0. 75. 0.28
MILE 58.80 843.97 454663. 8.42 53979. 2350. 8.79 0.0400 0. 71. 0.31
MILE 57.00 842.29 452867. 8.13 55718. 2479. 8.87 0.0200 0. 67. 0.30
MILE 55.00 839.77 450789. 9.54 47268. 2528. 8.85 0.0200 0. 66. 0.39
MILE 53.10 838.70 448612. 7.43 60415. 3012. 10.07 0.0200 0. 65. 0.29
MILE 51.00 837.35 445656. 7.75 57496. 3833. 10.18 0.0200 0. 68. 0.35
MILE 48.30 836.79 439126. 5.76 76178. 7858. 12.80 0.0200 0. 68. 0.33
MILE 46.20 836.18 432331. 6.31 68522. 7648. 12.29 0.0200 0. 74. 0.37
MILE 44.10 836.23 427322. 3.70 115404. 3491. 11.45 0.0300 0. 81. 0.11
MILE 43.70 834.75 426746. 9.93 42988. 3415. 14.31 0.0300 0. 82. 0.49
MILE 42.00 835.13 424377. 3.99 106373. 3414. 10.36 0.0300 0. 85. 0.13
MILE 39.10 833.29 420394. 7.11 59148. 3319. 13.60 0.0230 0. 82. 0.30
MILE 37.00 833.40 418029. 4.00 104512. 2260. 13.90 0.0280 0. 82. 0.10
MILE 36.00 832.56 417242. 7.23 57693. 1615. 14.13 0.0280 0. 84. 0.21
MILE 34.60 832.34 416141. 5.56 74863. 2356. 15.29 0.0280 0. 84. 0.17
MILE 33.60 832.63 414780. 2.37 174817. 4444. 14.86 0.0290 0. 90. 0.07
MILE 31.50 831.98 411455. 5.71 72056. 3469. 15.62 0.0250 0. 93. 0.22
MILE 30.10 831.77 410124. 5.13 79899. 1376. 14.78 0.0200 0. 91. 0.12
MILE 29.00 831.63 409394. 5.18 79028. 1998. 16.19 0.0200 0. 92. 0.15
MILE 27.30 831.45 408115. 5.19 78615. 1850. 16.61 0.0230 0. 94. 0.14
MILE 25.20 831.30 406625. 4.52 89973. 1793. 17.70 0.0230 0. 97. 0.11
MILE 23.10 830.98 405038. 5.06 80008. 2105. 16.31 0.0230 0. 101. 0.14

ODATE 10-21-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 20.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80 893.71 483333. 12.72 38011. 1086. 10.60 0.0290 0. 75. 0.38

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 475 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 77.70	891.25	482140.	9.87	48841.	1326.	11.70	0.0400	0.	81.	0.29
MILE 75.60	883.02	480231.	11.24	42738.	2964.	10.75	0.0400	0.	77.	0.52
MILE 73.50	871.72	477900.	13.14	36363.	2245.	11.28	0.0330	0.	73.	0.58
MILE 71.40	869.02	476214.	8.32	57216.	1838.	12.36	0.0400	0.	71.	0.26
MILE 69.30	864.57	474646.	9.69	48960.	1784.	11.26	0.0340	0.	66.	0.33
MILE 67.20	862.28	472011.	6.32	74689.	4641.	10.84	0.0340	0.	72.	0.28
MILE 65.10	858.20	467723.	8.40	55664.	5305.	10.86	0.0320	0.	71.	0.46
MILE 63.00	856.75	464042.	5.01	92648.	3354.	9.09	0.0400	0.	76.	0.17
MILE 60.90	852.20	461264.	7.30	63192.	3049.	9.32	0.0450	0.	76.	0.28
MILE 58.80	844.26	458820.	8.43	54416.	2364.	8.80	0.0400	0.	71.	0.31
MILE 57.00	842.58	456990.	8.13	56199.	2494.	8.87	0.0200	0.	68.	0.30
MILE 55.00	840.05	454854.	9.54	47669.	2543.	8.86	0.0200	0.	67.	0.39
MILE 53.10	838.98	452690.	7.44	60827.	3031.	10.09	0.0200	0.	66.	0.29
MILE 51.00	837.63	449725.	7.77	57876.	3857.	10.21	0.0200	0.	68.	0.35
MILE 48.30	837.08	443125.	5.78	76646.	7907.	12.84	0.0200	0.	68.	0.33
MILE 46.20	836.46	436260.	6.33	68968.	7693.	12.31	0.0200	0.	75.	0.37
MILE 44.10	836.51	431206.	3.71	116188.	3505.	11.45	0.0300	0.	81.	0.11
MILE 43.70	835.02	430626.	9.97	43205.	3430.	14.34	0.0300	0.	82.	0.49
MILE 42.00	835.42	428237.	3.99	107225.	3432.	10.37	0.0300	0.	85.	0.13
MILE 39.10	833.57	424218.	7.13	59498.	3336.	13.63	0.0230	0.	83.	0.30
MILE 37.00	833.69	421833.	4.01	105132.	2269.	13.93	0.0280	0.	82.	0.10
MILE 36.00	832.84	421041.	7.26	58010.	1620.	14.16	0.0280	0.	84.	0.21
MILE 34.60	832.62	419933.	5.58	75228.	2365.	15.32	0.0280	0.	84.	0.17
MILE 33.60	832.91	418564.	2.38	175692.	4464.	14.90	0.0290	0.	90.	0.07
MILE 31.50	832.25	415216.	5.73	72410.	3485.	15.65	0.0250	0.	93.	0.22
MILE 30.10	832.05	413879.	5.16	80285.	1380.	14.80	0.0200	0.	91.	0.12
MILE 29.00	831.91	413147.	5.20	79425.	2007.	16.21	0.0200	0.	92.	0.15
MILE 27.30	831.72	411861.	5.22	78969.	1857.	16.64	0.0230	0.	95.	0.14
MILE 25.20	831.57	410366.	4.54	90316.	1799.	17.73	0.0230	0.	97.	0.11
MILE 23.10	831.25	408771.	5.09	80343.	2115.	16.34	0.0230	0.	101.	0.15

ODATE 10-21-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 21.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	894.03	487500.	12.73	38281.	1089.	10.61	0.0290	0.	75.	0.38
MILE 77.70	891.56	486315.	9.89	49174.	1329.	11.71	0.0400	0.	81.	0.29
MILE 75.60	883.33	484415.	11.26	43030.	2983.	10.76	0.0400	0.	77.	0.52
MILE 73.50	872.00	482086.	13.18	36578.	2259.	11.29	0.0330	0.	73.	0.58
MILE 71.40	869.31	480399.	8.34	57622.	1849.	12.39	0.0400	0.	72.	0.26
MILE 69.30	864.85	478829.	9.72	49255.	1795.	11.29	0.0340	0.	66.	0.33
MILE 67.20	862.56	476184.	6.34	75131.	4678.	10.86	0.0340	0.	72.	0.28
MILE 65.10	858.47	471881.	8.43	55988.	5334.	10.88	0.0320	0.	71.	0.46
MILE 63.00	857.03	468181.	5.01	93408.	3365.	9.11	0.0400	0.	76.	0.17
MILE 60.90	852.48	465390.	7.30	63715.	3062.	9.33	0.0450	0.	76.	0.28
MILE 58.80	844.55	462918.	8.44	54856.	2378.	8.81	0.0400	0.	71.	0.31
MILE 57.00	842.87	461060.	8.13	56686.	2509.	8.88	0.0200	0.	68.	0.30

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 476 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	55.00	840.34	458902.	9.55	48039.	2555.	8.86	0.0200	0.	67.	0.39
MILE	53.10	839.26	456699.	7.46	61242.	3051.	10.11	0.0200	0.	66.	0.29
MILE	51.00	837.92	453706.	7.79	58259.	3880.	10.23	0.0200	0.	69.	0.35
MILE	48.30	837.36	447070.	5.80	77116.	7956.	12.88	0.0200	0.	68.	0.33
MILE	46.20	836.74	440179.	6.34	69417.	7737.	12.33	0.0200	0.	75.	0.37
MILE	44.10	836.79	435107.	3.72	116977.	3519.	11.46	0.0300	0.	82.	0.11
MILE	43.70	835.29	434526.	10.01	43422.	3445.	14.37	0.0300	0.	82.	0.50
MILE	42.00	835.70	432129.	4.00	108085.	3450.	10.38	0.0300	0.	86.	0.13
MILE	39.10	833.85	428088.	7.15	59850.	3353.	13.66	0.0230	0.	83.	0.30
MILE	37.00	833.97	425694.	4.03	105753.	2278.	13.96	0.0280	0.	83.	0.10
MILE	36.00	833.11	424900.	7.28	58328.	1626.	14.19	0.0280	0.	84.	0.21
MILE	34.60	832.90	423788.	5.61	75595.	2373.	15.35	0.0280	0.	84.	0.18
MILE	33.60	833.19	422413.	2.39	176569.	4485.	14.93	0.0290	0.	90.	0.07
MILE	31.50	832.53	419049.	5.76	72764.	3501.	15.67	0.0250	0.	94.	0.22
MILE	30.10	832.32	417705.	5.18	80671.	1384.	14.83	0.0200	0.	92.	0.12
MILE	29.00	832.18	416970.	5.22	79824.	2016.	16.23	0.0200	0.	92.	0.15
MILE	27.30	831.99	415678.	5.24	79325.	1865.	16.66	0.0230	0.	95.	0.14
MILE	25.20	831.84	414176.	4.57	90660.	1806.	17.77	0.0230	0.	97.	0.11
MILE	23.10	831.52	412575.	5.11	80679.	2124.	16.37	0.0230	0.	102.	0.15

ODATE 10-21-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 22.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	894.35	491667.	12.75	38551.	1092.	10.62	0.0290	0.	76.	0.38
MILE	77.70	891.88	490488.	9.91	49506.	1332.	11.72	0.0400	0.	81.	0.29
MILE	75.60	883.63	488591.	11.28	43321.	3002.	10.77	0.0400	0.	77.	0.52
MILE	73.50	872.28	486254.	13.22	36792.	2273.	11.31	0.0330	0.	73.	0.58
MILE	71.40	869.59	484556.	8.35	58027.	1859.	12.42	0.0400	0.	72.	0.26
MILE	69.30	865.13	482976.	9.75	49544.	1806.	11.31	0.0340	0.	66.	0.33
MILE	67.20	862.84	480325.	6.36	75572.	4715.	10.89	0.0340	0.	72.	0.28
MILE	65.10	858.73	476017.	8.45	56312.	5363.	10.90	0.0320	0.	72.	0.46
MILE	63.00	857.30	472310.	5.02	94168.	3376.	9.13	0.0400	0.	76.	0.17
MILE	60.90	852.75	469520.	7.31	64240.	3075.	9.35	0.0450	0.	76.	0.28
MILE	58.80	844.84	467046.	8.45	55300.	2392.	8.82	0.0400	0.	72.	0.31
MILE	57.00	843.16	465180.	8.14	57178.	2524.	8.88	0.0200	0.	68.	0.30
MILE	55.00	840.62	463013.	9.56	48414.	2567.	8.86	0.0200	0.	67.	0.39
MILE	53.10	839.55	460792.	7.47	61661.	3070.	10.13	0.0200	0.	66.	0.29
MILE	51.00	838.20	457781.	7.81	58645.	3904.	10.26	0.0200	0.	69.	0.35
MILE	48.30	837.64	451100.	5.81	77588.	8005.	12.91	0.0200	0.	69.	0.33
MILE	46.20	837.03	444155.	6.36	69869.	7782.	12.35	0.0200	0.	75.	0.37
MILE	44.10	837.08	439049.	3.73	117774.	3532.	11.47	0.0300	0.	82.	0.11
MILE	43.70	835.57	438463.	10.05	43640.	3460.	14.40	0.0300	0.	83.	0.50
MILE	42.00	835.99	436053.	4.00	108953.	3468.	10.38	0.0300	0.	86.	0.13
MILE	39.10	834.13	431988.	7.18	60203.	3370.	13.68	0.0230	0.	83.	0.30
MILE	37.00	834.25	429581.	4.04	106377.	2286.	13.99	0.0280	0.	83.	0.10
MILE	36.00	833.39	428784.	7.31	58647.	1631.	14.22	0.0280	0.	84.	0.21

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 477 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 34.60	833.17	427668.	5.63	75962.	2382.	15.38	0.0280	0.	85.	0.18
MILE 33.60	833.47	426286.	2.40	177447.	4506.	14.97	0.0290	0.	91.	0.07
MILE 31.50	832.80	422905.	5.78	73119.	3517.	15.70	0.0250	0.	94.	0.22
MILE 30.10	832.59	421556.	5.20	81058.	1388.	14.86	0.0200	0.	92.	0.12
MILE 29.00	832.45	420818.	5.25	80223.	2026.	16.25	0.0200	0.	93.	0.15
MILE 27.30	832.26	419521.	5.27	79681.	1872.	16.69	0.0230	0.	95.	0.14
MILE 25.20	832.11	418014.	4.59	91004.	1812.	17.80	0.0230	0.	98.	0.11
MILE 23.10	831.79	416407.	5.14	81015.	2134.	16.40	0.0230	0.	102.	0.15

ODATE 10-21-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 23.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	894.67	495833.	12.77	38822.	1095.	10.63	0.0290	0.	76.	0.38
MILE 77.70	892.19	494658.	9.93	49837.	1336.	11.73	0.0400	0.	81.	0.29
MILE 75.60	883.93	492761.	11.30	43613.	3021.	10.78	0.0400	0.	77.	0.52
MILE 73.50	872.56	490415.	13.25	37007.	2287.	11.33	0.0330	0.	73.	0.58
MILE 71.40	869.88	488712.	8.36	58431.	1869.	12.46	0.0400	0.	72.	0.26
MILE 69.30	865.41	487128.	9.78	49826.	1817.	11.33	0.0340	0.	67.	0.33
MILE 67.20	863.12	484468.	6.37	76011.	4751.	10.91	0.0340	0.	72.	0.28
MILE 65.10	859.00	480146.	8.48	56635.	5392.	10.92	0.0320	0.	72.	0.46
MILE 63.00	857.57	476418.	5.02	94928.	3387.	9.15	0.0400	0.	77.	0.17
MILE 60.90	853.03	473605.	7.31	64764.	3087.	9.36	0.0450	0.	77.	0.28
MILE 58.80	845.13	471072.	8.45	55727.	2406.	8.83	0.0400	0.	72.	0.31
MILE 57.00	843.45	469236.	8.14	57675.	2539.	8.89	0.0200	0.	69.	0.30
MILE 55.00	840.91	467099.	9.57	48793.	2579.	8.86	0.0200	0.	67.	0.39
MILE 53.10	839.83	464882.	7.49	62081.	3089.	10.15	0.0200	0.	67.	0.29
MILE 51.00	838.48	461870.	7.82	59033.	3927.	10.28	0.0200	0.	69.	0.36
MILE 48.30	837.93	455152.	5.83	78062.	8054.	12.95	0.0200	0.	69.	0.33
MILE 46.20	837.31	448163.	6.37	70323.	7828.	12.37	0.0200	0.	76.	0.37
MILE 44.10	837.37	443027.	3.74	118577.	3546.	11.48	0.0300	0.	82.	0.11
MILE 43.70	835.84	442439.	10.09	43858.	3475.	14.43	0.0300	0.	83.	0.50
MILE 42.00	836.27	440016.	4.01	109828.	3486.	10.39	0.0300	0.	86.	0.13
MILE 39.10	834.41	435927.	7.20	60557.	3387.	13.71	0.0230	0.	83.	0.30
MILE 37.00	834.53	433508.	4.05	107002.	2295.	14.02	0.0280	0.	83.	0.10
MILE 36.00	833.67	432708.	7.34	58967.	1637.	14.24	0.0280	0.	85.	0.22
MILE 34.60	833.45	431589.	5.65	76331.	2391.	15.41	0.0280	0.	85.	0.18
MILE 33.60	833.75	430202.	2.41	178327.	4526.	15.01	0.0290	0.	91.	0.07
MILE 31.50	833.08	426806.	5.81	73475.	3533.	15.72	0.0250	0.	94.	0.22
MILE 30.10	832.87	425452.	5.22	81446.	1392.	14.88	0.0200	0.	92.	0.12
MILE 29.00	832.72	424711.	5.27	80624.	2035.	16.27	0.0200	0.	93.	0.15
MILE 27.30	832.53	423408.	5.29	80038.	1880.	16.71	0.0230	0.	95.	0.14
MILE 25.20	832.38	421896.	4.62	91349.	1819.	17.83	0.0230	0.	98.	0.11
MILE 23.10	832.05	420283.	5.17	81352.	2143.	16.43	0.0230	0.	102.	0.15

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

0DATE 10-22-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	0.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
INFLOW	DEPTH	FROUDE									
MILE	79.80	894.98	500000.	12.79	39092.	1097.	10.63	0.0290	0.	76.	0.38
MILE	77.70	892.50	498829.	9.94	50169.	1339.	11.74	0.0400	0.	82.	0.29
MILE	75.60	884.23	496931.	11.32	43904.	3040.	10.79	0.0400	0.	78.	0.52
MILE	73.50	872.83	494571.	13.29	37221.	2300.	11.34	0.0330	0.	74.	0.58
MILE	71.40	870.16	492852.	8.38	58831.	1880.	12.49	0.0400	0.	72.	0.26
MILE	69.30	865.68	491259.	9.80	50108.	1827.	11.36	0.0340	0.	67.	0.33
MILE	67.20	863.39	488572.	6.39	76450.	4788.	10.94	0.0340	0.	73.	0.28
MILE	65.10	859.26	484210.	8.50	56956.	5421.	10.94	0.0320	0.	72.	0.46
MILE	63.00	857.84	480449.	5.02	95686.	3397.	9.17	0.0400	0.	77.	0.17
MILE	60.90	853.30	477623.	7.32	65290.	3100.	9.38	0.0450	0.	77.	0.28
MILE	58.80	845.41	475081.	8.46	56133.	2420.	8.84	0.0400	0.	72.	0.31
MILE	57.00	843.74	473235.	8.13	58178.	2555.	8.89	0.0200	0.	69.	0.30
MILE	55.00	841.20	471081.	9.58	49179.	2592.	8.86	0.0200	0.	68.	0.39
MILE	53.10	840.12	468852.	7.50	62496.	3105.	10.17	0.0200	0.	67.	0.29
MILE	51.00	838.77	465837.	7.84	59423.	3951.	10.30	0.0200	0.	69.	0.36
MILE	48.30	838.21	459120.	5.85	78537.	8103.	12.99	0.0200	0.	69.	0.33
MILE	46.20	837.59	452140.	6.39	70779.	7873.	12.39	0.0200	0.	76.	0.38
MILE	44.10	837.65	447002.	3.74	119384.	3560.	11.49	0.0300	0.	82.	0.11
MILE	43.70	836.11	446414.	10.13	44077.	3490.	14.46	0.0300	0.	83.	0.50
MILE	42.00	836.56	443986.	4.01	110710.	3504.	10.40	0.0300	0.	87.	0.13
MILE	39.10	834.69	439887.	7.22	60911.	3404.	13.74	0.0230	0.	84.	0.30
MILE	37.00	834.81	437460.	4.06	107629.	2303.	14.05	0.0280	0.	84.	0.10
MILE	36.00	833.94	436659.	7.37	59288.	1642.	14.27	0.0280	0.	85.	0.22
MILE	34.60	833.72	435536.	5.68	76699.	2399.	15.43	0.0280	0.	85.	0.18
MILE	33.60	834.03	434145.	2.42	179207.	4547.	15.05	0.0290	0.	91.	0.07
MILE	31.50	833.35	430737.	5.83	73832.	3549.	15.75	0.0250	0.	95.	0.23
MILE	30.10	833.14	429378.	5.25	81835.	1396.	14.91	0.0200	0.	92.	0.12
MILE	29.00	832.99	428634.	5.29	81026.	2044.	16.29	0.0200	0.	93.	0.15
MILE	27.30	832.80	427327.	5.32	80395.	1887.	16.74	0.0230	0.	96.	0.14
MILE	25.20	832.65	425808.	4.64	91693.	1825.	17.87	0.0230	0.	98.	0.12
MILE	23.10	832.32	424186.	5.19	81689.	2153.	16.45	0.0230	0.	102.	0.15

0DATE 10-22-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	1.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
INFLOW	DEPTH	FROUDE									
MILE	79.80	895.15	500000.	12.74	39232.	1099.	10.64	0.0290	0.	76.	0.38
MILE	77.70	892.68	499592.	9.92	50358.	1341.	11.74	0.0400	0.	82.	0.29
MILE	75.60	884.46	498756.	11.30	44120.	3054.	10.80	0.0400	0.	78.	0.52
MILE	73.50	873.08	497322.	13.29	37409.	2312.	11.36	0.0330	0.	74.	0.58
MILE	71.40	870.41	496006.	8.38	59195.	1889.	12.52	0.0400	0.	73.	0.26

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MILE	69.30	865.94	494687.	9.82	50377.	1837.	11.38	0.0340	0.	67.	0.33
MILE	67.20	863.66	492223.	6.40	76879.	4824.	10.96	0.0340	0.	73.	0.28
MILE	65.10	859.52	488103.	8.52	57274.	5449.	10.95	0.0320	0.	73.	0.46
MILE	63.00	858.10	484436.	5.02	96440.	3408.	9.20	0.0400	0.	77.	0.17
MILE	60.90	853.58	481657.	7.32	65817.	3112.	9.39	0.0450	0.	77.	0.28
MILE	58.80	845.70	479130.	8.47	56544.	2434.	8.85	0.0400	0.	73.	0.31
MILE	57.00	844.04	477280.	8.13	58690.	2570.	8.90	0.0200	0.	69.	0.30
MILE	55.00	841.49	475119.	9.58	49573.	2604.	8.86	0.0200	0.	68.	0.39
MILE	53.10	840.40	472888.	7.52	62897.	3117.	10.18	0.0200	0.	67.	0.29
MILE	51.00	839.05	469860.	7.86	59815.	3974.	10.33	0.0200	0.	70.	0.36
MILE	48.30	838.50	463114.	5.86	79013.	8152.	13.02	0.0200	0.	70.	0.33
MILE	46.20	837.88	456103.	6.40	71238.	7918.	12.41	0.0200	0.	76.	0.38
MILE	44.10	837.94	451007.	3.75	120194.	3574.	11.50	0.0300	0.	83.	0.11
MILE	43.70	836.39	450440.	10.17	44295.	3505.	14.49	0.0300	0.	83.	0.50
MILE	42.00	836.84	448313.	4.02	111582.	3521.	10.41	0.0300	0.	87.	0.13
MILE	39.10	834.94	445408.	7.27	61230.	3419.	13.76	0.0230	0.	84.	0.30
MILE	37.00	835.05	444559.	4.11	108168.	2311.	14.07	0.0280	0.	84.	0.11
MILE	36.00	834.15	444294.	7.46	59527.	1647.	14.29	0.0280	0.	85.	0.22
MILE	34.60	833.91	444064.	5.77	76949.	2405.	15.45	0.0280	0.	85.	0.18
MILE	33.60	834.22	443699.	2.47	179814.	4561.	15.08	0.0290	0.	91.	0.07
MILE	31.50	833.50	442845.	5.98	74025.	3558.	15.76	0.0250	0.	95.	0.23
MILE	30.10	833.26	442646.	5.40	82013.	1398.	14.92	0.0200	0.	92.	0.12
MILE	29.00	833.10	442622.	5.45	81184.	2048.	16.29	0.0200	0.	93.	0.15
MILE	27.30	832.87	442793.	5.50	80495.	1889.	16.75	0.0230	0.	96.	0.15
MILE	25.20	832.70	442959.	4.83	91752.	1827.	17.87	0.0230	0.	98.	0.12
MILE	23.10	832.32	442924.	5.42	81690.	2153.	16.45	0.0230	0.	102.	0.16

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TIME 2.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE	79.80	895.23	500000.	12.72	39302.	1100.	10.64	0.0290	0.	77.	0.37
MILE	77.70	892.76	499751.	9.91	50451.	1342.	11.75	0.0400	0.	82.	0.28
MILE	75.60	884.58	499231.	11.29	44237.	3062.	10.80	0.0400	0.	78.	0.52
MILE	73.50	873.24	498252.	13.27	37538.	2320.	11.37	0.0330	0.	74.	0.58
MILE	71.40	870.60	497261.	8.36	59459.	1896.	12.54	0.0400	0.	73.	0.26
MILE	69.30	866.15	496230.	9.81	50593.	1845.	11.39	0.0340	0.	67.	0.33
MILE	67.20	863.88	494201.	6.40	77241.	4854.	10.98	0.0340	0.	73.	0.28
MILE	65.10	859.75	490749.	8.53	57560.	5475.	10.97	0.0320	0.	73.	0.46
MILE	63.00	858.34	487592.	5.02	97127.	3417.	9.22	0.0400	0.	77.	0.17
MILE	60.90	853.83	485165.	7.32	66312.	3124.	9.41	0.0450	0.	77.	0.28
MILE	58.80	845.98	482858.	8.48	56945.	2448.	8.86	0.0400	0.	73.	0.31
MILE	57.00	844.32	481085.	8.13	59194.	2585.	8.90	0.0200	0.	70.	0.30
MILE	55.00	841.77	479021.	9.59	49964.	2616.	8.86	0.0200	0.	68.	0.39
MILE	53.10	840.68	476965.	7.54	63290.	3130.	10.20	0.0200	0.	67.	0.30
MILE	51.00	839.32	474338.	7.88	60189.	3997.	10.35	0.0200	0.	70.	0.36
MILE	48.30	838.75	469216.	5.91	79442.	8196.	13.06	0.0200	0.	70.	0.33

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	46.20	838.11	464096.	6.48	71615.	7955.	12.43	0.0200	0.	76.	0.38
MILE	44.10	838.16	460532.	3.81	120838.	3584.	11.51	0.0300	0.	83.	0.12
MILE	43.70	836.55	460149.	10.36	44428.	3515.	14.51	0.0300	0.	84.	0.51
MILE	42.00	837.02	458938.	4.09	112141.	3533.	10.41	0.0300	0.	87.	0.13
MILE	39.10	835.03	457186.	7.45	61344.	3425.	13.77	0.0230	0.	84.	0.31
MILE	37.00	835.15	456389.	4.21	108424.	2314.	14.08	0.0280	0.	84.	0.11
MILE	36.00	834.21	456148.	7.65	59594.	1648.	14.30	0.0280	0.	85.	0.22
MILE	34.60	833.96	455968.	5.92	77015.	2407.	15.46	0.0280	0.	85.	0.18
MILE	33.60	834.28	455707.	2.53	180026.	4566.	15.09	0.0290	0.	91.	0.07
MILE	31.50	833.53	455151.	6.15	74067.	3560.	15.77	0.0250	0.	95.	0.24
MILE	30.10	833.29	455134.	5.55	82043.	1399.	14.92	0.0200	0.	92.	0.13
MILE	29.00	833.12	455099.	5.60	81206.	2048.	16.29	0.0200	0.	93.	0.16
MILE	27.30	832.89	454981.	5.65	80511.	1890.	16.75	0.0230	0.	96.	0.15
MILE	25.20	832.71	454899.	4.96	91767.	1827.	17.87	0.0230	0.	98.	0.12
MILE	23.10	832.32	454817.	5.57	81690.	2153.	16.45	0.0230	0.	102.	0.16

0DATE 10-22-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	3.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL	
INFLOW	DEPTH	FROUDE									
MILE	79.80	895.28	500000.	12.71	39349.	1100.	10.64	0.0290	0.	77.	0.37
MILE	77.70	892.82	499817.	9.89	50514.	1343.	11.75	0.0400	0.	82.	0.28
MILE	75.60	884.66	499429.	11.27	44316.	3067.	10.80	0.0400	0.	78.	0.52
MILE	73.50	873.37	498676.	13.25	37635.	2326.	11.37	0.0330	0.	74.	0.58
MILE	71.40	870.74	497887.	8.35	59659.	1901.	12.55	0.0400	0.	73.	0.26
MILE	69.30	866.32	497057.	9.79	50764.	1852.	11.41	0.0340	0.	68.	0.33
MILE	67.20	864.06	495395.	6.39	77531.	4878.	11.00	0.0340	0.	73.	0.28
MILE	65.10	859.94	492552.	8.52	57797.	5496.	10.99	0.0320	0.	73.	0.46
MILE	63.00	858.54	489943.	5.01	97701.	3425.	9.23	0.0400	0.	78.	0.17
MILE	60.90	854.05	487948.	7.31	66733.	3134.	9.42	0.0450	0.	78.	0.28
MILE	58.80	846.22	486100.	8.48	57289.	2459.	8.86	0.0400	0.	73.	0.31
MILE	57.00	844.56	484791.	8.13	59616.	2597.	8.91	0.0200	0.	70.	0.30
MILE	55.00	841.99	483299.	9.61	50273.	2626.	8.86	0.0200	0.	68.	0.39
MILE	53.10	840.89	481834.	7.58	63587.	3139.	10.21	0.0200	0.	68.	0.30
MILE	51.00	839.51	479914.	7.94	60457.	4013.	10.37	0.0200	0.	70.	0.36
MILE	48.30	838.94	475891.	5.97	79753.	8228.	13.08	0.0200	0.	70.	0.34
MILE	46.20	838.29	471823.	6.56	71895.	7982.	12.44	0.0200	0.	76.	0.39
MILE	44.10	838.34	468992.	3.86	121345.	3593.	11.52	0.0300	0.	83.	0.12
MILE	43.70	836.68	468683.	10.53	44528.	3522.	14.53	0.0300	0.	84.	0.52
MILE	42.00	837.16	467631.	4.15	112606.	3542.	10.42	0.0300	0.	87.	0.13
MILE	39.10	835.11	466071.	7.58	61454.	3430.	13.78	0.0230	0.	84.	0.32
MILE	37.00	835.25	465397.	4.28	108665.	2317.	14.08	0.0280	0.	84.	0.11
MILE	36.00	834.27	465202.	7.80	59666.	1649.	14.30	0.0280	0.	85.	0.23
MILE	34.60	834.01	465052.	6.03	77088.	2408.	15.47	0.0280	0.	86.	0.19
MILE	33.60	834.35	464805.	2.58	180241.	4571.	15.09	0.0290	0.	91.	0.07
MILE	31.50	833.57	464203.	6.26	74122.	3562.	15.77	0.0250	0.	95.	0.24
MILE	30.10	833.32	464084.	5.65	82094.	1399.	14.92	0.0200	0.	93.	0.13

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Appendix E		Checked	ACM

MILE	29.00	833.15	464034.	5.71	81252.	2049.	16.30	0.0200	0.	93.	0.16
MILE	27.30	832.91	463988.	5.76	80540.	1890.	16.75	0.0230	0.	96.	0.16
MILE	25.20	832.73	463959.	5.05	91788.	1827.	17.87	0.0230	0.	98.	0.13
MILE	23.10	832.32	463985.	5.68	81690.	2153.	16.45	0.0230	0.	102.	0.16

0DATE 10-22-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 4.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE	79.80	895.32	500000.	12.70	39385.	1100.	10.64	0.0290	0.	77.	0.37
MILE	77.70	892.87	499853.	9.89	50562.	1343.	11.75	0.0400	0.	82.	0.28
MILE	75.60	884.72	499538.	11.26	44376.	3071.	10.81	0.0400	0.	78.	0.52
MILE	73.50	873.46	498925.	13.23	37710.	2331.	11.38	0.0330	0.	74.	0.58
MILE	71.40	870.85	498281.	8.33	59816.	1905.	12.56	0.0400	0.	73.	0.26
MILE	69.30	866.45	497605.	9.78	50899.	1857.	11.42	0.0340	0.	68.	0.33
MILE	67.20	864.21	496254.	6.38	77761.	4897.	11.01	0.0340	0.	74.	0.28
MILE	65.10	860.09	493948.	8.52	57982.	5516.	11.00	0.0320	0.	73.	0.46
MILE	63.00	858.70	491870.	5.01	98157.	3432.	9.24	0.0400	0.	78.	0.17
MILE	60.90	854.21	490287.	7.31	67064.	3142.	9.43	0.0450	0.	78.	0.28
MILE	58.80	846.40	488824.	8.49	57552.	2468.	8.87	0.0400	0.	73.	0.31
MILE	57.00	844.74	487777.	8.14	59939.	2606.	8.91	0.0200	0.	70.	0.30
MILE	55.00	842.17	486584.	9.63	50512.	2633.	8.86	0.0200	0.	69.	0.39
MILE	53.10	841.05	485412.	7.61	63819.	3146.	10.22	0.0200	0.	68.	0.30
MILE	51.00	839.67	483867.	7.98	60670.	4025.	10.38	0.0200	0.	70.	0.36
MILE	48.30	839.09	480619.	6.01	80000.	8253.	13.10	0.0200	0.	70.	0.34
MILE	46.20	838.42	477431.	6.62	72119.	8004.	12.45	0.0200	0.	77.	0.39
MILE	44.10	838.48	475172.	3.90	121746.	3600.	11.52	0.0300	0.	83.	0.12
MILE	43.70	836.78	474929.	10.65	44610.	3527.	14.54	0.0300	0.	84.	0.53
MILE	42.00	837.28	474144.	4.20	112975.	3549.	10.42	0.0300	0.	87.	0.13
MILE	39.10	835.18	473009.	7.69	61539.	3434.	13.79	0.0230	0.	84.	0.32
MILE	37.00	835.32	472490.	4.34	108850.	2319.	14.09	0.0280	0.	84.	0.11
MILE	36.00	834.32	472333.	7.91	59720.	1650.	14.31	0.0280	0.	85.	0.23
MILE	34.60	834.05	472209.	6.12	77142.	2409.	15.47	0.0280	0.	86.	0.19
MILE	33.60	834.40	472025.	2.62	180405.	4575.	15.10	0.0290	0.	92.	0.07
MILE	31.50	833.60	471607.	6.36	74160.	3564.	15.77	0.0250	0.	95.	0.25
MILE	30.10	833.34	471545.	5.74	82126.	1399.	14.93	0.0200	0.	93.	0.13
MILE	29.00	833.17	471517.	5.80	81278.	2050.	16.30	0.0200	0.	93.	0.16
MILE	27.30	832.92	471480.	5.85	80557.	1891.	16.75	0.0230	0.	96.	0.16
MILE	25.20	832.74	471446.	5.14	91800.	1827.	17.88	0.0230	0.	98.	0.13
MILE	23.10	832.32	471449.	5.77	81690.	2153.	16.45	0.0230	0.	102.	0.17

0DATE 10-22-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 482 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

	TIME 5.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
INFLOW	DEPTH	FROUDE									
MILE	79.80	895.36	500000.	12.69	39416.	1101.	10.64	0.0290	0.	77.	0.37
MILE	77.70	892.90	499877.	9.88	50601.	1344.	11.75	0.0400	0.	82.	0.28
MILE	75.60	884.77	499614.	11.25	44424.	3074.	10.81	0.0400	0.	78.	0.52
MILE	73.50	873.54	499109.	13.21	37769.	2335.	11.38	0.0330	0.	74.	0.58
MILE	71.40	870.94	498584.	8.32	59939.	1908.	12.57	0.0400	0.	73.	0.26
MILE	69.30	866.55	498037.	9.76	51005.	1861.	11.43	0.0340	0.	68.	0.33
MILE	67.20	864.32	496947.	6.38	77943.	4912.	11.02	0.0340	0.	74.	0.28
MILE	65.10	860.21	495090.	8.52	58125.	5533.	11.00	0.0320	0.	73.	0.46
MILE	63.00	858.83	493421.	5.01	98518.	3437.	9.25	0.0400	0.	78.	0.16
MILE	60.90	854.35	492152.	7.31	67327.	3148.	9.44	0.0450	0.	78.	0.28
MILE	58.80	846.54	490981.	8.50	57762.	2475.	8.87	0.0400	0.	73.	0.31
MILE	57.00	844.88	490144.	8.14	60198.	2614.	8.92	0.0200	0.	70.	0.30
MILE	55.00	842.30	489194.	9.65	50703.	2639.	8.86	0.0200	0.	69.	0.39
MILE	53.10	841.18	488269.	7.63	64004.	3151.	10.23	0.0200	0.	68.	0.30
MILE	51.00	839.79	487054.	8.01	60839.	4035.	10.39	0.0200	0.	70.	0.36
MILE	48.30	839.20	484507.	6.04	80195.	8273.	13.12	0.0200	0.	70.	0.34
MILE	46.20	838.53	481961.	6.67	72295.	8021.	12.46	0.0200	0.	77.	0.39
MILE	44.10	838.59	480179.	3.93	122062.	3605.	11.53	0.0300	0.	83.	0.12
MILE	43.70	836.86	479986.	10.74	44672.	3531.	14.55	0.0300	0.	84.	0.53
MILE	42.00	837.37	479344.	4.23	113264.	3555.	10.43	0.0300	0.	87.	0.13
MILE	39.10	835.23	478403.	7.77	61607.	3437.	13.79	0.0230	0.	84.	0.32
MILE	37.00	835.38	477997.	4.39	108996.	2321.	14.09	0.0280	0.	84.	0.11
MILE	36.00	834.35	477876.	8.00	59762.	1651.	14.31	0.0280	0.	85.	0.23
MILE	34.60	834.09	477781.	6.19	77185.	2410.	15.47	0.0280	0.	86.	0.19
MILE	33.60	834.44	477631.	2.65	180532.	4578.	15.11	0.0290	0.	92.	0.07
MILE	31.50	833.63	477278.	6.43	74190.	3565.	15.77	0.0250	0.	95.	0.25
MILE	30.10	833.36	477211.	5.81	82152.	1400.	14.93	0.0200	0.	93.	0.13
MILE	29.00	833.18	477179.	5.87	81301.	2050.	16.30	0.0200	0.	93.	0.16
MILE	27.30	832.93	477140.	5.92	80572.	1891.	16.75	0.0230	0.	96.	0.16
MILE	25.20	832.74	477129.	5.20	91811.	1828.	17.88	0.0230	0.	98.	0.13
MILE	23.10	832.32	477124.	5.84	81690.	2153.	16.45	0.0230	0.	102.	0.17

0DATE 10-22-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 6.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
INFLOW	DEPTH	FROUDE									
MILE	79.80	895.39	500000.	12.68	39442.	1101.	10.64	0.0290	0.	77.	0.37
MILE	77.70	892.93	499898.	9.87	50634.	1344.	11.75	0.0400	0.	82.	0.28
MILE	75.60	884.81	499680.	11.24	44463.	3076.	10.81	0.0400	0.	78.	0.52
MILE	73.50	873.60	499263.	13.20	37817.	2338.	11.39	0.0330	0.	74.	0.58
MILE	71.40	871.01	498836.	8.31	60038.	1911.	12.58	0.0400	0.	73.	0.26
MILE	69.30	866.64	498391.	9.76	51090.	1864.	11.43	0.0340	0.	68.	0.33
MILE	67.20	864.41	497510.	6.37	78087.	4923.	11.03	0.0340	0.	74.	0.28
MILE	65.10	860.31	496011.	8.52	58239.	5547.	11.01	0.0320	0.	73.	0.46

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	63.00	858.92	494668.	5.01	98804.	3440.	9.26	0.0400	0.	78.	0.16
MILE	60.90	854.45	493651.	7.31	67535.	3153.	9.45	0.0450	0.	78.	0.28
MILE	58.80	846.66	492717.	8.51	57929.	2481.	8.87	0.0400	0.	74.	0.31
MILE	57.00	845.00	492051.	8.15	60403.	2620.	8.92	0.0200	0.	70.	0.30
MILE	55.00	842.41	491294.	9.66	50855.	2643.	8.86	0.0200	0.	69.	0.39
MILE	53.10	841.28	490555.	7.65	64151.	3156.	10.24	0.0200	0.	68.	0.30
MILE	51.00	839.88	489584.	8.03	60973.	4043.	10.40	0.0200	0.	71.	0.36
MILE	48.30	839.30	487541.	6.07	80351.	8289.	13.13	0.0200	0.	70.	0.34
MILE	46.20	838.62	485507.	6.70	72436.	8035.	12.47	0.0200	0.	77.	0.39
MILE	44.10	838.67	484073.	3.96	122315.	3609.	11.53	0.0300	0.	83.	0.12
MILE	43.70	836.92	483918.	10.82	44723.	3535.	14.55	0.0300	0.	84.	0.54
MILE	42.00	837.44	483405.	4.26	113496.	3560.	10.43	0.0300	0.	87.	0.13
MILE	39.10	835.28	482655.	7.83	61661.	3440.	13.80	0.0230	0.	84.	0.33
MILE	37.00	835.43	482323.	4.42	109114.	2322.	14.10	0.0280	0.	84.	0.11
MILE	36.00	834.38	482223.	8.06	59797.	1651.	14.32	0.0280	0.	85.	0.24
MILE	34.60	834.11	482141.	6.24	77220.	2411.	15.48	0.0280	0.	86.	0.19
MILE	33.60	834.48	482019.	2.67	180637.	4580.	15.11	0.0290	0.	92.	0.07
MILE	31.50	833.64	481741.	6.49	74215.	3567.	15.78	0.0250	0.	95.	0.25
MILE	30.10	833.38	481695.	5.86	82174.	1400.	14.93	0.0200	0.	93.	0.13
MILE	29.00	833.19	481674.	5.92	81320.	2051.	16.30	0.0200	0.	93.	0.17
MILE	27.30	832.94	481646.	5.98	80583.	1891.	16.75	0.0230	0.	96.	0.16
MILE	25.20	832.75	481626.	5.25	91820.	1828.	17.88	0.0230	0.	98.	0.13
MILE	23.10	832.32	481625.	5.90	81690.	2153.	16.45	0.0230	0.	102.	0.17

ODATE 10-22-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	7.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL	
INFLOW	DEPTH	FROUDE									
MILE	79.80	895.41	500000.	12.67	39463.	1101.	10.64	0.0290	0.	77.	0.37
MILE	77.70	892.96	499915.	9.87	50661.	1344.	11.75	0.0400	0.	82.	0.28
MILE	75.60	884.84	499735.	11.23	44495.	3078.	10.81	0.0400	0.	78.	0.52
MILE	73.50	873.65	499392.	13.19	37855.	2340.	11.39	0.0330	0.	74.	0.58
MILE	71.40	871.06	499043.	8.30	60117.	1913.	12.59	0.0400	0.	73.	0.26
MILE	69.30	866.70	498682.	9.75	51157.	1866.	11.44	0.0340	0.	68.	0.33
MILE	67.20	864.48	497969.	6.37	78202.	4933.	11.03	0.0340	0.	74.	0.28
MILE	65.10	860.39	496756.	8.52	58329.	5558.	11.01	0.0320	0.	73.	0.46
MILE	63.00	859.00	495671.	5.01	99031.	3444.	9.27	0.0400	0.	78.	0.16
MILE	60.90	854.54	494850.	7.31	67701.	3157.	9.45	0.0450	0.	78.	0.28
MILE	58.80	846.75	494094.	8.51	58063.	2485.	8.88	0.0400	0.	74.	0.31
MILE	57.00	845.09	493555.	8.15	60548.	2625.	8.92	0.0200	0.	70.	0.30
MILE	55.00	842.50	492948.	9.67	50977.	2647.	8.86	0.0200	0.	69.	0.39
MILE	53.10	841.36	492355.	7.66	64268.	3159.	10.24	0.0200	0.	68.	0.30
MILE	51.00	839.96	491572.	8.05	61080.	4050.	10.41	0.0200	0.	71.	0.37
MILE	48.30	839.37	489939.	6.09	80475.	8302.	13.14	0.0200	0.	70.	0.34
MILE	46.20	838.69	488310.	6.73	72548.	8046.	12.47	0.0200	0.	77.	0.40
MILE	44.10	838.74	487165.	3.98	122517.	3612.	11.53	0.0300	0.	84.	0.12
MILE	43.70	836.97	487042.	10.88	44764.	3538.	14.56	0.0300	0.	84.	0.54

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	42.00	837.50	486629.	4.28	113682.	3563.	10.43	0.0300	0.	88.	0.13
MILE	39.10	835.31	486025.	7.88	61705.	3442.	13.80	0.0230	0.	84.	0.33
MILE	37.00	835.46	485759.	4.45	109209.	2323.	14.10	0.0280	0.	84.	0.11
MILE	36.00	834.41	485680.	8.12	59825.	1652.	14.32	0.0280	0.	85.	0.24
MILE	34.60	834.13	485618.	6.29	77248.	2412.	15.48	0.0280	0.	86.	0.20
MILE	33.60	834.50	485521.	2.69	180720.	4582.	15.12	0.0290	0.	92.	0.08
MILE	31.50	833.66	485294.	6.54	74235.	3567.	15.78	0.0250	0.	95.	0.25
MILE	30.10	833.39	485253.	5.90	82191.	1400.	14.93	0.0200	0.	93.	0.14
MILE	29.00	833.20	485234.	5.97	81335.	2051.	16.30	0.0200	0.	94.	0.17
MILE	27.30	832.95	485212.	6.02	80593.	1891.	16.75	0.0230	0.	96.	0.16
MILE	25.20	832.76	485197.	5.28	91827.	1828.	17.88	0.0230	0.	98.	0.13
MILE	23.10	832.32	485195.	5.94	81690.	2153.	16.45	0.0230	0.	102.	0.17

0DATE 10-22-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 8.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE	79.80	895.43	500000.	12.66	39481.	1101.	10.65	0.0290	0.	77.	0.37
MILE	77.70	892.98	499930.	9.86	50683.	1344.	11.75	0.0400	0.	82.	0.28
MILE	75.60	884.86	499781.	11.23	44521.	3080.	10.81	0.0400	0.	78.	0.52
MILE	73.50	873.69	499500.	13.18	37885.	2342.	11.39	0.0330	0.	74.	0.58
MILE	71.40	871.10	499215.	8.30	60180.	1914.	12.59	0.0400	0.	73.	0.26
MILE	69.30	866.75	498921.	9.74	51211.	1868.	11.44	0.0340	0.	68.	0.33
MILE	67.20	864.54	498342.	6.37	78294.	4940.	11.04	0.0340	0.	74.	0.28
MILE	65.10	860.45	497358.	8.52	58402.	5567.	11.02	0.0320	0.	73.	0.46
MILE	63.00	859.07	496480.	5.00	99214.	3446.	9.27	0.0400	0.	78.	0.16
MILE	60.90	854.60	495816.	7.31	67835.	3160.	9.46	0.0450	0.	78.	0.28
MILE	58.80	846.82	495208.	8.51	58171.	2489.	8.88	0.0400	0.	74.	0.31
MILE	57.00	845.16	494773.	8.16	60663.	2628.	8.92	0.0200	0.	70.	0.30
MILE	55.00	842.56	494285.	9.68	51074.	2650.	8.86	0.0200	0.	69.	0.39
MILE	53.10	841.43	493806.	7.67	64362.	3162.	10.25	0.0200	0.	68.	0.30
MILE	51.00	840.02	493178.	8.06	61165.	4055.	10.41	0.0200	0.	71.	0.37
MILE	48.30	839.43	491863.	6.10	80574.	8312.	13.15	0.0200	0.	71.	0.35
MILE	46.20	838.74	490552.	6.75	72638.	8054.	12.48	0.0200	0.	77.	0.40
MILE	44.10	838.80	489629.	3.99	122679.	3615.	11.53	0.0300	0.	84.	0.12
MILE	43.70	837.01	489529.	10.93	44796.	3540.	14.56	0.0300	0.	84.	0.54
MILE	42.00	837.55	489197.	4.30	113831.	3566.	10.43	0.0300	0.	88.	0.13
MILE	39.10	835.34	488710.	7.92	61740.	3444.	13.80	0.0230	0.	84.	0.33
MILE	37.00	835.49	488495.	4.47	109285.	2324.	14.10	0.0280	0.	84.	0.11
MILE	36.00	834.42	488430.	8.16	59847.	1652.	14.32	0.0280	0.	85.	0.24
MILE	34.60	834.15	488378.	6.32	77271.	2412.	15.48	0.0280	0.	86.	0.20
MILE	33.60	834.53	488299.	2.70	180788.	4584.	15.12	0.0290	0.	92.	0.08
MILE	31.50	833.67	488117.	6.57	74251.	3568.	15.78	0.0250	0.	95.	0.25
MILE	30.10	833.40	488086.	5.94	82205.	1400.	14.93	0.0200	0.	93.	0.14
MILE	29.00	833.21	488071.	6.00	81347.	2052.	16.30	0.0200	0.	94.	0.17
MILE	27.30	832.95	488052.	6.06	80601.	1892.	16.75	0.0230	0.	96.	0.16
MILE	25.20	832.76	488041.	5.31	91832.	1828.	17.88	0.0230	0.	98.	0.13

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 23.10 832.32 488039. 5.97 81690. 2153. 16.45 0.0230 0. 102. 0.17

0DATE 10-22-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 9.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80 895.45 500000. 12.66 39496. 1102. 10.65 0.0290 0. 77. 0.37
MILE 77.70 893.00 499942. 9.86 50701. 1345. 11.75 0.0400 0. 82. 0.28
MILE 75.60 884.89 499819. 11.22 44542. 3081. 10.81 0.0400 0. 78. 0.52
MILE 73.50 873.72 499589. 13.18 37910. 2344. 11.39 0.0330 0. 75. 0.58
MILE 71.40 871.14 499356. 8.29 60231. 1916. 12.59 0.0400 0. 73. 0.26
MILE 69.30 866.79 499117. 9.74 51255. 1870. 11.45 0.0340 0. 68. 0.33
MILE 67.20 864.58 498646. 6.36 78368. 4946. 11.04 0.0340 0. 74. 0.28
MILE 65.10 860.49 497847. 8.52 58460. 5574. 11.02 0.0320 0. 73. 0.46
MILE 63.00 859.12 497135. 5.00 99361. 3448. 9.28 0.0400 0. 78. 0.16
MILE 60.90 854.66 496598. 7.31 67942. 3162. 9.46 0.0450 0. 78. 0.28
MILE 58.80 846.88 496106. 8.52 58258. 2491. 8.88 0.0400 0. 74. 0.31
MILE 57.00 845.22 495755. 8.16 60756. 2631. 8.92 0.0200 0. 70. 0.30
MILE 55.00 842.62 495360. 9.68 51152. 2652. 8.86 0.0200 0. 69. 0.39
MILE 53.10 841.48 494975. 7.68 64437. 3164. 10.25 0.0200 0. 68. 0.30
MILE 51.00 840.07 494468. 8.08 61233. 4059. 10.42 0.0200 0. 71. 0.37
MILE 48.30 839.48 493405. 6.12 80654. 8320. 13.15 0.0200 0. 71. 0.35
MILE 46.20 838.79 492345. 6.77 72711. 8061. 12.48 0.0200 0. 77. 0.40
MILE 44.10 838.84 491601. 4.00 122809. 3617. 11.54 0.0300 0. 84. 0.12
MILE 43.70 837.04 491521. 10.97 44822. 3542. 14.57 0.0300 0. 84. 0.54
MILE 42.00 837.59 491253. 4.31 113952. 3568. 10.43 0.0300 0. 88. 0.13
MILE 39.10 835.36 490859. 7.95 61768. 3445. 13.80 0.0230 0. 84. 0.33
MILE 37.00 835.52 490685. 4.49 109346. 2325. 14.10 0.0280 0. 84. 0.12
MILE 36.00 834.44 490633. 8.20 59865. 1652. 14.32 0.0280 0. 85. 0.24
MILE 34.60 834.16 490591. 6.35 77289. 2413. 15.48 0.0280 0. 86. 0.20
MILE 33.60 834.54 490527. 2.71 180842. 4585. 15.12 0.0290 0. 92. 0.08
MILE 31.50 833.68 490379. 6.60 74264. 3569. 15.78 0.0250 0. 95. 0.26
MILE 30.10 833.41 490353. 5.96 82217. 1400. 14.93 0.0200 0. 93. 0.14
MILE 29.00 833.22 490340. 6.03 81356. 2052. 16.30 0.0200 0. 94. 0.17
MILE 27.30 832.96 490325. 6.08 80607. 1892. 16.75 0.0230 0. 96. 0.16
MILE 25.20 832.76 490315. 5.34 91837. 1828. 17.88 0.0230 0. 98. 0.13
MILE 23.10 832.32 490313. 6.00 81690. 2153. 16.45 0.0230 0. 102. 0.17

0DATE 10-22-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 10.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80 895.47 500000. 12.66 39508. 1102. 10.65 0.0290 0. 77. 0.37

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 77.70	893.01	499952.	9.86	50716.	1345.	11.75	0.0400	0.	82.	0.28
MILE 75.60	884.90	499851.	11.22	44559.	3082.	10.81	0.0400	0.	78.	0.52
MILE 73.50	873.74	499662.	13.17	37930.	2345.	11.40	0.0330	0.	75.	0.58
MILE 71.40	871.17	499472.	8.29	60272.	1917.	12.60	0.0400	0.	73.	0.26
MILE 69.30	866.83	499277.	9.73	51290.	1871.	11.45	0.0340	0.	68.	0.33
MILE 67.20	864.62	498894.	6.36	78427.	4951.	11.05	0.0340	0.	74.	0.28
MILE 65.10	860.53	498244.	8.52	58507.	5579.	11.02	0.0320	0.	74.	0.46
MILE 63.00	859.16	497666.	5.00	99479.	3450.	9.28	0.0400	0.	78.	0.16
MILE 60.90	854.70	497230.	7.31	68029.	3164.	9.46	0.0450	0.	78.	0.28
MILE 58.80	846.93	496832.	8.52	58328.	2494.	8.88	0.0400	0.	74.	0.31
MILE 57.00	845.26	496548.	8.16	60831.	2634.	8.92	0.0200	0.	70.	0.30
MILE 55.00	842.66	496229.	9.69	51215.	2654.	8.86	0.0200	0.	69.	0.39
MILE 53.10	841.52	495917.	7.69	64498.	3166.	10.25	0.0200	0.	68.	0.30
MILE 51.00	840.11	495507.	8.09	61287.	4062.	10.42	0.0200	0.	71.	0.37
MILE 48.30	839.51	494647.	6.13	80719.	8326.	13.16	0.0200	0.	71.	0.35
MILE 46.20	838.82	493790.	6.79	72769.	8067.	12.48	0.0200	0.	77.	0.40
MILE 44.10	838.88	493187.	4.01	122914.	3619.	11.54	0.0300	0.	84.	0.12
MILE 43.70	837.07	493122.	11.00	44843.	3543.	14.57	0.0300	0.	84.	0.54
MILE 42.00	837.62	492905.	4.32	114049.	3570.	10.43	0.0300	0.	88.	0.13
MILE 39.10	835.38	492585.	7.97	61791.	3446.	13.81	0.0230	0.	84.	0.33
MILE 37.00	835.54	492444.	4.50	109395.	2325.	14.10	0.0280	0.	84.	0.12
MILE 36.00	834.45	492402.	8.22	59880.	1653.	14.32	0.0280	0.	85.	0.24
MILE 34.60	834.17	492367.	6.37	77304.	2413.	15.48	0.0280	0.	86.	0.20
MILE 33.60	834.56	492315.	2.72	180886.	4586.	15.12	0.0290	0.	92.	0.08
MILE 31.50	833.69	492195.	6.63	74275.	3569.	15.78	0.0250	0.	95.	0.26
MILE 30.10	833.41	492173.	5.99	82226.	1401.	14.93	0.0200	0.	93.	0.14
MILE 29.00	833.22	492163.	6.05	81364.	2052.	16.30	0.0200	0.	94.	0.17
MILE 27.30	832.96	492151.	6.11	80612.	1892.	16.75	0.0230	0.	96.	0.16
MILE 25.20	832.77	492142.	5.36	91840.	1828.	17.88	0.0230	0.	98.	0.13
MILE 23.10	832.32	492141.	6.02	81690.	2153.	16.45	0.0230	0.	102.	0.17

ODATE 10-22-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 11.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	895.48	500000.	12.65	39518.	1102.	10.65	0.0290	0.	77.	0.37
MILE 77.70	893.02	499961.	9.86	50729.	1345.	11.75	0.0400	0.	82.	0.28
MILE 75.60	884.92	499877.	11.21	44573.	3083.	10.81	0.0400	0.	78.	0.52
MILE 73.50	873.76	499722.	13.17	37946.	2346.	11.40	0.0330	0.	75.	0.58
MILE 71.40	871.19	499567.	8.28	60305.	1917.	12.60	0.0400	0.	73.	0.26
MILE 69.30	866.86	499408.	9.73	51318.	1872.	11.45	0.0340	0.	68.	0.33
MILE 67.20	864.65	499096.	6.36	78475.	4955.	11.05	0.0340	0.	74.	0.28
MILE 65.10	860.56	498567.	8.52	58544.	5584.	11.02	0.0320	0.	74.	0.46
MILE 63.00	859.19	498097.	5.00	99574.	3451.	9.28	0.0400	0.	78.	0.16
MILE 60.90	854.74	497743.	7.31	68099.	3166.	9.46	0.0450	0.	78.	0.28
MILE 58.80	846.97	497420.	8.52	58384.	2496.	8.88	0.0400	0.	74.	0.31
MILE 57.00	845.30	497190.	8.17	60892.	2636.	8.92	0.0200	0.	70.	0.30

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 487 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	55.00	842.70	496931.	9.69	51266.	2655.	8.86	0.0200	0.	69.	0.39
MILE	53.10	841.56	496679.	7.69	64547.	3168.	10.25	0.0200	0.	68.	0.30
MILE	51.00	840.14	496346.	8.09	61330.	4064.	10.42	0.0200	0.	71.	0.37
MILE	48.30	839.55	495649.	6.14	80771.	8332.	13.16	0.0200	0.	71.	0.35
MILE	46.20	838.85	494954.	6.80	72816.	8072.	12.48	0.0200	0.	77.	0.40
MILE	44.10	838.91	494465.	4.02	122999.	3620.	11.54	0.0300	0.	84.	0.12
MILE	43.70	837.09	494412.	11.02	44860.	3544.	14.57	0.0300	0.	84.	0.55
MILE	42.00	837.64	494236.	4.33	114127.	3572.	10.43	0.0300	0.	88.	0.14
MILE	39.10	835.39	493977.	7.99	61810.	3447.	13.81	0.0230	0.	84.	0.33
MILE	37.00	835.55	493862.	4.51	109435.	2326.	14.10	0.0280	0.	84.	0.12
MILE	36.00	834.46	493827.	8.25	59892.	1653.	14.32	0.0280	0.	85.	0.24
MILE	34.60	834.18	493799.	6.39	77316.	2414.	15.48	0.0280	0.	86.	0.20
MILE	33.60	834.57	493757.	2.73	180921.	4587.	15.12	0.0290	0.	92.	0.08
MILE	31.50	833.70	493659.	6.65	74283.	3570.	15.78	0.0250	0.	95.	0.26
MILE	30.10	833.42	493641.	6.00	82233.	1401.	14.93	0.0200	0.	93.	0.14
MILE	29.00	833.23	493633.	6.07	81371.	2052.	16.30	0.0200	0.	94.	0.17
MILE	27.30	832.97	493622.	6.12	80616.	1892.	16.75	0.0230	0.	96.	0.17
MILE	25.20	832.77	493616.	5.37	91843.	1828.	17.88	0.0230	0.	98.	0.13
MILE	23.10	832.32	493615.	6.04	81690.	2153.	16.45	0.0230	0.	102.	0.17

0DATE 10-22-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 12.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	895.49	500000.	12.65	39526.	1102.	10.65	0.0290	0.	77.	0.37
MILE	77.70	893.03	499968.	9.85	50739.	1345.	11.75	0.0400	0.	82.	0.28
MILE	75.60	884.93	499899.	11.21	44584.	3084.	10.81	0.0400	0.	78.	0.52
MILE	73.50	873.78	499772.	13.17	37959.	2347.	11.40	0.0330	0.	75.	0.58
MILE	71.40	871.21	499645.	8.28	60332.	1918.	12.60	0.0400	0.	73.	0.26
MILE	69.30	866.88	499515.	9.73	51341.	1873.	11.45	0.0340	0.	68.	0.33
MILE	67.20	864.67	499260.	6.36	78514.	4958.	11.05	0.0340	0.	74.	0.28
MILE	65.10	860.59	498830.	8.52	58575.	5588.	11.02	0.0320	0.	74.	0.46
MILE	63.00	859.22	498447.	5.00	99651.	3452.	9.29	0.0400	0.	78.	0.16
MILE	60.90	854.77	498159.	7.31	68155.	3167.	9.46	0.0450	0.	78.	0.28
MILE	58.80	847.00	497897.	8.52	58430.	2497.	8.88	0.0400	0.	74.	0.31
MILE	57.00	845.33	497710.	8.17	60941.	2637.	8.92	0.0200	0.	71.	0.30
MILE	55.00	842.73	497500.	9.70	51307.	2657.	8.86	0.0200	0.	69.	0.39
MILE	53.10	841.59	497295.	7.70	64587.	3169.	10.26	0.0200	0.	68.	0.30
MILE	51.00	840.17	497025.	8.10	61365.	4066.	10.42	0.0200	0.	71.	0.37
MILE	48.30	839.57	496459.	6.14	80813.	8336.	13.16	0.0200	0.	71.	0.35
MILE	46.20	838.87	495894.	6.81	72855.	8075.	12.49	0.0200	0.	77.	0.40
MILE	44.10	838.93	495498.	4.03	123068.	3622.	11.54	0.0300	0.	84.	0.12
MILE	43.70	837.11	495455.	11.04	44874.	3545.	14.57	0.0300	0.	84.	0.55
MILE	42.00	837.66	495312.	4.34	114191.	3573.	10.44	0.0300	0.	88.	0.14
MILE	39.10	835.41	495101.	8.01	61825.	3448.	13.81	0.0230	0.	84.	0.33
MILE	37.00	835.57	495007.	4.52	109468.	2326.	14.10	0.0280	0.	84.	0.12
MILE	36.00	834.47	494979.	8.26	59901.	1653.	14.32	0.0280	0.	85.	0.24

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 488 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 34.60	834.19	494956.	6.40	77326.	2414.	15.48	0.0280	0.	86.	0.20
MILE 33.60	834.58	494922.	2.74	180950.	4587.	15.13	0.0290	0.	92.	0.08
MILE 31.50	833.70	494842.	6.66	74290.	3570.	15.78	0.0250	0.	95.	0.26
MILE 30.10	833.42	494827.	6.02	82239.	1401.	14.93	0.0200	0.	93.	0.14
MILE 29.00	833.23	494821.	6.08	81376.	2052.	16.30	0.0200	0.	94.	0.17
MILE 27.30	832.97	494812.	6.14	80619.	1892.	16.75	0.0230	0.	96.	0.17
MILE 25.20	832.77	494806.	5.39	91846.	1828.	17.88	0.0230	0.	98.	0.13
MILE 23.10	832.32	494805.	6.06	81690.	2153.	16.45	0.0230	0.	102.	0.17

ODATE 10-22-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 13.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	895.49	500000.	12.65	39533.	1102.	10.65	0.0290	0.	77.	0.37
MILE 77.70	893.04	499973.	9.85	50747.	1345.	11.75	0.0400	0.	82.	0.28
MILE 75.60	884.94	499917.	11.21	44594.	3085.	10.81	0.0400	0.	78.	0.52
MILE 73.50	873.79	499812.	13.16	37970.	2347.	11.40	0.0330	0.	75.	0.58
MILE 71.40	871.23	499709.	8.28	60353.	1919.	12.60	0.0400	0.	73.	0.26
MILE 69.30	866.90	499602.	9.73	51359.	1874.	11.46	0.0340	0.	68.	0.33
MILE 67.20	864.69	499395.	6.36	78545.	4961.	11.05	0.0340	0.	74.	0.28
MILE 65.10	860.61	499043.	8.52	58599.	5591.	11.03	0.0320	0.	74.	0.46
MILE 63.00	859.24	498731.	5.00	99713.	3453.	9.29	0.0400	0.	78.	0.16
MILE 60.90	854.79	498497.	7.31	68200.	3168.	9.47	0.0450	0.	78.	0.28
MILE 58.80	847.02	498283.	8.52	58467.	2498.	8.89	0.0400	0.	74.	0.31
MILE 57.00	845.35	498132.	8.17	60981.	2638.	8.92	0.0200	0.	71.	0.30
MILE 55.00	842.75	497961.	9.70	51341.	2658.	8.87	0.0200	0.	69.	0.39
MILE 53.10	841.61	497794.	7.70	64619.	3170.	10.26	0.0200	0.	68.	0.30
MILE 51.00	840.19	497575.	8.10	61394.	4068.	10.43	0.0200	0.	71.	0.37
MILE 48.30	839.59	497115.	6.15	80847.	8340.	13.17	0.0200	0.	71.	0.35
MILE 46.20	838.89	496656.	6.81	72886.	8078.	12.49	0.0200	0.	77.	0.40
MILE 44.10	838.95	496333.	4.03	123123.	3622.	11.54	0.0300	0.	84.	0.12
MILE 43.70	837.12	496299.	11.06	44885.	3546.	14.58	0.0300	0.	84.	0.55
MILE 42.00	837.68	496182.	4.34	114242.	3574.	10.44	0.0300	0.	88.	0.14
MILE 39.10	835.41	496010.	8.02	61837.	3448.	13.81	0.0230	0.	84.	0.33
MILE 37.00	835.58	495934.	4.53	109494.	2327.	14.10	0.0280	0.	84.	0.12
MILE 36.00	834.48	495911.	8.28	59909.	1653.	14.33	0.0280	0.	85.	0.24
MILE 34.60	834.20	495893.	6.41	77334.	2414.	15.48	0.0280	0.	86.	0.20
MILE 33.60	834.58	495865.	2.74	180973.	4588.	15.13	0.0290	0.	92.	0.08
MILE 31.50	833.71	495799.	6.67	74296.	3570.	15.78	0.0250	0.	95.	0.26
MILE 30.10	833.43	495787.	6.03	82244.	1401.	14.93	0.0200	0.	93.	0.14
MILE 29.00	833.23	495782.	6.09	81380.	2052.	16.30	0.0200	0.	94.	0.17
MILE 27.30	832.97	495775.	6.15	80622.	1892.	16.75	0.0230	0.	96.	0.17
MILE 25.20	832.77	495770.	5.40	91848.	1828.	17.88	0.0230	0.	98.	0.13
MILE 23.10	832.32	495769.	6.07	81690.	2153.	16.45	0.0230	0.	102.	0.17

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 489 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

0DATE 10-22-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	14.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
INFLOW	DEPTH	FROUDE									
MILE	79.80	895.50	500000.	12.65	39539.	1102.	10.65	0.0290	0.	77.	0.37
MILE	77.70	893.04	499978.	9.85	50754.	1345.	11.75	0.0400	0.	82.	0.28
MILE	75.60	884.95	499932.	11.21	44601.	3085.	10.81	0.0400	0.	78.	0.52
MILE	73.50	873.80	499846.	13.16	37978.	2348.	11.40	0.0330	0.	75.	0.58
MILE	71.40	871.24	499761.	8.28	60371.	1919.	12.61	0.0400	0.	73.	0.26
MILE	69.30	866.91	499674.	9.73	51374.	1874.	11.46	0.0340	0.	68.	0.33
MILE	67.20	864.71	499504.	6.36	78571.	4963.	11.05	0.0340	0.	74.	0.28
MILE	65.10	860.63	499217.	8.52	58619.	5593.	11.03	0.0320	0.	74.	0.46
MILE	63.00	859.26	498962.	5.00	99763.	3454.	9.29	0.0400	0.	78.	0.16
MILE	60.90	854.81	498771.	7.31	68237.	3169.	9.47	0.0450	0.	78.	0.28
MILE	58.80	847.04	498598.	8.52	58497.	2499.	8.89	0.0400	0.	74.	0.31
MILE	57.00	845.37	498474.	8.17	61013.	2639.	8.92	0.0200	0.	71.	0.30
MILE	55.00	842.77	498335.	9.70	51368.	2658.	8.87	0.0200	0.	69.	0.39
MILE	53.10	841.63	498200.	7.71	64645.	3171.	10.26	0.0200	0.	68.	0.30
MILE	51.00	840.20	498021.	8.11	61417.	4069.	10.43	0.0200	0.	71.	0.37
MILE	48.30	839.61	497647.	6.15	80874.	8342.	13.17	0.0200	0.	71.	0.35
MILE	46.20	838.91	497273.	6.82	72911.	8081.	12.49	0.0200	0.	77.	0.40
MILE	44.10	838.97	497011.	4.04	123168.	3623.	11.54	0.0300	0.	84.	0.12
MILE	43.70	837.13	496982.	11.07	44894.	3547.	14.58	0.0300	0.	84.	0.55
MILE	42.00	837.69	496888.	4.35	114284.	3575.	10.44	0.0300	0.	88.	0.14
MILE	39.10	835.42	496748.	8.03	61847.	3449.	13.81	0.0230	0.	84.	0.33
MILE	37.00	835.58	496686.	4.54	109516.	2327.	14.11	0.0280	0.	84.	0.12
MILE	36.00	834.48	496667.	8.29	59916.	1653.	14.33	0.0280	0.	85.	0.24
MILE	34.60	834.20	496652.	6.42	77340.	2414.	15.49	0.0280	0.	86.	0.20
MILE	33.60	834.59	496629.	2.74	180992.	4588.	15.13	0.0290	0.	92.	0.08
MILE	31.50	833.71	496575.	6.68	74300.	3570.	15.78	0.0250	0.	95.	0.26
MILE	30.10	833.43	496566.	6.04	82248.	1401.	14.93	0.0200	0.	93.	0.14
MILE	29.00	833.24	496561.	6.10	81383.	2052.	16.30	0.0200	0.	94.	0.17
MILE	27.30	832.97	496555.	6.16	80624.	1892.	16.76	0.0230	0.	96.	0.17
MILE	25.20	832.77	496551.	5.41	91849.	1828.	17.88	0.0230	0.	98.	0.13
MILE	23.10	832.32	496550.	6.08	81690.	2153.	16.45	0.0230	0.	102.	0.17

0DATE 10-22-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	15.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
INFLOW	DEPTH	FROUDE									
MILE	79.80	895.51	500000.	12.64	39543.	1102.	10.65	0.0290	0.	77.	0.37
MILE	77.70	893.05	499982.	9.85	50760.	1345.	11.75	0.0400	0.	82.	0.28
MILE	75.60	884.95	499944.	11.21	44607.	3085.	10.81	0.0400	0.	78.	0.52
MILE	73.50	873.81	499873.	13.16	37985.	2348.	11.40	0.0330	0.	75.	0.58
MILE	71.40	871.25	499803.	8.28	60385.	1920.	12.61	0.0400	0.	73.	0.26

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 490 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 69.30	866.92	499732.	9.73	51386.	1875.	11.46	0.0340	0.	68.	0.33
MILE 67.20	864.72	499593.	6.36	78591.	4965.	11.05	0.0340	0.	74.	0.28
MILE 65.10	860.64	499359.	8.52	58635.	5595.	11.03	0.0320	0.	74.	0.46
MILE 63.00	859.27	499151.	5.00	99804.	3454.	9.29	0.0400	0.	78.	0.16
MILE 60.90	854.82	498995.	7.31	68267.	3170.	9.47	0.0450	0.	78.	0.28
MILE 58.80	847.06	498853.	8.52	58521.	2500.	8.89	0.0400	0.	74.	0.31
MILE 57.00	845.39	498753.	8.17	61039.	2640.	8.92	0.0200	0.	71.	0.30
MILE 55.00	842.79	498640.	9.70	51390.	2659.	8.87	0.0200	0.	69.	0.39
MILE 53.10	841.64	498529.	7.71	64666.	3171.	10.26	0.0200	0.	68.	0.30
MILE 51.00	840.22	498384.	8.11	61436.	4071.	10.43	0.0200	0.	71.	0.37
MILE 48.30	839.62	498079.	6.16	80897.	8345.	13.17	0.0200	0.	71.	0.35
MILE 46.20	838.92	497774.	6.83	72931.	8083.	12.49	0.0200	0.	77.	0.40
MILE 44.10	838.98	497561.	4.04	123205.	3624.	11.54	0.0300	0.	84.	0.12
MILE 43.70	837.14	497538.	11.08	44901.	3547.	14.58	0.0300	0.	84.	0.55
MILE 42.00	837.70	497460.	4.35	114318.	3576.	10.44	0.0300	0.	88.	0.14
MILE 39.10	835.43	497346.	8.04	61855.	3449.	13.81	0.0230	0.	84.	0.33
MILE 37.00	835.59	497295.	4.54	109533.	2327.	14.11	0.0280	0.	84.	0.12
MILE 36.00	834.49	497280.	8.30	59921.	1653.	14.33	0.0280	0.	85.	0.24
MILE 34.60	834.21	497268.	6.43	77346.	2414.	15.49	0.0280	0.	86.	0.20
MILE 33.60	834.60	497249.	2.75	181007.	4589.	15.13	0.0290	0.	92.	0.08
MILE 31.50	833.71	497205.	6.69	74304.	3571.	15.78	0.0250	0.	95.	0.26
MILE 30.10	833.43	497197.	6.04	82252.	1401.	14.93	0.0200	0.	93.	0.14
MILE 29.00	833.24	497194.	6.11	81386.	2052.	16.30	0.0200	0.	94.	0.17
MILE 27.30	832.97	497189.	6.17	80626.	1892.	16.76	0.0230	0.	96.	0.17
MILE 25.20	832.77	497185.	5.41	91850.	1828.	17.88	0.0230	0.	98.	0.13
MILE 23.10	832.32	497184.	6.09	81690.	2153.	16.45	0.0230	0.	102.	0.17

0DATE 10-22-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 16.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	895.51	500000.	12.64	39547.	1102.	10.65	0.0290	0.	77.	0.37
MILE 77.70	893.05	499985.	9.85	50764.	1345.	11.75	0.0400	0.	82.	0.28
MILE 75.60	884.96	499953.	11.21	44612.	3086.	10.81	0.0400	0.	78.	0.52
MILE 73.50	873.82	499895.	13.16	37991.	2349.	11.40	0.0330	0.	75.	0.58
MILE 71.40	871.26	499838.	8.28	60397.	1920.	12.61	0.0400	0.	73.	0.26
MILE 69.30	866.93	499780.	9.72	51396.	1875.	11.46	0.0340	0.	68.	0.33
MILE 67.20	864.73	499666.	6.36	78608.	4966.	11.06	0.0340	0.	74.	0.28
MILE 65.10	860.65	499475.	8.52	58648.	5596.	11.03	0.0320	0.	74.	0.46
MILE 63.00	859.28	499305.	5.00	99837.	3455.	9.29	0.0400	0.	78.	0.16
MILE 60.90	854.83	499177.	7.31	68292.	3170.	9.47	0.0450	0.	78.	0.28
MILE 58.80	847.07	499062.	8.52	58541.	2501.	8.89	0.0400	0.	74.	0.31
MILE 57.00	845.40	498980.	8.17	61060.	2641.	8.92	0.0200	0.	71.	0.30
MILE 55.00	842.80	498887.	9.70	51408.	2660.	8.87	0.0200	0.	69.	0.39
MILE 53.10	841.65	498797.	7.71	64683.	3172.	10.26	0.0200	0.	68.	0.30
MILE 51.00	840.23	498679.	8.12	61451.	4072.	10.43	0.0200	0.	71.	0.37
MILE 48.30	839.63	498430.	6.16	80915.	8347.	13.17	0.0200	0.	71.	0.35

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	46.20	838.93	498182.	6.83	72948.	8084.	12.49	0.0200	0.	77.	0.40
MILE	44.10	838.99	498008.	4.04	123235.	3624.	11.54	0.0300	0.	84.	0.12
MILE	43.70	837.15	497989.	11.09	44907.	3547.	14.58	0.0300	0.	84.	0.55
MILE	42.00	837.71	497926.	4.35	114345.	3576.	10.44	0.0300	0.	88.	0.14
MILE	39.10	835.43	497833.	8.05	61861.	3449.	13.81	0.0230	0.	84.	0.33
MILE	37.00	835.60	497791.	4.54	109547.	2327.	14.11	0.0280	0.	84.	0.12
MILE	36.00	834.49	497779.	8.31	59925.	1653.	14.33	0.0280	0.	85.	0.24
MILE	34.60	834.21	497768.	6.44	77350.	2414.	15.49	0.0280	0.	86.	0.20
MILE	33.60	834.60	497753.	2.75	181020.	4589.	15.13	0.0290	0.	92.	0.08
MILE	31.50	833.72	497718.	6.70	74307.	3571.	15.78	0.0250	0.	95.	0.26
MILE	30.10	833.43	497711.	6.05	82254.	1401.	14.93	0.0200	0.	93.	0.14
MILE	29.00	833.24	497708.	6.12	81389.	2052.	16.30	0.0200	0.	94.	0.17
MILE	27.30	832.97	497704.	6.17	80628.	1892.	16.76	0.0230	0.	96.	0.17
MILE	25.20	832.78	497701.	5.42	91851.	1828.	17.88	0.0230	0.	98.	0.13
MILE	23.10	832.32	497700.	6.09	81690.	2153.	16.45	0.0230	0.	102.	0.17

ODATE 10-22-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 17.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	895.51	500000.	12.64	39551.	1102.	10.65	0.0290	0.	77.	0.37
MILE	77.70	893.06	499988.	9.85	50768.	1345.	11.75	0.0400	0.	82.	0.28
MILE	75.60	884.96	499962.	11.21	44617.	3086.	10.81	0.0400	0.	78.	0.52
MILE	73.50	873.83	499914.	13.16	37996.	2349.	11.40	0.0330	0.	75.	0.58
MILE	71.40	871.26	499867.	8.28	60406.	1920.	12.61	0.0400	0.	73.	0.26
MILE	69.30	866.94	499819.	9.72	51404.	1875.	11.46	0.0340	0.	68.	0.33
MILE	67.20	864.74	499726.	6.36	78622.	4967.	11.06	0.0340	0.	74.	0.28
MILE	65.10	860.66	499569.	8.52	58659.	5598.	11.03	0.0320	0.	74.	0.46
MILE	63.00	859.29	499430.	5.00	99864.	3455.	9.29	0.0400	0.	78.	0.16
MILE	60.90	854.84	499326.	7.31	68311.	3171.	9.47	0.0450	0.	78.	0.28
MILE	58.80	847.08	499231.	8.53	58557.	2501.	8.89	0.0400	0.	74.	0.31
MILE	57.00	845.41	499164.	8.17	61077.	2642.	8.92	0.0200	0.	71.	0.30
MILE	55.00	842.81	499089.	9.71	51422.	2660.	8.87	0.0200	0.	69.	0.39
MILE	53.10	841.66	499016.	7.71	64697.	3172.	10.26	0.0200	0.	68.	0.30
MILE	51.00	840.24	498919.	8.12	61464.	4072.	10.43	0.0200	0.	71.	0.37
MILE	48.30	839.64	498716.	6.16	80930.	8348.	13.17	0.0200	0.	71.	0.35
MILE	46.20	838.94	498513.	6.83	72961.	8086.	12.49	0.0200	0.	77.	0.40
MILE	44.10	839.00	498371.	4.04	123259.	3625.	11.54	0.0300	0.	84.	0.12
MILE	43.70	837.15	498356.	11.10	44912.	3548.	14.58	0.0300	0.	84.	0.55
MILE	42.00	837.72	498304.	4.36	114368.	3577.	10.44	0.0300	0.	88.	0.14
MILE	39.10	835.44	498228.	8.05	61867.	3450.	13.81	0.0230	0.	84.	0.34
MILE	37.00	835.60	498194.	4.55	109559.	2327.	14.11	0.0280	0.	84.	0.12
MILE	36.00	834.49	498184.	8.31	59928.	1653.	14.33	0.0280	0.	85.	0.24
MILE	34.60	834.21	498176.	6.44	77353.	2414.	15.49	0.0280	0.	86.	0.20
MILE	33.60	834.60	498163.	2.75	181030.	4589.	15.13	0.0290	0.	92.	0.08
MILE	31.50	833.72	498134.	6.70	74310.	3571.	15.78	0.0250	0.	95.	0.26
MILE	30.10	833.44	498129.	6.06	82256.	1401.	14.93	0.0200	0.	93.	0.14

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Appendix E		Checked	ACM

MILE	29.00	833.24	498126.	6.12	81390.	2053.	16.30	0.0200	0.	94.	0.17
MILE	27.30	832.98	498123.	6.18	80629.	1892.	16.76	0.0230	0.	96.	0.17
MILE	25.20	832.78	498120.	5.42	91852.	1828.	17.88	0.0230	0.	98.	0.13
MILE	23.10	832.32	498120.	6.10	81690.	2153.	16.45	0.0230	0.	102.	0.17

0DATE 10-22-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 18.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE	79.80	895.52	500000.	12.64	39553.	1102.	10.65	0.0290	0.	77.	0.37
MILE	77.70	893.06	499990.	9.85	50771.	1345.	11.75	0.0400	0.	82.	0.28
MILE	75.60	884.96	499968.	11.21	44620.	3086.	10.81	0.0400	0.	78.	0.52
MILE	73.50	873.83	499929.	13.16	37999.	2349.	11.40	0.0330	0.	75.	0.58
MILE	71.40	871.27	499890.	8.27	60414.	1920.	12.61	0.0400	0.	73.	0.26
MILE	69.30	866.94	499851.	9.72	51411.	1876.	11.46	0.0340	0.	68.	0.33
MILE	67.20	864.75	499775.	6.36	78633.	4968.	11.06	0.0340	0.	74.	0.28
MILE	65.10	860.67	499646.	8.52	58668.	5599.	11.03	0.0320	0.	74.	0.46
MILE	63.00	859.30	499532.	5.00	99886.	3455.	9.29	0.0400	0.	78.	0.16
MILE	60.90	854.85	499447.	7.31	68327.	3171.	9.47	0.0450	0.	78.	0.28
MILE	58.80	847.09	499370.	8.53	58570.	2502.	8.89	0.0400	0.	74.	0.31
MILE	57.00	845.42	499315.	8.17	61092.	2642.	8.92	0.0200	0.	71.	0.30
MILE	55.00	842.82	499254.	9.71	51434.	2660.	8.87	0.0200	0.	69.	0.39
MILE	53.10	841.67	499194.	7.71	64708.	3172.	10.26	0.0200	0.	68.	0.30
MILE	51.00	840.25	499115.	8.12	61474.	4073.	10.43	0.0200	0.	71.	0.37
MILE	48.30	839.65	498949.	6.16	80942.	8349.	13.17	0.0200	0.	71.	0.35
MILE	46.20	838.94	498783.	6.84	72972.	8087.	12.49	0.0200	0.	77.	0.40
MILE	44.10	839.01	498667.	4.05	123279.	3625.	11.54	0.0300	0.	84.	0.12
MILE	43.70	837.16	498655.	11.10	44916.	3548.	14.58	0.0300	0.	84.	0.55
MILE	42.00	837.72	498613.	4.36	114386.	3577.	10.44	0.0300	0.	88.	0.14
MILE	39.10	835.44	498551.	8.06	61871.	3450.	13.81	0.0230	0.	84.	0.34
MILE	37.00	835.60	498523.	4.55	109568.	2328.	14.11	0.0280	0.	84.	0.12
MILE	36.00	834.50	498515.	8.32	59931.	1653.	14.33	0.0280	0.	85.	0.24
MILE	34.60	834.21	498508.	6.44	77356.	2414.	15.49	0.0280	0.	86.	0.20
MILE	33.60	834.60	498497.	2.75	181038.	4589.	15.13	0.0290	0.	92.	0.08
MILE	31.50	833.72	498473.	6.71	74312.	3571.	15.78	0.0250	0.	95.	0.26
MILE	30.10	833.44	498469.	6.06	82258.	1401.	14.93	0.0200	0.	93.	0.14
MILE	29.00	833.24	498467.	6.12	81392.	2053.	16.30	0.0200	0.	94.	0.17
MILE	27.30	832.98	498464.	6.18	80630.	1892.	16.76	0.0230	0.	96.	0.17
MILE	25.20	832.78	498462.	5.43	91853.	1828.	17.88	0.0230	0.	98.	0.13
MILE	23.10	832.32	498462.	6.10	81690.	2153.	16.45	0.0230	0.	102.	0.17

0DATE 10-22-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

TIME 19.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	895.52	500000.	12.64	39555.	1102.	10.65	0.0290	0.	77.	0.37
MILE 77.70	893.06	499992.	9.85	50774.	1345.	11.76	0.0400	0.	82.	0.28
MILE 75.60	884.97	499974.	11.20	44623.	3086.	10.81	0.0400	0.	78.	0.52
MILE 73.50	873.83	499941.	13.16	38002.	2349.	11.40	0.0330	0.	75.	0.58
MILE 71.40	871.27	499910.	8.27	60420.	1920.	12.61	0.0400	0.	73.	0.26
MILE 69.30	866.95	499878.	9.72	51416.	1876.	11.46	0.0340	0.	68.	0.33
MILE 67.20	864.75	499815.	6.36	78642.	4969.	11.06	0.0340	0.	74.	0.28
MILE 65.10	860.67	499709.	8.52	58675.	5600.	11.03	0.0320	0.	74.	0.46
MILE 63.00	859.30	499616.	5.00	99904.	3455.	9.29	0.0400	0.	78.	0.16
MILE 60.90	854.86	499546.	7.31	68341.	3171.	9.47	0.0450	0.	78.	0.28
MILE 58.80	847.10	499483.	8.53	58581.	2502.	8.89	0.0400	0.	74.	0.31
MILE 57.00	845.43	499438.	8.17	61103.	2642.	8.92	0.0200	0.	71.	0.30
MILE 55.00	842.82	499388.	9.71	51444.	2661.	8.87	0.0200	0.	69.	0.39
MILE 53.10	841.68	499339.	7.72	64718.	3173.	10.26	0.0200	0.	68.	0.30
MILE 51.00	840.25	499274.	8.12	61482.	4073.	10.43	0.0200	0.	71.	0.37
MILE 48.30	839.65	499139.	6.17	80952.	8350.	13.18	0.0200	0.	71.	0.35
MILE 46.20	838.95	499004.	6.84	72981.	8088.	12.49	0.0200	0.	77.	0.40
MILE 44.10	839.01	498909.	4.05	123295.	3625.	11.54	0.0300	0.	84.	0.12
MILE 43.70	837.16	498898.	11.11	44919.	3548.	14.58	0.0300	0.	84.	0.55
MILE 42.00	837.73	498864.	4.36	114401.	3577.	10.44	0.0300	0.	88.	0.14
MILE 39.10	835.44	498813.	8.06	61874.	3450.	13.81	0.0230	0.	84.	0.34
MILE 37.00	835.61	498791.	4.55	109576.	2328.	14.11	0.0280	0.	84.	0.12
MILE 36.00	834.50	498784.	8.32	59933.	1654.	14.33	0.0280	0.	85.	0.24
MILE 34.60	834.21	498778.	6.45	77358.	2415.	15.49	0.0280	0.	86.	0.20
MILE 33.60	834.61	498770.	2.75	181045.	4590.	15.13	0.0290	0.	92.	0.08
MILE 31.50	833.72	498750.	6.71	74313.	3571.	15.78	0.0250	0.	95.	0.26
MILE 30.10	833.44	498746.	6.06	82260.	1401.	14.93	0.0200	0.	93.	0.14
MILE 29.00	833.24	498745.	6.13	81393.	2053.	16.30	0.0200	0.	94.	0.17
MILE 27.30	832.98	498742.	6.19	80630.	1892.	16.76	0.0230	0.	96.	0.17
MILE 25.20	832.78	498741.	5.43	91854.	1828.	17.88	0.0230	0.	98.	0.14
MILE 23.10	832.32	498740.	6.11	81690.	2153.	16.45	0.0230	0.	102.	0.17

0DATE 10-22-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 20.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	895.52	500000.	12.64	39557.	1102.	10.65	0.0290	0.	77.	0.37
MILE 77.70	893.07	499993.	9.85	50776.	1345.	11.76	0.0400	0.	82.	0.28
MILE 75.60	884.97	499978.	11.20	44625.	3087.	10.81	0.0400	0.	78.	0.52
MILE 73.50	873.84	499952.	13.15	38005.	2349.	11.40	0.0330	0.	75.	0.58
MILE 71.40	871.28	499926.	8.27	60426.	1921.	12.61	0.0400	0.	73.	0.26
MILE 69.30	866.95	499899.	9.72	51420.	1876.	11.46	0.0340	0.	68.	0.33
MILE 67.20	864.76	499848.	6.36	78649.	4970.	11.06	0.0340	0.	74.	0.28
MILE 65.10	860.68	499761.	8.52	58681.	5600.	11.03	0.0320	0.	74.	0.46

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 494 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 63.00	859.31	499684.	5.00	99918.	3456.	9.29	0.0400	0.	78.	0.16
MILE 60.90	854.86	499627.	7.31	68351.	3172.	9.47	0.0450	0.	78.	0.28
MILE 58.80	847.10	499575.	8.53	58590.	2502.	8.89	0.0400	0.	74.	0.31
MILE 57.00	845.44	499539.	8.17	61112.	2643.	8.92	0.0200	0.	71.	0.30
MILE 55.00	842.83	499498.	9.71	51452.	2661.	8.87	0.0200	0.	69.	0.39
MILE 53.10	841.68	499458.	7.72	64725.	3173.	10.26	0.0200	0.	68.	0.30
MILE 51.00	840.26	499405.	8.12	61489.	4074.	10.43	0.0200	0.	71.	0.37
MILE 48.30	839.66	499294.	6.17	80960.	8351.	13.18	0.0200	0.	71.	0.35
MILE 46.20	838.95	499183.	6.84	72988.	8088.	12.49	0.0200	0.	77.	0.40
MILE 44.10	839.02	499106.	4.05	123308.	3626.	11.54	0.0300	0.	84.	0.12
MILE 43.70	837.16	499097.	11.11	44922.	3548.	14.58	0.0300	0.	84.	0.55
MILE 42.00	837.73	499069.	4.36	114413.	3578.	10.44	0.0300	0.	88.	0.14
MILE 39.10	835.45	499028.	8.06	61877.	3450.	13.81	0.0230	0.	84.	0.34
MILE 37.00	835.61	499009.	4.55	109582.	2328.	14.11	0.0280	0.	84.	0.12
MILE 36.00	834.50	499003.	8.33	59935.	1654.	14.33	0.0280	0.	86.	0.24
MILE 34.60	834.22	498999.	6.45	77360.	2415.	15.49	0.0280	0.	86.	0.20
MILE 33.60	834.61	498992.	2.76	181051.	4590.	15.13	0.0290	0.	92.	0.08
MILE 31.50	833.72	498976.	6.71	74315.	3571.	15.78	0.0250	0.	95.	0.26
MILE 30.10	833.44	498973.	6.07	82261.	1401.	14.93	0.0200	0.	93.	0.14
MILE 29.00	833.24	498971.	6.13	81394.	2053.	16.30	0.0200	0.	94.	0.17
MILE 27.30	832.98	498969.	6.19	80631.	1892.	16.76	0.0230	0.	96.	0.17
MILE 25.20	832.78	498968.	5.43	91854.	1828.	17.88	0.0230	0.	98.	0.14
MILE 23.10	832.32	498968.	6.11	81690.	2153.	16.45	0.0230	0.	102.	0.17

ODATE 10-22-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 21.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	895.52	500000.	12.64	39559.	1102.	10.65	0.0290	0.	77.	0.37
MILE 77.70	893.07	499994.	9.85	50778.	1345.	11.76	0.0400	0.	82.	0.28
MILE 75.60	884.97	499982.	11.20	44627.	3087.	10.81	0.0400	0.	78.	0.52
MILE 73.50	873.84	499960.	13.15	38007.	2350.	11.40	0.0330	0.	75.	0.58
MILE 71.40	871.28	499939.	8.27	60430.	1921.	12.61	0.0400	0.	73.	0.26
MILE 69.30	866.96	499917.	9.72	51424.	1876.	11.46	0.0340	0.	68.	0.33
MILE 67.20	864.76	499875.	6.36	78655.	4970.	11.06	0.0340	0.	74.	0.28
MILE 65.10	860.68	499803.	8.52	58685.	5601.	11.03	0.0320	0.	74.	0.46
MILE 63.00	859.31	499740.	5.00	99930.	3456.	9.29	0.0400	0.	78.	0.16
MILE 60.90	854.87	499693.	7.31	68360.	3172.	9.47	0.0450	0.	78.	0.28
MILE 58.80	847.11	499651.	8.53	58597.	2502.	8.89	0.0400	0.	74.	0.31
MILE 57.00	845.44	499621.	8.17	61120.	2643.	8.92	0.0200	0.	71.	0.30
MILE 55.00	842.83	499587.	9.71	51458.	2661.	8.87	0.0200	0.	69.	0.39
MILE 53.10	841.69	499555.	7.72	64731.	3173.	10.26	0.0200	0.	68.	0.30
MILE 51.00	840.26	499511.	8.12	61494.	4074.	10.43	0.0200	0.	71.	0.37
MILE 48.30	839.66	499421.	6.17	80966.	8352.	13.18	0.0200	0.	71.	0.35
MILE 46.20	838.96	499330.	6.84	72994.	8089.	12.49	0.0200	0.	77.	0.40
MILE 44.10	839.02	499267.	4.05	123319.	3626.	11.54	0.0300	0.	84.	0.12
MILE 43.70	837.17	499260.	11.11	44924.	3549.	14.58	0.0300	0.	84.	0.55

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 495 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	42.00	837.74	499237.	4.36	114423.	3578.	10.44	0.0300	0.	88.	0.14
MILE	39.10	835.45	499203.	8.07	61880.	3450.	13.81	0.0230	0.	84.	0.34
MILE	37.00	835.61	499187.	4.56	109587.	2328.	14.11	0.0280	0.	84.	0.12
MILE	36.00	834.50	499183.	8.33	59937.	1654.	14.33	0.0280	0.	86.	0.24
MILE	34.60	834.22	499179.	6.45	77362.	2415.	15.49	0.0280	0.	86.	0.20
MILE	33.60	834.61	499173.	2.76	181055.	4590.	15.13	0.0290	0.	92.	0.08
MILE	31.50	833.72	499160.	6.72	74316.	3571.	15.78	0.0250	0.	95.	0.26
MILE	30.10	833.44	499158.	6.07	82262.	1401.	14.93	0.0200	0.	93.	0.14
MILE	29.00	833.24	499156.	6.13	81395.	2053.	16.30	0.0200	0.	94.	0.17
MILE	27.30	832.98	499155.	6.19	80632.	1892.	16.76	0.0230	0.	96.	0.17
MILE	25.20	832.78	499154.	5.43	91854.	1829.	17.88	0.0230	0.	98.	0.14
MILE	23.10	832.32	499153.	6.11	81690.	2153.	16.45	0.0230	0.	102.	0.17

0DATE 10-22-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 22.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE	79.80	895.53	500000.	12.64	39560.	1102.	10.65	0.0290	0.	77.	0.37
MILE	77.70	893.07	499995.	9.85	50779.	1345.	11.76	0.0400	0.	82.	0.28
MILE	75.60	884.97	499985.	11.20	44628.	3087.	10.82	0.0400	0.	78.	0.52
MILE	73.50	873.84	499967.	13.15	38009.	2350.	11.40	0.0330	0.	75.	0.58
MILE	71.40	871.28	499949.	8.27	60433.	1921.	12.61	0.0400	0.	73.	0.26
MILE	69.30	866.96	499931.	9.72	51427.	1876.	11.46	0.0340	0.	68.	0.33
MILE	67.20	864.76	499897.	6.36	78660.	4970.	11.06	0.0340	0.	74.	0.28
MILE	65.10	860.68	499838.	8.52	58689.	5601.	11.03	0.0320	0.	74.	0.46
MILE	63.00	859.32	499786.	5.00	99940.	3456.	9.29	0.0400	0.	78.	0.16
MILE	60.90	854.87	499748.	7.31	68367.	3172.	9.47	0.0450	0.	78.	0.28
MILE	58.80	847.11	499713.	8.53	58603.	2503.	8.89	0.0400	0.	74.	0.31
MILE	57.00	845.44	499689.	8.17	61126.	2643.	8.92	0.0200	0.	71.	0.30
MILE	55.00	842.84	499661.	9.71	51463.	2661.	8.87	0.0200	0.	69.	0.39
MILE	53.10	841.69	499634.	7.72	64736.	3173.	10.26	0.0200	0.	68.	0.30
MILE	51.00	840.26	499599.	8.12	61499.	4074.	10.43	0.0200	0.	71.	0.37
MILE	48.30	839.66	499524.	6.17	80971.	8352.	13.18	0.0200	0.	71.	0.35
MILE	46.20	838.96	499450.	6.84	72999.	8089.	12.49	0.0200	0.	77.	0.40
MILE	44.10	839.02	499398.	4.05	123327.	3626.	11.54	0.0300	0.	84.	0.12
MILE	43.70	837.17	499392.	11.12	44926.	3549.	14.58	0.0300	0.	84.	0.55
MILE	42.00	837.74	499374.	4.36	114431.	3578.	10.44	0.0300	0.	88.	0.14
MILE	39.10	835.45	499346.	8.07	61882.	3450.	13.81	0.0230	0.	84.	0.34
MILE	37.00	835.61	499333.	4.56	109591.	2328.	14.11	0.0280	0.	84.	0.12
MILE	36.00	834.50	499329.	8.33	59938.	1654.	14.33	0.0280	0.	86.	0.24
MILE	34.60	834.22	499326.	6.45	77363.	2415.	15.49	0.0280	0.	86.	0.20
MILE	33.60	834.61	499322.	2.76	181059.	4590.	15.13	0.0290	0.	92.	0.08
MILE	31.50	833.72	499311.	6.72	74317.	3571.	15.78	0.0250	0.	95.	0.26
MILE	30.10	833.44	499309.	6.07	82263.	1401.	14.93	0.0200	0.	93.	0.14
MILE	29.00	833.24	499308.	6.13	81396.	2053.	16.30	0.0200	0.	94.	0.17
MILE	27.30	832.98	499306.	6.19	80632.	1892.	16.76	0.0230	0.	96.	0.17
MILE	25.20	832.78	499305.	5.44	91855.	1829.	17.88	0.0230	0.	98.	0.14

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 496 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 23.10 832.32 499305. 6.11 81690. 2153. 16.45 0.0230 0. 102. 0.17

0DATE 10-22-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 23.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80 895.53 500000. 12.64 39561. 1102. 10.65 0.0290 0. 77. 0.37
MILE 77.70 893.07 499996. 9.85 50781. 1345. 11.76 0.0400 0. 82. 0.28
MILE 75.60 884.97 499988. 11.20 44630. 3087. 10.82 0.0400 0. 78. 0.52
MILE 73.50 873.84 499973. 13.15 38010. 2350. 11.40 0.0330 0. 75. 0.58
MILE 71.40 871.28 499958. 8.27 60436. 1921. 12.61 0.0400 0. 73. 0.26
MILE 69.30 866.96 499943. 9.72 51429. 1876. 11.46 0.0340 0. 68. 0.33
MILE 67.20 864.76 499915. 6.36 78664. 4971. 11.06 0.0340 0. 74. 0.28
MILE 65.10 860.69 499867. 8.52 58692. 5602. 11.03 0.0320 0. 74. 0.46
MILE 63.00 859.32 499824. 5.00 99948. 3456. 9.29 0.0400 0. 78. 0.16
MILE 60.90 854.87 499792. 7.31 68373. 3172. 9.47 0.0450 0. 78. 0.28
MILE 58.80 847.12 499764. 8.53 58607. 2503. 8.89 0.0400 0. 74. 0.31
MILE 57.00 845.45 499744. 8.17 61131. 2643. 8.92 0.0200 0. 71. 0.30
MILE 55.00 842.84 499721. 9.71 51468. 2661. 8.87 0.0200 0. 69. 0.39
MILE 53.10 841.69 499699. 7.72 64741. 3173. 10.26 0.0200 0. 68. 0.30
MILE 51.00 840.27 499670. 8.12 61502. 4075. 10.43 0.0200 0. 71. 0.37
MILE 48.30 839.67 499609. 6.17 80976. 8353. 13.18 0.0200 0. 71. 0.35
MILE 46.20 838.96 499548. 6.84 73003. 8090. 12.49 0.0200 0. 77. 0.40
MILE 44.10 839.02 499506. 4.05 123334. 3626. 11.54 0.0300 0. 84. 0.12
MILE 43.70 837.17 499501. 11.12 44927. 3549. 14.58 0.0300 0. 84. 0.55
MILE 42.00 837.74 499486. 4.36 114438. 3578. 10.44 0.0300 0. 88. 0.14
MILE 39.10 835.45 499463. 8.07 61883. 3450. 13.81 0.0230 0. 84. 0.34
MILE 37.00 835.62 499452. 4.56 109595. 2328. 14.11 0.0280 0. 84. 0.12
MILE 36.00 834.50 499449. 8.33 59939. 1654. 14.33 0.0280 0. 86. 0.24
MILE 34.60 834.22 499447. 6.46 77364. 2415. 15.49 0.0280 0. 86. 0.20
MILE 33.60 834.61 499443. 2.76 181062. 4590. 15.13 0.0290 0. 92. 0.08
MILE 31.50 833.72 499434. 6.72 74317. 3571. 15.78 0.0250 0. 95. 0.26
MILE 30.10 833.44 499432. 6.07 82263. 1401. 14.93 0.0200 0. 93. 0.14
MILE 29.00 833.25 499431. 6.14 81396. 2053. 16.30 0.0200 0. 94. 0.17
MILE 27.30 832.98 499430. 6.19 80632. 1892. 16.76 0.0230 0. 96. 0.17
MILE 25.20 832.78 499430. 5.44 91855. 1829. 17.88 0.0230 0. 98. 0.14
MILE 23.10 832.32 499429. 6.11 81690. 2153. 16.45 0.0230 0. 102. 0.17

0DATE 10-23-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 0.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80 895.53 500000. 12.64 39562. 1102. 10.65 0.0290 0. 77. 0.37

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 497 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 77.70	893.07	499997.	9.85	50782.	1345.	11.76	0.0400	0.	82.	0.28
MILE 75.60	884.98	499990.	11.20	44631.	3087.	10.82	0.0400	0.	78.	0.52
MILE 73.50	873.85	499977.	13.15	38011.	2350.	11.40	0.0330	0.	75.	0.58
MILE 71.40	871.28	499965.	8.27	60438.	1921.	12.61	0.0400	0.	73.	0.26
MILE 69.30	866.96	499953.	9.72	51431.	1876.	11.46	0.0340	0.	68.	0.33
MILE 67.20	864.77	499930.	6.35	78667.	4971.	11.06	0.0340	0.	74.	0.28
MILE 65.10	860.69	499890.	8.52	58695.	5602.	11.03	0.0320	0.	74.	0.46
MILE 63.00	859.32	499855.	5.00	99954.	3456.	9.29	0.0400	0.	78.	0.16
MILE 60.90	854.88	499829.	7.31	68378.	3172.	9.47	0.0450	0.	78.	0.28
MILE 58.80	847.12	499806.	8.53	58611.	2503.	8.89	0.0400	0.	74.	0.31
MILE 57.00	845.45	499789.	8.18	61135.	2643.	8.92	0.0200	0.	71.	0.30
MILE 55.00	842.84	499770.	9.71	51471.	2662.	8.87	0.0200	0.	69.	0.39
MILE 53.10	841.69	499752.	7.72	64744.	3174.	10.26	0.0200	0.	68.	0.30
MILE 51.00	840.27	499729.	8.12	61505.	4075.	10.43	0.0200	0.	71.	0.37
MILE 48.30	839.67	499679.	6.17	80979.	8353.	13.18	0.0200	0.	71.	0.35
MILE 46.20	838.97	499629.	6.84	73006.	8090.	12.49	0.0200	0.	77.	0.40
MILE 44.10	839.03	499594.	4.05	123340.	3626.	11.54	0.0300	0.	84.	0.12
MILE 43.70	837.17	499590.	11.12	44928.	3549.	14.58	0.0300	0.	84.	0.55
MILE 42.00	837.74	499577.	4.37	114443.	3578.	10.44	0.0300	0.	88.	0.14
MILE 39.10	835.45	499558.	8.07	61884.	3450.	13.81	0.0230	0.	84.	0.34
MILE 37.00	835.62	499550.	4.56	109597.	2328.	14.11	0.0280	0.	84.	0.12
MILE 36.00	834.50	499547.	8.33	59940.	1654.	14.33	0.0280	0.	86.	0.24
MILE 34.60	834.22	499545.	6.46	77365.	2415.	15.49	0.0280	0.	86.	0.20
MILE 33.60	834.61	499542.	2.76	181064.	4590.	15.13	0.0290	0.	92.	0.08
MILE 31.50	833.72	499535.	6.72	74318.	3571.	15.78	0.0250	0.	95.	0.26
MILE 30.10	833.44	499533.	6.07	82264.	1401.	14.93	0.0200	0.	93.	0.14
MILE 29.00	833.25	499533.	6.14	81397.	2053.	16.30	0.0200	0.	94.	0.17
MILE 27.30	832.98	499532.	6.20	80633.	1892.	16.76	0.0230	0.	96.	0.17
MILE 25.20	832.78	499531.	5.44	91855.	1829.	17.88	0.0230	0.	98.	0.14
MILE 23.10	832.32	499531.	6.11	81690.	2153.	16.45	0.0230	0.	102.	0.17

ODATE 10-23-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 1.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	895.53	500000.	12.64	39562.	1102.	10.65	0.0290	0.	77.	0.37
MILE 77.70	893.07	499997.	9.85	50782.	1345.	11.76	0.0400	0.	82.	0.28
MILE 75.60	884.98	499992.	11.20	44632.	3087.	10.82	0.0400	0.	78.	0.52
MILE 73.50	873.85	499981.	13.15	38012.	2350.	11.40	0.0330	0.	75.	0.58
MILE 71.40	871.29	499971.	8.27	60440.	1921.	12.61	0.0400	0.	73.	0.26
MILE 69.30	866.97	499961.	9.72	51433.	1876.	11.46	0.0340	0.	68.	0.33
MILE 67.20	864.77	499942.	6.35	78670.	4971.	11.06	0.0340	0.	74.	0.28
MILE 65.10	860.69	499909.	8.52	58697.	5602.	11.03	0.0320	0.	74.	0.46
MILE 63.00	859.32	499881.	5.00	99960.	3456.	9.29	0.0400	0.	78.	0.16
MILE 60.90	854.88	499859.	7.31	68382.	3172.	9.47	0.0450	0.	78.	0.28
MILE 58.80	847.12	499840.	8.53	58615.	2503.	8.89	0.0400	0.	74.	0.31
MILE 57.00	845.45	499826.	8.18	61139.	2643.	8.92	0.0200	0.	71.	0.30

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 498 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	55.00	842.84	499811.	9.71	51474.	2662.	8.87	0.0200	0.	69.	0.39
MILE	53.10	841.70	499796.	7.72	64747.	3174.	10.26	0.0200	0.	68.	0.30
MILE	51.00	840.27	499777.	8.13	61508.	4075.	10.43	0.0200	0.	71.	0.37
MILE	48.30	839.67	499736.	6.17	80982.	8353.	13.18	0.0200	0.	71.	0.35
MILE	46.20	838.97	499695.	6.84	73009.	8090.	12.49	0.0200	0.	77.	0.40
MILE	44.10	839.03	499666.	4.05	123345.	3626.	11.54	0.0300	0.	84.	0.12
MILE	43.70	837.17	499663.	11.12	44929.	3549.	14.58	0.0300	0.	84.	0.55
MILE	42.00	837.74	499652.	4.37	114447.	3578.	10.44	0.0300	0.	88.	0.14
MILE	39.10	835.45	499637.	8.07	61885.	3451.	13.81	0.0230	0.	84.	0.34
MILE	37.00	835.62	499630.	4.56	109600.	2328.	14.11	0.0280	0.	84.	0.12
MILE	36.00	834.50	499628.	8.34	59940.	1654.	14.33	0.0280	0.	86.	0.24
MILE	34.60	834.22	499626.	6.46	77366.	2415.	15.49	0.0280	0.	86.	0.20
MILE	33.60	834.61	499624.	2.76	181066.	4590.	15.13	0.0290	0.	92.	0.08
MILE	31.50	833.72	499618.	6.72	74318.	3571.	15.78	0.0250	0.	95.	0.26
MILE	30.10	833.44	499616.	6.07	82264.	1401.	14.93	0.0200	0.	93.	0.14
MILE	29.00	833.25	499616.	6.14	81397.	2053.	16.30	0.0200	0.	94.	0.17
MILE	27.30	832.98	499615.	6.20	80633.	1892.	16.76	0.0230	0.	96.	0.17
MILE	25.20	832.78	499615.	5.44	91855.	1829.	17.88	0.0230	0.	98.	0.14
MILE	23.10	832.32	499614.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.17

0DATE 10-23-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 2.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
	INFLOW DEPTH	FROUDE									
MILE	79.80	895.53	500000.	12.64	39563.	1102.	10.65	0.0290	0.	77.	0.37
MILE	77.70	893.07	499998.	9.85	50783.	1345.	11.76	0.0400	0.	82.	0.28
MILE	75.60	884.98	499993.	11.20	44632.	3087.	10.82	0.0400	0.	78.	0.52
MILE	73.50	873.85	499985.	13.15	38013.	2350.	11.40	0.0330	0.	75.	0.58
MILE	71.40	871.29	499976.	8.27	60442.	1921.	12.61	0.0400	0.	73.	0.26
MILE	69.30	866.97	499968.	9.72	51434.	1877.	11.46	0.0340	0.	68.	0.33
MILE	67.20	864.77	499952.	6.35	78672.	4971.	11.06	0.0340	0.	74.	0.28
MILE	65.10	860.69	499925.	8.52	58699.	5603.	11.03	0.0320	0.	74.	0.46
MILE	63.00	859.32	499901.	5.00	99964.	3456.	9.30	0.0400	0.	78.	0.16
MILE	60.90	854.88	499884.	7.31	68385.	3173.	9.47	0.0450	0.	78.	0.28
MILE	58.80	847.12	499868.	8.53	58617.	2503.	8.89	0.0400	0.	74.	0.31
MILE	57.00	845.45	499857.	8.18	61142.	2644.	8.92	0.0200	0.	71.	0.30
MILE	55.00	842.85	499844.	9.71	51476.	2662.	8.87	0.0200	0.	69.	0.39
MILE	53.10	841.70	499832.	7.72	64749.	3174.	10.26	0.0200	0.	68.	0.30
MILE	51.00	840.27	499816.	8.13	61510.	4075.	10.43	0.0200	0.	71.	0.37
MILE	48.30	839.67	499782.	6.17	80985.	8354.	13.18	0.0200	0.	71.	0.35
MILE	46.20	838.97	499749.	6.84	73011.	8090.	12.49	0.0200	0.	77.	0.40
MILE	44.10	839.03	499725.	4.05	123349.	3626.	11.54	0.0300	0.	84.	0.12
MILE	43.70	837.17	499723.	11.12	44930.	3549.	14.58	0.0300	0.	84.	0.55
MILE	42.00	837.74	499714.	4.37	114451.	3578.	10.44	0.0300	0.	88.	0.14
MILE	39.10	835.45	499701.	8.07	61886.	3451.	13.81	0.0230	0.	84.	0.34
MILE	37.00	835.62	499696.	4.56	109601.	2328.	14.11	0.0280	0.	84.	0.12
MILE	36.00	834.51	499694.	8.34	59941.	1654.	14.33	0.0280	0.	86.	0.24

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 499 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	34.60	834.22	499692.	6.46	77366.	2415.	15.49	0.0280	0.	86.	0.20
MILE	33.60	834.61	499690.	2.76	181068.	4590.	15.13	0.0290	0.	92.	0.08
MILE	31.50	833.72	499685.	6.72	74319.	3571.	15.78	0.0250	0.	95.	0.26
MILE	30.10	833.44	499684.	6.07	82264.	1401.	14.93	0.0200	0.	93.	0.14
MILE	29.00	833.25	499684.	6.14	81397.	2053.	16.30	0.0200	0.	94.	0.17
MILE	27.30	832.98	499683.	6.20	80633.	1892.	16.76	0.0230	0.	96.	0.17
MILE	25.20	832.78	499683.	5.44	91855.	1829.	17.88	0.0230	0.	98.	0.14
MILE	23.10	832.32	499683.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

0DATE 10-23-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	3.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL	
INFLOW	DEPTH	FROUDE									
MILE	79.80	895.53	500000.	12.64	39563.	1102.	10.65	0.0290	0.	77.	0.37
MILE	77.70	893.07	499998.	9.85	50784.	1345.	11.76	0.0400	0.	82.	0.28
MILE	75.60	884.98	499994.	11.20	44633.	3087.	10.82	0.0400	0.	78.	0.52
MILE	73.50	873.85	499987.	13.15	38014.	2350.	11.40	0.0330	0.	75.	0.58
MILE	71.40	871.29	499980.	8.27	60443.	1921.	12.61	0.0400	0.	73.	0.26
MILE	69.30	866.97	499974.	9.72	51435.	1877.	11.46	0.0340	0.	68.	0.33
MILE	67.20	864.77	499960.	6.35	78674.	4972.	11.06	0.0340	0.	74.	0.28
MILE	65.10	860.69	499938.	8.52	58700.	5603.	11.03	0.0320	0.	74.	0.46
MILE	63.00	859.33	499919.	5.00	99968.	3456.	9.30	0.0400	0.	78.	0.16
MILE	60.90	854.88	499904.	7.31	68387.	3173.	9.47	0.0450	0.	78.	0.28
MILE	58.80	847.12	499891.	8.53	58619.	2503.	8.89	0.0400	0.	74.	0.31
MILE	57.00	845.45	499882.	8.18	61144.	2644.	8.92	0.0200	0.	71.	0.30
MILE	55.00	842.85	499872.	9.71	51478.	2662.	8.87	0.0200	0.	69.	0.39
MILE	53.10	841.70	499862.	7.72	64751.	3174.	10.26	0.0200	0.	68.	0.30
MILE	51.00	840.27	499848.	8.13	61511.	4075.	10.43	0.0200	0.	71.	0.37
MILE	48.30	839.67	499821.	6.17	80987.	8354.	13.18	0.0200	0.	71.	0.35
MILE	46.20	838.97	499793.	6.85	73013.	8091.	12.49	0.0200	0.	77.	0.40
MILE	44.10	839.03	499774.	4.05	123352.	3626.	11.54	0.0300	0.	84.	0.12
MILE	43.70	837.18	499772.	11.12	44931.	3549.	14.58	0.0300	0.	84.	0.55
MILE	42.00	837.74	499764.	4.37	114454.	3578.	10.44	0.0300	0.	88.	0.14
MILE	39.10	835.45	499754.	8.08	61887.	3451.	13.81	0.0230	0.	84.	0.34
MILE	37.00	835.62	499749.	4.56	109603.	2328.	14.11	0.0280	0.	84.	0.12
MILE	36.00	834.51	499748.	8.34	59941.	1654.	14.33	0.0280	0.	86.	0.24
MILE	34.60	834.22	499747.	6.46	77367.	2415.	15.49	0.0280	0.	86.	0.20
MILE	33.60	834.61	499745.	2.76	181069.	4590.	15.13	0.0290	0.	92.	0.08
MILE	31.50	833.72	499741.	6.72	74319.	3571.	15.78	0.0250	0.	95.	0.26
MILE	30.10	833.44	499740.	6.07	82265.	1401.	14.93	0.0200	0.	93.	0.14
MILE	29.00	833.25	499740.	6.14	81397.	2053.	16.30	0.0200	0.	94.	0.17
MILE	27.30	832.98	499739.	6.20	80633.	1892.	16.76	0.0230	0.	96.	0.17
MILE	25.20	832.78	499739.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE	23.10	832.32	499739.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

ODATE 10-23-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	4.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL
INFLOW	DEPTH	FROUDE							
MILE	79.80	895.53	500000.	12.64	39564.	1102.	10.65	0.0290	0. 77. 0.37
MILE	77.70	893.07	499998.	9.85	50784.	1345.	11.76	0.0400	0. 82. 0.28
MILE	75.60	884.98	499995.	11.20	44633.	3087.	10.82	0.0400	0. 78. 0.52
MILE	73.50	873.85	499989.	13.15	38014.	2350.	11.40	0.0330	0. 75. 0.58
MILE	71.40	871.29	499984.	8.27	60444.	1921.	12.61	0.0400	0. 73. 0.26
MILE	69.30	866.97	499978.	9.72	51436.	1877.	11.46	0.0340	0. 68. 0.33
MILE	67.20	864.77	499967.	6.35	78675.	4972.	11.06	0.0340	0. 74. 0.28
MILE	65.10	860.69	499949.	8.52	58701.	5603.	11.03	0.0320	0. 74. 0.46
MILE	63.00	859.33	499933.	5.00	99971.	3456.	9.30	0.0400	0. 78. 0.16
MILE	60.90	854.88	499921.	7.31	68390.	3173.	9.47	0.0450	0. 78. 0.28
MILE	58.80	847.12	499910.	8.53	58621.	2503.	8.89	0.0400	0. 74. 0.31
MILE	57.00	845.46	499903.	8.18	61146.	2644.	8.92	0.0200	0. 71. 0.30
MILE	55.00	842.85	499894.	9.71	51480.	2662.	8.87	0.0200	0. 69. 0.39
MILE	53.10	841.70	499886.	7.72	64752.	3174.	10.26	0.0200	0. 68. 0.30
MILE	51.00	840.27	499875.	8.13	61513.	4075.	10.43	0.0200	0. 71. 0.37
MILE	48.30	839.67	499852.	6.17	80988.	8354.	13.18	0.0200	0. 71. 0.35
MILE	46.20	838.97	499829.	6.85	73014.	8091.	12.49	0.0200	0. 77. 0.40
MILE	44.10	839.03	499813.	4.05	123355.	3626.	11.54	0.0300	0. 84. 0.12
MILE	43.70	837.18	499812.	11.12	44931.	3549.	14.58	0.0300	0. 84. 0.55
MILE	42.00	837.75	499806.	4.37	114456.	3578.	10.44	0.0300	0. 88. 0.14
MILE	39.10	835.45	499797.	8.08	61888.	3451.	13.81	0.0230	0. 84. 0.34
MILE	37.00	835.62	499793.	4.56	109604.	2328.	14.11	0.0280	0. 84. 0.12
MILE	36.00	834.51	499792.	8.34	59942.	1654.	14.33	0.0280	0. 86. 0.24
MILE	34.60	834.22	499791.	6.46	77367.	2415.	15.49	0.0280	0. 86. 0.20
MILE	33.60	834.62	499790.	2.76	181071.	4590.	15.13	0.0290	0. 92. 0.08
MILE	31.50	833.72	499787.	6.72	74319.	3571.	15.78	0.0250	0. 95. 0.26
MILE	30.10	833.44	499786.	6.08	82265.	1401.	14.93	0.0200	0. 93. 0.14
MILE	29.00	833.25	499786.	6.14	81398.	2053.	16.30	0.0200	0. 94. 0.17
MILE	27.30	832.98	499785.	6.20	80633.	1892.	16.76	0.0230	0. 96. 0.17
MILE	25.20	832.78	499785.	5.44	91856.	1829.	17.88	0.0230	0. 98. 0.14
MILE	23.10	832.32	499785.	6.12	81690.	2153.	16.45	0.0230	0. 102. 0.18

ODATE 10-23-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	5.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL
INFLOW	DEPTH	FROUDE							
MILE	79.80	895.53	500000.	12.64	39564.	1102.	10.65	0.0290	0. 77. 0.37
MILE	77.70	893.07	499999.	9.85	50785.	1345.	11.76	0.0400	0. 82. 0.28
MILE	75.60	884.98	499996.	11.20	44634.	3087.	10.82	0.0400	0. 78. 0.52
MILE	73.50	873.85	499991.	13.15	38014.	2350.	11.40	0.0330	0. 75. 0.58
MILE	71.40	871.29	499987.	8.27	60445.	1921.	12.61	0.0400	0. 73. 0.26

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 501 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	69.30	866.97	499982.	9.72	51437.	1877.	11.46	0.0340	0.	68.	0.33
MILE	67.20	864.77	499973.	6.35	78677.	4972.	11.06	0.0340	0.	74.	0.28
MILE	65.10	860.70	499958.	8.52	58702.	5603.	11.03	0.0320	0.	74.	0.46
MILE	63.00	859.33	499944.	5.00	99973.	3456.	9.30	0.0400	0.	78.	0.16
MILE	60.90	854.88	499935.	7.31	68391.	3173.	9.47	0.0450	0.	78.	0.28
MILE	58.80	847.13	499926.	8.53	58622.	2503.	8.89	0.0400	0.	74.	0.31
MILE	57.00	845.46	499920.	8.18	61147.	2644.	8.92	0.0200	0.	71.	0.30
MILE	55.00	842.85	499913.	9.71	51481.	2662.	8.87	0.0200	0.	69.	0.39
MILE	53.10	841.70	499906.	7.72	64754.	3174.	10.26	0.0200	0.	68.	0.30
MILE	51.00	840.28	499897.	8.13	61514.	4075.	10.43	0.0200	0.	71.	0.37
MILE	48.30	839.68	499878.	6.17	80989.	8354.	13.18	0.0200	0.	71.	0.35
MILE	46.20	838.97	499859.	6.85	73015.	8091.	12.49	0.0200	0.	77.	0.40
MILE	44.10	839.03	499846.	4.05	123357.	3626.	11.54	0.0300	0.	84.	0.12
MILE	43.70	837.18	499845.	11.12	44932.	3549.	14.58	0.0300	0.	84.	0.55
MILE	42.00	837.75	499840.	4.37	114458.	3578.	10.44	0.0300	0.	88.	0.14
MILE	39.10	835.46	499833.	8.08	61888.	3451.	13.81	0.0230	0.	84.	0.34
MILE	37.00	835.62	499830.	4.56	109605.	2328.	14.11	0.0280	0.	84.	0.12
MILE	36.00	834.51	499829.	8.34	59942.	1654.	14.33	0.0280	0.	86.	0.24
MILE	34.60	834.22	499828.	6.46	77367.	2415.	15.49	0.0280	0.	86.	0.20
MILE	33.60	834.62	499827.	2.76	181072.	4590.	15.13	0.0290	0.	92.	0.08
MILE	31.50	833.72	499824.	6.73	74320.	3571.	15.78	0.0250	0.	95.	0.26
MILE	30.10	833.44	499823.	6.08	82265.	1401.	14.93	0.0200	0.	93.	0.14
MILE	29.00	833.25	499823.	6.14	81398.	2053.	16.30	0.0200	0.	94.	0.17
MILE	27.30	832.98	499823.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE	25.20	832.78	499823.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE	23.10	832.32	499823.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

0DATE 10-23-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 6.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE	79.80	895.53	500000.	12.64	39564.	1102.	10.65	0.0290	0.	77.	0.37
MILE	77.70	893.07	499999.	9.85	50785.	1345.	11.76	0.0400	0.	82.	0.28
MILE	75.60	884.98	499997.	11.20	44634.	3087.	10.82	0.0400	0.	78.	0.52
MILE	73.50	873.85	499993.	13.15	38015.	2350.	11.40	0.0330	0.	75.	0.58
MILE	71.40	871.29	499989.	8.27	60446.	1921.	12.61	0.0400	0.	73.	0.26
MILE	69.30	866.97	499985.	9.72	51437.	1877.	11.46	0.0340	0.	68.	0.33
MILE	67.20	864.77	499978.	6.35	78678.	4972.	11.06	0.0340	0.	74.	0.28
MILE	65.10	860.70	499965.	8.52	58703.	5603.	11.03	0.0320	0.	74.	0.46
MILE	63.00	859.33	499954.	5.00	99975.	3456.	9.30	0.0400	0.	78.	0.16
MILE	60.90	854.88	499946.	7.31	68393.	3173.	9.47	0.0450	0.	78.	0.28
MILE	58.80	847.13	499939.	8.53	58624.	2503.	8.89	0.0400	0.	74.	0.31
MILE	57.00	845.46	499934.	8.18	61149.	2644.	8.92	0.0200	0.	71.	0.30
MILE	55.00	842.85	499928.	9.71	51482.	2662.	8.87	0.0200	0.	69.	0.39
MILE	53.10	841.70	499922.	7.72	64755.	3174.	10.26	0.0200	0.	68.	0.30
MILE	51.00	840.28	499915.	8.13	61515.	4075.	10.43	0.0200	0.	71.	0.37
MILE	48.30	839.68	499899.	6.17	80991.	8354.	13.18	0.0200	0.	71.	0.35

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 46.20	838.97	499884.	6.85	73016.	8091.	12.49	0.0200	0.	77.	0.40
MILE 44.10	839.03	499873.	4.05	123359.	3626.	11.54	0.0300	0.	84.	0.12
MILE 43.70	837.18	499872.	11.13	44932.	3549.	14.58	0.0300	0.	84.	0.55
MILE 42.00	837.75	499868.	4.37	114460.	3579.	10.44	0.0300	0.	88.	0.14
MILE 39.10	835.46	499862.	8.08	61888.	3451.	13.81	0.0230	0.	84.	0.34
MILE 37.00	835.62	499860.	4.56	109606.	2328.	14.11	0.0280	0.	84.	0.12
MILE 36.00	834.51	499859.	8.34	59942.	1654.	14.33	0.0280	0.	86.	0.24
MILE 34.60	834.22	499858.	6.46	77368.	2415.	15.49	0.0280	0.	86.	0.20
MILE 33.60	834.62	499857.	2.76	181072.	4590.	15.13	0.0290	0.	92.	0.08
MILE 31.50	833.72	499855.	6.73	74320.	3571.	15.78	0.0250	0.	95.	0.26
MILE 30.10	833.44	499854.	6.08	82265.	1401.	14.93	0.0200	0.	93.	0.14
MILE 29.00	833.25	499854.	6.14	81398.	2053.	16.30	0.0200	0.	94.	0.17
MILE 27.30	832.98	499854.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE 25.20	832.78	499854.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE 23.10	832.32	499854.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

ODATE 10-23-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	7.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL	
INFLOW	DEPTH	FROUDE								
MILE 79.80	895.53	500000.	12.64	39565.	1102.	10.65	0.0290	0.	77.	0.37
MILE 77.70	893.07	499999.	9.85	50785.	1345.	11.76	0.0400	0.	82.	0.28
MILE 75.60	884.98	499997.	11.20	44634.	3087.	10.82	0.0400	0.	78.	0.52
MILE 73.50	873.85	499994.	13.15	38015.	2350.	11.40	0.0330	0.	75.	0.58
MILE 71.40	871.29	499991.	8.27	60446.	1921.	12.61	0.0400	0.	73.	0.26
MILE 69.30	866.97	499988.	9.72	51438.	1877.	11.46	0.0340	0.	68.	0.33
MILE 67.20	864.77	499981.	6.35	78678.	4972.	11.06	0.0340	0.	74.	0.28
MILE 65.10	860.70	499971.	8.52	58703.	5603.	11.03	0.0320	0.	74.	0.46
MILE 63.00	859.33	499962.	5.00	99977.	3456.	9.30	0.0400	0.	78.	0.16
MILE 60.90	854.89	499955.	7.31	68394.	3173.	9.47	0.0450	0.	78.	0.28
MILE 58.80	847.13	499949.	8.53	58625.	2503.	8.89	0.0400	0.	74.	0.31
MILE 57.00	845.46	499945.	8.18	61150.	2644.	8.92	0.0200	0.	71.	0.30
MILE 55.00	842.85	499940.	9.71	51483.	2662.	8.87	0.0200	0.	69.	0.39
MILE 53.10	841.70	499936.	7.72	64755.	3174.	10.26	0.0200	0.	68.	0.30
MILE 51.00	840.28	499930.	8.13	61515.	4075.	10.43	0.0200	0.	71.	0.37
MILE 48.30	839.68	499917.	6.17	80991.	8354.	13.18	0.0200	0.	71.	0.35
MILE 46.20	838.97	499904.	6.85	73017.	8091.	12.49	0.0200	0.	77.	0.40
MILE 44.10	839.03	499895.	4.05	123360.	3626.	11.54	0.0300	0.	84.	0.12
MILE 43.70	837.18	499894.	11.13	44932.	3549.	14.58	0.0300	0.	84.	0.55
MILE 42.00	837.75	499891.	4.37	114461.	3579.	10.44	0.0300	0.	88.	0.14
MILE 39.10	835.46	499886.	8.08	61889.	3451.	13.81	0.0230	0.	84.	0.34
MILE 37.00	835.62	499884.	4.56	109607.	2328.	14.11	0.0280	0.	84.	0.12
MILE 36.00	834.51	499883.	8.34	59943.	1654.	14.33	0.0280	0.	86.	0.24
MILE 34.60	834.22	499883.	6.46	77368.	2415.	15.49	0.0280	0.	86.	0.20
MILE 33.60	834.62	499882.	2.76	181073.	4590.	15.13	0.0290	0.	92.	0.08
MILE 31.50	833.72	499880.	6.73	74320.	3571.	15.78	0.0250	0.	95.	0.26
MILE 30.10	833.44	499880.	6.08	82265.	1401.	14.93	0.0200	0.	93.	0.14

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 503 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	29.00	833.25	499880.	6.14	81398.	2053.	16.30	0.0200	0.	94.	0.17
MILE	27.30	832.98	499879.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE	25.20	832.78	499879.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE	23.10	832.32	499879.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

0DATE 10-23-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 8.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE	79.80	895.53	500000.	12.64	39565.	1102.	10.65	0.0290	0.	77.	0.37
MILE	77.70	893.07	499999.	9.85	50785.	1346.	11.76	0.0400	0.	82.	0.28
MILE	75.60	884.98	499998.	11.20	44635.	3087.	10.82	0.0400	0.	78.	0.52
MILE	73.50	873.85	499995.	13.15	38015.	2350.	11.40	0.0330	0.	75.	0.58
MILE	71.40	871.29	499992.	8.27	60447.	1921.	12.61	0.0400	0.	73.	0.26
MILE	69.30	866.97	499990.	9.72	51438.	1877.	11.46	0.0340	0.	68.	0.33
MILE	67.20	864.77	499985.	6.35	78679.	4972.	11.06	0.0340	0.	74.	0.28
MILE	65.10	860.70	499976.	8.52	58704.	5603.	11.03	0.0320	0.	74.	0.46
MILE	63.00	859.33	499969.	5.00	99978.	3456.	9.30	0.0400	0.	78.	0.16
MILE	60.90	854.89	499963.	7.31	68395.	3173.	9.47	0.0450	0.	78.	0.28
MILE	58.80	847.13	499958.	8.53	58625.	2503.	8.89	0.0400	0.	74.	0.31
MILE	57.00	845.46	499955.	8.18	61150.	2644.	8.92	0.0200	0.	71.	0.30
MILE	55.00	842.85	499951.	9.71	51484.	2662.	8.87	0.0200	0.	69.	0.39
MILE	53.10	841.70	499947.	7.72	64756.	3174.	10.26	0.0200	0.	68.	0.30
MILE	51.00	840.28	499942.	8.13	61516.	4075.	10.43	0.0200	0.	71.	0.37
MILE	48.30	839.68	499931.	6.17	80992.	8354.	13.18	0.0200	0.	71.	0.35
MILE	46.20	838.97	499921.	6.85	73018.	8091.	12.49	0.0200	0.	77.	0.40
MILE	44.10	839.03	499914.	4.05	123361.	3626.	11.54	0.0300	0.	84.	0.12
MILE	43.70	837.18	499913.	11.13	44933.	3549.	14.58	0.0300	0.	84.	0.55
MILE	42.00	837.75	499910.	4.37	114463.	3579.	10.44	0.0300	0.	88.	0.14
MILE	39.10	835.46	499906.	8.08	61889.	3451.	13.81	0.0230	0.	84.	0.34
MILE	37.00	835.62	499904.	4.56	109607.	2328.	14.11	0.0280	0.	84.	0.12
MILE	36.00	834.51	499904.	8.34	59943.	1654.	14.33	0.0280	0.	86.	0.24
MILE	34.60	834.22	499903.	6.46	77368.	2415.	15.49	0.0280	0.	86.	0.20
MILE	33.60	834.62	499903.	2.76	181073.	4590.	15.13	0.0290	0.	92.	0.08
MILE	31.50	833.72	499901.	6.73	74320.	3571.	15.78	0.0250	0.	95.	0.26
MILE	30.10	833.44	499901.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14
MILE	29.00	833.25	499901.	6.14	81398.	2053.	16.30	0.0200	0.	94.	0.17
MILE	27.30	832.98	499900.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE	25.20	832.78	499900.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE	23.10	832.32	499900.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

0DATE 10-23-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 504 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

TIME	9.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL
INFLOW	DEPTH	FROUDE								
MILE	79.80	895.53	500000.	12.64	39565.	1102.	10.65	0.0290	0.	77. 0.37
MILE	77.70	893.07	499999.	9.85	50786.	1346.	11.76	0.0400	0.	82. 0.28
MILE	75.60	884.98	499998.	11.20	44635.	3087.	10.82	0.0400	0.	78. 0.52
MILE	73.50	873.85	499996.	13.15	38016.	2350.	11.40	0.0330	0.	75. 0.58
MILE	71.40	871.29	499994.	8.27	60447.	1921.	12.61	0.0400	0.	73. 0.26
MILE	69.30	866.97	499991.	9.72	51439.	1877.	11.46	0.0340	0.	68. 0.33
MILE	67.20	864.77	499987.	6.35	78680.	4972.	11.06	0.0340	0.	74. 0.28
MILE	65.10	860.70	499980.	8.52	58704.	5603.	11.03	0.0320	0.	74. 0.46
MILE	63.00	859.33	499974.	5.00	99979.	3456.	9.30	0.0400	0.	78. 0.16
MILE	60.90	854.89	499969.	7.31	68396.	3173.	9.47	0.0450	0.	78. 0.28
MILE	58.80	847.13	499965.	8.53	58626.	2503.	8.89	0.0400	0.	74. 0.31
MILE	57.00	845.46	499962.	8.18	61151.	2644.	8.92	0.0200	0.	71. 0.30
MILE	55.00	842.85	499959.	9.71	51484.	2662.	8.87	0.0200	0.	69. 0.39
MILE	53.10	841.70	499956.	7.72	64757.	3174.	10.26	0.0200	0.	68. 0.30
MILE	51.00	840.28	499952.	8.13	61517.	4075.	10.43	0.0200	0.	71. 0.37
MILE	48.30	839.68	499943.	6.17	80993.	8354.	13.18	0.0200	0.	71. 0.35
MILE	46.20	838.97	499935.	6.85	73018.	8091.	12.49	0.0200	0.	77. 0.40
MILE	44.10	839.03	499929.	4.05	123362.	3626.	11.54	0.0300	0.	84. 0.12
MILE	43.70	837.18	499928.	11.13	44933.	3549.	14.58	0.0300	0.	84. 0.55
MILE	42.00	837.75	499926.	4.37	114464.	3579.	10.44	0.0300	0.	88. 0.14
MILE	39.10	835.46	499922.	8.08	61889.	3451.	13.81	0.0230	0.	84. 0.34
MILE	37.00	835.62	499921.	4.56	109608.	2328.	14.11	0.0280	0.	84. 0.12
MILE	36.00	834.51	499921.	8.34	59943.	1654.	14.33	0.0280	0.	86. 0.24
MILE	34.60	834.22	499920.	6.46	77368.	2415.	15.49	0.0280	0.	86. 0.20
MILE	33.60	834.62	499920.	2.76	181074.	4590.	15.13	0.0290	0.	92. 0.08
MILE	31.50	833.73	499918.	6.73	74320.	3571.	15.78	0.0250	0.	95. 0.26
MILE	30.10	833.44	499918.	6.08	82266.	1401.	14.93	0.0200	0.	93. 0.14
MILE	29.00	833.25	499918.	6.14	81398.	2053.	16.30	0.0200	0.	94. 0.17
MILE	27.30	832.98	499918.	6.20	80634.	1892.	16.76	0.0230	0.	96. 0.17
MILE	25.20	832.78	499918.	5.44	91856.	1829.	17.88	0.0230	0.	98. 0.14
MILE	23.10	832.32	499918.	6.12	81690.	2153.	16.45	0.0230	0.	102. 0.18

0DATE 10-23-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	10.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL
INFLOW	DEPTH	FROUDE								
MILE	79.80	895.53	500000.	12.64	39565.	1102.	10.65	0.0290	0.	77. 0.37
MILE	77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82. 0.28
MILE	75.60	884.98	499998.	11.20	44635.	3087.	10.82	0.0400	0.	78. 0.52
MILE	73.50	873.85	499997.	13.15	38016.	2350.	11.40	0.0330	0.	75. 0.58
MILE	71.40	871.29	499995.	8.27	60447.	1921.	12.61	0.0400	0.	73. 0.26
MILE	69.30	866.97	499993.	9.72	51439.	1877.	11.46	0.0340	0.	68. 0.33
MILE	67.20	864.77	499989.	6.35	78680.	4972.	11.06	0.0340	0.	74. 0.28
MILE	65.10	860.70	499984.	8.52	58705.	5603.	11.03	0.0320	0.	74. 0.46

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 505 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	63.00	859.33	499978.	5.00	99980.	3456.	9.30	0.0400	0.	78.	0.16
MILE	60.90	854.89	499975.	7.31	68397.	3173.	9.47	0.0450	0.	78.	0.28
MILE	58.80	847.13	499971.	8.53	58627.	2503.	8.89	0.0400	0.	74.	0.31
MILE	57.00	845.46	499969.	8.18	61152.	2644.	8.92	0.0200	0.	71.	0.30
MILE	55.00	842.85	499966.	9.71	51485.	2662.	8.87	0.0200	0.	69.	0.39
MILE	53.10	841.70	499964.	7.72	64757.	3174.	10.26	0.0200	0.	68.	0.30
MILE	51.00	840.28	499960.	8.13	61517.	4075.	10.43	0.0200	0.	71.	0.37
MILE	48.30	839.68	499953.	6.17	80993.	8355.	13.18	0.0200	0.	71.	0.35
MILE	46.20	838.97	499946.	6.85	73019.	8091.	12.49	0.0200	0.	77.	0.40
MILE	44.10	839.03	499941.	4.05	123363.	3626.	11.54	0.0300	0.	84.	0.12
MILE	43.70	837.18	499940.	11.13	44933.	3549.	14.58	0.0300	0.	84.	0.55
MILE	42.00	837.75	499939.	4.37	114464.	3579.	10.44	0.0300	0.	88.	0.14
MILE	39.10	835.46	499936.	8.08	61889.	3451.	13.81	0.0230	0.	84.	0.34
MILE	37.00	835.62	499935.	4.56	109608.	2328.	14.11	0.0280	0.	84.	0.12
MILE	36.00	834.51	499934.	8.34	59943.	1654.	14.33	0.0280	0.	86.	0.24
MILE	34.60	834.22	499934.	6.46	77368.	2415.	15.49	0.0280	0.	86.	0.20
MILE	33.60	834.62	499934.	2.76	181074.	4590.	15.13	0.0290	0.	92.	0.08
MILE	31.50	833.73	499933.	6.73	74320.	3571.	15.78	0.0250	0.	95.	0.26
MILE	30.10	833.44	499932.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14
MILE	29.00	833.25	499932.	6.14	81398.	2053.	16.30	0.0200	0.	94.	0.17
MILE	27.30	832.98	499932.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE	25.20	832.78	499932.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE	23.10	832.32	499932.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

ODATE 10-23-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 11.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	895.53	500000.	12.64	39565.	1102.	10.65	0.0290	0.	77.	0.37
MILE	77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82.	0.28
MILE	75.60	884.98	499999.	11.20	44635.	3087.	10.82	0.0400	0.	78.	0.52
MILE	73.50	873.85	499997.	13.15	38016.	2350.	11.40	0.0330	0.	75.	0.58
MILE	71.40	871.29	499996.	8.27	60448.	1921.	12.61	0.0400	0.	73.	0.26
MILE	69.30	866.97	499994.	9.72	51439.	1877.	11.46	0.0340	0.	68.	0.33
MILE	67.20	864.78	499991.	6.35	78681.	4972.	11.06	0.0340	0.	74.	0.28
MILE	65.10	860.70	499986.	8.52	58705.	5603.	11.03	0.0320	0.	74.	0.46
MILE	63.00	859.33	499982.	5.00	99981.	3456.	9.30	0.0400	0.	78.	0.16
MILE	60.90	854.89	499979.	7.31	68397.	3173.	9.47	0.0450	0.	78.	0.28
MILE	58.80	847.13	499976.	8.53	58627.	2503.	8.89	0.0400	0.	74.	0.31
MILE	57.00	845.46	499974.	8.18	61152.	2644.	8.92	0.0200	0.	71.	0.30
MILE	55.00	842.85	499972.	9.71	51485.	2662.	8.87	0.0200	0.	69.	0.39
MILE	53.10	841.70	499970.	7.72	64758.	3174.	10.26	0.0200	0.	68.	0.30
MILE	51.00	840.28	499967.	8.13	61517.	4075.	10.43	0.0200	0.	71.	0.37
MILE	48.30	839.68	499961.	6.17	80994.	8355.	13.18	0.0200	0.	71.	0.35
MILE	46.20	838.97	499955.	6.85	73019.	8091.	12.49	0.0200	0.	77.	0.40
MILE	44.10	839.03	499951.	4.05	123364.	3626.	11.54	0.0300	0.	84.	0.12
MILE	43.70	837.18	499951.	11.13	44933.	3549.	14.58	0.0300	0.	84.	0.55

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 506 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 42.00	837.75	499949.	4.37	114465.	3579.	10.44	0.0300	0.	88.	0.14
MILE 39.10	835.46	499947.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE 37.00	835.62	499946.	4.56	109609.	2328.	14.11	0.0280	0.	84.	0.12
MILE 36.00	834.51	499946.	8.34	59943.	1654.	14.33	0.0280	0.	86.	0.24
MILE 34.60	834.22	499945.	6.46	77368.	2415.	15.49	0.0280	0.	86.	0.20
MILE 33.60	834.62	499945.	2.76	181074.	4590.	15.13	0.0290	0.	92.	0.08
MILE 31.50	833.73	499944.	6.73	74320.	3571.	15.78	0.0250	0.	95.	0.26
MILE 30.10	833.44	499944.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14
MILE 29.00	833.25	499944.	6.14	81398.	2053.	16.30	0.0200	0.	94.	0.17
MILE 27.30	832.98	499944.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE 25.20	832.78	499944.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE 23.10	832.32	499944.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

0DATE 10-23-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 12.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	895.53	500000.	12.64	39565.	1102.	10.65	0.0290	0.	77.	0.37
MILE 77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82.	0.28
MILE 75.60	884.98	499999.	11.20	44635.	3087.	10.82	0.0400	0.	78.	0.52
MILE 73.50	873.85	499998.	13.15	38016.	2350.	11.40	0.0330	0.	75.	0.58
MILE 71.40	871.29	499996.	8.27	60448.	1921.	12.61	0.0400	0.	73.	0.26
MILE 69.30	866.97	499995.	9.72	51439.	1877.	11.46	0.0340	0.	68.	0.33
MILE 67.20	864.78	499993.	6.35	78681.	4972.	11.06	0.0340	0.	74.	0.28
MILE 65.10	860.70	499989.	8.52	58705.	5603.	11.03	0.0320	0.	74.	0.46
MILE 63.00	859.33	499985.	5.00	99981.	3456.	9.30	0.0400	0.	78.	0.16
MILE 60.90	854.89	499983.	7.31	68398.	3173.	9.47	0.0450	0.	78.	0.28
MILE 58.80	847.13	499980.	8.53	58627.	2503.	8.89	0.0400	0.	74.	0.31
MILE 57.00	845.46	499979.	8.18	61153.	2644.	8.92	0.0200	0.	71.	0.30
MILE 55.00	842.85	499977.	9.71	51486.	2662.	8.87	0.0200	0.	69.	0.39
MILE 53.10	841.70	499975.	7.72	64758.	3174.	10.26	0.0200	0.	68.	0.30
MILE 51.00	840.28	499973.	8.13	61518.	4075.	10.43	0.0200	0.	71.	0.37
MILE 48.30	839.68	499968.	6.17	80994.	8355.	13.18	0.0200	0.	71.	0.35
MILE 46.20	838.97	499963.	6.85	73019.	8091.	12.49	0.0200	0.	77.	0.40
MILE 44.10	839.03	499960.	4.05	123364.	3626.	11.54	0.0300	0.	84.	0.12
MILE 43.70	837.18	499959.	11.13	44933.	3549.	14.58	0.0300	0.	84.	0.55
MILE 42.00	837.75	499958.	4.37	114465.	3579.	10.44	0.0300	0.	88.	0.14
MILE 39.10	835.46	499956.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE 37.00	835.62	499955.	4.56	109609.	2328.	14.11	0.0280	0.	84.	0.12
MILE 36.00	834.51	499955.	8.34	59943.	1654.	14.33	0.0280	0.	86.	0.24
MILE 34.60	834.22	499955.	6.46	77368.	2415.	15.49	0.0280	0.	86.	0.20
MILE 33.60	834.62	499955.	2.76	181075.	4590.	15.13	0.0290	0.	92.	0.08
MILE 31.50	833.73	499954.	6.73	74320.	3571.	15.78	0.0250	0.	95.	0.26
MILE 30.10	833.44	499954.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14
MILE 29.00	833.25	499954.	6.14	81398.	2053.	16.30	0.0200	0.	94.	0.17
MILE 27.30	832.98	499954.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE 25.20	832.78	499953.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 507 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 23.10 832.32 499953. 6.12 81690. 2153. 16.45 0.0230 0. 102. 0.18

0DATE 10-23-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 13.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	895.53	500000.	12.64	39565.	1102.	10.65	0.0290	0.	77.	0.37
MILE 77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82.	0.28
MILE 75.60	884.98	499999.	11.20	44635.	3087.	10.82	0.0400	0.	78.	0.52
MILE 73.50	873.85	499998.	13.15	38016.	2350.	11.40	0.0330	0.	75.	0.58
MILE 71.40	871.29	499997.	8.27	60448.	1921.	12.61	0.0400	0.	73.	0.26
MILE 69.30	866.97	499996.	9.72	51439.	1877.	11.46	0.0340	0.	68.	0.33
MILE 67.20	864.78	499994.	6.35	78681.	4972.	11.06	0.0340	0.	74.	0.28
MILE 65.10	860.70	499991.	8.52	58706.	5603.	11.03	0.0320	0.	74.	0.46
MILE 63.00	859.33	499988.	5.00	99982.	3456.	9.30	0.0400	0.	78.	0.16
MILE 60.90	854.89	499986.	7.31	68398.	3173.	9.47	0.0450	0.	78.	0.28
MILE 58.80	847.13	499984.	8.53	58628.	2503.	8.89	0.0400	0.	74.	0.31
MILE 57.00	845.46	499982.	8.18	61153.	2644.	8.92	0.0200	0.	71.	0.30
MILE 55.00	842.85	499981.	9.71	51486.	2662.	8.87	0.0200	0.	69.	0.39
MILE 53.10	841.70	499979.	7.72	64758.	3174.	10.26	0.0200	0.	68.	0.30
MILE 51.00	840.28	499977.	8.13	61518.	4075.	10.43	0.0200	0.	71.	0.37
MILE 48.30	839.68	499973.	6.17	80994.	8355.	13.18	0.0200	0.	71.	0.35
MILE 46.20	838.97	499969.	6.85	73020.	8091.	12.49	0.0200	0.	77.	0.40
MILE 44.10	839.03	499967.	4.05	123365.	3626.	11.54	0.0300	0.	84.	0.12
MILE 43.70	837.18	499966.	11.13	44933.	3549.	14.58	0.0300	0.	84.	0.55
MILE 42.00	837.75	499965.	4.37	114466.	3579.	10.44	0.0300	0.	88.	0.14
MILE 39.10	835.46	499964.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE 37.00	835.62	499963.	4.56	109609.	2328.	14.11	0.0280	0.	84.	0.12
MILE 36.00	834.51	499963.	8.34	59943.	1654.	14.33	0.0280	0.	86.	0.24
MILE 34.60	834.22	499963.	6.46	77368.	2415.	15.49	0.0280	0.	86.	0.20
MILE 33.60	834.62	499962.	2.76	181075.	4590.	15.13	0.0290	0.	92.	0.08
MILE 31.50	833.73	499962.	6.73	74320.	3571.	15.78	0.0250	0.	95.	0.26
MILE 30.10	833.44	499962.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14
MILE 29.00	833.25	499962.	6.14	81398.	2053.	16.30	0.0200	0.	94.	0.17
MILE 27.30	832.98	499962.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE 25.20	832.78	499961.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE 23.10	832.32	499961.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

0DATE 10-23-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 14.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80 895.53 500000. 12.64 39566. 1102. 10.65 0.0290 0. 77. 0.37

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 508 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82.	0.28
MILE 75.60	884.98	499999.	11.20	44635.	3087.	10.82	0.0400	0.	78.	0.52
MILE 73.50	873.85	499998.	13.15	38016.	2350.	11.40	0.0330	0.	75.	0.58
MILE 71.40	871.29	499998.	8.27	60448.	1921.	12.61	0.0400	0.	73.	0.26
MILE 69.30	866.97	499997.	9.72	51440.	1877.	11.46	0.0340	0.	68.	0.33
MILE 67.20	864.78	499995.	6.35	78681.	4972.	11.06	0.0340	0.	74.	0.28
MILE 65.10	860.70	499992.	8.52	58706.	5603.	11.03	0.0320	0.	74.	0.46
MILE 63.00	859.33	499990.	5.00	99982.	3456.	9.30	0.0400	0.	78.	0.16
MILE 60.90	854.89	499988.	7.31	68398.	3173.	9.47	0.0450	0.	78.	0.28
MILE 58.80	847.13	499986.	8.53	58628.	2503.	8.89	0.0400	0.	74.	0.31
MILE 57.00	845.46	499985.	8.18	61153.	2644.	8.92	0.0200	0.	71.	0.30
MILE 55.00	842.85	499984.	9.71	51486.	2662.	8.87	0.0200	0.	69.	0.39
MILE 53.10	841.70	499983.	7.72	64758.	3174.	10.26	0.0200	0.	68.	0.30
MILE 51.00	840.28	499981.	8.13	61518.	4075.	10.43	0.0200	0.	71.	0.37
MILE 48.30	839.68	499978.	6.17	80995.	8355.	13.18	0.0200	0.	71.	0.35
MILE 46.20	838.97	499975.	6.85	73020.	8091.	12.49	0.0200	0.	77.	0.40
MILE 44.10	839.03	499972.	4.05	123365.	3626.	11.54	0.0300	0.	84.	0.12
MILE 43.70	837.18	499972.	11.13	44933.	3549.	14.58	0.0300	0.	84.	0.55
MILE 42.00	837.75	499971.	4.37	114466.	3579.	10.44	0.0300	0.	88.	0.14
MILE 39.10	835.46	499970.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE 37.00	835.62	499969.	4.56	109609.	2328.	14.11	0.0280	0.	84.	0.12
MILE 36.00	834.51	499969.	8.34	59943.	1654.	14.33	0.0280	0.	86.	0.24
MILE 34.60	834.22	499969.	6.46	77369.	2415.	15.49	0.0280	0.	86.	0.20
MILE 33.60	834.62	499969.	2.76	181075.	4590.	15.13	0.0290	0.	92.	0.08
MILE 31.50	833.73	499968.	6.73	74320.	3571.	15.78	0.0250	0.	95.	0.26
MILE 30.10	833.44	499968.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14
MILE 29.00	833.25	499968.	6.14	81398.	2053.	16.30	0.0200	0.	94.	0.17
MILE 27.30	832.98	499968.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE 25.20	832.78	499968.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE 23.10	832.32	499968.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

ODATE 10-23-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 15.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	895.53	500000.	12.64	39566.	1102.	10.65	0.0290	0.	77.	0.37
MILE 77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82.	0.28
MILE 75.60	884.98	499999.	11.20	44635.	3087.	10.82	0.0400	0.	78.	0.52
MILE 73.50	873.85	499999.	13.15	38016.	2350.	11.40	0.0330	0.	75.	0.58
MILE 71.40	871.29	499998.	8.27	60448.	1921.	12.61	0.0400	0.	73.	0.26
MILE 69.30	866.97	499997.	9.72	51440.	1877.	11.46	0.0340	0.	68.	0.33
MILE 67.20	864.78	499996.	6.35	78681.	4972.	11.06	0.0340	0.	74.	0.28
MILE 65.10	860.70	499994.	8.52	58706.	5603.	11.03	0.0320	0.	74.	0.46
MILE 63.00	859.33	499992.	5.00	99983.	3456.	9.30	0.0400	0.	78.	0.16
MILE 60.90	854.89	499990.	7.31	68398.	3173.	9.47	0.0450	0.	78.	0.28
MILE 58.80	847.13	499989.	8.53	58628.	2503.	8.89	0.0400	0.	74.	0.31
MILE 57.00	845.46	499988.	8.18	61153.	2644.	8.92	0.0200	0.	71.	0.30

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 509 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 55.00	842.85	499987.	9.71	51486.	2662.	8.87	0.0200	0.	69.	0.39
MILE 53.10	841.70	499986.	7.72	64758.	3174.	10.26	0.0200	0.	68.	0.30
MILE 51.00	840.28	499985.	8.13	61518.	4075.	10.43	0.0200	0.	71.	0.37
MILE 48.30	839.68	499982.	6.17	80995.	8355.	13.18	0.0200	0.	71.	0.35
MILE 46.20	838.97	499979.	6.85	73020.	8091.	12.49	0.0200	0.	77.	0.40
MILE 44.10	839.03	499977.	4.05	123366.	3626.	11.54	0.0300	0.	84.	0.12
MILE 43.70	837.18	499977.	11.13	44933.	3549.	14.58	0.0300	0.	84.	0.55
MILE 42.00	837.75	499976.	4.37	114466.	3579.	10.44	0.0300	0.	88.	0.14
MILE 39.10	835.46	499975.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE 37.00	835.62	499975.	4.56	109609.	2328.	14.11	0.0280	0.	84.	0.12
MILE 36.00	834.51	499975.	8.34	59943.	1654.	14.33	0.0280	0.	86.	0.24
MILE 34.60	834.22	499974.	6.46	77369.	2415.	15.49	0.0280	0.	86.	0.20
MILE 33.60	834.62	499974.	2.76	181075.	4590.	15.13	0.0290	0.	92.	0.08
MILE 31.50	833.73	499974.	6.73	74321.	3571.	15.78	0.0250	0.	95.	0.26
MILE 30.10	833.44	499974.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14
MILE 29.00	833.25	499974.	6.14	81399.	2053.	16.30	0.0200	0.	94.	0.17
MILE 27.30	832.98	499974.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE 25.20	832.78	499974.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE 23.10	832.32	499974.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

0DATE 10-23-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 16.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	895.53	500000.	12.64	39566.	1102.	10.65	0.0290	0.	77.	0.37
MILE 77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82.	0.28
MILE 75.60	884.98	499999.	11.20	44635.	3087.	10.82	0.0400	0.	78.	0.52
MILE 73.50	873.85	499999.	13.15	38016.	2350.	11.40	0.0330	0.	75.	0.58
MILE 71.40	871.29	499998.	8.27	60449.	1921.	12.61	0.0400	0.	73.	0.26
MILE 69.30	866.97	499998.	9.72	51440.	1877.	11.46	0.0340	0.	68.	0.33
MILE 67.20	864.78	499997.	6.35	78682.	4972.	11.06	0.0340	0.	74.	0.28
MILE 65.10	860.70	499995.	8.52	58706.	5603.	11.03	0.0320	0.	74.	0.46
MILE 63.00	859.33	499993.	5.00	99983.	3456.	9.30	0.0400	0.	78.	0.16
MILE 60.90	854.89	499992.	7.31	68399.	3173.	9.47	0.0450	0.	78.	0.28
MILE 58.80	847.13	499991.	8.53	58628.	2504.	8.89	0.0400	0.	74.	0.31
MILE 57.00	845.46	499990.	8.18	61154.	2644.	8.92	0.0200	0.	71.	0.30
MILE 55.00	842.85	499989.	9.71	51486.	2662.	8.87	0.0200	0.	69.	0.39
MILE 53.10	841.70	499988.	7.72	64759.	3174.	10.26	0.0200	0.	68.	0.30
MILE 51.00	840.28	499987.	8.13	61518.	4075.	10.43	0.0200	0.	71.	0.37
MILE 48.30	839.68	499985.	6.17	80995.	8355.	13.18	0.0200	0.	71.	0.35
MILE 46.20	838.97	499983.	6.85	73020.	8091.	12.49	0.0200	0.	77.	0.40
MILE 44.10	839.04	499981.	4.05	123366.	3626.	11.54	0.0300	0.	84.	0.12
MILE 43.70	837.18	499981.	11.13	44933.	3549.	14.58	0.0300	0.	84.	0.55
MILE 42.00	837.75	499980.	4.37	114467.	3579.	10.44	0.0300	0.	88.	0.14
MILE 39.10	835.46	499979.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE 37.00	835.62	499979.	4.56	109610.	2328.	14.11	0.0280	0.	84.	0.12
MILE 36.00	834.51	499979.	8.34	59943.	1654.	14.33	0.0280	0.	86.	0.24

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 510 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 34.60	834.22	499979.	6.46	77369.	2415.	15.49	0.0280	0.	86.	0.20
MILE 33.60	834.62	499979.	2.76	181075.	4590.	15.13	0.0290	0.	92.	0.08
MILE 31.50	833.73	499978.	6.73	74321.	3571.	15.78	0.0250	0.	95.	0.26
MILE 30.10	833.44	499978.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14
MILE 29.00	833.25	499978.	6.14	81399.	2053.	16.30	0.0200	0.	94.	0.17
MILE 27.30	832.98	499978.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE 25.20	832.78	499978.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE 23.10	832.32	499978.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

ODATE 10-23-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 17.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	895.53	500000.	12.64	39566.	1102.	10.65	0.0290	0.	77.	0.37
MILE 77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82.	0.28
MILE 75.60	884.98	500000.	11.20	44635.	3087.	10.82	0.0400	0.	78.	0.52
MILE 73.50	873.85	499999.	13.15	38016.	2350.	11.40	0.0330	0.	75.	0.58
MILE 71.40	871.29	499999.	8.27	60449.	1921.	12.61	0.0400	0.	73.	0.26
MILE 69.30	866.97	499998.	9.72	51440.	1877.	11.46	0.0340	0.	68.	0.33
MILE 67.20	864.78	499997.	6.35	78682.	4972.	11.06	0.0340	0.	74.	0.28
MILE 65.10	860.70	499996.	8.52	58706.	5603.	11.03	0.0320	0.	74.	0.46
MILE 63.00	859.33	499994.	5.00	99983.	3457.	9.30	0.0400	0.	78.	0.16
MILE 60.90	854.89	499993.	7.31	68399.	3173.	9.47	0.0450	0.	78.	0.28
MILE 58.80	847.13	499992.	8.53	58629.	2504.	8.89	0.0400	0.	74.	0.31
MILE 57.00	845.46	499992.	8.18	61154.	2644.	8.92	0.0200	0.	71.	0.30
MILE 55.00	842.85	499991.	9.71	51487.	2662.	8.87	0.0200	0.	69.	0.39
MILE 53.10	841.70	499990.	7.72	64759.	3174.	10.26	0.0200	0.	68.	0.30
MILE 51.00	840.28	499989.	8.13	61518.	4075.	10.43	0.0200	0.	71.	0.37
MILE 48.30	839.68	499987.	6.17	80995.	8355.	13.18	0.0200	0.	71.	0.35
MILE 46.20	838.97	499986.	6.85	73020.	8091.	12.49	0.0200	0.	77.	0.40
MILE 44.10	839.04	499984.	4.05	123366.	3626.	11.54	0.0300	0.	84.	0.12
MILE 43.70	837.18	499984.	11.13	44934.	3549.	14.58	0.0300	0.	84.	0.55
MILE 42.00	837.75	499984.	4.37	114467.	3579.	10.44	0.0300	0.	88.	0.14
MILE 39.10	835.46	499983.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE 37.00	835.62	499983.	4.56	109610.	2328.	14.11	0.0280	0.	84.	0.12
MILE 36.00	834.51	499983.	8.34	59943.	1654.	14.33	0.0280	0.	86.	0.24
MILE 34.60	834.22	499982.	6.46	77369.	2415.	15.49	0.0280	0.	86.	0.20
MILE 33.60	834.62	499982.	2.76	181075.	4590.	15.13	0.0290	0.	92.	0.08
MILE 31.50	833.73	499982.	6.73	74321.	3571.	15.78	0.0250	0.	95.	0.26
MILE 30.10	833.44	499982.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14
MILE 29.00	833.25	499982.	6.14	81399.	2053.	16.30	0.0200	0.	94.	0.17
MILE 27.30	832.98	499982.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE 25.20	832.78	499982.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE 23.10	832.32	499982.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

ODATE 10-23-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 18.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	895.53	500000.	12.64	39566.	1102.	10.65	0.0290	0.	77.	0.37
MILE 77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82.	0.28
MILE 75.60	884.98	500000.	11.20	44635.	3087.	10.82	0.0400	0.	78.	0.52
MILE 73.50	873.85	499999.	13.15	38016.	2350.	11.40	0.0330	0.	75.	0.58
MILE 71.40	871.29	499999.	8.27	60449.	1921.	12.61	0.0400	0.	73.	0.26
MILE 69.30	866.97	499998.	9.72	51440.	1877.	11.46	0.0340	0.	68.	0.33
MILE 67.20	864.78	499998.	6.35	78682.	4972.	11.06	0.0340	0.	74.	0.28
MILE 65.10	860.70	499996.	8.52	58706.	5603.	11.03	0.0320	0.	74.	0.46
MILE 63.00	859.33	499995.	5.00	99983.	3457.	9.30	0.0400	0.	78.	0.16
MILE 60.90	854.89	499994.	7.31	68399.	3173.	9.47	0.0450	0.	78.	0.28
MILE 58.80	847.13	499994.	8.53	58629.	2504.	8.89	0.0400	0.	74.	0.31
MILE 57.00	845.46	499993.	8.18	61154.	2644.	8.92	0.0200	0.	71.	0.30
MILE 55.00	842.85	499992.	9.71	51487.	2662.	8.87	0.0200	0.	69.	0.39
MILE 53.10	841.70	499992.	7.72	64759.	3174.	10.26	0.0200	0.	68.	0.30
MILE 51.00	840.28	499991.	8.13	61519.	4075.	10.43	0.0200	0.	71.	0.37
MILE 48.30	839.68	499990.	6.17	80995.	8355.	13.18	0.0200	0.	71.	0.35
MILE 46.20	838.97	499988.	6.85	73020.	8091.	12.49	0.0200	0.	77.	0.40
MILE 44.10	839.04	499987.	4.05	123366.	3626.	11.54	0.0300	0.	84.	0.12
MILE 43.70	837.18	499987.	11.13	44934.	3549.	14.58	0.0300	0.	84.	0.55
MILE 42.00	837.75	499986.	4.37	114467.	3579.	10.44	0.0300	0.	88.	0.14
MILE 39.10	835.46	499986.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE 37.00	835.62	499986.	4.56	109610.	2328.	14.11	0.0280	0.	84.	0.12
MILE 36.00	834.51	499986.	8.34	59943.	1654.	14.33	0.0280	0.	86.	0.24
MILE 34.60	834.22	499985.	6.46	77369.	2415.	15.49	0.0280	0.	86.	0.20
MILE 33.60	834.62	499985.	2.76	181075.	4590.	15.13	0.0290	0.	92.	0.08
MILE 31.50	833.73	499985.	6.73	74321.	3571.	15.78	0.0250	0.	95.	0.26
MILE 30.10	833.44	499985.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14
MILE 29.00	833.25	499985.	6.14	81399.	2053.	16.30	0.0200	0.	94.	0.17
MILE 27.30	832.98	499985.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE 25.20	832.78	499985.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE 23.10	832.32	499985.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

ODATE 10-23-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 19.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	895.53	500000.	12.64	39566.	1102.	10.65	0.0290	0.	77.	0.37
MILE 77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82.	0.28
MILE 75.60	884.98	500000.	11.20	44636.	3087.	10.82	0.0400	0.	78.	0.52
MILE 73.50	873.85	499999.	13.15	38016.	2350.	11.40	0.0330	0.	75.	0.58
MILE 71.40	871.29	499999.	8.27	60449.	1921.	12.61	0.0400	0.	73.	0.26

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 512 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	69.30	866.97	499999.	9.72	51440.	1877.	11.46	0.0340	0.	68.	0.33
MILE	67.20	864.78	499998.	6.35	78682.	4972.	11.06	0.0340	0.	74.	0.28
MILE	65.10	860.70	499997.	8.52	58706.	5603.	11.03	0.0320	0.	74.	0.46
MILE	63.00	859.33	499996.	5.00	99984.	3457.	9.30	0.0400	0.	78.	0.16
MILE	60.90	854.89	499995.	7.31	68399.	3173.	9.47	0.0450	0.	78.	0.28
MILE	58.80	847.13	499995.	8.53	58629.	2504.	8.89	0.0400	0.	74.	0.31
MILE	57.00	845.46	499994.	8.18	61154.	2644.	8.92	0.0200	0.	71.	0.30
MILE	55.00	842.85	499994.	9.71	51487.	2662.	8.87	0.0200	0.	69.	0.39
MILE	53.10	841.70	499993.	7.72	64759.	3174.	10.26	0.0200	0.	68.	0.30
MILE	51.00	840.28	499993.	8.13	61519.	4075.	10.43	0.0200	0.	71.	0.37
MILE	48.30	839.68	499991.	6.17	80995.	8355.	13.18	0.0200	0.	71.	0.35
MILE	46.20	838.97	499990.	6.85	73021.	8091.	12.49	0.0200	0.	77.	0.40
MILE	44.10	839.04	499989.	4.05	123366.	3626.	11.54	0.0300	0.	84.	0.12
MILE	43.70	837.18	499989.	11.13	44934.	3549.	14.58	0.0300	0.	84.	0.55
MILE	42.00	837.75	499989.	4.37	114467.	3579.	10.44	0.0300	0.	88.	0.14
MILE	39.10	835.46	499988.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE	37.00	835.62	499988.	4.56	109610.	2328.	14.11	0.0280	0.	84.	0.12
MILE	36.00	834.51	499988.	8.34	59943.	1654.	14.33	0.0280	0.	86.	0.24
MILE	34.60	834.22	499988.	6.46	77369.	2415.	15.49	0.0280	0.	86.	0.20
MILE	33.60	834.62	499988.	2.76	181076.	4590.	15.13	0.0290	0.	92.	0.08
MILE	31.50	833.73	499988.	6.73	74321.	3571.	15.78	0.0250	0.	95.	0.26
MILE	30.10	833.44	499988.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14
MILE	29.00	833.25	499988.	6.14	81399.	2053.	16.30	0.0200	0.	94.	0.17
MILE	27.30	832.98	499988.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE	25.20	832.78	499988.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE	23.10	832.32	499988.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

0DATE 10-23-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 20.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	895.53	500000.	12.64	39566.	1102.	10.65	0.0290	0.	77.	0.37
MILE	77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82.	0.28
MILE	75.60	884.98	500000.	11.20	44636.	3087.	10.82	0.0400	0.	78.	0.52
MILE	73.50	873.85	499999.	13.15	38016.	2350.	11.40	0.0330	0.	75.	0.58
MILE	71.40	871.29	499999.	8.27	60449.	1921.	12.61	0.0400	0.	73.	0.26
MILE	69.30	866.97	499999.	9.72	51440.	1877.	11.46	0.0340	0.	68.	0.33
MILE	67.20	864.78	499998.	6.35	78682.	4972.	11.06	0.0340	0.	74.	0.28
MILE	65.10	860.70	499997.	8.52	58706.	5603.	11.03	0.0320	0.	74.	0.46
MILE	63.00	859.33	499997.	5.00	99984.	3457.	9.30	0.0400	0.	78.	0.16
MILE	60.90	854.89	499996.	7.31	68399.	3173.	9.47	0.0450	0.	78.	0.28
MILE	58.80	847.13	499996.	8.53	58629.	2504.	8.89	0.0400	0.	74.	0.31
MILE	57.00	845.46	499995.	8.18	61154.	2644.	8.92	0.0200	0.	71.	0.30
MILE	55.00	842.85	499995.	9.71	51487.	2662.	8.87	0.0200	0.	69.	0.39
MILE	53.10	841.70	499994.	7.72	64759.	3174.	10.26	0.0200	0.	68.	0.30
MILE	51.00	840.28	499994.	8.13	61519.	4075.	10.43	0.0200	0.	71.	0.37
MILE	48.30	839.68	499993.	6.17	80995.	8355.	13.18	0.0200	0.	71.	0.35

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	46.20	838.97	499992.	6.85	73021.	8091.	12.49	0.0200	0.	77.	0.40
MILE	44.10	839.04	499991.	4.05	123366.	3626.	11.54	0.0300	0.	84.	0.12
MILE	43.70	837.18	499991.	11.13	44934.	3549.	14.58	0.0300	0.	84.	0.55
MILE	42.00	837.75	499991.	4.37	114467.	3579.	10.44	0.0300	0.	88.	0.14
MILE	39.10	835.46	499990.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE	37.00	835.62	499990.	4.56	109610.	2328.	14.11	0.0280	0.	84.	0.12
MILE	36.00	834.51	499990.	8.34	59943.	1654.	14.33	0.0280	0.	86.	0.24
MILE	34.60	834.22	499990.	6.46	77369.	2415.	15.49	0.0280	0.	86.	0.20
MILE	33.60	834.62	499990.	2.76	181076.	4590.	15.13	0.0290	0.	92.	0.08
MILE	31.50	833.73	499990.	6.73	74321.	3571.	15.78	0.0250	0.	95.	0.26
MILE	30.10	833.44	499990.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14
MILE	29.00	833.25	499990.	6.14	81399.	2053.	16.30	0.0200	0.	94.	0.17
MILE	27.30	832.98	499990.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE	25.20	832.78	499990.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE	23.10	832.32	499990.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

ODATE 10-23-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 21.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
	INFLOW DEPTH	FROUDE									
MILE	79.80	895.53	500000.	12.64	39566.	1102.	10.65	0.0290	0.	77.	0.37
MILE	77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82.	0.28
MILE	75.60	884.98	500000.	11.20	44636.	3087.	10.82	0.0400	0.	78.	0.52
MILE	73.50	873.85	500000.	13.15	38016.	2350.	11.40	0.0330	0.	75.	0.58
MILE	71.40	871.29	499999.	8.27	60449.	1921.	12.61	0.0400	0.	73.	0.26
MILE	69.30	866.97	499999.	9.72	51440.	1877.	11.46	0.0340	0.	68.	0.33
MILE	67.20	864.78	499999.	6.35	78682.	4972.	11.06	0.0340	0.	74.	0.28
MILE	65.10	860.70	499998.	8.52	58706.	5603.	11.03	0.0320	0.	74.	0.46
MILE	63.00	859.33	499997.	5.00	99984.	3457.	9.30	0.0400	0.	78.	0.16
MILE	60.90	854.89	499997.	7.31	68399.	3173.	9.47	0.0450	0.	78.	0.28
MILE	58.80	847.13	499996.	8.53	58629.	2504.	8.89	0.0400	0.	74.	0.31
MILE	57.00	845.46	499996.	8.18	61154.	2644.	8.92	0.0200	0.	71.	0.30
MILE	55.00	842.85	499996.	9.71	51487.	2662.	8.87	0.0200	0.	69.	0.39
MILE	53.10	841.70	499995.	7.72	64759.	3174.	10.26	0.0200	0.	68.	0.30
MILE	51.00	840.28	499995.	8.13	61519.	4075.	10.43	0.0200	0.	71.	0.37
MILE	48.30	839.68	499994.	6.17	80995.	8355.	13.18	0.0200	0.	71.	0.35
MILE	46.20	838.97	499993.	6.85	73021.	8091.	12.49	0.0200	0.	77.	0.40
MILE	44.10	839.04	499993.	4.05	123367.	3626.	11.54	0.0300	0.	84.	0.12
MILE	43.70	837.18	499992.	11.13	44934.	3549.	14.58	0.0300	0.	84.	0.55
MILE	42.00	837.75	499992.	4.37	114467.	3579.	10.44	0.0300	0.	88.	0.14
MILE	39.10	835.46	499992.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE	37.00	835.62	499992.	4.56	109610.	2328.	14.11	0.0280	0.	84.	0.12
MILE	36.00	834.51	499992.	8.34	59943.	1654.	14.33	0.0280	0.	86.	0.24
MILE	34.60	834.22	499992.	6.46	77369.	2415.	15.49	0.0280	0.	86.	0.20
MILE	33.60	834.62	499992.	2.76	181076.	4590.	15.13	0.0290	0.	92.	0.08
MILE	31.50	833.73	499991.	6.73	74321.	3571.	15.78	0.0250	0.	95.	0.26
MILE	30.10	833.44	499991.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	29.00	833.25	499991.	6.14	81399.	2053.	16.30	0.0200	0.	94.	0.17
MILE	27.30	832.98	499991.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE	25.20	832.78	499991.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE	23.10	832.32	499991.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

0DATE 10-23-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 22.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE	79.80	895.53	500000.	12.64	39566.	1102.	10.65	0.0290	0.	77.	0.37
MILE	77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82.	0.28
MILE	75.60	884.98	500000.	11.20	44636.	3087.	10.82	0.0400	0.	78.	0.52
MILE	73.50	873.85	500000.	13.15	38016.	2350.	11.40	0.0330	0.	75.	0.58
MILE	71.40	871.29	499999.	8.27	60449.	1921.	12.61	0.0400	0.	73.	0.26
MILE	69.30	866.97	499999.	9.72	51440.	1877.	11.46	0.0340	0.	68.	0.33
MILE	67.20	864.78	499999.	6.35	78682.	4972.	11.06	0.0340	0.	74.	0.28
MILE	65.10	860.70	499998.	8.52	58706.	5603.	11.03	0.0320	0.	74.	0.46
MILE	63.00	859.33	499998.	5.00	99984.	3457.	9.30	0.0400	0.	78.	0.16
MILE	60.90	854.89	499997.	7.31	68399.	3173.	9.47	0.0450	0.	78.	0.28
MILE	58.80	847.13	499997.	8.53	58629.	2504.	8.89	0.0400	0.	74.	0.31
MILE	57.00	845.46	499997.	8.18	61154.	2644.	8.92	0.0200	0.	71.	0.30
MILE	55.00	842.85	499996.	9.71	51487.	2662.	8.87	0.0200	0.	69.	0.39
MILE	53.10	841.71	499996.	7.72	64759.	3174.	10.26	0.0200	0.	68.	0.30
MILE	51.00	840.28	499996.	8.13	61519.	4075.	10.43	0.0200	0.	71.	0.37
MILE	48.30	839.68	499995.	6.17	80995.	8355.	13.18	0.0200	0.	71.	0.35
MILE	46.20	838.97	499994.	6.85	73021.	8091.	12.49	0.0200	0.	77.	0.40
MILE	44.10	839.04	499994.	4.05	123367.	3627.	11.54	0.0300	0.	84.	0.12
MILE	43.70	837.18	499994.	11.13	44934.	3549.	14.58	0.0300	0.	84.	0.55
MILE	42.00	837.75	499994.	4.37	114467.	3579.	10.44	0.0300	0.	88.	0.14
MILE	39.10	835.46	499993.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE	37.00	835.62	499993.	4.56	109610.	2328.	14.11	0.0280	0.	84.	0.12
MILE	36.00	834.51	499993.	8.34	59943.	1654.	14.33	0.0280	0.	86.	0.24
MILE	34.60	834.22	499993.	6.46	77369.	2415.	15.49	0.0280	0.	86.	0.20
MILE	33.60	834.62	499993.	2.76	181076.	4590.	15.13	0.0290	0.	92.	0.08
MILE	31.50	833.73	499993.	6.73	74321.	3571.	15.78	0.0250	0.	95.	0.26
MILE	30.10	833.44	499993.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14
MILE	29.00	833.25	499993.	6.14	81399.	2053.	16.30	0.0200	0.	94.	0.17
MILE	27.30	832.98	499993.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE	25.20	832.78	499993.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE	23.10	832.32	499993.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

0DATE 10-23-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 515 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

TIME 23.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	895.53	500000.	12.64	39566.	1102.	10.65	0.0290	0.	77.	0.37
MILE 77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82.	0.28
MILE 75.60	884.98	500000.	11.20	44636.	3087.	10.82	0.0400	0.	78.	0.52
MILE 73.50	873.85	500000.	13.15	38016.	2350.	11.40	0.0330	0.	75.	0.58
MILE 71.40	871.29	500000.	8.27	60449.	1921.	12.61	0.0400	0.	73.	0.26
MILE 69.30	866.97	499999.	9.72	51440.	1877.	11.46	0.0340	0.	68.	0.33
MILE 67.20	864.78	499999.	6.35	78682.	4972.	11.06	0.0340	0.	74.	0.28
MILE 65.10	860.70	499999.	8.52	58706.	5603.	11.03	0.0320	0.	74.	0.46
MILE 63.00	859.33	499998.	5.00	99984.	3457.	9.30	0.0400	0.	78.	0.16
MILE 60.90	854.89	499998.	7.31	68399.	3173.	9.47	0.0450	0.	78.	0.28
MILE 58.80	847.13	499997.	8.53	58629.	2504.	8.89	0.0400	0.	74.	0.31
MILE 57.00	845.46	499997.	8.18	61154.	2644.	8.92	0.0200	0.	71.	0.30
MILE 55.00	842.85	499997.	9.71	51487.	2662.	8.87	0.0200	0.	69.	0.39
MILE 53.10	841.71	499997.	7.72	64759.	3174.	10.26	0.0200	0.	68.	0.30
MILE 51.00	840.28	499997.	8.13	61519.	4075.	10.43	0.0200	0.	71.	0.37
MILE 48.30	839.68	499996.	6.17	80995.	8355.	13.18	0.0200	0.	71.	0.35
MILE 46.20	838.97	499995.	6.85	73021.	8091.	12.49	0.0200	0.	77.	0.40
MILE 44.10	839.04	499995.	4.05	123367.	3627.	11.54	0.0300	0.	84.	0.12
MILE 43.70	837.18	499995.	11.13	44934.	3549.	14.58	0.0300	0.	84.	0.55
MILE 42.00	837.75	499995.	4.37	114468.	3579.	10.44	0.0300	0.	88.	0.14
MILE 39.10	835.46	499994.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE 37.00	835.62	499994.	4.56	109610.	2328.	14.11	0.0280	0.	84.	0.12
MILE 36.00	834.51	499994.	8.34	59943.	1654.	14.33	0.0280	0.	86.	0.24
MILE 34.60	834.22	499994.	6.46	77369.	2415.	15.49	0.0280	0.	86.	0.20
MILE 33.60	834.62	499994.	2.76	181076.	4590.	15.13	0.0290	0.	92.	0.08
MILE 31.50	833.73	499994.	6.73	74321.	3571.	15.78	0.0250	0.	95.	0.26
MILE 30.10	833.44	499994.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14
MILE 29.00	833.25	499994.	6.14	81399.	2053.	16.30	0.0200	0.	94.	0.17
MILE 27.30	832.98	499994.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE 25.20	832.78	499994.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE 23.10	832.32	499994.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

0DATE 10-24-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 0.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	895.53	500000.	12.64	39566.	1102.	10.65	0.0290	0.	77.	0.37
MILE 77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82.	0.28
MILE 75.60	884.98	500000.	11.20	44636.	3087.	10.82	0.0400	0.	78.	0.52
MILE 73.50	873.85	500000.	13.15	38016.	2350.	11.40	0.0330	0.	75.	0.58
MILE 71.40	871.29	500000.	8.27	60449.	1921.	12.61	0.0400	0.	73.	0.26
MILE 69.30	866.97	499999.	9.72	51440.	1877.	11.46	0.0340	0.	68.	0.33
MILE 67.20	864.78	499999.	6.35	78682.	4972.	11.06	0.0340	0.	74.	0.28
MILE 65.10	860.70	499999.	8.52	58706.	5603.	11.03	0.0320	0.	74.	0.46

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 516 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	63.00	859.33	499998.	5.00	99984.	3457.	9.30	0.0400	0.	78.	0.16
MILE	60.90	854.89	499998.	7.31	68399.	3173.	9.47	0.0450	0.	78.	0.28
MILE	58.80	847.13	499998.	8.53	58629.	2504.	8.89	0.0400	0.	74.	0.31
MILE	57.00	845.46	499998.	8.18	61154.	2644.	8.92	0.0200	0.	71.	0.30
MILE	55.00	842.85	499998.	9.71	51487.	2662.	8.87	0.0200	0.	69.	0.39
MILE	53.10	841.71	499997.	7.72	64759.	3174.	10.26	0.0200	0.	68.	0.30
MILE	51.00	840.28	499997.	8.13	61519.	4075.	10.43	0.0200	0.	71.	0.37
MILE	48.30	839.68	499997.	6.17	80995.	8355.	13.18	0.0200	0.	71.	0.35
MILE	46.20	838.97	499996.	6.85	73021.	8091.	12.49	0.0200	0.	77.	0.40
MILE	44.10	839.04	499996.	4.05	123367.	3627.	11.54	0.0300	0.	84.	0.12
MILE	43.70	837.18	499996.	11.13	44934.	3549.	14.58	0.0300	0.	84.	0.55
MILE	42.00	837.75	499996.	4.37	114468.	3579.	10.44	0.0300	0.	88.	0.14
MILE	39.10	835.46	499995.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE	37.00	835.62	499995.	4.56	109610.	2328.	14.11	0.0280	0.	84.	0.12
MILE	36.00	834.51	499995.	8.34	59944.	1654.	14.33	0.0280	0.	86.	0.24
MILE	34.60	834.22	499995.	6.46	77369.	2415.	15.49	0.0280	0.	86.	0.20
MILE	33.60	834.62	499995.	2.76	181076.	4590.	15.13	0.0290	0.	92.	0.08
MILE	31.50	833.73	499995.	6.73	74321.	3571.	15.78	0.0250	0.	95.	0.26
MILE	30.10	833.44	499995.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14
MILE	29.00	833.25	499995.	6.14	81399.	2053.	16.30	0.0200	0.	94.	0.17
MILE	27.30	832.98	499995.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE	25.20	832.78	499995.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE	23.10	832.32	499995.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

ODATE 10-24-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	1.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL	
INFLOW	DEPTH	FROUDE									
MILE	79.80	895.53	500000.	12.64	39566.	1102.	10.65	0.0290	0.	77.	0.37
MILE	77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82.	0.28
MILE	75.60	884.98	500000.	11.20	44636.	3087.	10.82	0.0400	0.	78.	0.52
MILE	73.50	873.85	500000.	13.15	38016.	2350.	11.40	0.0330	0.	75.	0.58
MILE	71.40	871.29	500000.	8.27	60449.	1921.	12.61	0.0400	0.	73.	0.26
MILE	69.30	866.97	500000.	9.72	51440.	1877.	11.46	0.0340	0.	68.	0.33
MILE	67.20	864.78	499999.	6.35	78682.	4972.	11.06	0.0340	0.	74.	0.28
MILE	65.10	860.70	499999.	8.52	58706.	5603.	11.03	0.0320	0.	74.	0.46
MILE	63.00	859.33	499999.	5.00	99984.	3457.	9.30	0.0400	0.	78.	0.16
MILE	60.90	854.89	499998.	7.31	68400.	3173.	9.47	0.0450	0.	78.	0.28
MILE	58.80	847.13	499998.	8.53	58629.	2504.	8.89	0.0400	0.	74.	0.31
MILE	57.00	845.46	499998.	8.18	61154.	2644.	8.92	0.0200	0.	71.	0.30
MILE	55.00	842.85	499998.	9.71	51487.	2662.	8.87	0.0200	0.	69.	0.39
MILE	53.10	841.71	499998.	7.72	64759.	3174.	10.26	0.0200	0.	68.	0.30
MILE	51.00	840.28	499998.	8.13	61519.	4075.	10.43	0.0200	0.	71.	0.37
MILE	48.30	839.68	499997.	6.17	80995.	8355.	13.18	0.0200	0.	71.	0.35
MILE	46.20	838.97	499997.	6.85	73021.	8091.	12.49	0.0200	0.	77.	0.40
MILE	44.10	839.04	499996.	4.05	123367.	3627.	11.54	0.0300	0.	84.	0.12
MILE	43.70	837.18	499996.	11.13	44934.	3549.	14.58	0.0300	0.	84.	0.55

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 517 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 42.00	837.75	499996.	4.37	114468.	3579.	10.44	0.0300	0.	88.	0.14
MILE 39.10	835.46	499996.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE 37.00	835.62	499996.	4.56	109610.	2328.	14.11	0.0280	0.	84.	0.12
MILE 36.00	834.51	499996.	8.34	59944.	1654.	14.33	0.0280	0.	86.	0.24
MILE 34.60	834.22	499996.	6.46	77369.	2415.	15.49	0.0280	0.	86.	0.20
MILE 33.60	834.62	499996.	2.76	181076.	4590.	15.13	0.0290	0.	92.	0.08
MILE 31.50	833.73	499996.	6.73	74321.	3571.	15.78	0.0250	0.	95.	0.26
MILE 30.10	833.44	499996.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14
MILE 29.00	833.25	499996.	6.14	81399.	2053.	16.30	0.0200	0.	94.	0.17
MILE 27.30	832.98	499996.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE 25.20	832.78	499996.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE 23.10	832.32	499996.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

0DATE 10-24-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	2.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL	
INFLOW	DEPTH	FROUDE								
MILE 79.80	895.53	500000.	12.64	39566.	1102.	10.65	0.0290	0.	77.	0.37
MILE 77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82.	0.28
MILE 75.60	884.98	500000.	11.20	44636.	3087.	10.82	0.0400	0.	78.	0.52
MILE 73.50	873.85	500000.	13.15	38016.	2350.	11.40	0.0330	0.	75.	0.58
MILE 71.40	871.29	500000.	8.27	60449.	1921.	12.61	0.0400	0.	73.	0.26
MILE 69.30	866.97	500000.	9.72	51440.	1877.	11.46	0.0340	0.	68.	0.33
MILE 67.20	864.78	499999.	6.35	78682.	4972.	11.06	0.0340	0.	74.	0.28
MILE 65.10	860.70	499999.	8.52	58706.	5603.	11.03	0.0320	0.	74.	0.46
MILE 63.00	859.33	499999.	5.00	99984.	3457.	9.30	0.0400	0.	78.	0.16
MILE 60.90	854.89	499999.	7.31	68400.	3173.	9.47	0.0450	0.	78.	0.28
MILE 58.80	847.13	499999.	8.53	58629.	2504.	8.89	0.0400	0.	74.	0.31
MILE 57.00	845.46	499998.	8.18	61154.	2644.	8.92	0.0200	0.	71.	0.30
MILE 55.00	842.85	499998.	9.71	51487.	2662.	8.87	0.0200	0.	69.	0.39
MILE 53.10	841.71	499998.	7.72	64759.	3174.	10.26	0.0200	0.	68.	0.30
MILE 51.00	840.28	499998.	8.13	61519.	4075.	10.43	0.0200	0.	71.	0.37
MILE 48.30	839.68	499998.	6.17	80995.	8355.	13.18	0.0200	0.	71.	0.35
MILE 46.20	838.97	499997.	6.85	73021.	8091.	12.49	0.0200	0.	77.	0.40
MILE 44.10	839.04	499997.	4.05	123367.	3627.	11.54	0.0300	0.	84.	0.12
MILE 43.70	837.18	499997.	11.13	44934.	3549.	14.58	0.0300	0.	84.	0.55
MILE 42.00	837.75	499997.	4.37	114468.	3579.	10.44	0.0300	0.	88.	0.14
MILE 39.10	835.46	499997.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE 37.00	835.62	499997.	4.56	109610.	2328.	14.11	0.0280	0.	84.	0.12
MILE 36.00	834.51	499997.	8.34	59944.	1654.	14.33	0.0280	0.	86.	0.24
MILE 34.60	834.22	499997.	6.46	77369.	2415.	15.49	0.0280	0.	86.	0.20
MILE 33.60	834.62	499997.	2.76	181076.	4590.	15.13	0.0290	0.	92.	0.08
MILE 31.50	833.73	499997.	6.73	74321.	3571.	15.78	0.0250	0.	95.	0.26
MILE 30.10	833.44	499997.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14
MILE 29.00	833.25	499997.	6.14	81399.	2053.	16.30	0.0200	0.	94.	0.17
MILE 27.30	832.98	499997.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE 25.20	832.78	499997.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 23.10 832.32 499997. 6.12 81690. 2153. 16.45 0.0230 0. 102. 0.18

0DATE 10-24-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 3.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80 895.53 500000. 12.64 39566. 1102. 10.65 0.0290 0. 77. 0.37
MILE 77.70 893.07 500000. 9.85 50786. 1346. 11.76 0.0400 0. 82. 0.28
MILE 75.60 884.98 500000. 11.20 44636. 3087. 10.82 0.0400 0. 78. 0.52
MILE 73.50 873.85 500000. 13.15 38016. 2350. 11.40 0.0330 0. 75. 0.58
MILE 71.40 871.29 500000. 8.27 60449. 1921. 12.61 0.0400 0. 73. 0.26
MILE 69.30 866.97 500000. 9.72 51440. 1877. 11.46 0.0340 0. 68. 0.33
MILE 67.20 864.78 500000. 6.35 78682. 4972. 11.06 0.0340 0. 74. 0.28
MILE 65.10 860.70 499999. 8.52 58706. 5603. 11.03 0.0320 0. 74. 0.46
MILE 63.00 859.33 499999. 5.00 99984. 3457. 9.30 0.0400 0. 78. 0.16
MILE 60.90 854.89 499999. 7.31 68400. 3173. 9.47 0.0450 0. 78. 0.28
MILE 58.80 847.13 499999. 8.53 58629. 2504. 8.89 0.0400 0. 74. 0.31
MILE 57.00 845.46 499999. 8.18 61154. 2644. 8.92 0.0200 0. 71. 0.30
MILE 55.00 842.85 499999. 9.71 51487. 2662. 8.87 0.0200 0. 69. 0.39
MILE 53.10 841.71 499998. 7.72 64759. 3174. 10.26 0.0200 0. 68. 0.30
MILE 51.00 840.28 499998. 8.13 61519. 4075. 10.43 0.0200 0. 71. 0.37
MILE 48.30 839.68 499998. 6.17 80996. 8355. 13.18 0.0200 0. 71. 0.35
MILE 46.20 838.97 499998. 6.85 73021. 8091. 12.49 0.0200 0. 77. 0.40
MILE 44.10 839.04 499998. 4.05 123367. 3627. 11.54 0.0300 0. 84. 0.12
MILE 43.70 837.18 499998. 11.13 44934. 3549. 14.58 0.0300 0. 84. 0.55
MILE 42.00 837.75 499997. 4.37 114468. 3579. 10.44 0.0300 0. 88. 0.14
MILE 39.10 835.46 499997. 8.08 61890. 3451. 13.81 0.0230 0. 84. 0.34
MILE 37.00 835.62 499997. 4.56 109610. 2328. 14.11 0.0280 0. 84. 0.12
MILE 36.00 834.51 499997. 8.34 59944. 1654. 14.33 0.0280 0. 86. 0.24
MILE 34.60 834.22 499997. 6.46 77369. 2415. 15.49 0.0280 0. 86. 0.20
MILE 33.60 834.62 499997. 2.76 181076. 4590. 15.13 0.0290 0. 92. 0.08
MILE 31.50 833.73 499997. 6.73 74321. 3571. 15.78 0.0250 0. 95. 0.26
MILE 30.10 833.44 499997. 6.08 82266. 1401. 14.93 0.0200 0. 93. 0.14
MILE 29.00 833.25 499997. 6.14 81399. 2053. 16.30 0.0200 0. 94. 0.17
MILE 27.30 832.98 499997. 6.20 80634. 1892. 16.76 0.0230 0. 96. 0.17
MILE 25.20 832.78 499997. 5.44 91856. 1829. 17.88 0.0230 0. 98. 0.14
MILE 23.10 832.32 499997. 6.12 81690. 2153. 16.45 0.0230 0. 102. 0.18

0DATE 10-24-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 4.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80 895.53 500000. 12.64 39566. 1102. 10.65 0.0290 0. 77. 0.37

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 519 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82.	0.28
MILE 75.60	884.98	500000.	11.20	44636.	3087.	10.82	0.0400	0.	78.	0.52
MILE 73.50	873.85	500000.	13.15	38016.	2350.	11.40	0.0330	0.	75.	0.58
MILE 71.40	871.29	500000.	8.27	60449.	1921.	12.61	0.0400	0.	73.	0.26
MILE 69.30	866.97	500000.	9.72	51440.	1877.	11.46	0.0340	0.	68.	0.33
MILE 67.20	864.78	500000.	6.35	78682.	4972.	11.06	0.0340	0.	74.	0.28
MILE 65.10	860.70	499999.	8.52	58706.	5603.	11.03	0.0320	0.	74.	0.46
MILE 63.00	859.33	499999.	5.00	99984.	3457.	9.30	0.0400	0.	78.	0.16
MILE 60.90	854.89	499999.	7.31	68400.	3173.	9.47	0.0450	0.	78.	0.28
MILE 58.80	847.13	499999.	8.53	58629.	2504.	8.89	0.0400	0.	74.	0.31
MILE 57.00	845.46	499999.	8.18	61154.	2644.	8.92	0.0200	0.	71.	0.30
MILE 55.00	842.85	499999.	9.71	51487.	2662.	8.87	0.0200	0.	69.	0.39
MILE 53.10	841.71	499999.	7.72	64759.	3174.	10.26	0.0200	0.	68.	0.30
MILE 51.00	840.28	499999.	8.13	61519.	4075.	10.43	0.0200	0.	71.	0.37
MILE 48.30	839.68	499998.	6.17	80996.	8355.	13.18	0.0200	0.	71.	0.35
MILE 46.20	838.97	499998.	6.85	73021.	8091.	12.49	0.0200	0.	77.	0.40
MILE 44.10	839.04	499998.	4.05	123367.	3627.	11.54	0.0300	0.	84.	0.12
MILE 43.70	837.18	499998.	11.13	44934.	3549.	14.58	0.0300	0.	84.	0.55
MILE 42.00	837.75	499998.	4.37	114468.	3579.	10.44	0.0300	0.	88.	0.14
MILE 39.10	835.46	499998.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE 37.00	835.62	499998.	4.56	109610.	2328.	14.11	0.0280	0.	84.	0.12
MILE 36.00	834.51	499998.	8.34	59944.	1654.	14.33	0.0280	0.	86.	0.24
MILE 34.60	834.22	499998.	6.46	77369.	2415.	15.49	0.0280	0.	86.	0.20
MILE 33.60	834.62	499998.	2.76	181076.	4590.	15.13	0.0290	0.	92.	0.08
MILE 31.50	833.73	499998.	6.73	74321.	3571.	15.78	0.0250	0.	95.	0.26
MILE 30.10	833.44	499998.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14
MILE 29.00	833.25	499998.	6.14	81399.	2053.	16.30	0.0200	0.	94.	0.17
MILE 27.30	832.98	499998.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE 25.20	832.78	499998.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE 23.10	832.32	499998.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

0DATE 10-24-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 5.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	895.53	500000.	12.64	39566.	1102.	10.65	0.0290	0.	77.	0.37
MILE 77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82.	0.28
MILE 75.60	884.98	500000.	11.20	44636.	3087.	10.82	0.0400	0.	78.	0.52
MILE 73.50	873.85	500000.	13.15	38016.	2350.	11.40	0.0330	0.	75.	0.58
MILE 71.40	871.29	500000.	8.27	60449.	1921.	12.61	0.0400	0.	73.	0.26
MILE 69.30	866.97	500000.	9.72	51440.	1877.	11.46	0.0340	0.	68.	0.33
MILE 67.20	864.78	500000.	6.35	78682.	4972.	11.06	0.0340	0.	74.	0.28
MILE 65.10	860.70	500000.	8.52	58706.	5603.	11.03	0.0320	0.	74.	0.46
MILE 63.00	859.33	499999.	5.00	99984.	3457.	9.30	0.0400	0.	78.	0.16
MILE 60.90	854.89	499999.	7.31	68400.	3173.	9.47	0.0450	0.	78.	0.28
MILE 58.80	847.13	499999.	8.53	58629.	2504.	8.89	0.0400	0.	74.	0.31
MILE 57.00	845.46	499999.	8.18	61154.	2644.	8.92	0.0200	0.	71.	0.30

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 520 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 55.00	842.85	499999.	9.71	51487.	2662.	8.87	0.0200	0.	69.	0.39
MILE 53.10	841.71	499999.	7.72	64759.	3174.	10.26	0.0200	0.	68.	0.30
MILE 51.00	840.28	499999.	8.13	61519.	4075.	10.43	0.0200	0.	71.	0.37
MILE 48.30	839.68	499999.	6.17	80996.	8355.	13.18	0.0200	0.	71.	0.35
MILE 46.20	838.97	499998.	6.85	73021.	8091.	12.49	0.0200	0.	77.	0.40
MILE 44.10	839.04	499998.	4.05	123367.	3627.	11.54	0.0300	0.	84.	0.12
MILE 43.70	837.18	499998.	11.13	44934.	3549.	14.58	0.0300	0.	84.	0.55
MILE 42.00	837.75	499998.	4.37	114468.	3579.	10.44	0.0300	0.	88.	0.14
MILE 39.10	835.46	499998.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE 37.00	835.62	499998.	4.56	109610.	2328.	14.11	0.0280	0.	84.	0.12
MILE 36.00	834.51	499998.	8.34	59944.	1654.	14.33	0.0280	0.	86.	0.24
MILE 34.60	834.22	499998.	6.46	77369.	2415.	15.49	0.0280	0.	86.	0.20
MILE 33.60	834.62	499998.	2.76	181076.	4590.	15.13	0.0290	0.	92.	0.08
MILE 31.50	833.73	499998.	6.73	74321.	3571.	15.78	0.0250	0.	95.	0.26
MILE 30.10	833.44	499998.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14
MILE 29.00	833.25	499998.	6.14	81399.	2053.	16.30	0.0200	0.	94.	0.17
MILE 27.30	832.98	499998.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE 25.20	832.78	499998.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE 23.10	832.32	499998.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

0DATE 10-24-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	6.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL	
INFLOW	DEPTH	FROUDE								
MILE 79.80	895.53	500000.	12.64	39566.	1102.	10.65	0.0290	0.	77.	0.37
MILE 77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82.	0.28
MILE 75.60	884.98	500000.	11.20	44636.	3087.	10.82	0.0400	0.	78.	0.52
MILE 73.50	873.85	500000.	13.15	38016.	2350.	11.40	0.0330	0.	75.	0.58
MILE 71.40	871.29	500000.	8.27	60449.	1921.	12.61	0.0400	0.	73.	0.26
MILE 69.30	866.97	500000.	9.72	51440.	1877.	11.46	0.0340	0.	68.	0.33
MILE 67.20	864.78	500000.	6.35	78682.	4972.	11.06	0.0340	0.	74.	0.28
MILE 65.10	860.70	500000.	8.52	58706.	5603.	11.03	0.0320	0.	74.	0.46
MILE 63.00	859.33	499999.	5.00	99984.	3457.	9.30	0.0400	0.	78.	0.16
MILE 60.90	854.89	499999.	7.31	68400.	3173.	9.47	0.0450	0.	78.	0.28
MILE 58.80	847.13	499999.	8.53	58629.	2504.	8.89	0.0400	0.	74.	0.31
MILE 57.00	845.46	499999.	8.18	61154.	2644.	8.92	0.0200	0.	71.	0.30
MILE 55.00	842.85	499999.	9.71	51487.	2662.	8.87	0.0200	0.	69.	0.39
MILE 53.10	841.71	499999.	7.72	64759.	3174.	10.26	0.0200	0.	68.	0.30
MILE 51.00	840.28	499999.	8.13	61519.	4075.	10.43	0.0200	0.	71.	0.37
MILE 48.30	839.68	499999.	6.17	80996.	8355.	13.18	0.0200	0.	71.	0.35
MILE 46.20	838.97	499999.	6.85	73021.	8091.	12.49	0.0200	0.	77.	0.40
MILE 44.10	839.04	499999.	4.05	123367.	3627.	11.54	0.0300	0.	84.	0.12
MILE 43.70	837.18	499999.	11.13	44934.	3549.	14.58	0.0300	0.	84.	0.55
MILE 42.00	837.75	499999.	4.37	114468.	3579.	10.44	0.0300	0.	88.	0.14
MILE 39.10	835.46	499998.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE 37.00	835.62	499998.	4.56	109610.	2328.	14.11	0.0280	0.	84.	0.12
MILE 36.00	834.51	499998.	8.34	59944.	1654.	14.33	0.0280	0.	86.	0.24

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 521 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	34.60	834.22	499998.	6.46	77369.	2415.	15.49	0.0280	0.	86.	0.20
MILE	33.60	834.62	499998.	2.76	181076.	4590.	15.13	0.0290	0.	92.	0.08
MILE	31.50	833.73	499998.	6.73	74321.	3571.	15.78	0.0250	0.	95.	0.26
MILE	30.10	833.44	499998.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14
MILE	29.00	833.25	499998.	6.14	81399.	2053.	16.30	0.0200	0.	94.	0.17
MILE	27.30	832.98	499998.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE	25.20	832.78	499998.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE	23.10	832.32	499998.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

ODATE 10-24-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 7.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	895.53	500000.	12.64	39566.	1102.	10.65	0.0290	0.	77.	0.37
MILE	77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82.	0.28
MILE	75.60	884.98	500000.	11.20	44636.	3087.	10.82	0.0400	0.	78.	0.52
MILE	73.50	873.85	500000.	13.15	38016.	2350.	11.40	0.0330	0.	75.	0.58
MILE	71.40	871.29	500000.	8.27	60449.	1921.	12.61	0.0400	0.	73.	0.26
MILE	69.30	866.97	500000.	9.72	51440.	1877.	11.46	0.0340	0.	68.	0.33
MILE	67.20	864.78	500000.	6.35	78682.	4972.	11.06	0.0340	0.	74.	0.28
MILE	65.10	860.70	500000.	8.52	58706.	5603.	11.03	0.0320	0.	74.	0.46
MILE	63.00	859.33	500000.	5.00	99984.	3457.	9.30	0.0400	0.	78.	0.16
MILE	60.90	854.89	499999.	7.31	68400.	3173.	9.47	0.0450	0.	78.	0.28
MILE	58.80	847.13	499999.	8.53	58629.	2504.	8.89	0.0400	0.	74.	0.31
MILE	57.00	845.46	499999.	8.18	61154.	2644.	8.92	0.0200	0.	71.	0.30
MILE	55.00	842.85	499999.	9.71	51487.	2662.	8.87	0.0200	0.	69.	0.39
MILE	53.10	841.71	499999.	7.72	64759.	3174.	10.26	0.0200	0.	68.	0.30
MILE	51.00	840.28	499999.	8.13	61519.	4075.	10.43	0.0200	0.	71.	0.37
MILE	48.30	839.68	499999.	6.17	80996.	8355.	13.18	0.0200	0.	71.	0.35
MILE	46.20	838.97	499999.	6.85	73021.	8091.	12.49	0.0200	0.	77.	0.40
MILE	44.10	839.04	499999.	4.05	123367.	3627.	11.54	0.0300	0.	84.	0.12
MILE	43.70	837.18	499999.	11.13	44934.	3549.	14.58	0.0300	0.	84.	0.55
MILE	42.00	837.75	499999.	4.37	114468.	3579.	10.44	0.0300	0.	88.	0.14
MILE	39.10	835.46	499999.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE	37.00	835.62	499999.	4.56	109610.	2328.	14.11	0.0280	0.	84.	0.12
MILE	36.00	834.51	499999.	8.34	59944.	1654.	14.33	0.0280	0.	86.	0.24
MILE	34.60	834.22	499999.	6.46	77369.	2415.	15.49	0.0280	0.	86.	0.20
MILE	33.60	834.62	499999.	2.76	181076.	4590.	15.13	0.0290	0.	92.	0.08
MILE	31.50	833.73	499999.	6.73	74321.	3571.	15.78	0.0250	0.	95.	0.26
MILE	30.10	833.44	499999.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14
MILE	29.00	833.25	499999.	6.14	81399.	2053.	16.30	0.0200	0.	94.	0.17
MILE	27.30	832.98	499999.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE	25.20	832.78	499999.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE	23.10	832.32	499999.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 522 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

ODATE 10-24-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	8.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL
INFLOW	DEPTH	FROUDE								
MILE	79.80	895.53	500000.	12.64	39566.	1102.	10.65	0.0290	0.	77. 0.37
MILE	77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82. 0.28
MILE	75.60	884.98	500000.	11.20	44636.	3087.	10.82	0.0400	0.	78. 0.52
MILE	73.50	873.85	500000.	13.15	38016.	2350.	11.40	0.0330	0.	75. 0.58
MILE	71.40	871.29	500000.	8.27	60449.	1921.	12.61	0.0400	0.	73. 0.26
MILE	69.30	866.97	500000.	9.72	51440.	1877.	11.46	0.0340	0.	68. 0.33
MILE	67.20	864.78	500000.	6.35	78682.	4972.	11.06	0.0340	0.	74. 0.28
MILE	65.10	860.70	500000.	8.52	58706.	5603.	11.03	0.0320	0.	74. 0.46
MILE	63.00	859.33	500000.	5.00	99984.	3457.	9.30	0.0400	0.	78. 0.16
MILE	60.90	854.89	500000.	7.31	68400.	3173.	9.47	0.0450	0.	78. 0.28
MILE	58.80	847.13	500000.	8.53	58629.	2504.	8.89	0.0400	0.	74. 0.31
MILE	57.00	845.46	499999.	8.18	61155.	2644.	8.92	0.0200	0.	71. 0.30
MILE	55.00	842.85	499999.	9.71	51487.	2662.	8.87	0.0200	0.	69. 0.39
MILE	53.10	841.71	499999.	7.72	64759.	3174.	10.26	0.0200	0.	68. 0.30
MILE	51.00	840.28	499999.	8.13	61519.	4075.	10.43	0.0200	0.	71. 0.37
MILE	48.30	839.68	499999.	6.17	80996.	8355.	13.18	0.0200	0.	71. 0.35
MILE	46.20	838.97	499999.	6.85	73021.	8091.	12.49	0.0200	0.	77. 0.40
MILE	44.10	839.04	499999.	4.05	123367.	3627.	11.54	0.0300	0.	84. 0.12
MILE	43.70	837.18	499999.	11.13	44934.	3549.	14.58	0.0300	0.	84. 0.55
MILE	42.00	837.75	499999.	4.37	114468.	3579.	10.44	0.0300	0.	88. 0.14
MILE	39.10	835.46	499999.	8.08	61890.	3451.	13.81	0.0230	0.	84. 0.34
MILE	37.00	835.62	499999.	4.56	109610.	2328.	14.11	0.0280	0.	84. 0.12
MILE	36.00	834.51	499999.	8.34	59944.	1654.	14.33	0.0280	0.	86. 0.24
MILE	34.60	834.22	499999.	6.46	77369.	2415.	15.49	0.0280	0.	86. 0.20
MILE	33.60	834.62	499999.	2.76	181076.	4590.	15.13	0.0290	0.	92. 0.08
MILE	31.50	833.73	499999.	6.73	74321.	3571.	15.78	0.0250	0.	95. 0.26
MILE	30.10	833.44	499999.	6.08	82266.	1401.	14.93	0.0200	0.	93. 0.14
MILE	29.00	833.25	499999.	6.14	81399.	2053.	16.30	0.0200	0.	94. 0.17
MILE	27.30	832.98	499999.	6.20	80634.	1892.	16.76	0.0230	0.	96. 0.17
MILE	25.20	832.78	499999.	5.44	91856.	1829.	17.88	0.0230	0.	98. 0.14
MILE	23.10	832.32	499999.	6.12	81690.	2153.	16.45	0.0230	0.	102. 0.18

ODATE 10-24-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	9.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL
INFLOW	DEPTH	FROUDE								
MILE	79.80	895.53	500000.	12.64	39566.	1102.	10.65	0.0290	0.	77. 0.37
MILE	77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82. 0.28
MILE	75.60	884.98	500000.	11.20	44636.	3087.	10.82	0.0400	0.	78. 0.52
MILE	73.50	873.85	500000.	13.15	38016.	2350.	11.40	0.0330	0.	75. 0.58
MILE	71.40	871.29	500000.	8.27	60449.	1921.	12.61	0.0400	0.	73. 0.26

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 523 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 69.30	866.97	500000.	9.72	51440.	1877.	11.46	0.0340	0.	68.	0.33
MILE 67.20	864.78	500000.	6.35	78682.	4972.	11.06	0.0340	0.	74.	0.28
MILE 65.10	860.70	500000.	8.52	58706.	5603.	11.03	0.0320	0.	74.	0.46
MILE 63.00	859.33	500000.	5.00	99984.	3457.	9.30	0.0400	0.	78.	0.16
MILE 60.90	854.89	500000.	7.31	68400.	3173.	9.47	0.0450	0.	78.	0.28
MILE 58.80	847.13	500000.	8.53	58629.	2504.	8.89	0.0400	0.	74.	0.31
MILE 57.00	845.46	500000.	8.18	61155.	2644.	8.92	0.0200	0.	71.	0.30
MILE 55.00	842.85	500000.	9.71	51487.	2662.	8.87	0.0200	0.	69.	0.39
MILE 53.10	841.71	499999.	7.72	64759.	3174.	10.26	0.0200	0.	68.	0.30
MILE 51.00	840.28	499999.	8.13	61519.	4075.	10.43	0.0200	0.	71.	0.37
MILE 48.30	839.68	499999.	6.17	80996.	8355.	13.18	0.0200	0.	71.	0.35
MILE 46.20	838.97	499999.	6.85	73021.	8091.	12.49	0.0200	0.	77.	0.40
MILE 44.10	839.04	499999.	4.05	123367.	3627.	11.54	0.0300	0.	84.	0.12
MILE 43.70	837.18	499999.	11.13	44934.	3549.	14.58	0.0300	0.	84.	0.55
MILE 42.00	837.75	499999.	4.37	114468.	3579.	10.44	0.0300	0.	88.	0.14
MILE 39.10	835.46	499999.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE 37.00	835.62	499999.	4.56	109610.	2328.	14.11	0.0280	0.	84.	0.12
MILE 36.00	834.51	499999.	8.34	59944.	1654.	14.33	0.0280	0.	86.	0.24
MILE 34.60	834.22	499999.	6.46	77369.	2415.	15.49	0.0280	0.	86.	0.20
MILE 33.60	834.62	499999.	2.76	181076.	4590.	15.13	0.0290	0.	92.	0.08
MILE 31.50	833.73	499999.	6.73	74321.	3571.	15.78	0.0250	0.	95.	0.26
MILE 30.10	833.44	499999.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14
MILE 29.00	833.25	499999.	6.14	81399.	2053.	16.30	0.0200	0.	94.	0.17
MILE 27.30	832.98	499999.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE 25.20	832.78	499999.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE 23.10	832.32	499999.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

0DATE 10-24-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 10.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	895.53	500000.	12.64	39566.	1102.	10.65	0.0290	0.	77.	0.37
MILE 77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82.	0.28
MILE 75.60	884.98	500000.	11.20	44636.	3087.	10.82	0.0400	0.	78.	0.52
MILE 73.50	873.85	500000.	13.15	38016.	2350.	11.40	0.0330	0.	75.	0.58
MILE 71.40	871.29	500000.	8.27	60449.	1921.	12.61	0.0400	0.	73.	0.26
MILE 69.30	866.97	500000.	9.72	51440.	1877.	11.46	0.0340	0.	68.	0.33
MILE 67.20	864.78	500000.	6.35	78682.	4972.	11.06	0.0340	0.	74.	0.28
MILE 65.10	860.70	500000.	8.52	58706.	5603.	11.03	0.0320	0.	74.	0.46
MILE 63.00	859.33	500000.	5.00	99984.	3457.	9.30	0.0400	0.	78.	0.16
MILE 60.90	854.89	500000.	7.31	68400.	3173.	9.47	0.0450	0.	78.	0.28
MILE 58.80	847.13	500000.	8.53	58629.	2504.	8.89	0.0400	0.	74.	0.31
MILE 57.00	845.46	500000.	8.18	61155.	2644.	8.92	0.0200	0.	71.	0.30
MILE 55.00	842.85	500000.	9.71	51487.	2662.	8.87	0.0200	0.	69.	0.39
MILE 53.10	841.71	500000.	7.72	64759.	3174.	10.26	0.0200	0.	68.	0.30
MILE 51.00	840.28	500000.	8.13	61519.	4075.	10.43	0.0200	0.	71.	0.37
MILE 48.30	839.68	499999.	6.17	80996.	8355.	13.18	0.0200	0.	71.	0.35

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 524 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 46.20	838.97	499999.	6.85	73021.	8091.	12.49	0.0200	0.	77.	0.40
MILE 44.10	839.04	499999.	4.05	123367.	3627.	11.54	0.0300	0.	84.	0.12
MILE 43.70	837.18	499999.	11.13	44934.	3549.	14.58	0.0300	0.	84.	0.55
MILE 42.00	837.75	499999.	4.37	114468.	3579.	10.44	0.0300	0.	88.	0.14
MILE 39.10	835.46	499999.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE 37.00	835.62	499999.	4.56	109610.	2328.	14.11	0.0280	0.	84.	0.12
MILE 36.00	834.51	499999.	8.34	59944.	1654.	14.33	0.0280	0.	86.	0.24
MILE 34.60	834.22	499999.	6.46	77369.	2415.	15.49	0.0280	0.	86.	0.20
MILE 33.60	834.62	499999.	2.76	181076.	4590.	15.13	0.0290	0.	92.	0.08
MILE 31.50	833.73	499999.	6.73	74321.	3571.	15.78	0.0250	0.	95.	0.26
MILE 30.10	833.44	499999.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14
MILE 29.00	833.25	499999.	6.14	81399.	2053.	16.30	0.0200	0.	94.	0.17
MILE 27.30	832.98	499999.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE 25.20	832.78	499999.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE 23.10	832.32	499999.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

ODATE 10-24-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 11.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	895.53	500000.	12.64	39566.	1102.	10.65	0.0290	0.	77.	0.37
MILE 77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82.	0.28
MILE 75.60	884.98	500000.	11.20	44636.	3087.	10.82	0.0400	0.	78.	0.52
MILE 73.50	873.85	500000.	13.15	38016.	2350.	11.40	0.0330	0.	75.	0.58
MILE 71.40	871.29	500000.	8.27	60449.	1921.	12.61	0.0400	0.	73.	0.26
MILE 69.30	866.97	500000.	9.72	51440.	1877.	11.46	0.0340	0.	68.	0.33
MILE 67.20	864.78	500000.	6.35	78682.	4972.	11.06	0.0340	0.	74.	0.28
MILE 65.10	860.70	500000.	8.52	58707.	5603.	11.03	0.0320	0.	74.	0.46
MILE 63.00	859.33	500000.	5.00	99984.	3457.	9.30	0.0400	0.	78.	0.16
MILE 60.90	854.89	500000.	7.31	68400.	3173.	9.47	0.0450	0.	78.	0.28
MILE 58.80	847.13	500000.	8.53	58629.	2504.	8.89	0.0400	0.	74.	0.31
MILE 57.00	845.46	500000.	8.18	61155.	2644.	8.92	0.0200	0.	71.	0.30
MILE 55.00	842.85	500000.	9.71	51487.	2662.	8.87	0.0200	0.	69.	0.39
MILE 53.10	841.71	500000.	7.72	64759.	3174.	10.26	0.0200	0.	68.	0.30
MILE 51.00	840.28	500000.	8.13	61519.	4075.	10.43	0.0200	0.	71.	0.37
MILE 48.30	839.68	500000.	6.17	80996.	8355.	13.18	0.0200	0.	71.	0.35
MILE 46.20	838.97	499999.	6.85	73021.	8091.	12.49	0.0200	0.	77.	0.40
MILE 44.10	839.04	499999.	4.05	123367.	3627.	11.54	0.0300	0.	84.	0.12
MILE 43.70	837.18	499999.	11.13	44934.	3549.	14.58	0.0300	0.	84.	0.55
MILE 42.00	837.75	499999.	4.37	114468.	3579.	10.44	0.0300	0.	88.	0.14
MILE 39.10	835.46	499999.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE 37.00	835.62	499999.	4.56	109610.	2328.	14.11	0.0280	0.	84.	0.12
MILE 36.00	834.51	499999.	8.34	59944.	1654.	14.33	0.0280	0.	86.	0.24
MILE 34.60	834.22	499999.	6.46	77369.	2415.	15.49	0.0280	0.	86.	0.20
MILE 33.60	834.62	499999.	2.76	181076.	4590.	15.13	0.0290	0.	92.	0.08
MILE 31.50	833.73	499999.	6.73	74321.	3571.	15.78	0.0250	0.	95.	0.26
MILE 30.10	833.44	499999.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 525 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	29.00	833.25	499999.	6.14	81399.	2053.	16.30	0.0200	0.	94.	0.17
MILE	27.30	832.98	499999.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE	25.20	832.78	499999.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE	23.10	832.32	499999.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

0DATE 10-24-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	12.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL	
INFLOW	DEPTH	FROUDE									
MILE	79.80	895.53	500000.	12.64	39566.	1102.	10.65	0.0290	0.	77.	0.37
MILE	77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82.	0.28
MILE	75.60	884.98	500000.	11.20	44636.	3087.	10.82	0.0400	0.	78.	0.52
MILE	73.50	873.85	500000.	13.15	38016.	2350.	11.40	0.0330	0.	75.	0.58
MILE	71.40	871.29	500000.	8.27	60449.	1921.	12.61	0.0400	0.	73.	0.26
MILE	69.30	866.97	500000.	9.72	51440.	1877.	11.46	0.0340	0.	68.	0.33
MILE	67.20	864.78	500000.	6.35	78682.	4972.	11.06	0.0340	0.	74.	0.28
MILE	65.10	860.70	500000.	8.52	58707.	5603.	11.03	0.0320	0.	74.	0.46
MILE	63.00	859.33	500000.	5.00	99984.	3457.	9.30	0.0400	0.	78.	0.16
MILE	60.90	854.89	500000.	7.31	68400.	3173.	9.47	0.0450	0.	78.	0.28
MILE	58.80	847.13	500000.	8.53	58629.	2504.	8.89	0.0400	0.	74.	0.31
MILE	57.00	845.46	500000.	8.18	61155.	2644.	8.92	0.0200	0.	71.	0.30
MILE	55.00	842.85	500000.	9.71	51487.	2662.	8.87	0.0200	0.	69.	0.39
MILE	53.10	841.71	500000.	7.72	64759.	3174.	10.26	0.0200	0.	68.	0.30
MILE	51.00	840.28	500000.	8.13	61519.	4075.	10.43	0.0200	0.	71.	0.37
MILE	48.30	839.68	500000.	6.17	80996.	8355.	13.18	0.0200	0.	71.	0.35
MILE	46.20	838.97	500000.	6.85	73021.	8091.	12.49	0.0200	0.	77.	0.40
MILE	44.10	839.04	500000.	4.05	123367.	3627.	11.54	0.0300	0.	84.	0.12
MILE	43.70	837.18	500000.	11.13	44934.	3549.	14.58	0.0300	0.	84.	0.55
MILE	42.00	837.75	500000.	4.37	114468.	3579.	10.44	0.0300	0.	88.	0.14
MILE	39.10	835.46	499999.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE	37.00	835.62	499999.	4.56	109610.	2328.	14.11	0.0280	0.	84.	0.12
MILE	36.00	834.51	499999.	8.34	59944.	1654.	14.33	0.0280	0.	86.	0.24
MILE	34.60	834.22	499999.	6.46	77369.	2415.	15.49	0.0280	0.	86.	0.20
MILE	33.60	834.62	499999.	2.76	181076.	4590.	15.13	0.0290	0.	92.	0.08
MILE	31.50	833.73	499999.	6.73	74321.	3571.	15.78	0.0250	0.	95.	0.26
MILE	30.10	833.44	499999.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14
MILE	29.00	833.25	499999.	6.14	81399.	2053.	16.30	0.0200	0.	94.	0.17
MILE	27.30	832.98	499999.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE	25.20	832.78	499999.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE	23.10	832.32	499999.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

0DATE 10-24-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 526 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

TIME 13.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	895.53	500000.	12.64	39566.	1102.	10.65	0.0290	0.	77.	0.37
MILE 77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82.	0.28
MILE 75.60	884.98	500000.	11.20	44636.	3087.	10.82	0.0400	0.	78.	0.52
MILE 73.50	873.85	500000.	13.15	38016.	2350.	11.40	0.0330	0.	75.	0.58
MILE 71.40	871.29	500000.	8.27	60449.	1921.	12.61	0.0400	0.	73.	0.26
MILE 69.30	866.97	500000.	9.72	51440.	1877.	11.46	0.0340	0.	68.	0.33
MILE 67.20	864.78	500000.	6.35	78682.	4972.	11.06	0.0340	0.	74.	0.28
MILE 65.10	860.70	500000.	8.52	58707.	5603.	11.03	0.0320	0.	74.	0.46
MILE 63.00	859.33	500000.	5.00	99984.	3457.	9.30	0.0400	0.	78.	0.16
MILE 60.90	854.89	500000.	7.31	68400.	3173.	9.47	0.0450	0.	78.	0.28
MILE 58.80	847.13	500000.	8.53	58629.	2504.	8.89	0.0400	0.	74.	0.31
MILE 57.00	845.46	500000.	8.18	61155.	2644.	8.92	0.0200	0.	71.	0.30
MILE 55.00	842.85	500000.	9.71	51487.	2662.	8.87	0.0200	0.	69.	0.39
MILE 53.10	841.71	500000.	7.72	64759.	3174.	10.26	0.0200	0.	68.	0.30
MILE 51.00	840.28	500000.	8.13	61519.	4075.	10.43	0.0200	0.	71.	0.37
MILE 48.30	839.68	500000.	6.17	80996.	8355.	13.18	0.0200	0.	71.	0.35
MILE 46.20	838.97	500000.	6.85	73021.	8091.	12.49	0.0200	0.	77.	0.40
MILE 44.10	839.04	500000.	4.05	123367.	3627.	11.54	0.0300	0.	84.	0.12
MILE 43.70	837.18	500000.	11.13	44934.	3549.	14.58	0.0300	0.	84.	0.55
MILE 42.00	837.75	500000.	4.37	114468.	3579.	10.44	0.0300	0.	88.	0.14
MILE 39.10	835.46	500000.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE 37.00	835.62	500000.	4.56	109610.	2328.	14.11	0.0280	0.	84.	0.12
MILE 36.00	834.51	500000.	8.34	59944.	1654.	14.33	0.0280	0.	86.	0.24
MILE 34.60	834.22	500000.	6.46	77369.	2415.	15.49	0.0280	0.	86.	0.20
MILE 33.60	834.62	500000.	2.76	181076.	4590.	15.13	0.0290	0.	92.	0.08
MILE 31.50	833.73	500000.	6.73	74321.	3571.	15.78	0.0250	0.	95.	0.26
MILE 30.10	833.44	500000.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14
MILE 29.00	833.25	500000.	6.14	81399.	2053.	16.30	0.0200	0.	94.	0.17
MILE 27.30	832.98	500000.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE 25.20	832.78	500000.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE 23.10	832.32	500000.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

ODATE 10-24-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 14.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	895.53	500000.	12.64	39566.	1102.	10.65	0.0290	0.	77.	0.37
MILE 77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82.	0.28
MILE 75.60	884.98	500000.	11.20	44636.	3087.	10.82	0.0400	0.	78.	0.52
MILE 73.50	873.85	500000.	13.15	38016.	2350.	11.40	0.0330	0.	75.	0.58
MILE 71.40	871.29	500000.	8.27	60449.	1921.	12.61	0.0400	0.	73.	0.26
MILE 69.30	866.97	500000.	9.72	51440.	1877.	11.46	0.0340	0.	68.	0.33
MILE 67.20	864.78	500000.	6.35	78682.	4972.	11.06	0.0340	0.	74.	0.28
MILE 65.10	860.70	500000.	8.52	58707.	5603.	11.03	0.0320	0.	74.	0.46

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 527 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 63.00	859.33	500000.	5.00	99984.	3457.	9.30	0.0400	0.	78.	0.16
MILE 60.90	854.89	500000.	7.31	68400.	3173.	9.47	0.0450	0.	78.	0.28
MILE 58.80	847.13	500000.	8.53	58629.	2504.	8.89	0.0400	0.	74.	0.31
MILE 57.00	845.46	500000.	8.18	61155.	2644.	8.92	0.0200	0.	71.	0.30
MILE 55.00	842.85	500000.	9.71	51487.	2662.	8.87	0.0200	0.	69.	0.39
MILE 53.10	841.71	500000.	7.72	64759.	3174.	10.26	0.0200	0.	68.	0.30
MILE 51.00	840.28	500000.	8.13	61519.	4075.	10.43	0.0200	0.	71.	0.37
MILE 48.30	839.68	500000.	6.17	80996.	8355.	13.18	0.0200	0.	71.	0.35
MILE 46.20	838.97	500000.	6.85	73021.	8091.	12.49	0.0200	0.	77.	0.40
MILE 44.10	839.04	500000.	4.05	123367.	3627.	11.54	0.0300	0.	84.	0.12
MILE 43.70	837.18	500000.	11.13	44934.	3549.	14.58	0.0300	0.	84.	0.55
MILE 42.00	837.75	500000.	4.37	114468.	3579.	10.44	0.0300	0.	88.	0.14
MILE 39.10	835.46	500000.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE 37.00	835.62	500000.	4.56	109610.	2328.	14.11	0.0280	0.	84.	0.12
MILE 36.00	834.51	500000.	8.34	59944.	1654.	14.33	0.0280	0.	86.	0.24
MILE 34.60	834.22	500000.	6.46	77369.	2415.	15.49	0.0280	0.	86.	0.20
MILE 33.60	834.62	500000.	2.76	181076.	4590.	15.13	0.0290	0.	92.	0.08
MILE 31.50	833.73	500000.	6.73	74321.	3571.	15.78	0.0250	0.	95.	0.26
MILE 30.10	833.44	500000.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14
MILE 29.00	833.25	500000.	6.14	81399.	2053.	16.30	0.0200	0.	94.	0.17
MILE 27.30	832.98	500000.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE 25.20	832.78	500000.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE 23.10	832.32	500000.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

ODATE 10-24-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 15.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	895.53	500000.	12.64	39566.	1102.	10.65	0.0290	0.	77.	0.37
MILE 77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82.	0.28
MILE 75.60	884.98	500000.	11.20	44636.	3087.	10.82	0.0400	0.	78.	0.52
MILE 73.50	873.85	500000.	13.15	38016.	2350.	11.40	0.0330	0.	75.	0.58
MILE 71.40	871.29	500000.	8.27	60449.	1921.	12.61	0.0400	0.	73.	0.26
MILE 69.30	866.97	500000.	9.72	51440.	1877.	11.46	0.0340	0.	68.	0.33
MILE 67.20	864.78	500000.	6.35	78682.	4972.	11.06	0.0340	0.	74.	0.28
MILE 65.10	860.70	500000.	8.52	58707.	5603.	11.03	0.0320	0.	74.	0.46
MILE 63.00	859.33	500000.	5.00	99984.	3457.	9.30	0.0400	0.	78.	0.16
MILE 60.90	854.89	500000.	7.31	68400.	3173.	9.47	0.0450	0.	78.	0.28
MILE 58.80	847.13	500000.	8.53	58629.	2504.	8.89	0.0400	0.	74.	0.31
MILE 57.00	845.46	500000.	8.18	61155.	2644.	8.92	0.0200	0.	71.	0.30
MILE 55.00	842.85	500000.	9.71	51487.	2662.	8.87	0.0200	0.	69.	0.39
MILE 53.10	841.71	500000.	7.72	64759.	3174.	10.26	0.0200	0.	68.	0.30
MILE 51.00	840.28	500000.	8.13	61519.	4075.	10.43	0.0200	0.	71.	0.37
MILE 48.30	839.68	500000.	6.17	80996.	8355.	13.18	0.0200	0.	71.	0.35
MILE 46.20	838.97	500000.	6.85	73021.	8091.	12.49	0.0200	0.	77.	0.40
MILE 44.10	839.04	500000.	4.05	123367.	3627.	11.54	0.0300	0.	84.	0.12
MILE 43.70	837.18	500000.	11.13	44934.	3549.	14.58	0.0300	0.	84.	0.55

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 528 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 42.00	837.75	500000.	4.37	114468.	3579.	10.44	0.0300	0.	88.	0.14
MILE 39.10	835.46	500000.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE 37.00	835.62	500000.	4.56	109610.	2328.	14.11	0.0280	0.	84.	0.12
MILE 36.00	834.51	500000.	8.34	59944.	1654.	14.33	0.0280	0.	86.	0.24
MILE 34.60	834.22	500000.	6.46	77369.	2415.	15.49	0.0280	0.	86.	0.20
MILE 33.60	834.62	500000.	2.76	181076.	4590.	15.13	0.0290	0.	92.	0.08
MILE 31.50	833.73	500000.	6.73	74321.	3571.	15.78	0.0250	0.	95.	0.26
MILE 30.10	833.44	500000.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14
MILE 29.00	833.25	500000.	6.14	81399.	2053.	16.30	0.0200	0.	94.	0.17
MILE 27.30	832.98	500000.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE 25.20	832.78	500000.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE 23.10	832.32	500000.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

ODATE 10-24-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 16.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	895.53	500000.	12.64	39566.	1102.	10.65	0.0290	0.	77.	0.37
MILE 77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82.	0.28
MILE 75.60	884.98	500000.	11.20	44636.	3087.	10.82	0.0400	0.	78.	0.52
MILE 73.50	873.85	500000.	13.15	38016.	2350.	11.40	0.0330	0.	75.	0.58
MILE 71.40	871.29	500000.	8.27	60449.	1921.	12.61	0.0400	0.	73.	0.26
MILE 69.30	866.97	500000.	9.72	51440.	1877.	11.46	0.0340	0.	68.	0.33
MILE 67.20	864.78	500000.	6.35	78682.	4972.	11.06	0.0340	0.	74.	0.28
MILE 65.10	860.70	500000.	8.52	58707.	5603.	11.03	0.0320	0.	74.	0.46
MILE 63.00	859.33	500000.	5.00	99984.	3457.	9.30	0.0400	0.	78.	0.16
MILE 60.90	854.89	500000.	7.31	68400.	3173.	9.47	0.0450	0.	78.	0.28
MILE 58.80	847.13	500000.	8.53	58629.	2504.	8.89	0.0400	0.	74.	0.31
MILE 57.00	845.46	500000.	8.18	61155.	2644.	8.92	0.0200	0.	71.	0.30
MILE 55.00	842.85	500000.	9.71	51487.	2662.	8.87	0.0200	0.	69.	0.39
MILE 53.10	841.71	500000.	7.72	64759.	3174.	10.26	0.0200	0.	68.	0.30
MILE 51.00	840.28	500000.	8.13	61519.	4075.	10.43	0.0200	0.	71.	0.37
MILE 48.30	839.68	500000.	6.17	80996.	8355.	13.18	0.0200	0.	71.	0.35
MILE 46.20	838.97	500000.	6.85	73021.	8091.	12.49	0.0200	0.	77.	0.40
MILE 44.10	839.04	500000.	4.05	123367.	3627.	11.54	0.0300	0.	84.	0.12
MILE 43.70	837.18	500000.	11.13	44934.	3549.	14.58	0.0300	0.	84.	0.55
MILE 42.00	837.75	500000.	4.37	114468.	3579.	10.44	0.0300	0.	88.	0.14
MILE 39.10	835.46	500000.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE 37.00	835.62	500000.	4.56	109610.	2328.	14.11	0.0280	0.	84.	0.12
MILE 36.00	834.51	500000.	8.34	59944.	1654.	14.33	0.0280	0.	86.	0.24
MILE 34.60	834.22	500000.	6.46	77369.	2415.	15.49	0.0280	0.	86.	0.20
MILE 33.60	834.62	500000.	2.76	181076.	4590.	15.13	0.0290	0.	92.	0.08
MILE 31.50	833.73	500000.	6.73	74321.	3571.	15.78	0.0250	0.	95.	0.26
MILE 30.10	833.44	500000.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14
MILE 29.00	833.25	500000.	6.14	81399.	2053.	16.30	0.0200	0.	94.	0.17
MILE 27.30	832.98	500000.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE 25.20	832.78	500000.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 529 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 23.10 832.32 500000. 6.12 81690. 2153. 16.45 0.0230 0. 102. 0.18

0DATE 10-24-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 17.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80 895.53 500000. 12.64 39566. 1102. 10.65 0.0290 0. 77. 0.37
MILE 77.70 893.07 500000. 9.85 50786. 1346. 11.76 0.0400 0. 82. 0.28
MILE 75.60 884.98 500000. 11.20 44636. 3087. 10.82 0.0400 0. 78. 0.52
MILE 73.50 873.85 500000. 13.15 38016. 2350. 11.40 0.0330 0. 75. 0.58
MILE 71.40 871.29 500000. 8.27 60449. 1921. 12.61 0.0400 0. 73. 0.26
MILE 69.30 866.97 500000. 9.72 51440. 1877. 11.46 0.0340 0. 68. 0.33
MILE 67.20 864.78 500000. 6.35 78682. 4972. 11.06 0.0340 0. 74. 0.28
MILE 65.10 860.70 500000. 8.52 58707. 5603. 11.03 0.0320 0. 74. 0.46
MILE 63.00 859.33 500000. 5.00 99984. 3457. 9.30 0.0400 0. 78. 0.16
MILE 60.90 854.89 500000. 7.31 68400. 3173. 9.47 0.0450 0. 78. 0.28
MILE 58.80 847.13 500000. 8.53 58629. 2504. 8.89 0.0400 0. 74. 0.31
MILE 57.00 845.46 500000. 8.18 61155. 2644. 8.92 0.0200 0. 71. 0.30
MILE 55.00 842.85 500000. 9.71 51487. 2662. 8.87 0.0200 0. 69. 0.39
MILE 53.10 841.71 500000. 7.72 64759. 3174. 10.26 0.0200 0. 68. 0.30
MILE 51.00 840.28 500000. 8.13 61519. 4075. 10.43 0.0200 0. 71. 0.37
MILE 48.30 839.68 500000. 6.17 80996. 8355. 13.18 0.0200 0. 71. 0.35
MILE 46.20 838.97 500000. 6.85 73021. 8091. 12.49 0.0200 0. 77. 0.40
MILE 44.10 839.04 500000. 4.05 123367. 3627. 11.54 0.0300 0. 84. 0.12
MILE 43.70 837.18 500000. 11.13 44934. 3549. 14.58 0.0300 0. 84. 0.55
MILE 42.00 837.75 500000. 4.37 114468. 3579. 10.44 0.0300 0. 88. 0.14
MILE 39.10 835.46 500000. 8.08 61890. 3451. 13.81 0.0230 0. 84. 0.34
MILE 37.00 835.62 500000. 4.56 109610. 2328. 14.11 0.0280 0. 84. 0.12
MILE 36.00 834.51 500000. 8.34 59944. 1654. 14.33 0.0280 0. 86. 0.24
MILE 34.60 834.22 500000. 6.46 77369. 2415. 15.49 0.0280 0. 86. 0.20
MILE 33.60 834.62 500000. 2.76 181076. 4590. 15.13 0.0290 0. 92. 0.08
MILE 31.50 833.73 500000. 6.73 74321. 3571. 15.78 0.0250 0. 95. 0.26
MILE 30.10 833.44 500000. 6.08 82266. 1401. 14.93 0.0200 0. 93. 0.14
MILE 29.00 833.25 500000. 6.14 81399. 2053. 16.30 0.0200 0. 94. 0.17
MILE 27.30 832.98 500000. 6.20 80634. 1892. 16.76 0.0230 0. 96. 0.17
MILE 25.20 832.78 500000. 5.44 91856. 1829. 17.88 0.0230 0. 98. 0.14
MILE 23.10 832.32 500000. 6.12 81690. 2153. 16.45 0.0230 0. 102. 0.18

0DATE 10-24-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 18.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80 895.53 500000. 12.64 39566. 1102. 10.65 0.0290 0. 77. 0.37

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 530 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82.	0.28
MILE 75.60	884.98	500000.	11.20	44636.	3087.	10.82	0.0400	0.	78.	0.52
MILE 73.50	873.85	500000.	13.15	38016.	2350.	11.40	0.0330	0.	75.	0.58
MILE 71.40	871.29	500000.	8.27	60449.	1921.	12.61	0.0400	0.	73.	0.26
MILE 69.30	866.97	500000.	9.72	51440.	1877.	11.46	0.0340	0.	68.	0.33
MILE 67.20	864.78	500000.	6.35	78682.	4972.	11.06	0.0340	0.	74.	0.28
MILE 65.10	860.70	500000.	8.52	58707.	5603.	11.03	0.0320	0.	74.	0.46
MILE 63.00	859.33	500000.	5.00	99984.	3457.	9.30	0.0400	0.	78.	0.16
MILE 60.90	854.89	500000.	7.31	68400.	3173.	9.47	0.0450	0.	78.	0.28
MILE 58.80	847.13	500000.	8.53	58629.	2504.	8.89	0.0400	0.	74.	0.31
MILE 57.00	845.46	500000.	8.18	61155.	2644.	8.92	0.0200	0.	71.	0.30
MILE 55.00	842.85	500000.	9.71	51487.	2662.	8.87	0.0200	0.	69.	0.39
MILE 53.10	841.71	500000.	7.72	64759.	3174.	10.26	0.0200	0.	68.	0.30
MILE 51.00	840.28	500000.	8.13	61519.	4075.	10.43	0.0200	0.	71.	0.37
MILE 48.30	839.68	500000.	6.17	80996.	8355.	13.18	0.0200	0.	71.	0.35
MILE 46.20	838.97	500000.	6.85	73021.	8091.	12.49	0.0200	0.	77.	0.40
MILE 44.10	839.04	500000.	4.05	123367.	3627.	11.54	0.0300	0.	84.	0.12
MILE 43.70	837.18	500000.	11.13	44934.	3549.	14.58	0.0300	0.	84.	0.55
MILE 42.00	837.75	500000.	4.37	114468.	3579.	10.44	0.0300	0.	88.	0.14
MILE 39.10	835.46	500000.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE 37.00	835.62	500000.	4.56	109610.	2328.	14.11	0.0280	0.	84.	0.12
MILE 36.00	834.51	500000.	8.34	59944.	1654.	14.33	0.0280	0.	86.	0.24
MILE 34.60	834.22	500000.	6.46	77369.	2415.	15.49	0.0280	0.	86.	0.20
MILE 33.60	834.62	500000.	2.76	181076.	4590.	15.13	0.0290	0.	92.	0.08
MILE 31.50	833.73	500000.	6.73	74321.	3571.	15.78	0.0250	0.	95.	0.26
MILE 30.10	833.44	500000.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14
MILE 29.00	833.25	500000.	6.14	81399.	2053.	16.30	0.0200	0.	94.	0.17
MILE 27.30	832.98	500000.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE 25.20	832.78	500000.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE 23.10	832.32	500000.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

0DATE 10-24-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 19.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	895.53	500000.	12.64	39566.	1102.	10.65	0.0290	0.	77.	0.37
MILE 77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82.	0.28
MILE 75.60	884.98	500000.	11.20	44636.	3087.	10.82	0.0400	0.	78.	0.52
MILE 73.50	873.85	500000.	13.15	38016.	2350.	11.40	0.0330	0.	75.	0.58
MILE 71.40	871.29	500000.	8.27	60449.	1921.	12.61	0.0400	0.	73.	0.26
MILE 69.30	866.97	500000.	9.72	51440.	1877.	11.46	0.0340	0.	68.	0.33
MILE 67.20	864.78	500000.	6.35	78682.	4972.	11.06	0.0340	0.	74.	0.28
MILE 65.10	860.70	500000.	8.52	58707.	5603.	11.03	0.0320	0.	74.	0.46
MILE 63.00	859.33	500000.	5.00	99984.	3457.	9.30	0.0400	0.	78.	0.16
MILE 60.90	854.89	500000.	7.31	68400.	3173.	9.47	0.0450	0.	78.	0.28
MILE 58.80	847.13	500000.	8.53	58629.	2504.	8.89	0.0400	0.	74.	0.31
MILE 57.00	845.46	500000.	8.18	61155.	2644.	8.92	0.0200	0.	71.	0.30

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 55.00	842.85	500000.	9.71	51487.	2662.	8.87	0.0200	0.	69.	0.39
MILE 53.10	841.71	500000.	7.72	64759.	3174.	10.26	0.0200	0.	68.	0.30
MILE 51.00	840.28	500000.	8.13	61519.	4075.	10.43	0.0200	0.	71.	0.37
MILE 48.30	839.68	500000.	6.17	80996.	8355.	13.18	0.0200	0.	71.	0.35
MILE 46.20	838.97	500000.	6.85	73021.	8091.	12.49	0.0200	0.	77.	0.40
MILE 44.10	839.04	500000.	4.05	123367.	3627.	11.54	0.0300	0.	84.	0.12
MILE 43.70	837.18	500000.	11.13	44934.	3549.	14.58	0.0300	0.	84.	0.55
MILE 42.00	837.75	500000.	4.37	114468.	3579.	10.44	0.0300	0.	88.	0.14
MILE 39.10	835.46	500000.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE 37.00	835.62	500000.	4.56	109610.	2328.	14.11	0.0280	0.	84.	0.12
MILE 36.00	834.51	500000.	8.34	59944.	1654.	14.33	0.0280	0.	86.	0.24
MILE 34.60	834.22	500000.	6.46	77369.	2415.	15.49	0.0280	0.	86.	0.20
MILE 33.60	834.62	500000.	2.76	181076.	4590.	15.13	0.0290	0.	92.	0.08
MILE 31.50	833.73	500000.	6.73	74321.	3571.	15.78	0.0250	0.	95.	0.26
MILE 30.10	833.44	500000.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14
MILE 29.00	833.25	500000.	6.14	81399.	2053.	16.30	0.0200	0.	94.	0.17
MILE 27.30	832.98	500000.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE 25.20	832.78	500000.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE 23.10	832.32	500000.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

ODATE 10-24-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 20.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	895.53	500000.	12.64	39566.	1102.	10.65	0.0290	0.	77.	0.37
MILE 77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82.	0.28
MILE 75.60	884.98	500000.	11.20	44636.	3087.	10.82	0.0400	0.	78.	0.52
MILE 73.50	873.85	500000.	13.15	38016.	2350.	11.40	0.0330	0.	75.	0.58
MILE 71.40	871.29	500000.	8.27	60449.	1921.	12.61	0.0400	0.	73.	0.26
MILE 69.30	866.97	500000.	9.72	51440.	1877.	11.46	0.0340	0.	68.	0.33
MILE 67.20	864.78	500000.	6.35	78682.	4972.	11.06	0.0340	0.	74.	0.28
MILE 65.10	860.70	500000.	8.52	58707.	5603.	11.03	0.0320	0.	74.	0.46
MILE 63.00	859.33	500000.	5.00	99984.	3457.	9.30	0.0400	0.	78.	0.16
MILE 60.90	854.89	500000.	7.31	68400.	3173.	9.47	0.0450	0.	78.	0.28
MILE 58.80	847.13	500000.	8.53	58629.	2504.	8.89	0.0400	0.	74.	0.31
MILE 57.00	845.46	500000.	8.18	61155.	2644.	8.92	0.0200	0.	71.	0.30
MILE 55.00	842.85	500000.	9.71	51487.	2662.	8.87	0.0200	0.	69.	0.39
MILE 53.10	841.71	500000.	7.72	64759.	3174.	10.26	0.0200	0.	68.	0.30
MILE 51.00	840.28	500000.	8.13	61519.	4075.	10.43	0.0200	0.	71.	0.37
MILE 48.30	839.68	500000.	6.17	80996.	8355.	13.18	0.0200	0.	71.	0.35
MILE 46.20	838.97	500000.	6.85	73021.	8091.	12.49	0.0200	0.	77.	0.40
MILE 44.10	839.04	500000.	4.05	123367.	3627.	11.54	0.0300	0.	84.	0.12
MILE 43.70	837.18	500000.	11.13	44934.	3549.	14.58	0.0300	0.	84.	0.55
MILE 42.00	837.75	500000.	4.37	114468.	3579.	10.44	0.0300	0.	88.	0.14
MILE 39.10	835.46	500000.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE 37.00	835.62	500000.	4.56	109610.	2328.	14.11	0.0280	0.	84.	0.12
MILE 36.00	834.51	500000.	8.34	59944.	1654.	14.33	0.0280	0.	86.	0.24

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 532 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	34.60	834.22	500000.	6.46	77369.	2415.	15.49	0.0280	0.	86.	0.20
MILE	33.60	834.62	500000.	2.76	181076.	4590.	15.13	0.0290	0.	92.	0.08
MILE	31.50	833.73	500000.	6.73	74321.	3571.	15.78	0.0250	0.	95.	0.26
MILE	30.10	833.44	500000.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14
MILE	29.00	833.25	500000.	6.14	81399.	2053.	16.30	0.0200	0.	94.	0.17
MILE	27.30	832.98	500000.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE	25.20	832.78	500000.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE	23.10	832.32	500000.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

0DATE 10-24-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 21.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	895.53	500000.	12.64	39566.	1102.	10.65	0.0290	0.	77.	0.37
MILE	77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82.	0.28
MILE	75.60	884.98	500000.	11.20	44636.	3087.	10.82	0.0400	0.	78.	0.52
MILE	73.50	873.85	500000.	13.15	38016.	2350.	11.40	0.0330	0.	75.	0.58
MILE	71.40	871.29	500000.	8.27	60449.	1921.	12.61	0.0400	0.	73.	0.26
MILE	69.30	866.97	500000.	9.72	51440.	1877.	11.46	0.0340	0.	68.	0.33
MILE	67.20	864.78	500000.	6.35	78682.	4972.	11.06	0.0340	0.	74.	0.28
MILE	65.10	860.70	500000.	8.52	58707.	5603.	11.03	0.0320	0.	74.	0.46
MILE	63.00	859.33	500000.	5.00	99984.	3457.	9.30	0.0400	0.	78.	0.16
MILE	60.90	854.89	500000.	7.31	68400.	3173.	9.47	0.0450	0.	78.	0.28
MILE	58.80	847.13	500000.	8.53	58629.	2504.	8.89	0.0400	0.	74.	0.31
MILE	57.00	845.46	500000.	8.18	61155.	2644.	8.92	0.0200	0.	71.	0.30
MILE	55.00	842.85	500000.	9.71	51487.	2662.	8.87	0.0200	0.	69.	0.39
MILE	53.10	841.71	500000.	7.72	64759.	3174.	10.26	0.0200	0.	68.	0.30
MILE	51.00	840.28	500000.	8.13	61519.	4075.	10.43	0.0200	0.	71.	0.37
MILE	48.30	839.68	500000.	6.17	80996.	8355.	13.18	0.0200	0.	71.	0.35
MILE	46.20	838.97	500000.	6.85	73021.	8091.	12.49	0.0200	0.	77.	0.40
MILE	44.10	839.04	500000.	4.05	123367.	3627.	11.54	0.0300	0.	84.	0.12
MILE	43.70	837.18	500000.	11.13	44934.	3549.	14.58	0.0300	0.	84.	0.55
MILE	42.00	837.75	500000.	4.37	114468.	3579.	10.44	0.0300	0.	88.	0.14
MILE	39.10	835.46	500000.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE	37.00	835.62	500000.	4.56	109610.	2328.	14.11	0.0280	0.	84.	0.12
MILE	36.00	834.51	500000.	8.34	59944.	1654.	14.33	0.0280	0.	86.	0.24
MILE	34.60	834.22	500000.	6.46	77369.	2415.	15.49	0.0280	0.	86.	0.20
MILE	33.60	834.62	500000.	2.76	181076.	4590.	15.13	0.0290	0.	92.	0.08
MILE	31.50	833.73	500000.	6.73	74321.	3571.	15.78	0.0250	0.	95.	0.26
MILE	30.10	833.44	500000.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14
MILE	29.00	833.25	500000.	6.14	81399.	2053.	16.30	0.0200	0.	94.	0.17
MILE	27.30	832.98	500000.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE	25.20	832.78	500000.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE	23.10	832.32	500000.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 533 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

0DATE 10-24-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 22.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL
	INFLOW DEPTH	FROUDE							
MILE 79.80	895.53	500000.	12.64	39566.	1102.	10.65	0.0290	0.	77. 0.37
MILE 77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82. 0.28
MILE 75.60	884.98	500000.	11.20	44636.	3087.	10.82	0.0400	0.	78. 0.52
MILE 73.50	873.85	500000.	13.15	38016.	2350.	11.40	0.0330	0.	75. 0.58
MILE 71.40	871.29	500000.	8.27	60449.	1921.	12.61	0.0400	0.	73. 0.26
MILE 69.30	866.97	500000.	9.72	51440.	1877.	11.46	0.0340	0.	68. 0.33
MILE 67.20	864.78	500000.	6.35	78682.	4972.	11.06	0.0340	0.	74. 0.28
MILE 65.10	860.70	500000.	8.52	58707.	5603.	11.03	0.0320	0.	74. 0.46
MILE 63.00	859.33	500000.	5.00	99984.	3457.	9.30	0.0400	0.	78. 0.16
MILE 60.90	854.89	500000.	7.31	68400.	3173.	9.47	0.0450	0.	78. 0.28
MILE 58.80	847.13	500000.	8.53	58629.	2504.	8.89	0.0400	0.	74. 0.31
MILE 57.00	845.46	500000.	8.18	61155.	2644.	8.92	0.0200	0.	71. 0.30
MILE 55.00	842.85	500000.	9.71	51487.	2662.	8.87	0.0200	0.	69. 0.39
MILE 53.10	841.71	500000.	7.72	64759.	3174.	10.26	0.0200	0.	68. 0.30
MILE 51.00	840.28	500000.	8.13	61519.	4075.	10.43	0.0200	0.	71. 0.37
MILE 48.30	839.68	500000.	6.17	80996.	8355.	13.18	0.0200	0.	71. 0.35
MILE 46.20	838.97	500000.	6.85	73021.	8091.	12.49	0.0200	0.	77. 0.40
MILE 44.10	839.04	500000.	4.05	123367.	3627.	11.54	0.0300	0.	84. 0.12
MILE 43.70	837.18	500000.	11.13	44934.	3549.	14.58	0.0300	0.	84. 0.55
MILE 42.00	837.75	500000.	4.37	114468.	3579.	10.44	0.0300	0.	88. 0.14
MILE 39.10	835.46	500000.	8.08	61890.	3451.	13.81	0.0230	0.	84. 0.34
MILE 37.00	835.62	500000.	4.56	109610.	2328.	14.11	0.0280	0.	84. 0.12
MILE 36.00	834.51	500000.	8.34	59944.	1654.	14.33	0.0280	0.	86. 0.24
MILE 34.60	834.22	500000.	6.46	77369.	2415.	15.49	0.0280	0.	86. 0.20
MILE 33.60	834.62	500000.	2.76	181076.	4590.	15.13	0.0290	0.	92. 0.08
MILE 31.50	833.73	500000.	6.73	74321.	3571.	15.78	0.0250	0.	95. 0.26
MILE 30.10	833.44	500000.	6.08	82266.	1401.	14.93	0.0200	0.	93. 0.14
MILE 29.00	833.25	500000.	6.14	81399.	2053.	16.30	0.0200	0.	94. 0.17
MILE 27.30	832.98	500000.	6.20	80634.	1892.	16.76	0.0230	0.	96. 0.17
MILE 25.20	832.78	500000.	5.44	91856.	1829.	17.88	0.0230	0.	98. 0.14
MILE 23.10	832.32	500000.	6.12	81690.	2153.	16.45	0.0230	0.	102. 0.18

0DATE 10-24-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 23.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL
	INFLOW DEPTH	FROUDE							
MILE 79.80	895.53	500000.	12.64	39566.	1102.	10.65	0.0290	0.	77. 0.37
MILE 77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82. 0.28
MILE 75.60	884.98	500000.	11.20	44636.	3087.	10.82	0.0400	0.	78. 0.52
MILE 73.50	873.85	500000.	13.15	38016.	2350.	11.40	0.0330	0.	75. 0.58
MILE 71.40	871.29	500000.	8.27	60449.	1921.	12.61	0.0400	0.	73. 0.26

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 534 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 69.30	866.97	500000.	9.72	51440.	1877.	11.46	0.0340	0.	68.	0.33
MILE 67.20	864.78	500000.	6.35	78682.	4972.	11.06	0.0340	0.	74.	0.28
MILE 65.10	860.70	500000.	8.52	58707.	5603.	11.03	0.0320	0.	74.	0.46
MILE 63.00	859.33	500000.	5.00	99984.	3457.	9.30	0.0400	0.	78.	0.16
MILE 60.90	854.89	500000.	7.31	68400.	3173.	9.47	0.0450	0.	78.	0.28
MILE 58.80	847.13	500000.	8.53	58629.	2504.	8.89	0.0400	0.	74.	0.31
MILE 57.00	845.46	500000.	8.18	61155.	2644.	8.92	0.0200	0.	71.	0.30
MILE 55.00	842.85	500000.	9.71	51487.	2662.	8.87	0.0200	0.	69.	0.39
MILE 53.10	841.71	500000.	7.72	64759.	3174.	10.26	0.0200	0.	68.	0.30
MILE 51.00	840.28	500000.	8.13	61519.	4075.	10.43	0.0200	0.	71.	0.37
MILE 48.30	839.68	500000.	6.17	80996.	8355.	13.18	0.0200	0.	71.	0.35
MILE 46.20	838.97	500000.	6.85	73021.	8091.	12.49	0.0200	0.	77.	0.40
MILE 44.10	839.04	500000.	4.05	123367.	3627.	11.54	0.0300	0.	84.	0.12
MILE 43.70	837.18	500000.	11.13	44934.	3549.	14.58	0.0300	0.	84.	0.55
MILE 42.00	837.75	500000.	4.37	114468.	3579.	10.44	0.0300	0.	88.	0.14
MILE 39.10	835.46	500000.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE 37.00	835.62	500000.	4.56	109610.	2328.	14.11	0.0280	0.	84.	0.12
MILE 36.00	834.51	500000.	8.34	59944.	1654.	14.33	0.0280	0.	86.	0.24
MILE 34.60	834.22	500000.	6.46	77369.	2415.	15.49	0.0280	0.	86.	0.20
MILE 33.60	834.62	500000.	2.76	181076.	4590.	15.13	0.0290	0.	92.	0.08
MILE 31.50	833.73	500000.	6.73	74321.	3571.	15.78	0.0250	0.	95.	0.26
MILE 30.10	833.44	500000.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14
MILE 29.00	833.25	500000.	6.14	81399.	2053.	16.30	0.0200	0.	94.	0.17
MILE 27.30	832.98	500000.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE 25.20	832.78	500000.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE 23.10	832.32	500000.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

0DATE 10-25-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	0.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL	
INFLOW	DEPTH	FROUDE								
MILE 79.80	895.53	500000.	12.64	39566.	1102.	10.65	0.0290	0.	77.	0.37
MILE 77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82.	0.28
MILE 75.60	884.98	500000.	11.20	44636.	3087.	10.82	0.0400	0.	78.	0.52
MILE 73.50	873.85	500000.	13.15	38016.	2350.	11.40	0.0330	0.	75.	0.58
MILE 71.40	871.29	500000.	8.27	60449.	1921.	12.61	0.0400	0.	73.	0.26
MILE 69.30	866.97	500000.	9.72	51440.	1877.	11.46	0.0340	0.	68.	0.33
MILE 67.20	864.78	500000.	6.35	78682.	4972.	11.06	0.0340	0.	74.	0.28
MILE 65.10	860.70	500000.	8.52	58707.	5603.	11.03	0.0320	0.	74.	0.46
MILE 63.00	859.33	500000.	5.00	99984.	3457.	9.30	0.0400	0.	78.	0.16
MILE 60.90	854.89	500000.	7.31	68400.	3173.	9.47	0.0450	0.	78.	0.28
MILE 58.80	847.13	500000.	8.53	58629.	2504.	8.89	0.0400	0.	74.	0.31
MILE 57.00	845.46	500000.	8.18	61155.	2644.	8.92	0.0200	0.	71.	0.30
MILE 55.00	842.85	500000.	9.71	51487.	2662.	8.87	0.0200	0.	69.	0.39
MILE 53.10	841.71	500000.	7.72	64759.	3174.	10.26	0.0200	0.	68.	0.30
MILE 51.00	840.28	500000.	8.13	61519.	4075.	10.43	0.0200	0.	71.	0.37
MILE 48.30	839.68	500000.	6.17	80996.	8355.	13.18	0.0200	0.	71.	0.35

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 535 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	46.20	838.97	500000.	6.85	73021.	8091.	12.49	0.0200	0.	77.	0.40
MILE	44.10	839.04	500000.	4.05	123367.	3627.	11.54	0.0300	0.	84.	0.12
MILE	43.70	837.18	500000.	11.13	44934.	3549.	14.58	0.0300	0.	84.	0.55
MILE	42.00	837.75	500000.	4.37	114468.	3579.	10.44	0.0300	0.	88.	0.14
MILE	39.10	835.46	500000.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE	37.00	835.62	500000.	4.56	109610.	2328.	14.11	0.0280	0.	84.	0.12
MILE	36.00	834.51	500000.	8.34	59944.	1654.	14.33	0.0280	0.	86.	0.24
MILE	34.60	834.22	500000.	6.46	77369.	2415.	15.49	0.0280	0.	86.	0.20
MILE	33.60	834.62	500000.	2.76	181076.	4590.	15.13	0.0290	0.	92.	0.08
MILE	31.50	833.73	500000.	6.73	74321.	3571.	15.78	0.0250	0.	95.	0.26
MILE	30.10	833.44	500000.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14
MILE	29.00	833.25	500000.	6.14	81399.	2053.	16.30	0.0200	0.	94.	0.17
MILE	27.30	832.98	500000.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE	25.20	832.78	500000.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE	23.10	832.32	500000.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

ODATE 10-25-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 1.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
	INFLOW DEPTH	FROUDE									
MILE	79.80	895.53	500000.	12.64	39566.	1102.	10.65	0.0290	0.	77.	0.37
MILE	77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82.	0.28
MILE	75.60	884.98	500000.	11.20	44636.	3087.	10.82	0.0400	0.	78.	0.52
MILE	73.50	873.85	500000.	13.15	38016.	2350.	11.40	0.0330	0.	75.	0.58
MILE	71.40	871.29	500000.	8.27	60449.	1921.	12.61	0.0400	0.	73.	0.26
MILE	69.30	866.97	500000.	9.72	51440.	1877.	11.46	0.0340	0.	68.	0.33
MILE	67.20	864.78	500000.	6.35	78682.	4972.	11.06	0.0340	0.	74.	0.28
MILE	65.10	860.70	500000.	8.52	58707.	5603.	11.03	0.0320	0.	74.	0.46
MILE	63.00	859.33	500000.	5.00	99984.	3457.	9.30	0.0400	0.	78.	0.16
MILE	60.90	854.89	500000.	7.31	68400.	3173.	9.47	0.0450	0.	78.	0.28
MILE	58.80	847.13	500000.	8.53	58629.	2504.	8.89	0.0400	0.	74.	0.31
MILE	57.00	845.46	500000.	8.18	61155.	2644.	8.92	0.0200	0.	71.	0.30
MILE	55.00	842.85	500000.	9.71	51487.	2662.	8.87	0.0200	0.	69.	0.39
MILE	53.10	841.71	500000.	7.72	64759.	3174.	10.26	0.0200	0.	68.	0.30
MILE	51.00	840.28	500000.	8.13	61519.	4075.	10.43	0.0200	0.	71.	0.37
MILE	48.30	839.68	500000.	6.17	80996.	8355.	13.18	0.0200	0.	71.	0.35
MILE	46.20	838.97	500000.	6.85	73021.	8091.	12.49	0.0200	0.	77.	0.40
MILE	44.10	839.04	500000.	4.05	123367.	3627.	11.54	0.0300	0.	84.	0.12
MILE	43.70	837.18	500000.	11.13	44934.	3549.	14.58	0.0300	0.	84.	0.55
MILE	42.00	837.75	500000.	4.37	114468.	3579.	10.44	0.0300	0.	88.	0.14
MILE	39.10	835.46	500000.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE	37.00	835.62	500000.	4.56	109610.	2328.	14.11	0.0280	0.	84.	0.12
MILE	36.00	834.51	500000.	8.34	59944.	1654.	14.33	0.0280	0.	86.	0.24
MILE	34.60	834.22	500000.	6.46	77369.	2415.	15.49	0.0280	0.	86.	0.20
MILE	33.60	834.62	500000.	2.76	181076.	4590.	15.13	0.0290	0.	92.	0.08
MILE	31.50	833.73	500000.	6.73	74321.	3571.	15.78	0.0250	0.	95.	0.26
MILE	30.10	833.44	500000.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	29.00	833.25	500000.	6.14	81399.	2053.	16.30	0.0200	0.	94.	0.17
MILE	27.30	832.98	500000.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE	25.20	832.78	500000.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE	23.10	832.32	500000.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

0DATE 10-25-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 2.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE	79.80	895.53	500000.	12.64	39566.	1102.	10.65	0.0290	0.	77.	0.37
MILE	77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82.	0.28
MILE	75.60	884.98	500000.	11.20	44636.	3087.	10.82	0.0400	0.	78.	0.52
MILE	73.50	873.85	500000.	13.15	38016.	2350.	11.40	0.0330	0.	75.	0.58
MILE	71.40	871.29	500000.	8.27	60449.	1921.	12.61	0.0400	0.	73.	0.26
MILE	69.30	866.97	500000.	9.72	51440.	1877.	11.46	0.0340	0.	68.	0.33
MILE	67.20	864.78	500000.	6.35	78682.	4972.	11.06	0.0340	0.	74.	0.28
MILE	65.10	860.70	500000.	8.52	58707.	5603.	11.03	0.0320	0.	74.	0.46
MILE	63.00	859.33	500000.	5.00	99984.	3457.	9.30	0.0400	0.	78.	0.16
MILE	60.90	854.89	500000.	7.31	68400.	3173.	9.47	0.0450	0.	78.	0.28
MILE	58.80	847.13	500000.	8.53	58629.	2504.	8.89	0.0400	0.	74.	0.31
MILE	57.00	845.46	500000.	8.18	61155.	2644.	8.92	0.0200	0.	71.	0.30
MILE	55.00	842.85	500000.	9.71	51487.	2662.	8.87	0.0200	0.	69.	0.39
MILE	53.10	841.71	500000.	7.72	64759.	3174.	10.26	0.0200	0.	68.	0.30
MILE	51.00	840.28	500000.	8.13	61519.	4075.	10.43	0.0200	0.	71.	0.37
MILE	48.30	839.68	500000.	6.17	80996.	8355.	13.18	0.0200	0.	71.	0.35
MILE	46.20	838.97	500000.	6.85	73021.	8091.	12.49	0.0200	0.	77.	0.40
MILE	44.10	839.04	500000.	4.05	123367.	3627.	11.54	0.0300	0.	84.	0.12
MILE	43.70	837.18	500000.	11.13	44934.	3549.	14.58	0.0300	0.	84.	0.55
MILE	42.00	837.75	500000.	4.37	114468.	3579.	10.44	0.0300	0.	88.	0.14
MILE	39.10	835.46	500000.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE	37.00	835.62	500000.	4.56	109610.	2328.	14.11	0.0280	0.	84.	0.12
MILE	36.00	834.51	500000.	8.34	59944.	1654.	14.33	0.0280	0.	86.	0.24
MILE	34.60	834.22	500000.	6.46	77369.	2415.	15.49	0.0280	0.	86.	0.20
MILE	33.60	834.62	500000.	2.76	181076.	4590.	15.13	0.0290	0.	92.	0.08
MILE	31.50	833.73	500000.	6.73	74321.	3571.	15.78	0.0250	0.	95.	0.26
MILE	30.10	833.44	500000.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14
MILE	29.00	833.25	500000.	6.14	81399.	2053.	16.30	0.0200	0.	94.	0.17
MILE	27.30	832.98	500000.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE	25.20	832.78	500000.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE	23.10	832.32	500000.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

0DATE 10-25-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 537 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

TIME 3.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	895.53	500000.	12.64	39566.	1102.	10.65	0.0290	0.	77.	0.37
MILE 77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82.	0.28
MILE 75.60	884.98	500000.	11.20	44636.	3087.	10.82	0.0400	0.	78.	0.52
MILE 73.50	873.85	500000.	13.15	38016.	2350.	11.40	0.0330	0.	75.	0.58
MILE 71.40	871.29	500000.	8.27	60449.	1921.	12.61	0.0400	0.	73.	0.26
MILE 69.30	866.97	500000.	9.72	51440.	1877.	11.46	0.0340	0.	68.	0.33
MILE 67.20	864.78	500000.	6.35	78682.	4972.	11.06	0.0340	0.	74.	0.28
MILE 65.10	860.70	500000.	8.52	58707.	5603.	11.03	0.0320	0.	74.	0.46
MILE 63.00	859.33	500000.	5.00	99984.	3457.	9.30	0.0400	0.	78.	0.16
MILE 60.90	854.89	500000.	7.31	68400.	3173.	9.47	0.0450	0.	78.	0.28
MILE 58.80	847.13	500000.	8.53	58629.	2504.	8.89	0.0400	0.	74.	0.31
MILE 57.00	845.46	500000.	8.18	61155.	2644.	8.92	0.0200	0.	71.	0.30
MILE 55.00	842.85	500000.	9.71	51487.	2662.	8.87	0.0200	0.	69.	0.39
MILE 53.10	841.71	500000.	7.72	64759.	3174.	10.26	0.0200	0.	68.	0.30
MILE 51.00	840.28	500000.	8.13	61519.	4075.	10.43	0.0200	0.	71.	0.37
MILE 48.30	839.68	500000.	6.17	80996.	8355.	13.18	0.0200	0.	71.	0.35
MILE 46.20	838.97	500000.	6.85	73021.	8091.	12.49	0.0200	0.	77.	0.40
MILE 44.10	839.04	500000.	4.05	123367.	3627.	11.54	0.0300	0.	84.	0.12
MILE 43.70	837.18	500000.	11.13	44934.	3549.	14.58	0.0300	0.	84.	0.55
MILE 42.00	837.75	500000.	4.37	114468.	3579.	10.44	0.0300	0.	88.	0.14
MILE 39.10	835.46	500000.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE 37.00	835.62	500000.	4.56	109610.	2328.	14.11	0.0280	0.	84.	0.12
MILE 36.00	834.51	500000.	8.34	59944.	1654.	14.33	0.0280	0.	86.	0.24
MILE 34.60	834.22	500000.	6.46	77369.	2415.	15.49	0.0280	0.	86.	0.20
MILE 33.60	834.62	500000.	2.76	181076.	4590.	15.13	0.0290	0.	92.	0.08
MILE 31.50	833.73	500000.	6.73	74321.	3571.	15.78	0.0250	0.	95.	0.26
MILE 30.10	833.44	500000.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14
MILE 29.00	833.25	500000.	6.14	81399.	2053.	16.30	0.0200	0.	94.	0.17
MILE 27.30	832.98	500000.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE 25.20	832.78	500000.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE 23.10	832.32	500000.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

0DATE 10-25-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 4.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	895.53	500000.	12.64	39566.	1102.	10.65	0.0290	0.	77.	0.37
MILE 77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82.	0.28
MILE 75.60	884.98	500000.	11.20	44636.	3087.	10.82	0.0400	0.	78.	0.52
MILE 73.50	873.85	500000.	13.15	38016.	2350.	11.40	0.0330	0.	75.	0.58
MILE 71.40	871.29	500000.	8.27	60449.	1921.	12.61	0.0400	0.	73.	0.26
MILE 69.30	866.97	500000.	9.72	51440.	1877.	11.46	0.0340	0.	68.	0.33
MILE 67.20	864.78	500000.	6.35	78682.	4972.	11.06	0.0340	0.	74.	0.28
MILE 65.10	860.70	500000.	8.52	58707.	5603.	11.03	0.0320	0.	74.	0.46

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 538 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 63.00	859.33	500000.	5.00	99984.	3457.	9.30	0.0400	0.	78.	0.16
MILE 60.90	854.89	500000.	7.31	68400.	3173.	9.47	0.0450	0.	78.	0.28
MILE 58.80	847.13	500000.	8.53	58629.	2504.	8.89	0.0400	0.	74.	0.31
MILE 57.00	845.46	500000.	8.18	61155.	2644.	8.92	0.0200	0.	71.	0.30
MILE 55.00	842.85	500000.	9.71	51487.	2662.	8.87	0.0200	0.	69.	0.39
MILE 53.10	841.71	500000.	7.72	64759.	3174.	10.26	0.0200	0.	68.	0.30
MILE 51.00	840.28	500000.	8.13	61519.	4075.	10.43	0.0200	0.	71.	0.37
MILE 48.30	839.68	500000.	6.17	80996.	8355.	13.18	0.0200	0.	71.	0.35
MILE 46.20	838.97	500000.	6.85	73021.	8091.	12.49	0.0200	0.	77.	0.40
MILE 44.10	839.04	500000.	4.05	123367.	3627.	11.54	0.0300	0.	84.	0.12
MILE 43.70	837.18	500000.	11.13	44934.	3549.	14.58	0.0300	0.	84.	0.55
MILE 42.00	837.75	500000.	4.37	114468.	3579.	10.44	0.0300	0.	88.	0.14
MILE 39.10	835.46	500000.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE 37.00	835.62	500000.	4.56	109610.	2328.	14.11	0.0280	0.	84.	0.12
MILE 36.00	834.51	500000.	8.34	59944.	1654.	14.33	0.0280	0.	86.	0.24
MILE 34.60	834.22	500000.	6.46	77369.	2415.	15.49	0.0280	0.	86.	0.20
MILE 33.60	834.62	500000.	2.76	181076.	4590.	15.13	0.0290	0.	92.	0.08
MILE 31.50	833.73	500000.	6.73	74321.	3571.	15.78	0.0250	0.	95.	0.26
MILE 30.10	833.44	500000.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14
MILE 29.00	833.25	500000.	6.14	81399.	2053.	16.30	0.0200	0.	94.	0.17
MILE 27.30	832.98	500000.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE 25.20	832.78	500000.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE 23.10	832.32	500000.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

ODATE 10-25-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 5.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	895.53	500000.	12.64	39566.	1102.	10.65	0.0290	0.	77.	0.37
MILE 77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82.	0.28
MILE 75.60	884.98	500000.	11.20	44636.	3087.	10.82	0.0400	0.	78.	0.52
MILE 73.50	873.85	500000.	13.15	38016.	2350.	11.40	0.0330	0.	75.	0.58
MILE 71.40	871.29	500000.	8.27	60449.	1921.	12.61	0.0400	0.	73.	0.26
MILE 69.30	866.97	500000.	9.72	51440.	1877.	11.46	0.0340	0.	68.	0.33
MILE 67.20	864.78	500000.	6.35	78682.	4972.	11.06	0.0340	0.	74.	0.28
MILE 65.10	860.70	500000.	8.52	58707.	5603.	11.03	0.0320	0.	74.	0.46
MILE 63.00	859.33	500000.	5.00	99984.	3457.	9.30	0.0400	0.	78.	0.16
MILE 60.90	854.89	500000.	7.31	68400.	3173.	9.47	0.0450	0.	78.	0.28
MILE 58.80	847.13	500000.	8.53	58629.	2504.	8.89	0.0400	0.	74.	0.31
MILE 57.00	845.46	500000.	8.18	61155.	2644.	8.92	0.0200	0.	71.	0.30
MILE 55.00	842.85	500000.	9.71	51487.	2662.	8.87	0.0200	0.	69.	0.39
MILE 53.10	841.71	500000.	7.72	64759.	3174.	10.26	0.0200	0.	68.	0.30
MILE 51.00	840.28	500000.	8.13	61519.	4075.	10.43	0.0200	0.	71.	0.37
MILE 48.30	839.68	500000.	6.17	80996.	8355.	13.18	0.0200	0.	71.	0.35
MILE 46.20	838.97	500000.	6.85	73021.	8091.	12.49	0.0200	0.	77.	0.40
MILE 44.10	839.04	500000.	4.05	123367.	3627.	11.54	0.0300	0.	84.	0.12
MILE 43.70	837.18	500000.	11.13	44934.	3549.	14.58	0.0300	0.	84.	0.55

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 539 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	42.00	837.75	500000.	4.37	114468.	3579.	10.44	0.0300	0.	88.	0.14
MILE	39.10	835.46	500000.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE	37.00	835.62	500000.	4.56	109610.	2328.	14.11	0.0280	0.	84.	0.12
MILE	36.00	834.51	500000.	8.34	59944.	1654.	14.33	0.0280	0.	86.	0.24
MILE	34.60	834.22	500000.	6.46	77369.	2415.	15.49	0.0280	0.	86.	0.20
MILE	33.60	834.62	500000.	2.76	181076.	4590.	15.13	0.0290	0.	92.	0.08
MILE	31.50	833.73	500000.	6.73	74321.	3571.	15.78	0.0250	0.	95.	0.26
MILE	30.10	833.44	500000.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14
MILE	29.00	833.25	500000.	6.14	81399.	2053.	16.30	0.0200	0.	94.	0.17
MILE	27.30	832.98	500000.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE	25.20	832.78	500000.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE	23.10	832.32	500000.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

0DATE 10-25-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 6.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	895.53	500000.	12.64	39566.	1102.	10.65	0.0290	0.	77.	0.37
MILE	77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82.	0.28
MILE	75.60	884.98	500000.	11.20	44636.	3087.	10.82	0.0400	0.	78.	0.52
MILE	73.50	873.85	500000.	13.15	38016.	2350.	11.40	0.0330	0.	75.	0.58
MILE	71.40	871.29	500000.	8.27	60449.	1921.	12.61	0.0400	0.	73.	0.26
MILE	69.30	866.97	500000.	9.72	51440.	1877.	11.46	0.0340	0.	68.	0.33
MILE	67.20	864.78	500000.	6.35	78682.	4972.	11.06	0.0340	0.	74.	0.28
MILE	65.10	860.70	500000.	8.52	58707.	5603.	11.03	0.0320	0.	74.	0.46
MILE	63.00	859.33	500000.	5.00	99984.	3457.	9.30	0.0400	0.	78.	0.16
MILE	60.90	854.89	500000.	7.31	68400.	3173.	9.47	0.0450	0.	78.	0.28
MILE	58.80	847.13	500000.	8.53	58629.	2504.	8.89	0.0400	0.	74.	0.31
MILE	57.00	845.46	500000.	8.18	61155.	2644.	8.92	0.0200	0.	71.	0.30
MILE	55.00	842.85	500000.	9.71	51487.	2662.	8.87	0.0200	0.	69.	0.39
MILE	53.10	841.71	500000.	7.72	64759.	3174.	10.26	0.0200	0.	68.	0.30
MILE	51.00	840.28	500000.	8.13	61519.	4075.	10.43	0.0200	0.	71.	0.37
MILE	48.30	839.68	500000.	6.17	80996.	8355.	13.18	0.0200	0.	71.	0.35
MILE	46.20	838.97	500000.	6.85	73021.	8091.	12.49	0.0200	0.	77.	0.40
MILE	44.10	839.04	500000.	4.05	123367.	3627.	11.54	0.0300	0.	84.	0.12
MILE	43.70	837.18	500000.	11.13	44934.	3549.	14.58	0.0300	0.	84.	0.55
MILE	42.00	837.75	500000.	4.37	114468.	3579.	10.44	0.0300	0.	88.	0.14
MILE	39.10	835.46	500000.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE	37.00	835.62	500000.	4.56	109610.	2328.	14.11	0.0280	0.	84.	0.12
MILE	36.00	834.51	500000.	8.34	59944.	1654.	14.33	0.0280	0.	86.	0.24
MILE	34.60	834.22	500000.	6.46	77369.	2415.	15.49	0.0280	0.	86.	0.20
MILE	33.60	834.62	500000.	2.76	181076.	4590.	15.13	0.0290	0.	92.	0.08
MILE	31.50	833.73	500000.	6.73	74321.	3571.	15.78	0.0250	0.	95.	0.26
MILE	30.10	833.44	500000.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14
MILE	29.00	833.25	500000.	6.14	81399.	2053.	16.30	0.0200	0.	94.	0.17
MILE	27.30	832.98	500000.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE	25.20	832.78	500000.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 540 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 23.10 832.32 500000. 6.12 81690. 2153. 16.45 0.0230 0. 102. 0.18

ODATE 10-25-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 7.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80 895.53 500000. 12.64 39566. 1102. 10.65 0.0290 0. 77. 0.37
MILE 77.70 893.07 500000. 9.85 50786. 1346. 11.76 0.0400 0. 82. 0.28
MILE 75.60 884.98 500000. 11.20 44636. 3087. 10.82 0.0400 0. 78. 0.52
MILE 73.50 873.85 500000. 13.15 38016. 2350. 11.40 0.0330 0. 75. 0.58
MILE 71.40 871.29 500000. 8.27 60449. 1921. 12.61 0.0400 0. 73. 0.26
MILE 69.30 866.97 500000. 9.72 51440. 1877. 11.46 0.0340 0. 68. 0.33
MILE 67.20 864.78 500000. 6.35 78682. 4972. 11.06 0.0340 0. 74. 0.28
MILE 65.10 860.70 500000. 8.52 58707. 5603. 11.03 0.0320 0. 74. 0.46
MILE 63.00 859.33 500000. 5.00 99984. 3457. 9.30 0.0400 0. 78. 0.16
MILE 60.90 854.89 500000. 7.31 68400. 3173. 9.47 0.0450 0. 78. 0.28
MILE 58.80 847.13 500000. 8.53 58629. 2504. 8.89 0.0400 0. 74. 0.31
MILE 57.00 845.46 500000. 8.18 61155. 2644. 8.92 0.0200 0. 71. 0.30
MILE 55.00 842.85 500000. 9.71 51487. 2662. 8.87 0.0200 0. 69. 0.39
MILE 53.10 841.71 500000. 7.72 64759. 3174. 10.26 0.0200 0. 68. 0.30
MILE 51.00 840.28 500000. 8.13 61519. 4075. 10.43 0.0200 0. 71. 0.37
MILE 48.30 839.68 500000. 6.17 80996. 8355. 13.18 0.0200 0. 71. 0.35
MILE 46.20 838.97 500000. 6.85 73021. 8091. 12.49 0.0200 0. 77. 0.40
MILE 44.10 839.04 500000. 4.05 123367. 3627. 11.54 0.0300 0. 84. 0.12
MILE 43.70 837.18 500000. 11.13 44934. 3549. 14.58 0.0300 0. 84. 0.55
MILE 42.00 837.75 500000. 4.37 114468. 3579. 10.44 0.0300 0. 88. 0.14
MILE 39.10 835.46 500000. 8.08 61890. 3451. 13.81 0.0230 0. 84. 0.34
MILE 37.00 835.62 500000. 4.56 109610. 2328. 14.11 0.0280 0. 84. 0.12
MILE 36.00 834.51 500000. 8.34 59944. 1654. 14.33 0.0280 0. 86. 0.24
MILE 34.60 834.22 500000. 6.46 77369. 2415. 15.49 0.0280 0. 86. 0.20
MILE 33.60 834.62 500000. 2.76 181076. 4590. 15.13 0.0290 0. 92. 0.08
MILE 31.50 833.73 500000. 6.73 74321. 3571. 15.78 0.0250 0. 95. 0.26
MILE 30.10 833.44 500000. 6.08 82266. 1401. 14.93 0.0200 0. 93. 0.14
MILE 29.00 833.25 500000. 6.14 81399. 2053. 16.30 0.0200 0. 94. 0.17
MILE 27.30 832.98 500000. 6.20 80634. 1892. 16.76 0.0230 0. 96. 0.17
MILE 25.20 832.78 500000. 5.44 91856. 1829. 17.88 0.0230 0. 98. 0.14
MILE 23.10 832.32 500000. 6.12 81690. 2153. 16.45 0.0230 0. 102. 0.18

ODATE 10-25-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 8.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80 895.53 500000. 12.64 39566. 1102. 10.65 0.0290 0. 77. 0.37

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 541 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82.	0.28
MILE 75.60	884.98	500000.	11.20	44636.	3087.	10.82	0.0400	0.	78.	0.52
MILE 73.50	873.85	500000.	13.15	38016.	2350.	11.40	0.0330	0.	75.	0.58
MILE 71.40	871.29	500000.	8.27	60449.	1921.	12.61	0.0400	0.	73.	0.26
MILE 69.30	866.97	500000.	9.72	51440.	1877.	11.46	0.0340	0.	68.	0.33
MILE 67.20	864.78	500000.	6.35	78682.	4972.	11.06	0.0340	0.	74.	0.28
MILE 65.10	860.70	500000.	8.52	58707.	5603.	11.03	0.0320	0.	74.	0.46
MILE 63.00	859.33	500000.	5.00	99984.	3457.	9.30	0.0400	0.	78.	0.16
MILE 60.90	854.89	500000.	7.31	68400.	3173.	9.47	0.0450	0.	78.	0.28
MILE 58.80	847.13	500000.	8.53	58629.	2504.	8.89	0.0400	0.	74.	0.31
MILE 57.00	845.46	500000.	8.18	61155.	2644.	8.92	0.0200	0.	71.	0.30
MILE 55.00	842.85	500000.	9.71	51487.	2662.	8.87	0.0200	0.	69.	0.39
MILE 53.10	841.71	500000.	7.72	64759.	3174.	10.26	0.0200	0.	68.	0.30
MILE 51.00	840.28	500000.	8.13	61519.	4075.	10.43	0.0200	0.	71.	0.37
MILE 48.30	839.68	500000.	6.17	80996.	8355.	13.18	0.0200	0.	71.	0.35
MILE 46.20	838.97	500000.	6.85	73021.	8091.	12.49	0.0200	0.	77.	0.40
MILE 44.10	839.04	500000.	4.05	123367.	3627.	11.54	0.0300	0.	84.	0.12
MILE 43.70	837.18	500000.	11.13	44934.	3549.	14.58	0.0300	0.	84.	0.55
MILE 42.00	837.75	500000.	4.37	114468.	3579.	10.44	0.0300	0.	88.	0.14
MILE 39.10	835.46	500000.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE 37.00	835.62	500000.	4.56	109610.	2328.	14.11	0.0280	0.	84.	0.12
MILE 36.00	834.51	500000.	8.34	59944.	1654.	14.33	0.0280	0.	86.	0.24
MILE 34.60	834.22	500000.	6.46	77369.	2415.	15.49	0.0280	0.	86.	0.20
MILE 33.60	834.62	500000.	2.76	181076.	4590.	15.13	0.0290	0.	92.	0.08
MILE 31.50	833.73	500000.	6.73	74321.	3571.	15.78	0.0250	0.	95.	0.26
MILE 30.10	833.44	500000.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14
MILE 29.00	833.25	500000.	6.14	81399.	2053.	16.30	0.0200	0.	94.	0.17
MILE 27.30	832.98	500000.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE 25.20	832.78	500000.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE 23.10	832.32	500000.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

ODATE 10-25-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 9.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	895.53	500000.	12.64	39566.	1102.	10.65	0.0290	0.	77.	0.37
MILE 77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82.	0.28
MILE 75.60	884.98	500000.	11.20	44636.	3087.	10.82	0.0400	0.	78.	0.52
MILE 73.50	873.85	500000.	13.15	38016.	2350.	11.40	0.0330	0.	75.	0.58
MILE 71.40	871.29	500000.	8.27	60449.	1921.	12.61	0.0400	0.	73.	0.26
MILE 69.30	866.97	500000.	9.72	51440.	1877.	11.46	0.0340	0.	68.	0.33
MILE 67.20	864.78	500000.	6.35	78682.	4972.	11.06	0.0340	0.	74.	0.28
MILE 65.10	860.70	500000.	8.52	58707.	5603.	11.03	0.0320	0.	74.	0.46
MILE 63.00	859.33	500000.	5.00	99984.	3457.	9.30	0.0400	0.	78.	0.16
MILE 60.90	854.89	500000.	7.31	68400.	3173.	9.47	0.0450	0.	78.	0.28
MILE 58.80	847.13	500000.	8.53	58629.	2504.	8.89	0.0400	0.	74.	0.31
MILE 57.00	845.46	500000.	8.18	61155.	2644.	8.92	0.0200	0.	71.	0.30

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 542 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	55.00	842.85	500000.	9.71	51487.	2662.	8.87	0.0200	0.	69.	0.39
MILE	53.10	841.71	500000.	7.72	64759.	3174.	10.26	0.0200	0.	68.	0.30
MILE	51.00	840.28	500000.	8.13	61519.	4075.	10.43	0.0200	0.	71.	0.37
MILE	48.30	839.68	500000.	6.17	80996.	8355.	13.18	0.0200	0.	71.	0.35
MILE	46.20	838.97	500000.	6.85	73021.	8091.	12.49	0.0200	0.	77.	0.40
MILE	44.10	839.04	500000.	4.05	123367.	3627.	11.54	0.0300	0.	84.	0.12
MILE	43.70	837.18	500000.	11.13	44934.	3549.	14.58	0.0300	0.	84.	0.55
MILE	42.00	837.75	500000.	4.37	114468.	3579.	10.44	0.0300	0.	88.	0.14
MILE	39.10	835.46	500000.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE	37.00	835.62	500000.	4.56	109610.	2328.	14.11	0.0280	0.	84.	0.12
MILE	36.00	834.51	500000.	8.34	59944.	1654.	14.33	0.0280	0.	86.	0.24
MILE	34.60	834.22	500000.	6.46	77369.	2415.	15.49	0.0280	0.	86.	0.20
MILE	33.60	834.62	500000.	2.76	181076.	4590.	15.13	0.0290	0.	92.	0.08
MILE	31.50	833.73	500000.	6.73	74321.	3571.	15.78	0.0250	0.	95.	0.26
MILE	30.10	833.44	500000.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14
MILE	29.00	833.25	500000.	6.14	81399.	2053.	16.30	0.0200	0.	94.	0.17
MILE	27.30	832.98	500000.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE	25.20	832.78	500000.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE	23.10	832.32	500000.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

ODATE 10-25-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 10.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE	79.80	895.53	500000.	12.64	39566.	1102.	10.65	0.0290	0.	77.	0.37
MILE	77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82.	0.28
MILE	75.60	884.98	500000.	11.20	44636.	3087.	10.82	0.0400	0.	78.	0.52
MILE	73.50	873.85	500000.	13.15	38016.	2350.	11.40	0.0330	0.	75.	0.58
MILE	71.40	871.29	500000.	8.27	60449.	1921.	12.61	0.0400	0.	73.	0.26
MILE	69.30	866.97	500000.	9.72	51440.	1877.	11.46	0.0340	0.	68.	0.33
MILE	67.20	864.78	500000.	6.35	78682.	4972.	11.06	0.0340	0.	74.	0.28
MILE	65.10	860.70	500000.	8.52	58707.	5603.	11.03	0.0320	0.	74.	0.46
MILE	63.00	859.33	500000.	5.00	99984.	3457.	9.30	0.0400	0.	78.	0.16
MILE	60.90	854.89	500000.	7.31	68400.	3173.	9.47	0.0450	0.	78.	0.28
MILE	58.80	847.13	500000.	8.53	58629.	2504.	8.89	0.0400	0.	74.	0.31
MILE	57.00	845.46	500000.	8.18	61155.	2644.	8.92	0.0200	0.	71.	0.30
MILE	55.00	842.85	500000.	9.71	51487.	2662.	8.87	0.0200	0.	69.	0.39
MILE	53.10	841.71	500000.	7.72	64759.	3174.	10.26	0.0200	0.	68.	0.30
MILE	51.00	840.28	500000.	8.13	61519.	4075.	10.43	0.0200	0.	71.	0.37
MILE	48.30	839.68	500000.	6.17	80996.	8355.	13.18	0.0200	0.	71.	0.35
MILE	46.20	838.97	500000.	6.85	73021.	8091.	12.49	0.0200	0.	77.	0.40
MILE	44.10	839.04	500000.	4.05	123367.	3627.	11.54	0.0300	0.	84.	0.12
MILE	43.70	837.18	500000.	11.13	44934.	3549.	14.58	0.0300	0.	84.	0.55
MILE	42.00	837.75	500000.	4.37	114468.	3579.	10.44	0.0300	0.	88.	0.14
MILE	39.10	835.46	500000.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE	37.00	835.62	500000.	4.56	109610.	2328.	14.11	0.0280	0.	84.	0.12
MILE	36.00	834.51	500000.	8.34	59944.	1654.	14.33	0.0280	0.	86.	0.24

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 543 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 34.60	834.22	500000.	6.46	77369.	2415.	15.49	0.0280	0.	86.	0.20
MILE 33.60	834.62	500000.	2.76	181076.	4590.	15.13	0.0290	0.	92.	0.08
MILE 31.50	833.73	500000.	6.73	74321.	3571.	15.78	0.0250	0.	95.	0.26
MILE 30.10	833.44	500000.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14
MILE 29.00	833.25	500000.	6.14	81399.	2053.	16.30	0.0200	0.	94.	0.17
MILE 27.30	832.98	500000.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE 25.20	832.78	500000.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE 23.10	832.32	500000.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

ODATE 10-25-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 11.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	895.53	500000.	12.64	39566.	1102.	10.65	0.0290	0.	77.	0.37
MILE 77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82.	0.28
MILE 75.60	884.98	500000.	11.20	44636.	3087.	10.82	0.0400	0.	78.	0.52
MILE 73.50	873.85	500000.	13.15	38016.	2350.	11.40	0.0330	0.	75.	0.58
MILE 71.40	871.29	500000.	8.27	60449.	1921.	12.61	0.0400	0.	73.	0.26
MILE 69.30	866.97	500000.	9.72	51440.	1877.	11.46	0.0340	0.	68.	0.33
MILE 67.20	864.78	500000.	6.35	78682.	4972.	11.06	0.0340	0.	74.	0.28
MILE 65.10	860.70	500000.	8.52	58707.	5603.	11.03	0.0320	0.	74.	0.46
MILE 63.00	859.33	500000.	5.00	99984.	3457.	9.30	0.0400	0.	78.	0.16
MILE 60.90	854.89	500000.	7.31	68400.	3173.	9.47	0.0450	0.	78.	0.28
MILE 58.80	847.13	500000.	8.53	58629.	2504.	8.89	0.0400	0.	74.	0.31
MILE 57.00	845.46	500000.	8.18	61155.	2644.	8.92	0.0200	0.	71.	0.30
MILE 55.00	842.85	500000.	9.71	51487.	2662.	8.87	0.0200	0.	69.	0.39
MILE 53.10	841.71	500000.	7.72	64759.	3174.	10.26	0.0200	0.	68.	0.30
MILE 51.00	840.28	500000.	8.13	61519.	4075.	10.43	0.0200	0.	71.	0.37
MILE 48.30	839.68	500000.	6.17	80996.	8355.	13.18	0.0200	0.	71.	0.35
MILE 46.20	838.97	500000.	6.85	73021.	8091.	12.49	0.0200	0.	77.	0.40
MILE 44.10	839.04	500000.	4.05	123367.	3627.	11.54	0.0300	0.	84.	0.12
MILE 43.70	837.18	500000.	11.13	44934.	3549.	14.58	0.0300	0.	84.	0.55
MILE 42.00	837.75	500000.	4.37	114468.	3579.	10.44	0.0300	0.	88.	0.14
MILE 39.10	835.46	500000.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE 37.00	835.62	500000.	4.56	109610.	2328.	14.11	0.0280	0.	84.	0.12
MILE 36.00	834.51	500000.	8.34	59944.	1654.	14.33	0.0280	0.	86.	0.24
MILE 34.60	834.22	500000.	6.46	77369.	2415.	15.49	0.0280	0.	86.	0.20
MILE 33.60	834.62	500000.	2.76	181076.	4590.	15.13	0.0290	0.	92.	0.08
MILE 31.50	833.73	500000.	6.73	74321.	3571.	15.78	0.0250	0.	95.	0.26
MILE 30.10	833.44	500000.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14
MILE 29.00	833.25	500000.	6.14	81399.	2053.	16.30	0.0200	0.	94.	0.17
MILE 27.30	832.98	500000.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE 25.20	832.78	500000.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE 23.10	832.32	500000.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 544 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

0DATE 10-25-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	12.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL
INFLOW	DEPTH	FROUDE							
MILE	79.80	895.53	500000.	12.64	39566.	1102.	10.65	0.0290	0. 77. 0.37
MILE	77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0. 82. 0.28
MILE	75.60	884.98	500000.	11.20	44636.	3087.	10.82	0.0400	0. 78. 0.52
MILE	73.50	873.85	500000.	13.15	38016.	2350.	11.40	0.0330	0. 75. 0.58
MILE	71.40	871.29	500000.	8.27	60449.	1921.	12.61	0.0400	0. 73. 0.26
MILE	69.30	866.97	500000.	9.72	51440.	1877.	11.46	0.0340	0. 68. 0.33
MILE	67.20	864.78	500000.	6.35	78682.	4972.	11.06	0.0340	0. 74. 0.28
MILE	65.10	860.70	500000.	8.52	58707.	5603.	11.03	0.0320	0. 74. 0.46
MILE	63.00	859.33	500000.	5.00	99984.	3457.	9.30	0.0400	0. 78. 0.16
MILE	60.90	854.89	500000.	7.31	68400.	3173.	9.47	0.0450	0. 78. 0.28
MILE	58.80	847.13	500000.	8.53	58629.	2504.	8.89	0.0400	0. 74. 0.31
MILE	57.00	845.46	500000.	8.18	61155.	2644.	8.92	0.0200	0. 71. 0.30
MILE	55.00	842.85	500000.	9.71	51487.	2662.	8.87	0.0200	0. 69. 0.39
MILE	53.10	841.71	500000.	7.72	64759.	3174.	10.26	0.0200	0. 68. 0.30
MILE	51.00	840.28	500000.	8.13	61519.	4075.	10.43	0.0200	0. 71. 0.37
MILE	48.30	839.68	500000.	6.17	80996.	8355.	13.18	0.0200	0. 71. 0.35
MILE	46.20	838.97	500000.	6.85	73021.	8091.	12.49	0.0200	0. 77. 0.40
MILE	44.10	839.04	500000.	4.05	123367.	3627.	11.54	0.0300	0. 84. 0.12
MILE	43.70	837.18	500000.	11.13	44934.	3549.	14.58	0.0300	0. 84. 0.55
MILE	42.00	837.75	500000.	4.37	114468.	3579.	10.44	0.0300	0. 88. 0.14
MILE	39.10	835.46	500000.	8.08	61890.	3451.	13.81	0.0230	0. 84. 0.34
MILE	37.00	835.62	500000.	4.56	109610.	2328.	14.11	0.0280	0. 84. 0.12
MILE	36.00	834.51	500000.	8.34	59944.	1654.	14.33	0.0280	0. 86. 0.24
MILE	34.60	834.22	500000.	6.46	77369.	2415.	15.49	0.0280	0. 86. 0.20
MILE	33.60	834.62	500000.	2.76	181076.	4590.	15.13	0.0290	0. 92. 0.08
MILE	31.50	833.73	500000.	6.73	74321.	3571.	15.78	0.0250	0. 95. 0.26
MILE	30.10	833.44	500000.	6.08	82266.	1401.	14.93	0.0200	0. 93. 0.14
MILE	29.00	833.25	500000.	6.14	81399.	2053.	16.30	0.0200	0. 94. 0.17
MILE	27.30	832.98	500000.	6.20	80634.	1892.	16.76	0.0230	0. 96. 0.17
MILE	25.20	832.78	500000.	5.44	91856.	1829.	17.88	0.0230	0. 98. 0.14
MILE	23.10	832.32	500000.	6.12	81690.	2153.	16.45	0.0230	0. 102. 0.18

0DATE 10-25-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	13.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL
INFLOW	DEPTH	FROUDE							
MILE	79.80	895.53	500000.	12.64	39566.	1102.	10.65	0.0290	0. 77. 0.37
MILE	77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0. 82. 0.28
MILE	75.60	884.98	500000.	11.20	44636.	3087.	10.82	0.0400	0. 78. 0.52
MILE	73.50	873.85	500000.	13.15	38016.	2350.	11.40	0.0330	0. 75. 0.58
MILE	71.40	871.29	500000.	8.27	60449.	1921.	12.61	0.0400	0. 73. 0.26

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 545 of 665
Subject: SOCH Model Calibration, Melton Hill			Prepped
Appendix E			Checked
			JAW
			ACM

MILE	69.30	866.97	500000.	9.72	51440.	1877.	11.46	0.0340	0.	68.	0.33
MILE	67.20	864.78	500000.	6.35	78682.	4972.	11.06	0.0340	0.	74.	0.28
MILE	65.10	860.70	500000.	8.52	58707.	5603.	11.03	0.0320	0.	74.	0.46
MILE	63.00	859.33	500000.	5.00	99984.	3457.	9.30	0.0400	0.	78.	0.16
MILE	60.90	854.89	500000.	7.31	68400.	3173.	9.47	0.0450	0.	78.	0.28
MILE	58.80	847.13	500000.	8.53	58629.	2504.	8.89	0.0400	0.	74.	0.31
MILE	57.00	845.46	500000.	8.18	61155.	2644.	8.92	0.0200	0.	71.	0.30
MILE	55.00	842.85	500000.	9.71	51487.	2662.	8.87	0.0200	0.	69.	0.39
MILE	53.10	841.71	500000.	7.72	64759.	3174.	10.26	0.0200	0.	68.	0.30
MILE	51.00	840.28	500000.	8.13	61519.	4075.	10.43	0.0200	0.	71.	0.37
MILE	48.30	839.68	500000.	6.17	80996.	8355.	13.18	0.0200	0.	71.	0.35
MILE	46.20	838.97	500000.	6.85	73021.	8091.	12.49	0.0200	0.	77.	0.40
MILE	44.10	839.04	500000.	4.05	123367.	3627.	11.54	0.0300	0.	84.	0.12
MILE	43.70	837.18	500000.	11.13	44934.	3549.	14.58	0.0300	0.	84.	0.55
MILE	42.00	837.75	500000.	4.37	114468.	3579.	10.44	0.0300	0.	88.	0.14
MILE	39.10	835.46	500000.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE	37.00	835.62	500000.	4.56	109610.	2328.	14.11	0.0280	0.	84.	0.12
MILE	36.00	834.51	500000.	8.34	59944.	1654.	14.33	0.0280	0.	86.	0.24
MILE	34.60	834.22	500000.	6.46	77369.	2415.	15.49	0.0280	0.	86.	0.20
MILE	33.60	834.62	500000.	2.76	181076.	4590.	15.13	0.0290	0.	92.	0.08
MILE	31.50	833.73	500000.	6.73	74321.	3571.	15.78	0.0250	0.	95.	0.26
MILE	30.10	833.44	500000.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14
MILE	29.00	833.25	500000.	6.14	81399.	2053.	16.30	0.0200	0.	94.	0.17
MILE	27.30	832.98	500000.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE	25.20	832.78	500000.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE	23.10	832.32	500000.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

0DATE 10-25-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 14.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	895.53	500000.	12.64	39566.	1102.	10.65	0.0290	0.	77.	0.37
MILE	77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82.	0.28
MILE	75.60	884.98	500000.	11.20	44636.	3087.	10.82	0.0400	0.	78.	0.52
MILE	73.50	873.85	500000.	13.15	38016.	2350.	11.40	0.0330	0.	75.	0.58
MILE	71.40	871.29	500000.	8.27	60449.	1921.	12.61	0.0400	0.	73.	0.26
MILE	69.30	866.97	500000.	9.72	51440.	1877.	11.46	0.0340	0.	68.	0.33
MILE	67.20	864.78	500000.	6.35	78682.	4972.	11.06	0.0340	0.	74.	0.28
MILE	65.10	860.70	500000.	8.52	58707.	5603.	11.03	0.0320	0.	74.	0.46
MILE	63.00	859.33	500000.	5.00	99984.	3457.	9.30	0.0400	0.	78.	0.16
MILE	60.90	854.89	500000.	7.31	68400.	3173.	9.47	0.0450	0.	78.	0.28
MILE	58.80	847.13	500000.	8.53	58629.	2504.	8.89	0.0400	0.	74.	0.31
MILE	57.00	845.46	500000.	8.18	61155.	2644.	8.92	0.0200	0.	71.	0.30
MILE	55.00	842.85	500000.	9.71	51487.	2662.	8.87	0.0200	0.	69.	0.39
MILE	53.10	841.71	500000.	7.72	64759.	3174.	10.26	0.0200	0.	68.	0.30
MILE	51.00	840.28	500000.	8.13	61519.	4075.	10.43	0.0200	0.	71.	0.37
MILE	48.30	839.68	500000.	6.17	80996.	8355.	13.18	0.0200	0.	71.	0.35

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 546 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 46.20	838.97	500000.	6.85	73021.	8091.	12.49	0.0200	0.	77.	0.40
MILE 44.10	839.04	500000.	4.05	123367.	3627.	11.54	0.0300	0.	84.	0.12
MILE 43.70	837.18	500000.	11.13	44934.	3549.	14.58	0.0300	0.	84.	0.55
MILE 42.00	837.75	500000.	4.37	114468.	3579.	10.44	0.0300	0.	88.	0.14
MILE 39.10	835.46	500000.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE 37.00	835.62	500000.	4.56	109610.	2328.	14.11	0.0280	0.	84.	0.12
MILE 36.00	834.51	500000.	8.34	59944.	1654.	14.33	0.0280	0.	86.	0.24
MILE 34.60	834.22	500000.	6.46	77369.	2415.	15.49	0.0280	0.	86.	0.20
MILE 33.60	834.62	500000.	2.76	181076.	4590.	15.13	0.0290	0.	92.	0.08
MILE 31.50	833.73	500000.	6.73	74321.	3571.	15.78	0.0250	0.	95.	0.26
MILE 30.10	833.44	500000.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14
MILE 29.00	833.25	500000.	6.14	81399.	2053.	16.30	0.0200	0.	94.	0.17
MILE 27.30	832.98	500000.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE 25.20	832.78	500000.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE 23.10	832.32	500000.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

ODATE 10-25-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 15.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	895.53	500000.	12.64	39566.	1102.	10.65	0.0290	0.	77.	0.37
MILE 77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82.	0.28
MILE 75.60	884.98	500000.	11.20	44636.	3087.	10.82	0.0400	0.	78.	0.52
MILE 73.50	873.85	500000.	13.15	38016.	2350.	11.40	0.0330	0.	75.	0.58
MILE 71.40	871.29	500000.	8.27	60449.	1921.	12.61	0.0400	0.	73.	0.26
MILE 69.30	866.97	500000.	9.72	51440.	1877.	11.46	0.0340	0.	68.	0.33
MILE 67.20	864.78	500000.	6.35	78682.	4972.	11.06	0.0340	0.	74.	0.28
MILE 65.10	860.70	500000.	8.52	58707.	5603.	11.03	0.0320	0.	74.	0.46
MILE 63.00	859.33	500000.	5.00	99984.	3457.	9.30	0.0400	0.	78.	0.16
MILE 60.90	854.89	500000.	7.31	68400.	3173.	9.47	0.0450	0.	78.	0.28
MILE 58.80	847.13	500000.	8.53	58629.	2504.	8.89	0.0400	0.	74.	0.31
MILE 57.00	845.46	500000.	8.18	61155.	2644.	8.92	0.0200	0.	71.	0.30
MILE 55.00	842.85	500000.	9.71	51487.	2662.	8.87	0.0200	0.	69.	0.39
MILE 53.10	841.71	500000.	7.72	64759.	3174.	10.26	0.0200	0.	68.	0.30
MILE 51.00	840.28	500000.	8.13	61519.	4075.	10.43	0.0200	0.	71.	0.37
MILE 48.30	839.68	500000.	6.17	80996.	8355.	13.18	0.0200	0.	71.	0.35
MILE 46.20	838.97	500000.	6.85	73021.	8091.	12.49	0.0200	0.	77.	0.40
MILE 44.10	839.04	500000.	4.05	123367.	3627.	11.54	0.0300	0.	84.	0.12
MILE 43.70	837.18	500000.	11.13	44934.	3549.	14.58	0.0300	0.	84.	0.55
MILE 42.00	837.75	500000.	4.37	114468.	3579.	10.44	0.0300	0.	88.	0.14
MILE 39.10	835.46	500000.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE 37.00	835.62	500000.	4.56	109610.	2328.	14.11	0.0280	0.	84.	0.12
MILE 36.00	834.51	500000.	8.34	59944.	1654.	14.33	0.0280	0.	86.	0.24
MILE 34.60	834.22	500000.	6.46	77369.	2415.	15.49	0.0280	0.	86.	0.20
MILE 33.60	834.62	500000.	2.76	181076.	4590.	15.13	0.0290	0.	92.	0.08
MILE 31.50	833.73	500000.	6.73	74321.	3571.	15.78	0.0250	0.	95.	0.26
MILE 30.10	833.44	500000.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 547 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	29.00	833.25	500000.	6.14	81399.	2053.	16.30	0.0200	0.	94.	0.17
MILE	27.30	832.98	500000.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE	25.20	832.78	500000.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE	23.10	832.32	500000.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

ODATE 10-25-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 16.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE	79.80	895.53	500000.	12.64	39566.	1102.	10.65	0.0290	0.	77.	0.37
MILE	77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82.	0.28
MILE	75.60	884.98	500000.	11.20	44636.	3087.	10.82	0.0400	0.	78.	0.52
MILE	73.50	873.85	500000.	13.15	38016.	2350.	11.40	0.0330	0.	75.	0.58
MILE	71.40	871.29	500000.	8.27	60449.	1921.	12.61	0.0400	0.	73.	0.26
MILE	69.30	866.97	500000.	9.72	51440.	1877.	11.46	0.0340	0.	68.	0.33
MILE	67.20	864.78	500000.	6.35	78682.	4972.	11.06	0.0340	0.	74.	0.28
MILE	65.10	860.70	500000.	8.52	58707.	5603.	11.03	0.0320	0.	74.	0.46
MILE	63.00	859.33	500000.	5.00	99984.	3457.	9.30	0.0400	0.	78.	0.16
MILE	60.90	854.89	500000.	7.31	68400.	3173.	9.47	0.0450	0.	78.	0.28
MILE	58.80	847.13	500000.	8.53	58629.	2504.	8.89	0.0400	0.	74.	0.31
MILE	57.00	845.46	500000.	8.18	61155.	2644.	8.92	0.0200	0.	71.	0.30
MILE	55.00	842.85	500000.	9.71	51487.	2662.	8.87	0.0200	0.	69.	0.39
MILE	53.10	841.71	500000.	7.72	64759.	3174.	10.26	0.0200	0.	68.	0.30
MILE	51.00	840.28	500000.	8.13	61519.	4075.	10.43	0.0200	0.	71.	0.37
MILE	48.30	839.68	500000.	6.17	80996.	8355.	13.18	0.0200	0.	71.	0.35
MILE	46.20	838.97	500000.	6.85	73021.	8091.	12.49	0.0200	0.	77.	0.40
MILE	44.10	839.04	500000.	4.05	123367.	3627.	11.54	0.0300	0.	84.	0.12
MILE	43.70	837.18	500000.	11.13	44934.	3549.	14.58	0.0300	0.	84.	0.55
MILE	42.00	837.75	500000.	4.37	114468.	3579.	10.44	0.0300	0.	88.	0.14
MILE	39.10	835.46	500000.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE	37.00	835.62	500000.	4.56	109610.	2328.	14.11	0.0280	0.	84.	0.12
MILE	36.00	834.51	500000.	8.34	59944.	1654.	14.33	0.0280	0.	86.	0.24
MILE	34.60	834.22	500000.	6.46	77369.	2415.	15.49	0.0280	0.	86.	0.20
MILE	33.60	834.62	500000.	2.76	181076.	4590.	15.13	0.0290	0.	92.	0.08
MILE	31.50	833.73	500000.	6.73	74321.	3571.	15.78	0.0250	0.	95.	0.26
MILE	30.10	833.44	500000.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14
MILE	29.00	833.25	500000.	6.14	81399.	2053.	16.30	0.0200	0.	94.	0.17
MILE	27.30	832.98	500000.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE	25.20	832.78	500000.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE	23.10	832.32	500000.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

ODATE 10-25-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 548 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

TIME 17.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	895.53	500000.	12.64	39566.	1102.	10.65	0.0290	0.	77.	0.37
MILE 77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82.	0.28
MILE 75.60	884.98	500000.	11.20	44636.	3087.	10.82	0.0400	0.	78.	0.52
MILE 73.50	873.85	500000.	13.15	38016.	2350.	11.40	0.0330	0.	75.	0.58
MILE 71.40	871.29	500000.	8.27	60449.	1921.	12.61	0.0400	0.	73.	0.26
MILE 69.30	866.97	500000.	9.72	51440.	1877.	11.46	0.0340	0.	68.	0.33
MILE 67.20	864.78	500000.	6.35	78682.	4972.	11.06	0.0340	0.	74.	0.28
MILE 65.10	860.70	500000.	8.52	58707.	5603.	11.03	0.0320	0.	74.	0.46
MILE 63.00	859.33	500000.	5.00	99984.	3457.	9.30	0.0400	0.	78.	0.16
MILE 60.90	854.89	500000.	7.31	68400.	3173.	9.47	0.0450	0.	78.	0.28
MILE 58.80	847.13	500000.	8.53	58629.	2504.	8.89	0.0400	0.	74.	0.31
MILE 57.00	845.46	500000.	8.18	61155.	2644.	8.92	0.0200	0.	71.	0.30
MILE 55.00	842.85	500000.	9.71	51487.	2662.	8.87	0.0200	0.	69.	0.39
MILE 53.10	841.71	500000.	7.72	64759.	3174.	10.26	0.0200	0.	68.	0.30
MILE 51.00	840.28	500000.	8.13	61519.	4075.	10.43	0.0200	0.	71.	0.37
MILE 48.30	839.68	500000.	6.17	80996.	8355.	13.18	0.0200	0.	71.	0.35
MILE 46.20	838.97	500000.	6.85	73021.	8091.	12.49	0.0200	0.	77.	0.40
MILE 44.10	839.04	500000.	4.05	123367.	3627.	11.54	0.0300	0.	84.	0.12
MILE 43.70	837.18	500000.	11.13	44934.	3549.	14.58	0.0300	0.	84.	0.55
MILE 42.00	837.75	500000.	4.37	114468.	3579.	10.44	0.0300	0.	88.	0.14
MILE 39.10	835.46	500000.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE 37.00	835.62	500000.	4.56	109610.	2328.	14.11	0.0280	0.	84.	0.12
MILE 36.00	834.51	500000.	8.34	59944.	1654.	14.33	0.0280	0.	86.	0.24
MILE 34.60	834.22	500000.	6.46	77369.	2415.	15.49	0.0280	0.	86.	0.20
MILE 33.60	834.62	500000.	2.76	181076.	4590.	15.13	0.0290	0.	92.	0.08
MILE 31.50	833.73	500000.	6.73	74321.	3571.	15.78	0.0250	0.	95.	0.26
MILE 30.10	833.44	500000.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14
MILE 29.00	833.25	500000.	6.14	81399.	2053.	16.30	0.0200	0.	94.	0.17
MILE 27.30	832.98	500000.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE 25.20	832.78	500000.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE 23.10	832.32	500000.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

ODATE 10-25-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 18.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	895.53	500000.	12.64	39566.	1102.	10.65	0.0290	0.	77.	0.37
MILE 77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82.	0.28
MILE 75.60	884.98	500000.	11.20	44636.	3087.	10.82	0.0400	0.	78.	0.52
MILE 73.50	873.85	500000.	13.15	38016.	2350.	11.40	0.0330	0.	75.	0.58
MILE 71.40	871.29	500000.	8.27	60449.	1921.	12.61	0.0400	0.	73.	0.26
MILE 69.30	866.97	500000.	9.72	51440.	1877.	11.46	0.0340	0.	68.	0.33
MILE 67.20	864.78	500000.	6.35	78682.	4972.	11.06	0.0340	0.	74.	0.28
MILE 65.10	860.70	500000.	8.52	58707.	5603.	11.03	0.0320	0.	74.	0.46

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 549 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 63.00	859.33	500000.	5.00	99984.	3457.	9.30	0.0400	0.	78.	0.16
MILE 60.90	854.89	500000.	7.31	68400.	3173.	9.47	0.0450	0.	78.	0.28
MILE 58.80	847.13	500000.	8.53	58629.	2504.	8.89	0.0400	0.	74.	0.31
MILE 57.00	845.46	500000.	8.18	61155.	2644.	8.92	0.0200	0.	71.	0.30
MILE 55.00	842.85	500000.	9.71	51487.	2662.	8.87	0.0200	0.	69.	0.39
MILE 53.10	841.71	500000.	7.72	64759.	3174.	10.26	0.0200	0.	68.	0.30
MILE 51.00	840.28	500000.	8.13	61519.	4075.	10.43	0.0200	0.	71.	0.37
MILE 48.30	839.68	500000.	6.17	80996.	8355.	13.18	0.0200	0.	71.	0.35
MILE 46.20	838.97	500000.	6.85	73021.	8091.	12.49	0.0200	0.	77.	0.40
MILE 44.10	839.04	500000.	4.05	123367.	3627.	11.54	0.0300	0.	84.	0.12
MILE 43.70	837.18	500000.	11.13	44934.	3549.	14.58	0.0300	0.	84.	0.55
MILE 42.00	837.75	500000.	4.37	114468.	3579.	10.44	0.0300	0.	88.	0.14
MILE 39.10	835.46	500000.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE 37.00	835.62	500000.	4.56	109610.	2328.	14.11	0.0280	0.	84.	0.12
MILE 36.00	834.51	500000.	8.34	59944.	1654.	14.33	0.0280	0.	86.	0.24
MILE 34.60	834.22	500000.	6.46	77369.	2415.	15.49	0.0280	0.	86.	0.20
MILE 33.60	834.62	500000.	2.76	181076.	4590.	15.13	0.0290	0.	92.	0.08
MILE 31.50	833.73	500000.	6.73	74321.	3571.	15.78	0.0250	0.	95.	0.26
MILE 30.10	833.44	500000.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14
MILE 29.00	833.25	500000.	6.14	81399.	2053.	16.30	0.0200	0.	94.	0.17
MILE 27.30	832.98	500000.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE 25.20	832.78	500000.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE 23.10	832.32	500000.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

ODATE 10-25-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 19.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	895.53	500000.	12.64	39566.	1102.	10.65	0.0290	0.	77.	0.37
MILE 77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82.	0.28
MILE 75.60	884.98	500000.	11.20	44636.	3087.	10.82	0.0400	0.	78.	0.52
MILE 73.50	873.85	500000.	13.15	38016.	2350.	11.40	0.0330	0.	75.	0.58
MILE 71.40	871.29	500000.	8.27	60449.	1921.	12.61	0.0400	0.	73.	0.26
MILE 69.30	866.97	500000.	9.72	51440.	1877.	11.46	0.0340	0.	68.	0.33
MILE 67.20	864.78	500000.	6.35	78682.	4972.	11.06	0.0340	0.	74.	0.28
MILE 65.10	860.70	500000.	8.52	58707.	5603.	11.03	0.0320	0.	74.	0.46
MILE 63.00	859.33	500000.	5.00	99984.	3457.	9.30	0.0400	0.	78.	0.16
MILE 60.90	854.89	500000.	7.31	68400.	3173.	9.47	0.0450	0.	78.	0.28
MILE 58.80	847.13	500000.	8.53	58629.	2504.	8.89	0.0400	0.	74.	0.31
MILE 57.00	845.46	500000.	8.18	61155.	2644.	8.92	0.0200	0.	71.	0.30
MILE 55.00	842.85	500000.	9.71	51487.	2662.	8.87	0.0200	0.	69.	0.39
MILE 53.10	841.71	500000.	7.72	64759.	3174.	10.26	0.0200	0.	68.	0.30
MILE 51.00	840.28	500000.	8.13	61519.	4075.	10.43	0.0200	0.	71.	0.37
MILE 48.30	839.68	500000.	6.17	80996.	8355.	13.18	0.0200	0.	71.	0.35
MILE 46.20	838.97	500000.	6.85	73021.	8091.	12.49	0.0200	0.	77.	0.40
MILE 44.10	839.04	500000.	4.05	123367.	3627.	11.54	0.0300	0.	84.	0.12
MILE 43.70	837.18	500000.	11.13	44934.	3549.	14.58	0.0300	0.	84.	0.55

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 550 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 42.00	837.75	500000.	4.37	114468.	3579.	10.44	0.0300	0.	88.	0.14
MILE 39.10	835.46	500000.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE 37.00	835.62	500000.	4.56	109610.	2328.	14.11	0.0280	0.	84.	0.12
MILE 36.00	834.51	500000.	8.34	59944.	1654.	14.33	0.0280	0.	86.	0.24
MILE 34.60	834.22	500000.	6.46	77369.	2415.	15.49	0.0280	0.	86.	0.20
MILE 33.60	834.62	500000.	2.76	181076.	4590.	15.13	0.0290	0.	92.	0.08
MILE 31.50	833.73	500000.	6.73	74321.	3571.	15.78	0.0250	0.	95.	0.26
MILE 30.10	833.44	500000.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14
MILE 29.00	833.25	500000.	6.14	81399.	2053.	16.30	0.0200	0.	94.	0.17
MILE 27.30	832.98	500000.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE 25.20	832.78	500000.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE 23.10	832.32	500000.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

0DATE 10-25-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 20.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	895.53	500000.	12.64	39566.	1102.	10.65	0.0290	0.	77.	0.37
MILE 77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82.	0.28
MILE 75.60	884.98	500000.	11.20	44636.	3087.	10.82	0.0400	0.	78.	0.52
MILE 73.50	873.85	500000.	13.15	38016.	2350.	11.40	0.0330	0.	75.	0.58
MILE 71.40	871.29	500000.	8.27	60449.	1921.	12.61	0.0400	0.	73.	0.26
MILE 69.30	866.97	500000.	9.72	51440.	1877.	11.46	0.0340	0.	68.	0.33
MILE 67.20	864.78	500000.	6.35	78682.	4972.	11.06	0.0340	0.	74.	0.28
MILE 65.10	860.70	500000.	8.52	58707.	5603.	11.03	0.0320	0.	74.	0.46
MILE 63.00	859.33	500000.	5.00	99984.	3457.	9.30	0.0400	0.	78.	0.16
MILE 60.90	854.89	500000.	7.31	68400.	3173.	9.47	0.0450	0.	78.	0.28
MILE 58.80	847.13	500000.	8.53	58629.	2504.	8.89	0.0400	0.	74.	0.31
MILE 57.00	845.46	500000.	8.18	61155.	2644.	8.92	0.0200	0.	71.	0.30
MILE 55.00	842.85	500000.	9.71	51487.	2662.	8.87	0.0200	0.	69.	0.39
MILE 53.10	841.71	500000.	7.72	64759.	3174.	10.26	0.0200	0.	68.	0.30
MILE 51.00	840.28	500000.	8.13	61519.	4075.	10.43	0.0200	0.	71.	0.37
MILE 48.30	839.68	500000.	6.17	80996.	8355.	13.18	0.0200	0.	71.	0.35
MILE 46.20	838.97	500000.	6.85	73021.	8091.	12.49	0.0200	0.	77.	0.40
MILE 44.10	839.04	500000.	4.05	123367.	3627.	11.54	0.0300	0.	84.	0.12
MILE 43.70	837.18	500000.	11.13	44934.	3549.	14.58	0.0300	0.	84.	0.55
MILE 42.00	837.75	500000.	4.37	114468.	3579.	10.44	0.0300	0.	88.	0.14
MILE 39.10	835.46	500000.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE 37.00	835.62	500000.	4.56	109610.	2328.	14.11	0.0280	0.	84.	0.12
MILE 36.00	834.51	500000.	8.34	59944.	1654.	14.33	0.0280	0.	86.	0.24
MILE 34.60	834.22	500000.	6.46	77369.	2415.	15.49	0.0280	0.	86.	0.20
MILE 33.60	834.62	500000.	2.76	181076.	4590.	15.13	0.0290	0.	92.	0.08
MILE 31.50	833.73	500000.	6.73	74321.	3571.	15.78	0.0250	0.	95.	0.26
MILE 30.10	833.44	500000.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14
MILE 29.00	833.25	500000.	6.14	81399.	2053.	16.30	0.0200	0.	94.	0.17
MILE 27.30	832.98	500000.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE 25.20	832.78	500000.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 551 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 23.10 832.32 500000. 6.12 81690. 2153. 16.45 0.0230 0. 102. 0.18

0DATE 10-25-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 21.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80 895.53 500000. 12.64 39566. 1102. 10.65 0.0290 0. 77. 0.37
MILE 77.70 893.07 500000. 9.85 50786. 1346. 11.76 0.0400 0. 82. 0.28
MILE 75.60 884.98 500000. 11.20 44636. 3087. 10.82 0.0400 0. 78. 0.52
MILE 73.50 873.85 500000. 13.15 38016. 2350. 11.40 0.0330 0. 75. 0.58
MILE 71.40 871.29 500000. 8.27 60449. 1921. 12.61 0.0400 0. 73. 0.26
MILE 69.30 866.97 500000. 9.72 51440. 1877. 11.46 0.0340 0. 68. 0.33
MILE 67.20 864.78 500000. 6.35 78682. 4972. 11.06 0.0340 0. 74. 0.28
MILE 65.10 860.70 500000. 8.52 58707. 5603. 11.03 0.0320 0. 74. 0.46
MILE 63.00 859.33 500000. 5.00 99984. 3457. 9.30 0.0400 0. 78. 0.16
MILE 60.90 854.89 500000. 7.31 68400. 3173. 9.47 0.0450 0. 78. 0.28
MILE 58.80 847.13 500000. 8.53 58629. 2504. 8.89 0.0400 0. 74. 0.31
MILE 57.00 845.46 500000. 8.18 61155. 2644. 8.92 0.0200 0. 71. 0.30
MILE 55.00 842.85 500000. 9.71 51487. 2662. 8.87 0.0200 0. 69. 0.39
MILE 53.10 841.71 500000. 7.72 64759. 3174. 10.26 0.0200 0. 68. 0.30
MILE 51.00 840.28 500000. 8.13 61519. 4075. 10.43 0.0200 0. 71. 0.37
MILE 48.30 839.68 500000. 6.17 80996. 8355. 13.18 0.0200 0. 71. 0.35
MILE 46.20 838.97 500000. 6.85 73021. 8091. 12.49 0.0200 0. 77. 0.40
MILE 44.10 839.04 500000. 4.05 123367. 3627. 11.54 0.0300 0. 84. 0.12
MILE 43.70 837.18 500000. 11.13 44934. 3549. 14.58 0.0300 0. 84. 0.55
MILE 42.00 837.75 500000. 4.37 114468. 3579. 10.44 0.0300 0. 88. 0.14
MILE 39.10 835.46 500000. 8.08 61890. 3451. 13.81 0.0230 0. 84. 0.34
MILE 37.00 835.62 500000. 4.56 109610. 2328. 14.11 0.0280 0. 84. 0.12
MILE 36.00 834.51 500000. 8.34 59944. 1654. 14.33 0.0280 0. 86. 0.24
MILE 34.60 834.22 500000. 6.46 77369. 2415. 15.49 0.0280 0. 86. 0.20
MILE 33.60 834.62 500000. 2.76 181076. 4590. 15.13 0.0290 0. 92. 0.08
MILE 31.50 833.73 500000. 6.73 74321. 3571. 15.78 0.0250 0. 95. 0.26
MILE 30.10 833.44 500000. 6.08 82266. 1401. 14.93 0.0200 0. 93. 0.14
MILE 29.00 833.25 500000. 6.14 81399. 2053. 16.30 0.0200 0. 94. 0.17
MILE 27.30 832.98 500000. 6.20 80634. 1892. 16.76 0.0230 0. 96. 0.17
MILE 25.20 832.78 500000. 5.44 91856. 1829. 17.88 0.0230 0. 98. 0.14
MILE 23.10 832.32 500000. 6.12 81690. 2153. 16.45 0.0230 0. 102. 0.18

0DATE 10-25-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 22.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80 895.53 500000. 12.64 39566. 1102. 10.65 0.0290 0. 77. 0.37

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 552 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82.	0.28
MILE 75.60	884.98	500000.	11.20	44636.	3087.	10.82	0.0400	0.	78.	0.52
MILE 73.50	873.85	500000.	13.15	38016.	2350.	11.40	0.0330	0.	75.	0.58
MILE 71.40	871.29	500000.	8.27	60449.	1921.	12.61	0.0400	0.	73.	0.26
MILE 69.30	866.97	500000.	9.72	51440.	1877.	11.46	0.0340	0.	68.	0.33
MILE 67.20	864.78	500000.	6.35	78682.	4972.	11.06	0.0340	0.	74.	0.28
MILE 65.10	860.70	500000.	8.52	58707.	5603.	11.03	0.0320	0.	74.	0.46
MILE 63.00	859.33	500000.	5.00	99984.	3457.	9.30	0.0400	0.	78.	0.16
MILE 60.90	854.89	500000.	7.31	68400.	3173.	9.47	0.0450	0.	78.	0.28
MILE 58.80	847.13	500000.	8.53	58629.	2504.	8.89	0.0400	0.	74.	0.31
MILE 57.00	845.46	500000.	8.18	61155.	2644.	8.92	0.0200	0.	71.	0.30
MILE 55.00	842.85	500000.	9.71	51487.	2662.	8.87	0.0200	0.	69.	0.39
MILE 53.10	841.71	500000.	7.72	64759.	3174.	10.26	0.0200	0.	68.	0.30
MILE 51.00	840.28	500000.	8.13	61519.	4075.	10.43	0.0200	0.	71.	0.37
MILE 48.30	839.68	500000.	6.17	80996.	8355.	13.18	0.0200	0.	71.	0.35
MILE 46.20	838.97	500000.	6.85	73021.	8091.	12.49	0.0200	0.	77.	0.40
MILE 44.10	839.04	500000.	4.05	123367.	3627.	11.54	0.0300	0.	84.	0.12
MILE 43.70	837.18	500000.	11.13	44934.	3549.	14.58	0.0300	0.	84.	0.55
MILE 42.00	837.75	500000.	4.37	114468.	3579.	10.44	0.0300	0.	88.	0.14
MILE 39.10	835.46	500000.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE 37.00	835.62	500000.	4.56	109610.	2328.	14.11	0.0280	0.	84.	0.12
MILE 36.00	834.51	500000.	8.34	59944.	1654.	14.33	0.0280	0.	86.	0.24
MILE 34.60	834.22	500000.	6.46	77369.	2415.	15.49	0.0280	0.	86.	0.20
MILE 33.60	834.62	500000.	2.76	181076.	4590.	15.13	0.0290	0.	92.	0.08
MILE 31.50	833.73	500000.	6.73	74321.	3571.	15.78	0.0250	0.	95.	0.26
MILE 30.10	833.44	500000.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14
MILE 29.00	833.25	500000.	6.14	81399.	2053.	16.30	0.0200	0.	94.	0.17
MILE 27.30	832.98	500000.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE 25.20	832.78	500000.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE 23.10	832.32	500000.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

ODATE 10-25-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 23.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	895.53	500000.	12.64	39566.	1102.	10.65	0.0290	0.	77.	0.37
MILE 77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82.	0.28
MILE 75.60	884.98	500000.	11.20	44636.	3087.	10.82	0.0400	0.	78.	0.52
MILE 73.50	873.85	500000.	13.15	38016.	2350.	11.40	0.0330	0.	75.	0.58
MILE 71.40	871.29	500000.	8.27	60449.	1921.	12.61	0.0400	0.	73.	0.26
MILE 69.30	866.97	500000.	9.72	51440.	1877.	11.46	0.0340	0.	68.	0.33
MILE 67.20	864.78	500000.	6.35	78682.	4972.	11.06	0.0340	0.	74.	0.28
MILE 65.10	860.70	500000.	8.52	58707.	5603.	11.03	0.0320	0.	74.	0.46
MILE 63.00	859.33	500000.	5.00	99984.	3457.	9.30	0.0400	0.	78.	0.16
MILE 60.90	854.89	500000.	7.31	68400.	3173.	9.47	0.0450	0.	78.	0.28
MILE 58.80	847.13	500000.	8.53	58629.	2504.	8.89	0.0400	0.	74.	0.31
MILE 57.00	845.46	500000.	8.18	61155.	2644.	8.92	0.0200	0.	71.	0.30

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 553 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	55.00	842.85	500000.	9.71	51487.	2662.	8.87	0.0200	0.	69.	0.39
MILE	53.10	841.71	500000.	7.72	64759.	3174.	10.26	0.0200	0.	68.	0.30
MILE	51.00	840.28	500000.	8.13	61519.	4075.	10.43	0.0200	0.	71.	0.37
MILE	48.30	839.68	500000.	6.17	80996.	8355.	13.18	0.0200	0.	71.	0.35
MILE	46.20	838.97	500000.	6.85	73021.	8091.	12.49	0.0200	0.	77.	0.40
MILE	44.10	839.04	500000.	4.05	123367.	3627.	11.54	0.0300	0.	84.	0.12
MILE	43.70	837.18	500000.	11.13	44934.	3549.	14.58	0.0300	0.	84.	0.55
MILE	42.00	837.75	500000.	4.37	114468.	3579.	10.44	0.0300	0.	88.	0.14
MILE	39.10	835.46	500000.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE	37.00	835.62	500000.	4.56	109610.	2328.	14.11	0.0280	0.	84.	0.12
MILE	36.00	834.51	500000.	8.34	59944.	1654.	14.33	0.0280	0.	86.	0.24
MILE	34.60	834.22	500000.	6.46	77369.	2415.	15.49	0.0280	0.	86.	0.20
MILE	33.60	834.62	500000.	2.76	181076.	4590.	15.13	0.0290	0.	92.	0.08
MILE	31.50	833.73	500000.	6.73	74321.	3571.	15.78	0.0250	0.	95.	0.26
MILE	30.10	833.44	500000.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14
MILE	29.00	833.25	500000.	6.14	81399.	2053.	16.30	0.0200	0.	94.	0.17
MILE	27.30	832.98	500000.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE	25.20	832.78	500000.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE	23.10	832.32	500000.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

0DATE 10-26-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
	0.0000	FROUDE									
	INFLOW	DEPTH									
MILE	79.80	895.53	500000.	12.64	39566.	1102.	10.65	0.0290	0.	77.	0.37
MILE	77.70	893.07	500000.	9.85	50786.	1346.	11.76	0.0400	0.	82.	0.28
MILE	75.60	884.98	500000.	11.20	44636.	3087.	10.82	0.0400	0.	78.	0.52
MILE	73.50	873.85	500000.	13.15	38016.	2350.	11.40	0.0330	0.	75.	0.58
MILE	71.40	871.29	500000.	8.27	60449.	1921.	12.61	0.0400	0.	73.	0.26
MILE	69.30	866.97	500000.	9.72	51440.	1877.	11.46	0.0340	0.	68.	0.33
MILE	67.20	864.78	500000.	6.35	78682.	4972.	11.06	0.0340	0.	74.	0.28
MILE	65.10	860.70	500000.	8.52	58707.	5603.	11.03	0.0320	0.	74.	0.46
MILE	63.00	859.33	500000.	5.00	99984.	3457.	9.30	0.0400	0.	78.	0.16
MILE	60.90	854.89	500000.	7.31	68400.	3173.	9.47	0.0450	0.	78.	0.28
MILE	58.80	847.13	500000.	8.53	58629.	2504.	8.89	0.0400	0.	74.	0.31
MILE	57.00	845.46	500000.	8.18	61155.	2644.	8.92	0.0200	0.	71.	0.30
MILE	55.00	842.85	500000.	9.71	51487.	2662.	8.87	0.0200	0.	69.	0.39
MILE	53.10	841.71	500000.	7.72	64759.	3174.	10.26	0.0200	0.	68.	0.30
MILE	51.00	840.28	500000.	8.13	61519.	4075.	10.43	0.0200	0.	71.	0.37
MILE	48.30	839.68	500000.	6.17	80996.	8355.	13.18	0.0200	0.	71.	0.35
MILE	46.20	838.97	500000.	6.85	73021.	8091.	12.49	0.0200	0.	77.	0.40
MILE	44.10	839.04	500000.	4.05	123367.	3627.	11.54	0.0300	0.	84.	0.12
MILE	43.70	837.18	500000.	11.13	44934.	3549.	14.58	0.0300	0.	84.	0.55
MILE	42.00	837.75	500000.	4.37	114468.	3579.	10.44	0.0300	0.	88.	0.14
MILE	39.10	835.46	500000.	8.08	61890.	3451.	13.81	0.0230	0.	84.	0.34
MILE	37.00	835.62	500000.	4.56	109610.	2328.	14.11	0.0280	0.	84.	0.12
MILE	36.00	834.51	500000.	8.34	59944.	1654.	14.33	0.0280	0.	86.	0.24

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 554 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 34.60	834.22	500000.	6.46	77369.	2415.	15.49	0.0280	0.	86.	0.20
MILE 33.60	834.62	500000.	2.76	181076.	4590.	15.13	0.0290	0.	92.	0.08
MILE 31.50	833.73	500000.	6.73	74321.	3571.	15.78	0.0250	0.	95.	0.26
MILE 30.10	833.44	500000.	6.08	82266.	1401.	14.93	0.0200	0.	93.	0.14
MILE 29.00	833.25	500000.	6.14	81399.	2053.	16.30	0.0200	0.	94.	0.17
MILE 27.30	832.98	500000.	6.20	80634.	1892.	16.76	0.0230	0.	96.	0.17
MILE 25.20	832.78	500000.	5.44	91856.	1829.	17.88	0.0230	0.	98.	0.14
MILE 23.10	832.32	500000.	6.12	81690.	2153.	16.45	0.0230	0.	102.	0.18

ODATE 10-26-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	1.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL	
INFLOW	DEPTH	FROUDE								
MILE 79.80	895.68	504167.	12.70	39698.	1104.	10.65	0.0290	0.	77.	0.37
MILE 77.70	893.21	503411.	9.88	50929.	1347.	11.76	0.0400	0.	83.	0.28
MILE 75.60	885.06	502354.	11.24	44712.	3092.	10.82	0.0400	0.	79.	0.52
MILE 73.50	873.89	501417.	13.18	38043.	2352.	11.40	0.0330	0.	75.	0.58
MILE 71.40	871.32	501001.	8.28	60485.	1922.	12.61	0.0400	0.	74.	0.26
MILE 69.30	866.99	500717.	9.73	51453.	1877.	11.46	0.0340	0.	68.	0.33
MILE 67.20	864.78	500471.	6.36	78692.	4973.	11.06	0.0340	0.	74.	0.28
MILE 65.10	860.70	500190.	8.52	58709.	5604.	11.03	0.0320	0.	74.	0.46
MILE 63.00	859.33	500078.	5.00	99988.	3457.	9.30	0.0400	0.	78.	0.16
MILE 60.90	854.89	500024.	7.31	68401.	3173.	9.47	0.0450	0.	78.	0.28
MILE 58.80	847.13	500006.	8.53	58629.	2504.	8.89	0.0400	0.	74.	0.31
MILE 57.00	845.46	500003.	8.18	61155.	2644.	8.92	0.0200	0.	71.	0.30
MILE 55.00	842.85	500001.	9.71	51487.	2662.	8.87	0.0200	0.	69.	0.39
MILE 53.10	841.71	500000.	7.72	64759.	3174.	10.26	0.0200	0.	68.	0.30
MILE 51.00	840.28	500000.	8.13	61519.	4075.	10.43	0.0200	0.	71.	0.37
MILE 48.30	839.68	500000.	6.17	80996.	8355.	13.18	0.0200	0.	71.	0.35
MILE 46.20	838.97	499998.	6.85	73021.	8091.	12.49	0.0200	0.	77.	0.40
MILE 44.10	839.04	499963.	4.05	123369.	3627.	11.54	0.0300	0.	84.	0.12
MILE 43.70	837.18	499947.	11.13	44935.	3549.	14.58	0.0300	0.	84.	0.55
MILE 42.00	837.75	499715.	4.37	114480.	3579.	10.44	0.0300	0.	88.	0.14
MILE 39.10	835.48	498725.	8.05	61920.	3452.	13.81	0.0230	0.	84.	0.34
MILE 37.00	835.66	497211.	4.53	109714.	2329.	14.11	0.0280	0.	84.	0.12
MILE 36.00	834.57	496709.	8.28	60019.	1655.	14.33	0.0280	0.	86.	0.24
MILE 34.60	834.31	495863.	6.40	77481.	2417.	15.50	0.0280	0.	86.	0.20
MILE 33.60	834.70	494875.	2.73	181330.	4596.	15.14	0.0290	0.	92.	0.08
MILE 31.50	833.85	492378.	6.61	74477.	3578.	15.79	0.0250	0.	95.	0.26
MILE 30.10	833.59	491220.	5.96	82472.	1403.	14.95	0.0200	0.	93.	0.14
MILE 29.00	833.41	490506.	6.01	81638.	2058.	16.31	0.0200	0.	94.	0.17
MILE 27.30	833.17	489059.	6.05	80888.	1898.	16.77	0.0230	0.	96.	0.16
MILE 25.20	833.00	487441.	5.29	92139.	1834.	17.91	0.0230	0.	98.	0.13
MILE 23.10	832.59	485832.	5.92	82028.	2163.	16.48	0.0230	0.	103.	0.17

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 555 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

0DATE 10-26-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 2.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL
	INFLOW DEPTH	FROUDE							
MILE 79.80	895.91	508333.	12.74	39900.	1106.	10.66	0.0290	0.	77. 0.37
MILE 77.70	893.42	507422.	9.92	51167.	1349.	11.77	0.0400	0.	83. 0.28
MILE 75.60	885.23	506051.	11.27	44887.	3103.	10.82	0.0400	0.	79. 0.52
MILE 73.50	873.99	504652.	13.24	38127.	2357.	11.41	0.0330	0.	75. 0.58
MILE 71.40	871.41	503907.	8.31	60618.	1925.	12.62	0.0400	0.	74. 0.26
MILE 69.30	867.05	503331.	9.77	51519.	1880.	11.47	0.0340	0.	68. 0.33
MILE 67.20	864.83	502635.	6.38	78770.	4979.	11.06	0.0340	0.	74. 0.28
MILE 65.10	860.73	501661.	8.54	58742.	5608.	11.03	0.0320	0.	74. 0.47
MILE 63.00	859.36	501032.	5.01	100061.	3458.	9.30	0.0400	0.	78. 0.16
MILE 60.90	854.91	500628.	7.32	68436.	3174.	9.47	0.0450	0.	78. 0.28
MILE 58.80	847.14	500386.	8.53	58643.	2504.	8.89	0.0400	0.	74. 0.31
MILE 57.00	845.47	500298.	8.18	61166.	2644.	8.92	0.0200	0.	71. 0.30
MILE 55.00	842.86	500201.	9.71	51495.	2662.	8.87	0.0200	0.	69. 0.39
MILE 53.10	841.71	500055.	7.72	64768.	3174.	10.26	0.0200	0.	68. 0.30
MILE 51.00	840.29	499724.	8.12	61533.	4076.	10.43	0.0200	0.	71. 0.37
MILE 48.30	839.70	498339.	6.15	81035.	8359.	13.18	0.0200	0.	71. 0.35
MILE 46.20	839.02	496589.	6.79	73092.	8098.	12.50	0.0200	0.	77. 0.40
MILE 44.10	839.09	495146.	4.01	123521.	3629.	11.54	0.0300	0.	84. 0.12
MILE 43.70	837.28	494955.	11.00	45013.	3555.	14.59	0.0300	0.	84. 0.54
MILE 42.00	837.85	493776.	4.30	114790.	3585.	10.44	0.0300	0.	88. 0.13
MILE 39.10	835.66	491460.	7.91	62150.	3463.	13.83	0.0230	0.	85. 0.33
MILE 37.00	835.83	489880.	4.45	110147.	2334.	14.12	0.0280	0.	85. 0.11
MILE 36.00	834.78	489326.	8.12	60265.	1659.	14.36	0.0280	0.	86. 0.24
MILE 34.60	834.53	488370.	6.28	77777.	2424.	15.52	0.0280	0.	86. 0.20
MILE 33.60	834.90	487239.	2.68	181981.	4611.	15.17	0.0290	0.	92. 0.08
MILE 31.50	834.08	484417.	6.48	74788.	3592.	15.82	0.0250	0.	95. 0.25
MILE 30.10	833.83	483082.	5.83	82827.	1407.	14.97	0.0200	0.	93. 0.13
MILE 29.00	833.66	482367.	5.88	82015.	2067.	16.33	0.0200	0.	94. 0.16
MILE 27.30	833.43	481151.	5.92	81229.	1905.	16.80	0.0230	0.	96. 0.16
MILE 25.20	833.26	479708.	5.19	92468.	1840.	17.94	0.0230	0.	99. 0.13
MILE 23.10	832.85	478144.	5.81	82367.	2172.	16.51	0.0230	0.	103. 0.17

0DATE 10-26-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 3.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL
	INFLOW DEPTH	FROUDE							
MILE 79.80	896.17	512500.	12.77	40125.	1108.	10.67	0.0290	0.	77. 0.37
MILE 77.70	893.67	511526.	9.94	51436.	1352.	11.77	0.0400	0.	83. 0.28
MILE 75.60	885.45	510022.	11.31	45100.	3117.	10.83	0.0400	0.	79. 0.52
MILE 73.50	874.14	508390.	13.29	38245.	2364.	11.42	0.0330	0.	75. 0.58
MILE 71.40	871.55	507436.	8.34	60815.	1930.	12.64	0.0400	0.	74. 0.26

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MILE 69.30	867.16	506655.	9.81	51630.	1884.	11.48	0.0340	0.	68.	0.33
MILE 67.20	864.92	505581.	6.41	78918.	4992.	11.07	0.0340	0.	74.	0.28
MILE 65.10	860.79	503984.	8.57	58822.	5617.	11.04	0.0320	0.	74.	0.47
MILE 63.00	859.42	502814.	5.02	100248.	3460.	9.30	0.0400	0.	78.	0.16
MILE 60.90	854.96	501996.	7.32	68546.	3176.	9.48	0.0450	0.	78.	0.28
MILE 58.80	847.19	501324.	8.54	58713.	2506.	8.89	0.0400	0.	74.	0.31
MILE 57.00	845.52	500806.	8.18	61246.	2647.	8.92	0.0200	0.	71.	0.30
MILE 55.00	842.92	500176.	9.70	51579.	2665.	8.87	0.0200	0.	69.	0.39
MILE 53.10	841.78	499458.	7.70	64865.	3177.	10.27	0.0200	0.	68.	0.30
MILE 51.00	840.37	498414.	8.09	61645.	4083.	10.44	0.0200	0.	71.	0.37
MILE 48.30	839.79	495813.	6.11	81187.	8374.	13.19	0.0200	0.	71.	0.35
MILE 46.20	839.12	492988.	6.73	73261.	8115.	12.50	0.0200	0.	77.	0.39
MILE 44.10	839.19	490759.	3.96	123816.	3634.	11.55	0.0300	0.	84.	0.12
MILE 43.70	837.42	490489.	10.87	45128.	3563.	14.61	0.0300	0.	84.	0.54
MILE 42.00	837.98	489130.	4.25	115209.	3593.	10.45	0.0300	0.	88.	0.13
MILE 39.10	835.85	486612.	7.80	62390.	3475.	13.85	0.0230	0.	85.	0.32
MILE 37.00	836.02	484861.	4.38	110613.	2340.	14.13	0.0280	0.	85.	0.11
MILE 36.00	835.00	484260.	8.00	60513.	1663.	14.38	0.0280	0.	86.	0.23
MILE 34.60	834.75	483293.	6.19	78072.	2431.	15.54	0.0280	0.	86.	0.19
MILE 33.60	835.11	482146.	2.64	182641.	4627.	15.20	0.0290	0.	92.	0.07
MILE 31.50	834.31	479316.	6.38	75092.	3606.	15.84	0.0250	0.	96.	0.25
MILE 30.10	834.07	478058.	5.75	83167.	1410.	14.99	0.0200	0.	93.	0.13
MILE 29.00	833.90	477363.	5.79	82375.	2075.	16.35	0.0200	0.	94.	0.16
MILE 27.30	833.68	476112.	5.84	81559.	1911.	16.82	0.0230	0.	97.	0.16
MILE 25.20	833.51	474603.	5.11	92793.	1846.	17.97	0.0230	0.	99.	0.13
MILE 23.10	833.12	472941.	5.72	82706.	2182.	16.54	0.0230	0.	103.	0.16

0DATE 10-26-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 4.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	896.43	516667.	12.80	40361.	1110.	10.67	0.0290	0.	78.	0.37
MILE 77.70	893.93	515660.	9.97	51720.	1355.	11.78	0.0400	0.	83.	0.28
MILE 75.60	885.68	514083.	11.34	45332.	3131.	10.84	0.0400	0.	79.	0.53
MILE 73.50	874.32	512303.	13.35	38384.	2373.	11.43	0.0330	0.	75.	0.58
MILE 71.40	871.71	511197.	8.37	61054.	1937.	12.66	0.0400	0.	74.	0.26
MILE 69.30	867.30	510254.	9.85	51777.	1889.	11.49	0.0340	0.	69.	0.33
MILE 67.20	865.05	508855.	6.43	79123.	5008.	11.08	0.0340	0.	74.	0.29
MILE 65.10	860.90	506705.	8.60	58947.	5632.	11.04	0.0320	0.	74.	0.47
MILE 63.00	859.53	505029.	5.02	100553.	3464.	9.31	0.0400	0.	79.	0.16
MILE 60.90	855.06	503819.	7.33	68745.	3181.	9.48	0.0450	0.	79.	0.28
MILE 58.80	847.29	502767.	8.54	58866.	2511.	8.89	0.0400	0.	74.	0.31
MILE 57.00	845.62	501971.	8.17	61417.	2652.	8.92	0.0200	0.	71.	0.30
MILE 55.00	843.03	501025.	9.68	51740.	2669.	8.87	0.0200	0.	70.	0.39
MILE 53.10	841.89	499990.	7.69	65032.	3182.	10.27	0.0200	0.	69.	0.30
MILE 51.00	840.49	498529.	8.06	61814.	4093.	10.45	0.0200	0.	71.	0.37
MILE 48.30	839.92	495066.	6.08	81406.	8397.	13.21	0.0200	0.	71.	0.34

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 46.20	839.26	491280.	6.68	73491.	8137.	12.51	0.0200	0.	77.	0.39
MILE 44.10	839.33	488431.	3.93	124225.	3641.	11.55	0.0300	0.	84.	0.12
MILE 43.70	837.59	488091.	10.78	45263.	3572.	14.63	0.0300	0.	85.	0.53
MILE 42.00	838.14	486448.	4.20	115733.	3603.	10.45	0.0300	0.	88.	0.13
MILE 39.10	836.06	483460.	7.72	62656.	3487.	13.87	0.0230	0.	85.	0.32
MILE 37.00	836.22	481527.	4.33	111136.	2346.	14.14	0.0280	0.	85.	0.11
MILE 36.00	835.22	480879.	7.91	60780.	1668.	14.40	0.0280	0.	86.	0.23
MILE 34.60	834.98	479871.	6.12	78387.	2438.	15.57	0.0280	0.	86.	0.19
MILE 33.60	835.34	478646.	2.61	183355.	4643.	15.23	0.0290	0.	92.	0.07
MILE 31.50	834.56	475608.	6.31	75412.	3620.	15.86	0.0250	0.	96.	0.24
MILE 30.10	834.32	474299.	5.68	83526.	1414.	15.02	0.0200	0.	94.	0.13
MILE 29.00	834.16	473573.	5.72	82754.	2084.	16.37	0.0200	0.	94.	0.16
MILE 27.30	833.93	472274.	5.77	81902.	1919.	16.84	0.0230	0.	97.	0.16
MILE 25.20	833.77	470767.	5.06	93127.	1853.	18.00	0.0230	0.	99.	0.13
MILE 23.10	833.39	469119.	5.65	83046.	2191.	16.57	0.0230	0.	103.	0.16

ODATE 10-26-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 5.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
INFLOW DEPTH	FROUDE									
MILE 79.80	896.71	520833.	12.83	40602.	1113.	10.68	0.0290	0.	78.	0.37
MILE 77.70	894.19	519805.	9.99	52013.	1358.	11.79	0.0400	0.	83.	0.28
MILE 75.60	885.92	518173.	11.37	45580.	3147.	10.85	0.0400	0.	79.	0.53
MILE 73.50	874.51	516269.	13.40	38536.	2382.	11.44	0.0330	0.	75.	0.59
MILE 71.40	871.90	515033.	8.40	61323.	1943.	12.68	0.0400	0.	74.	0.26
MILE 69.30	867.46	513959.	9.89	51951.	1896.	11.50	0.0340	0.	69.	0.33
MILE 67.20	865.21	512297.	6.45	79368.	5029.	11.10	0.0340	0.	75.	0.29
MILE 65.10	861.03	509701.	8.62	59111.	5652.	11.05	0.0320	0.	74.	0.47
MILE 63.00	859.66	507623.	5.03	100954.	3470.	9.32	0.0400	0.	79.	0.16
MILE 60.90	855.20	506106.	7.33	69015.	3187.	9.49	0.0450	0.	79.	0.28
MILE 58.80	847.43	504758.	8.54	59076.	2518.	8.90	0.0400	0.	74.	0.31
MILE 57.00	845.76	503737.	8.17	61649.	2660.	8.92	0.0200	0.	71.	0.30
MILE 55.00	843.18	502529.	9.67	51954.	2676.	8.87	0.0200	0.	70.	0.39
MILE 53.10	842.04	501224.	7.68	65251.	3189.	10.28	0.0200	0.	69.	0.30
MILE 51.00	840.65	499398.	8.05	62030.	4106.	10.46	0.0200	0.	71.	0.37
MILE 48.30	840.09	495139.	6.06	81681.	8425.	13.23	0.0200	0.	71.	0.34
MILE 46.20	839.43	490610.	6.65	73775.	8164.	12.53	0.0200	0.	78.	0.39
MILE 44.10	839.50	487222.	3.91	124731.	3649.	11.56	0.0300	0.	84.	0.12
MILE 43.70	837.78	486824.	10.72	45419.	3582.	14.65	0.0300	0.	85.	0.53
MILE 42.00	838.33	485005.	4.17	116351.	3615.	10.46	0.0300	0.	88.	0.13
MILE 39.10	836.28	481766.	7.65	62945.	3501.	13.89	0.0230	0.	85.	0.32
MILE 37.00	836.45	479699.	4.29	111708.	2353.	14.16	0.0280	0.	85.	0.11
MILE 36.00	835.46	479008.	7.84	61062.	1673.	14.42	0.0280	0.	86.	0.23
MILE 34.60	835.22	477961.	6.07	78716.	2446.	15.59	0.0280	0.	87.	0.19
MILE 33.60	835.57	476691.	2.59	184112.	4661.	15.26	0.0290	0.	93.	0.07
MILE 31.50	834.81	473560.	6.25	75743.	3635.	15.88	0.0250	0.	96.	0.24
MILE 30.10	834.58	472239.	5.63	83893.	1418.	15.04	0.0200	0.	94.	0.13

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Appendix E		Checked	ACM

MILE	29.00	834.42	471512.	5.67	83139.	2093.	16.38	0.0200	0.	95.	0.16
MILE	27.30	834.19	470215.	5.72	82249.	1926.	16.87	0.0230	0.	97.	0.15
MILE	25.20	834.03	468681.	5.01	93463.	1859.	18.03	0.0230	0.	100.	0.12
MILE	23.10	833.66	467034.	5.60	83386.	2201.	16.59	0.0230	0.	104.	0.16

0DATE 10-26-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	6.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL	
INFLOW	DEPTH	FROUDE									
MILE	79.80	896.98	525000.	12.85	40849.	1115.	10.69	0.0290	0.	78.	0.37
MILE	77.70	894.47	523952.	10.02	52315.	1361.	11.80	0.0400	0.	84.	0.28
MILE	75.60	886.18	522273.	11.39	45840.	3163.	10.86	0.0400	0.	80.	0.53
MILE	73.50	874.71	520268.	13.44	38697.	2392.	11.45	0.0330	0.	76.	0.59
MILE	71.40	872.10	518930.	8.42	61613.	1951.	12.70	0.0400	0.	74.	0.26
MILE	69.30	867.65	517749.	9.93	52144.	1903.	11.52	0.0340	0.	69.	0.33
MILE	67.20	865.38	515873.	6.48	79647.	5053.	11.11	0.0340	0.	75.	0.29
MILE	65.10	861.19	512912.	8.65	59304.	5675.	11.06	0.0320	0.	74.	0.47
MILE	63.00	859.82	510508.	5.03	101429.	3476.	9.34	0.0400	0.	79.	0.16
MILE	60.90	855.36	508744.	7.34	69340.	3194.	9.50	0.0450	0.	79.	0.28
MILE	58.80	847.60	507155.	8.55	59333.	2526.	8.90	0.0400	0.	75.	0.31
MILE	57.00	845.93	505947.	8.17	61934.	2669.	8.93	0.0200	0.	71.	0.30
MILE	55.00	843.36	504526.	9.66	52213.	2683.	8.87	0.0200	0.	70.	0.39
MILE	53.10	842.22	503010.	7.68	65513.	3196.	10.29	0.0200	0.	69.	0.30
MILE	51.00	840.84	500904.	8.04	62285.	4120.	10.48	0.0200	0.	72.	0.36
MILE	48.30	840.28	496056.	6.05	82000.	8457.	13.25	0.0200	0.	71.	0.34
MILE	46.20	839.63	490931.	6.63	74099.	8195.	12.54	0.0200	0.	78.	0.39
MILE	44.10	839.70	487136.	3.89	125312.	3658.	11.57	0.0300	0.	84.	0.12
MILE	43.70	837.99	486695.	10.68	45589.	3594.	14.67	0.0300	0.	85.	0.53
MILE	42.00	838.55	484722.	4.14	117038.	3629.	10.47	0.0300	0.	89.	0.13
MILE	39.10	836.52	481255.	7.61	63250.	3515.	13.91	0.0230	0.	86.	0.32
MILE	37.00	836.68	479093.	4.27	112314.	2360.	14.17	0.0280	0.	85.	0.11
MILE	36.00	835.71	478376.	7.80	61354.	1678.	14.45	0.0280	0.	87.	0.23
MILE	34.60	835.47	477311.	6.04	79055.	2454.	15.62	0.0280	0.	87.	0.19
MILE	33.60	835.82	476004.	2.57	184896.	4679.	15.29	0.0290	0.	93.	0.07
MILE	31.50	835.07	472778.	6.21	76081.	3650.	15.91	0.0250	0.	96.	0.24
MILE	30.10	834.83	471431.	5.59	84267.	1422.	15.06	0.0200	0.	94.	0.13
MILE	29.00	834.68	470690.	5.63	83531.	2101.	16.40	0.0200	0.	95.	0.16
MILE	27.30	834.46	469378.	5.68	82600.	1933.	16.89	0.0230	0.	97.	0.15
MILE	25.20	834.29	467844.	4.99	93801.	1865.	18.06	0.0230	0.	100.	0.12
MILE	23.10	833.92	466186.	5.57	83727.	2211.	16.62	0.0230	0.	104.	0.16

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

	TIME 7.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL
	INFLOW DEPTH	FROUDE							
MILE	79.80	897.26	529167.	12.87	41101.	1118.	10.70	0.0290	0. 79. 0.37
MILE	77.70	894.74	528098.	10.04	52623.	1364.	11.81	0.0400	0. 84. 0.28
MILE	75.60	886.44	526378.	11.42	46107.	3179.	10.87	0.0400	0. 80. 0.53
MILE	73.50	874.92	524294.	13.49	38866.	2403.	11.47	0.0330	0. 76. 0.59
MILE	71.40	872.31	522875.	8.44	61922.	1958.	12.72	0.0400	0. 75. 0.26
MILE	69.30	867.85	521611.	9.96	52354.	1910.	11.53	0.0340	0. 69. 0.34
MILE	67.20	865.58	519560.	6.50	79952.	5079.	11.13	0.0340	0. 75. 0.29
MILE	65.10	861.37	516301.	8.67	59520.	5701.	11.07	0.0320	0. 74. 0.47
MILE	63.00	860.00	513624.	5.04	101960.	3483.	9.35	0.0400	0. 79. 0.16
MILE	60.90	855.54	511669.	7.34	69709.	3203.	9.51	0.0450	0. 79. 0.28
MILE	58.80	847.79	509890.	8.55	59628.	2536.	8.91	0.0400	0. 75. 0.31
MILE	57.00	846.13	508536.	8.17	62260.	2679.	8.93	0.0200	0. 71. 0.30
MILE	55.00	843.56	506949.	9.65	52509.	2692.	8.87	0.0200	0. 70. 0.39
MILE	53.10	842.42	505268.	7.68	65808.	3205.	10.31	0.0200	0. 69. 0.30
MILE	51.00	841.04	502942.	8.04	62570.	4137.	10.50	0.0200	0. 72. 0.36
MILE	48.30	840.49	497623.	6.04	82354.	8492.	13.28	0.0200	0. 72. 0.34
MILE	46.20	839.84	492030.	6.61	74456.	8229.	12.56	0.0200	0. 78. 0.39
MILE	44.10	839.91	487906.	3.87	125951.	3669.	11.58	0.0300	0. 85. 0.12
MILE	43.70	838.21	487430.	10.65	45771.	3606.	14.70	0.0300	0. 85. 0.53
MILE	42.00	838.77	485339.	4.12	117782.	3643.	10.47	0.0300	0. 89. 0.13
MILE	39.10	836.77	481695.	7.58	63567.	3530.	13.93	0.0230	0. 86. 0.31
MILE	37.00	836.93	479453.	4.24	112947.	2368.	14.19	0.0280	0. 86. 0.11
MILE	36.00	835.97	478711.	7.76	61653.	1683.	14.47	0.0280	0. 87. 0.23
MILE	34.60	835.73	477622.	6.02	79403.	2462.	15.64	0.0280	0. 87. 0.19
MILE	33.60	836.07	476284.	2.56	185704.	4698.	15.33	0.0290	0. 93. 0.07
MILE	31.50	835.33	472987.	6.19	76425.	3665.	15.93	0.0250	0. 97. 0.24
MILE	30.10	835.10	471630.	5.57	84646.	1425.	15.09	0.0200	0. 94. 0.13
MILE	29.00	834.94	470884.	5.61	83927.	2110.	16.42	0.0200	0. 95. 0.16
MILE	27.30	834.72	469559.	5.66	82954.	1940.	16.92	0.0230	0. 98. 0.15
MILE	25.20	834.56	468016.	4.97	94142.	1872.	18.10	0.0230	0. 100. 0.12
MILE	23.10	834.19	466353.	5.55	84069.	2220.	16.65	0.0230	0. 104. 0.16

0DATE 10-26-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 8.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL
	INFLOW DEPTH	FROUDE							
MILE	79.80	897.54	533333.	12.90	41358.	1120.	10.71	0.0290	0. 79. 0.37
MILE	77.70	895.02	532249.	10.05	52938.	1367.	11.82	0.0400	0. 84. 0.28
MILE	75.60	886.70	530487.	11.44	46374.	3196.	10.88	0.0400	0. 80. 0.53
MILE	73.50	875.14	528323.	13.53	39040.	2413.	11.48	0.0330	0. 76. 0.59
MILE	71.40	872.53	526830.	8.46	62242.	1967.	12.75	0.0400	0. 75. 0.27
MILE	69.30	868.06	525492.	10.00	52575.	1918.	11.55	0.0340	0. 69. 0.34
MILE	67.20	865.78	523297.	6.52	80278.	5106.	11.15	0.0340	0. 75. 0.29
MILE	65.10	861.56	519793.	8.70	59753.	5729.	11.08	0.0320	0. 75. 0.47

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	63.00	860.20	516904.	5.04	102472.	3491.	9.37	0.0400	0.	79.	0.16
MILE	60.90	855.74	514802.	7.34	70112.	3212.	9.52	0.0450	0.	79.	0.28
MILE	58.80	848.00	512883.	8.55	59952.	2546.	8.92	0.0400	0.	75.	0.31
MILE	57.00	846.34	511416.	8.17	62618.	2690.	8.93	0.0200	0.	72.	0.30
MILE	55.00	843.78	509700.	9.65	52833.	2701.	8.88	0.0200	0.	70.	0.38
MILE	53.10	842.64	507888.	7.68	66129.	3215.	10.32	0.0200	0.	69.	0.30
MILE	51.00	841.27	505387.	8.04	62878.	4155.	10.51	0.0200	0.	72.	0.36
MILE	48.30	840.71	499689.	6.04	82734.	8531.	13.31	0.0200	0.	72.	0.34
MILE	46.20	840.07	493717.	6.60	74835.	8264.	12.58	0.0200	0.	78.	0.39
MILE	44.10	840.14	489342.	3.86	126614.	3678.	11.58	0.0300	0.	85.	0.12
MILE	43.70	838.45	488841.	10.64	45961.	3619.	14.72	0.0300	0.	85.	0.53
MILE	42.00	839.01	486659.	4.10	118570.	3658.	10.48	0.0300	0.	89.	0.13
MILE	39.10	837.02	482879.	7.56	63894.	3546.	13.96	0.0230	0.	86.	0.31
MILE	37.00	837.18	480575.	4.23	113603.	2376.	14.20	0.0280	0.	86.	0.11
MILE	36.00	836.22	479816.	7.74	61959.	1688.	14.50	0.0280	0.	87.	0.23
MILE	34.60	835.99	478714.	6.00	79757.	2470.	15.67	0.0280	0.	87.	0.19
MILE	33.60	836.33	477352.	2.56	186529.	4717.	15.36	0.0290	0.	93.	0.07
MILE	31.50	835.59	473998.	6.17	76774.	3680.	15.95	0.0250	0.	97.	0.24
MILE	30.10	835.36	472627.	5.56	85029.	1429.	15.11	0.0200	0.	95.	0.13
MILE	29.00	835.21	471874.	5.60	84327.	2120.	16.44	0.0200	0.	96.	0.16
MILE	27.30	834.99	470542.	5.65	83310.	1948.	16.94	0.0230	0.	98.	0.15
MILE	25.20	834.83	468990.	4.96	94484.	1878.	18.13	0.0230	0.	100.	0.12
MILE	23.10	834.46	467320.	5.54	84411.	2230.	16.68	0.0230	0.	104.	0.16

ODATE 10-26-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	9.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
INFLOW	DEPTH	FROUDE									
MILE	79.80	897.83	537500.	12.91	41620.	1123.	10.71	0.0290	0.	79.	0.37
MILE	77.70	895.31	536405.	10.07	53258.	1370.	11.83	0.0400	0.	85.	0.28
MILE	75.60	886.97	534612.	11.46	46646.	3212.	10.89	0.0400	0.	80.	0.53
MILE	73.50	875.36	532385.	13.57	39220.	2424.	11.49	0.0330	0.	76.	0.59
MILE	71.40	872.76	530832.	8.48	62572.	1975.	12.77	0.0400	0.	75.	0.27
MILE	69.30	868.28	529435.	10.03	52806.	1927.	11.57	0.0340	0.	70.	0.34
MILE	67.20	866.00	527121.	6.54	80619.	5135.	11.17	0.0340	0.	75.	0.29
MILE	65.10	861.76	523415.	8.72	60001.	5758.	11.09	0.0320	0.	75.	0.48
MILE	63.00	860.41	520348.	5.05	103016.	3498.	9.39	0.0400	0.	79.	0.16
MILE	60.90	855.95	518123.	7.35	70540.	3222.	9.54	0.0450	0.	79.	0.28
MILE	58.80	848.23	516085.	8.56	60299.	2557.	8.92	0.0400	0.	75.	0.31
MILE	57.00	846.57	514526.	8.17	63003.	2702.	8.93	0.0200	0.	72.	0.30
MILE	55.00	844.01	512705.	9.64	53179.	2711.	8.88	0.0200	0.	71.	0.38
MILE	53.10	842.88	510790.	7.68	66472.	3225.	10.34	0.0200	0.	70.	0.30
MILE	51.00	841.50	508151.	8.04	63204.	4174.	10.53	0.0200	0.	72.	0.36
MILE	48.30	840.95	502160.	6.04	83135.	8571.	13.34	0.0200	0.	72.	0.34
MILE	46.20	840.32	495897.	6.59	75226.	8298.	12.59	0.0200	0.	79.	0.39
MILE	44.10	840.39	491317.	3.86	127298.	3686.	11.59	0.0300	0.	85.	0.12
MILE	43.70	838.69	490793.	10.63	46159.	3633.	14.75	0.0300	0.	86.	0.53

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 42.00	839.26	488537.	4.09	119393.	3674.	10.49	0.0300	0.	89.	0.13
MILE 39.10	837.28	484644.	7.55	64229.	3562.	13.98	0.0230	0.	86.	0.31
MILE 37.00	837.44	482290.	4.22	114277.	2384.	14.22	0.0280	0.	86.	0.11
MILE 36.00	836.49	481517.	7.73	62270.	1693.	14.53	0.0280	0.	87.	0.22
MILE 34.60	836.25	480401.	6.00	80115.	2478.	15.70	0.0280	0.	88.	0.19
MILE 33.60	836.60	479020.	2.56	187369.	4736.	15.40	0.0290	0.	94.	0.07
MILE 31.50	835.85	475618.	6.17	77126.	3696.	15.98	0.0250	0.	97.	0.24
MILE 30.10	835.63	474237.	5.55	85416.	1433.	15.14	0.0200	0.	95.	0.13
MILE 29.00	835.47	473480.	5.59	84730.	2129.	16.46	0.0200	0.	96.	0.16
MILE 27.30	835.25	472139.	5.64	83669.	1955.	16.96	0.0230	0.	98.	0.15
MILE 25.20	835.09	470581.	4.96	94828.	1885.	18.16	0.0230	0.	101.	0.12
MILE 23.10	834.73	468906.	5.53	84753.	2239.	16.70	0.0230	0.	105.	0.16

ODATE 10-26-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 10.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	898.11	541667.	12.93	41885.	1125.	10.72	0.0290	0.	79.	0.37
MILE 77.70	895.59	540565.	10.09	53582.	1373.	11.84	0.0400	0.	85.	0.28
MILE 75.60	887.23	538749.	11.48	46922.	3229.	10.90	0.0400	0.	81.	0.53
MILE 73.50	875.59	536474.	13.61	39404.	2436.	11.51	0.0330	0.	76.	0.60
MILE 71.40	873.00	534872.	8.50	62912.	1983.	12.80	0.0400	0.	75.	0.27
MILE 69.30	868.50	533425.	10.06	53046.	1936.	11.59	0.0340	0.	70.	0.34
MILE 67.20	866.22	531011.	6.56	80975.	5165.	11.19	0.0340	0.	76.	0.29
MILE 65.10	861.97	527139.	8.75	60260.	5789.	11.11	0.0320	0.	75.	0.48
MILE 63.00	860.62	523932.	5.06	103586.	3506.	9.41	0.0400	0.	80.	0.16
MILE 60.90	856.16	521608.	7.35	70989.	3232.	9.55	0.0450	0.	80.	0.28
MILE 58.80	848.47	519472.	8.56	60665.	2568.	8.93	0.0400	0.	75.	0.31
MILE 57.00	846.81	517832.	8.17	63411.	2714.	8.94	0.0200	0.	72.	0.30
MILE 55.00	844.25	515935.	9.64	53542.	2721.	8.89	0.0200	0.	71.	0.38
MILE 53.10	843.12	513930.	7.69	66829.	3235.	10.35	0.0200	0.	70.	0.30
MILE 51.00	841.75	511168.	8.04	63544.	4194.	10.55	0.0200	0.	72.	0.36
MILE 48.30	841.20	504949.	6.04	83551.	8613.	13.37	0.0200	0.	72.	0.34
MILE 46.20	840.57	498453.	6.59	75632.	8333.	12.61	0.0200	0.	79.	0.39
MILE 44.10	840.64	493714.	3.86	128010.	3694.	11.60	0.0300	0.	85.	0.12
MILE 43.70	838.94	493173.	10.64	46361.	3647.	14.78	0.0300	0.	86.	0.53
MILE 42.00	839.52	490858.	4.08	120246.	3690.	10.50	0.0300	0.	90.	0.13
MILE 39.10	837.54	486874.	7.54	64570.	3578.	14.01	0.0230	0.	87.	0.31
MILE 37.00	837.71	484479.	4.21	114964.	2392.	14.24	0.0280	0.	86.	0.11
MILE 36.00	836.75	483694.	7.73	62585.	1698.	14.55	0.0280	0.	88.	0.22
MILE 34.60	836.52	482568.	6.00	80478.	2486.	15.73	0.0280	0.	88.	0.19
MILE 33.60	836.86	481170.	2.56	188219.	4756.	15.43	0.0290	0.	94.	0.07
MILE 31.50	836.12	477729.	6.17	77482.	3712.	16.00	0.0250	0.	97.	0.24
MILE 30.10	835.90	476338.	5.55	85805.	1437.	15.16	0.0200	0.	95.	0.13
MILE 29.00	835.74	475576.	5.59	85137.	2138.	16.47	0.0200	0.	96.	0.16
MILE 27.30	835.52	474227.	5.64	84030.	1962.	16.99	0.0230	0.	98.	0.15
MILE 25.20	835.36	472662.	4.97	95173.	1891.	18.19	0.0230	0.	101.	0.12

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 23.10 834.99 470980. 5.53 85096. 2249. 16.73 0.0230 0. 105. 0.16

0DATE 10-26-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 11.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80 898.40 545833. 12.95 42152. 1128. 10.73 0.0290 0. 80. 0.37
MILE 77.70 895.88 544728. 10.10 53909. 1376. 11.85 0.0400 0. 85. 0.28
MILE 75.60 887.50 542895. 11.50 47202. 3246. 10.91 0.0400 0. 81. 0.53
MILE 73.50 875.82 540582. 13.65 39592. 2447. 11.52 0.0330 0. 77. 0.60
MILE 71.40 873.23 538943. 8.52 63259. 1992. 12.82 0.0400 0. 75. 0.27
MILE 69.30 868.74 537459. 10.09 53292. 1944. 11.61 0.0340 0. 70. 0.34
MILE 67.20 866.45 534968. 6.58 81341. 5195. 11.21 0.0340 0. 76. 0.29
MILE 65.10 862.19 530968. 8.77 60528. 5820. 11.12 0.0320 0. 75. 0.48
MILE 63.00 860.85 527649. 5.06 104181. 3515. 9.43 0.0400 0. 80. 0.16
MILE 60.90 856.39 525247. 7.35 71459. 3242. 9.56 0.0450 0. 80. 0.28
MILE 58.80 848.71 523036. 8.57 61051. 2581. 8.94 0.0400 0. 76. 0.31
MILE 57.00 847.06 521336. 8.17 63841. 2727. 8.94 0.0200 0. 72. 0.30
MILE 55.00 844.50 519369. 9.63 53920. 2732. 8.89 0.0200 0. 71. 0.38
MILE 53.10 843.37 517295. 7.70 67199. 3246. 10.37 0.0200 0. 70. 0.30
MILE 51.00 842.00 514447. 8.05 63894. 4214. 10.57 0.0200 0. 73. 0.36
MILE 48.30 841.45 508017. 6.05 83979. 8656. 13.40 0.0200 0. 73. 0.34
MILE 46.20 840.82 501318. 6.59 76048. 8369. 12.63 0.0200 0. 79. 0.39
MILE 44.10 840.89 496441. 3.86 128742. 3703. 11.60 0.0300 0. 86. 0.12
MILE 43.70 839.19 495886. 10.65 46568. 3660. 14.80 0.0300 0. 86. 0.53
MILE 42.00 839.78 493519. 4.07 121120. 3706. 10.51 0.0300 0. 90. 0.13
MILE 39.10 837.81 489458. 7.54 64915. 3594. 14.03 0.0230 0. 87. 0.31
MILE 37.00 837.97 487028. 4.21 115662. 2400. 14.25 0.0280 0. 87. 0.11
MILE 36.00 837.02 486234. 7.73 62903. 1704. 14.58 0.0280 0. 88. 0.22
MILE 34.60 836.79 485099. 6.00 80843. 2495. 15.75 0.0280 0. 88. 0.19
MILE 33.60 837.13 483687. 2.56 189077. 4776. 15.47 0.0290 0. 94. 0.07
MILE 31.50 836.39 480214. 6.17 77839. 3727. 16.03 0.0250 0. 98. 0.24
MILE 30.10 836.16 478815. 5.55 86197. 1441. 15.19 0.0200 0. 95. 0.13
MILE 29.00 836.01 478049. 5.59 85545. 2147. 16.49 0.0200 0. 96. 0.16
MILE 27.30 835.79 476694. 5.65 84391. 1970. 17.01 0.0230 0. 99. 0.15
MILE 25.20 835.63 475123. 4.97 95519. 1898. 18.22 0.0230 0. 101. 0.12
MILE 23.10 835.26 473435. 5.54 85439. 2258. 16.76 0.0230 0. 105. 0.16

0DATE 10-26-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 12.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80 898.69 550000. 12.97 42421. 1130. 10.74 0.0290 0. 80. 0.37

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 563 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 77.70	896.16	548894.	10.12	54237.	1379.	11.86	0.0400	0.	85.	0.28
MILE 75.60	887.77	547052.	11.52	47485.	3263.	10.92	0.0400	0.	81.	0.53
MILE 73.50	876.06	544713.	13.69	39783.	2458.	11.53	0.0330	0.	77.	0.60
MILE 71.40	873.48	543046.	8.54	63614.	2001.	12.85	0.0400	0.	76.	0.27
MILE 69.30	868.97	541531.	10.11	53544.	1954.	11.63	0.0340	0.	70.	0.34
MILE 67.20	866.69	538979.	6.60	81715.	5226.	11.23	0.0340	0.	76.	0.29
MILE 65.10	862.41	534869.	8.80	60804.	5853.	11.13	0.0320	0.	75.	0.48
MILE 63.00	861.08	531463.	5.07	104793.	3524.	9.45	0.0400	0.	80.	0.16
MILE 60.90	856.63	528999.	7.35	71945.	3253.	9.58	0.0450	0.	80.	0.28
MILE 58.80	848.97	526727.	8.57	61450.	2593.	8.95	0.0400	0.	76.	0.31
MILE 57.00	847.31	524976.	8.17	64286.	2740.	8.94	0.0200	0.	73.	0.30
MILE 55.00	844.76	522953.	9.63	54310.	2743.	8.90	0.0200	0.	71.	0.38
MILE 53.10	843.62	520825.	7.71	67579.	3257.	10.38	0.0200	0.	70.	0.30
MILE 51.00	842.25	517904.	8.06	64253.	4234.	10.59	0.0200	0.	73.	0.36
MILE 48.30	841.71	511305.	6.06	84416.	8699.	13.43	0.0200	0.	73.	0.34
MILE 46.20	841.08	504434.	6.60	76474.	8405.	12.64	0.0200	0.	79.	0.39
MILE 44.10	841.15	499438.	3.86	129492.	3712.	11.61	0.0300	0.	86.	0.12
MILE 43.70	839.45	498870.	10.66	46777.	3675.	14.83	0.0300	0.	86.	0.53
MILE 42.00	840.04	496440.	4.07	121995.	3722.	10.52	0.0300	0.	90.	0.13
MILE 39.10	838.08	492339.	7.54	65265.	3610.	14.05	0.0230	0.	87.	0.31
MILE 37.00	838.24	489882.	4.21	116369.	2408.	14.27	0.0280	0.	87.	0.11
MILE 36.00	837.29	489079.	7.74	63224.	1709.	14.60	0.0280	0.	88.	0.22
MILE 34.60	837.06	487934.	6.01	81211.	2503.	15.78	0.0280	0.	89.	0.19
MILE 33.60	837.40	486508.	2.56	189942.	4796.	15.51	0.0290	0.	95.	0.07
MILE 31.50	836.66	482996.	6.18	78199.	3743.	16.05	0.0250	0.	98.	0.24
MILE 30.10	836.43	481586.	5.56	86591.	1445.	15.21	0.0200	0.	96.	0.13
MILE 29.00	836.28	480814.	5.59	85956.	2156.	16.51	0.0200	0.	97.	0.16
MILE 27.30	836.06	479449.	5.66	84755.	1977.	17.04	0.0230	0.	99.	0.15
MILE 25.20	835.90	477868.	4.98	95865.	1904.	18.26	0.0230	0.	101.	0.12
MILE 23.10	835.53	476171.	5.55	85783.	2268.	16.79	0.0230	0.	106.	0.16

ODATE 10-26-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 13.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	898.98	554167.	12.98	42690.	1133.	10.75	0.0290	0.	80.	0.37
MILE 77.70	896.45	553061.	10.14	54566.	1382.	11.87	0.0400	0.	86.	0.28
MILE 75.60	888.04	551212.	11.54	47770.	3280.	10.93	0.0400	0.	82.	0.53
MILE 73.50	876.30	548852.	13.73	39977.	2470.	11.55	0.0330	0.	77.	0.60
MILE 71.40	873.72	547162.	8.55	63973.	2010.	12.87	0.0400	0.	76.	0.27
MILE 69.30	869.21	545625.	10.14	53801.	1963.	11.65	0.0340	0.	71.	0.34
MILE 67.20	866.93	543022.	6.61	82096.	5258.	11.25	0.0340	0.	76.	0.29
MILE 65.10	862.64	538828.	8.82	61087.	5886.	11.15	0.0320	0.	76.	0.48
MILE 63.00	861.31	535353.	5.08	105419.	3532.	9.47	0.0400	0.	80.	0.16
MILE 60.90	856.87	532840.	7.36	72442.	3264.	9.59	0.0450	0.	80.	0.28
MILE 58.80	849.23	530518.	8.58	61859.	2605.	8.96	0.0400	0.	76.	0.31
MILE 57.00	847.57	528724.	8.17	64744.	2754.	8.95	0.0200	0.	73.	0.30

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 564 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	55.00	845.02	526625.	9.63	54708.	2754.	8.90	0.0200	0.	72.	0.38
MILE	53.10	843.88	524472.	7.72	67968.	3268.	10.40	0.0200	0.	71.	0.30
MILE	51.00	842.51	521484.	8.07	64619.	4255.	10.62	0.0200	0.	73.	0.36
MILE	48.30	841.97	514732.	6.07	84860.	8744.	13.47	0.0200	0.	73.	0.34
MILE	46.20	841.34	507708.	6.60	76907.	8442.	12.66	0.0200	0.	80.	0.39
MILE	44.10	841.42	502614.	3.86	130258.	3720.	11.62	0.0300	0.	86.	0.11
MILE	43.70	839.71	502036.	10.68	46988.	3689.	14.86	0.0300	0.	87.	0.53
MILE	42.00	840.31	499582.	4.07	122796.	3735.	10.53	0.0300	0.	90.	0.13
MILE	39.10	838.35	495407.	7.55	65617.	3627.	14.08	0.0230	0.	87.	0.31
MILE	37.00	838.52	492923.	4.21	117084.	2417.	14.29	0.0280	0.	87.	0.11
MILE	36.00	837.56	492113.	7.74	63546.	1714.	14.63	0.0280	0.	89.	0.22
MILE	34.60	837.33	490962.	6.02	81581.	2512.	15.81	0.0280	0.	89.	0.19
MILE	33.60	837.68	489526.	2.57	190811.	4816.	15.54	0.0290	0.	95.	0.07
MILE	31.50	836.93	485989.	6.19	78561.	3759.	16.07	0.0250	0.	98.	0.24
MILE	30.10	836.70	484573.	5.57	86986.	1449.	15.24	0.0200	0.	96.	0.13
MILE	29.00	836.55	483798.	5.60	86368.	2165.	16.53	0.0200	0.	97.	0.16
MILE	27.30	836.33	482427.	5.67	85119.	1985.	17.06	0.0230	0.	99.	0.15
MILE	25.20	836.16	480843.	5.00	96212.	1911.	18.29	0.0230	0.	102.	0.12
MILE	23.10	835.80	479142.	5.56	86127.	2278.	16.81	0.0230	0.	106.	0.16

0DATE 10-26-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 14.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	899.26	558333.	13.00	42960.	1135.	10.76	0.0290	0.	81.	0.37
MILE	77.70	896.73	557229.	10.15	54897.	1385.	11.88	0.0400	0.	86.	0.28
MILE	75.60	888.31	555375.	11.56	48056.	3297.	10.94	0.0400	0.	82.	0.53
MILE	73.50	876.53	552997.	13.77	40173.	2482.	11.56	0.0330	0.	77.	0.60
MILE	71.40	873.97	551287.	8.57	64335.	2019.	12.90	0.0400	0.	76.	0.27
MILE	69.30	869.46	549729.	10.17	54060.	1972.	11.67	0.0340	0.	71.	0.34
MILE	67.20	867.17	547081.	6.63	82482.	5290.	11.27	0.0340	0.	76.	0.30
MILE	65.10	862.87	542807.	8.84	61373.	5919.	11.16	0.0320	0.	76.	0.48
MILE	63.00	861.55	539262.	5.08	106054.	3541.	9.49	0.0400	0.	81.	0.16
MILE	60.90	857.11	536697.	7.36	72948.	3275.	9.61	0.0450	0.	81.	0.27
MILE	58.80	849.49	534313.	8.58	62278.	2618.	8.97	0.0400	0.	76.	0.31
MILE	57.00	847.84	532454.	8.16	65213.	2768.	8.95	0.0200	0.	73.	0.30
MILE	55.00	845.28	530299.	9.63	55077.	2765.	8.90	0.0200	0.	72.	0.38
MILE	53.10	844.14	528095.	7.72	68366.	3280.	10.42	0.0200	0.	71.	0.30
MILE	51.00	842.77	525070.	8.08	64991.	4277.	10.64	0.0200	0.	73.	0.37
MILE	48.30	842.24	518222.	6.07	85310.	8789.	13.50	0.0200	0.	73.	0.34
MILE	46.20	841.61	511110.	6.61	77347.	8479.	12.68	0.0200	0.	80.	0.39
MILE	44.10	841.69	505957.	3.86	131036.	3729.	11.63	0.0300	0.	86.	0.11
MILE	43.70	839.97	505373.	10.71	47202.	3703.	14.89	0.0300	0.	87.	0.53
MILE	42.00	840.58	502894.	4.07	123609.	3748.	10.54	0.0300	0.	91.	0.12
MILE	39.10	838.62	498675.	7.56	65972.	3643.	14.10	0.0230	0.	88.	0.31
MILE	37.00	838.79	496169.	4.21	117805.	2425.	14.30	0.0280	0.	87.	0.11
MILE	36.00	837.83	495353.	7.76	63871.	1720.	14.66	0.0280	0.	89.	0.22

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 565 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 34.60	837.60	494195.	6.03	81953.	2520.	15.84	0.0280	0.	89.	0.19
MILE 33.60	837.95	492748.	2.57	191686.	4836.	15.58	0.0290	0.	95.	0.07
MILE 31.50	837.20	489187.	6.20	78924.	3775.	16.10	0.0250	0.	98.	0.24
MILE 30.10	836.98	487764.	5.58	87383.	1453.	15.26	0.0200	0.	96.	0.13
MILE 29.00	836.82	486985.	5.61	86783.	2175.	16.55	0.0200	0.	97.	0.16
MILE 27.30	836.60	485607.	5.68	85484.	1992.	17.09	0.0230	0.	99.	0.15
MILE 25.20	836.43	484014.	5.01	96560.	1917.	18.32	0.0230	0.	102.	0.12
MILE 23.10	836.06	482304.	5.58	86472.	2287.	16.84	0.0230	0.	106.	0.16

ODATE 10-26-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 15.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	899.55	562500.	13.01	43232.	1138.	10.77	0.0290	0.	81.	0.37
MILE 77.70	897.02	561397.	10.17	55228.	1389.	11.90	0.0400	0.	86.	0.28
MILE 75.60	888.58	559534.	11.57	48344.	3314.	10.95	0.0400	0.	82.	0.53
MILE 73.50	876.77	557137.	13.80	40369.	2494.	11.58	0.0330	0.	78.	0.60
MILE 71.40	874.21	555408.	8.58	64700.	2028.	12.93	0.0400	0.	76.	0.27
MILE 69.30	869.70	553831.	10.20	54322.	1982.	11.69	0.0340	0.	71.	0.34
MILE 67.20	867.41	551143.	6.65	82871.	5322.	11.29	0.0340	0.	77.	0.30
MILE 65.10	863.10	546805.	8.87	61663.	5953.	11.17	0.0320	0.	76.	0.49
MILE 63.00	861.79	543207.	5.09	106697.	3550.	9.51	0.0400	0.	81.	0.16
MILE 60.90	857.35	540604.	7.36	73465.	3286.	9.63	0.0450	0.	81.	0.27
MILE 58.80	849.75	538177.	8.58	62700.	2631.	8.98	0.0400	0.	77.	0.31
MILE 57.00	848.11	536286.	8.16	65689.	2782.	8.96	0.0200	0.	73.	0.30
MILE 55.00	845.55	534093.	9.63	55452.	2776.	8.90	0.0200	0.	72.	0.38
MILE 53.10	844.41	531861.	7.73	68769.	3291.	10.43	0.0200	0.	71.	0.30
MILE 51.00	843.04	528803.	8.09	65369.	4298.	10.66	0.0200	0.	74.	0.37
MILE 48.30	842.51	521865.	6.08	85766.	8834.	13.53	0.0200	0.	74.	0.34
MILE 46.20	841.88	514645.	6.62	77792.	8517.	12.70	0.0200	0.	80.	0.39
MILE 44.10	841.96	509421.	3.86	131827.	3738.	11.64	0.0300	0.	87.	0.11
MILE 43.70	840.23	508829.	10.73	47416.	3713.	14.91	0.0300	0.	87.	0.53
MILE 42.00	840.85	506328.	4.07	124433.	3760.	10.55	0.0300	0.	91.	0.12
MILE 39.10	838.89	502070.	7.57	66330.	3660.	14.13	0.0230	0.	88.	0.31
MILE 37.00	839.07	499544.	4.21	118532.	2433.	14.32	0.0280	0.	88.	0.11
MILE 36.00	838.10	498723.	7.77	64197.	1725.	14.68	0.0280	0.	89.	0.22
MILE 34.60	837.87	497560.	6.04	82327.	2529.	15.86	0.0280	0.	89.	0.19
MILE 33.60	838.22	496105.	2.58	192564.	4856.	15.62	0.0290	0.	95.	0.07
MILE 31.50	837.47	492525.	6.21	79289.	3791.	16.12	0.0250	0.	99.	0.24
MILE 30.10	837.25	491095.	5.59	87781.	1457.	15.29	0.0200	0.	96.	0.13
MILE 29.00	837.09	490313.	5.62	87198.	2184.	16.57	0.0200	0.	97.	0.16
MILE 27.30	836.87	488930.	5.70	85851.	2000.	17.11	0.0230	0.	100.	0.15
MILE 25.20	836.70	487332.	5.03	96908.	1924.	18.35	0.0230	0.	102.	0.12
MILE 23.10	836.33	485616.	5.59	86818.	2297.	16.87	0.0230	0.	106.	0.16

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 566 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

0DATE 10-26-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	16.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL
INFLOW	DEPTH	FROUDE							
MILE	79.80	899.83	566667.	13.03	43504.	1141.	10.78	0.0290	0. 81. 0.37
MILE	77.70	897.30	565565.	10.18	55560.	1392.	11.91	0.0400	0. 87. 0.28
MILE	75.60	888.85	563701.	11.59	48632.	3331.	10.96	0.0400	0. 82. 0.53
MILE	73.50	877.01	561292.	13.84	40567.	2505.	11.59	0.0330	0. 78. 0.61
MILE	71.40	874.46	559551.	8.60	65066.	2037.	12.95	0.0400	0. 77. 0.27
MILE	69.30	869.95	557961.	10.22	54586.	1991.	11.71	0.0340	0. 71. 0.34
MILE	67.20	867.66	555241.	6.67	83265.	5355.	11.31	0.0340	0. 77. 0.30
MILE	65.10	863.34	550845.	8.89	61959.	5987.	11.19	0.0320	0. 76. 0.49
MILE	63.00	862.03	547203.	5.10	107355.	3559.	9.53	0.0400	0. 81. 0.16
MILE	60.90	857.60	544567.	7.36	73996.	3298.	9.64	0.0450	0. 81. 0.27
MILE	58.80	850.01	542086.	8.59	63120.	2644.	8.99	0.0400	0. 77. 0.31
MILE	57.00	848.37	540187.	8.16	66167.	2795.	8.96	0.0200	0. 74. 0.30
MILE	55.00	845.81	537968.	9.64	55831.	2788.	8.90	0.0200	0. 72. 0.38
MILE	53.10	844.68	535700.	7.74	69175.	3303.	10.45	0.0200	0. 71. 0.30
MILE	51.00	843.31	532587.	8.10	65749.	4320.	10.68	0.0200	0. 74. 0.37
MILE	48.30	842.78	525557.	6.10	86226.	8880.	13.57	0.0200	0. 74. 0.34
MILE	46.20	842.15	518254.	6.62	78242.	8555.	12.72	0.0200	0. 80. 0.39
MILE	44.10	842.23	512980.	3.87	132627.	3747.	11.64	0.0300	0. 87. 0.11
MILE	43.70	840.49	512383.	10.76	47632.	3722.	14.94	0.0300	0. 87. 0.53
MILE	42.00	841.13	509867.	4.07	125266.	3773.	10.55	0.0300	0. 91. 0.12
MILE	39.10	839.17	505578.	7.58	66689.	3676.	14.15	0.0230	0. 88. 0.31
MILE	37.00	839.34	503039.	4.22	119264.	2442.	14.34	0.0280	0. 88. 0.11
MILE	36.00	838.37	502214.	7.78	64524.	1731.	14.71	0.0280	0. 89. 0.22
MILE	34.60	838.14	501047.	6.06	82701.	2537.	15.89	0.0280	0. 90. 0.19
MILE	33.60	838.50	499585.	2.58	193445.	4876.	15.65	0.0290	0. 96. 0.07
MILE	31.50	837.74	495985.	6.23	79655.	3807.	16.15	0.0250	0. 99. 0.24
MILE	30.10	837.52	494549.	5.61	88181.	1461.	15.31	0.0200	0. 97. 0.13
MILE	29.00	837.36	493764.	5.64	87615.	2193.	16.59	0.0200	0. 98. 0.16
MILE	27.30	837.14	492374.	5.71	86218.	2007.	17.13	0.0230	0. 100. 0.15
MILE	25.20	836.97	490770.	5.05	97256.	1930.	18.38	0.0230	0. 102. 0.13
MILE	23.10	836.60	489047.	5.61	87164.	2306.	16.90	0.0230	0. 107. 0.16

0DATE 10-26-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	17.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL
INFLOW	DEPTH	FROUDE							
MILE	79.80	900.11	570833.	13.04	43761.	1143.	10.79	0.0290	0. 81. 0.37
MILE	77.70	897.58	569737.	10.19	55892.	1395.	11.92	0.0400	0. 87. 0.28
MILE	75.60	889.12	567870.	11.61	48922.	3348.	10.97	0.0400	0. 83. 0.54
MILE	73.50	877.25	565443.	13.87	40767.	2517.	11.61	0.0330	0. 78. 0.61
MILE	71.40	874.71	563677.	8.61	65436.	2046.	12.98	0.0400	0. 77. 0.27

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 567 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	69.30	870.20	562062.	10.25	54845.	2000.	11.73	0.0340	0.	71.	0.34
MILE	67.20	867.90	559306.	6.69	83664.	5388.	11.34	0.0340	0.	77.	0.30
MILE	65.10	863.58	554841.	8.91	62258.	6021.	11.20	0.0320	0.	77.	0.49
MILE	63.00	862.28	551127.	5.10	108019.	3569.	9.55	0.0400	0.	81.	0.16
MILE	60.90	857.86	548432.	7.36	74535.	3309.	9.66	0.0450	0.	81.	0.27
MILE	58.80	850.28	545886.	8.60	63508.	2657.	9.00	0.0400	0.	77.	0.31
MILE	57.00	848.64	543983.	8.16	66654.	2809.	8.97	0.0200	0.	74.	0.30
MILE	55.00	846.08	541773.	9.64	56217.	2799.	8.89	0.0200	0.	73.	0.38
MILE	53.10	844.94	539504.	7.75	69586.	3315.	10.47	0.0200	0.	72.	0.30
MILE	51.00	843.58	536380.	8.11	66133.	4341.	10.70	0.0200	0.	74.	0.37
MILE	48.30	843.05	529305.	6.11	86687.	8925.	13.60	0.0200	0.	74.	0.35
MILE	46.20	842.42	521949.	6.63	78695.	8592.	12.74	0.0200	0.	81.	0.39
MILE	44.10	842.50	516637.	3.87	133433.	3757.	11.65	0.0300	0.	87.	0.11
MILE	43.70	840.76	516037.	10.79	47847.	3731.	14.97	0.0300	0.	88.	0.53
MILE	42.00	841.40	513505.	4.07	126107.	3786.	10.56	0.0300	0.	91.	0.12
MILE	39.10	839.44	509180.	7.59	67050.	3693.	14.18	0.0230	0.	88.	0.31
MILE	37.00	839.62	506622.	4.22	119999.	2450.	14.36	0.0280	0.	88.	0.11
MILE	36.00	838.65	505793.	7.80	64852.	1736.	14.74	0.0280	0.	90.	0.22
MILE	34.60	838.42	504618.	6.07	83077.	2546.	15.92	0.0280	0.	90.	0.19
MILE	33.60	838.77	503147.	2.59	194327.	4896.	15.69	0.0290	0.	96.	0.07
MILE	31.50	838.01	499522.	6.24	80021.	3823.	16.17	0.0250	0.	99.	0.24
MILE	30.10	837.79	498078.	5.62	88581.	1465.	15.34	0.0200	0.	97.	0.13
MILE	29.00	837.63	497289.	5.65	88034.	2202.	16.61	0.0200	0.	98.	0.16
MILE	27.30	837.41	495892.	5.73	86586.	2014.	17.16	0.0230	0.	100.	0.15
MILE	25.20	837.24	494281.	5.06	97605.	1937.	18.42	0.0230	0.	103.	0.13
MILE	23.10	836.87	492551.	5.63	87510.	2316.	16.92	0.0230	0.	107.	0.16

0DATE 10-26-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 18.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE	79.80	900.39	575000.	13.07	43996.	1145.	10.80	0.0290	0.	82.	0.37
MILE	77.70	897.87	573904.	10.21	56227.	1398.	11.93	0.0400	0.	87.	0.28
MILE	75.60	889.39	572030.	11.62	49213.	3365.	10.98	0.0400	0.	83.	0.54
MILE	73.50	877.50	569585.	13.90	40968.	2529.	11.62	0.0330	0.	78.	0.61
MILE	71.40	874.96	567800.	8.63	65807.	2055.	13.01	0.0400	0.	77.	0.27
MILE	69.30	870.44	566166.	10.27	55104.	2010.	11.74	0.0340	0.	72.	0.35
MILE	67.20	868.15	563372.	6.70	84064.	5421.	11.36	0.0340	0.	77.	0.30
MILE	65.10	863.82	558841.	8.93	62560.	6056.	11.22	0.0320	0.	77.	0.49
MILE	63.00	862.52	555081.	5.11	108690.	3578.	9.57	0.0400	0.	82.	0.16
MILE	60.90	858.11	552357.	7.36	75080.	3321.	9.67	0.0450	0.	82.	0.27
MILE	58.80	850.54	549789.	8.60	63902.	2669.	9.00	0.0400	0.	77.	0.31
MILE	57.00	848.91	547865.	8.16	67150.	2823.	8.97	0.0200	0.	74.	0.29
MILE	55.00	846.35	545620.	9.64	56611.	2810.	8.89	0.0200	0.	73.	0.38
MILE	53.10	845.21	543336.	7.76	69983.	3326.	10.48	0.0200	0.	72.	0.30
MILE	51.00	843.85	540179.	8.12	66520.	4363.	10.73	0.0200	0.	75.	0.37
MILE	48.30	843.32	533052.	6.12	87151.	8971.	13.63	0.0200	0.	74.	0.35

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	46.20	842.69	525655.	6.64	79151.	8631.	12.76	0.0200	0.	81.	0.39
MILE	44.10	842.77	520317.	3.88	134246.	3766.	11.66	0.0300	0.	88.	0.11
MILE	43.70	841.02	519714.	10.81	48064.	3740.	15.00	0.0300	0.	88.	0.53
MILE	42.00	841.68	517169.	4.07	126955.	3799.	10.57	0.0300	0.	92.	0.12
MILE	39.10	839.71	512829.	7.61	67410.	3710.	14.20	0.0230	0.	89.	0.31
MILE	37.00	839.89	510258.	4.23	120735.	2459.	14.37	0.0280	0.	89.	0.11
MILE	36.00	838.92	509425.	7.82	65180.	1741.	14.76	0.0280	0.	90.	0.23
MILE	34.60	838.69	508245.	6.09	83452.	2554.	15.95	0.0280	0.	90.	0.19
MILE	33.60	839.04	506767.	2.60	195208.	4917.	15.72	0.0290	0.	96.	0.07
MILE	31.50	838.29	503122.	6.26	80388.	3839.	16.20	0.0250	0.	99.	0.24
MILE	30.10	838.06	501669.	5.64	88982.	1469.	15.36	0.0200	0.	97.	0.13
MILE	29.00	837.90	500875.	5.66	88452.	2212.	16.62	0.0200	0.	98.	0.16
MILE	27.30	837.68	499467.	5.74	86955.	2022.	17.18	0.0230	0.	101.	0.15
MILE	25.20	837.51	497845.	5.08	97954.	1943.	18.45	0.0230	0.	103.	0.13
MILE	23.10	837.13	496102.	5.65	87857.	2325.	16.95	0.0230	0.	107.	0.16

ODATE 10-26-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 19.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	900.67	579167.	13.09	44233.	1148.	10.80	0.0290	0.	82.	0.37
MILE	77.70	898.15	578072.	10.22	56562.	1401.	11.94	0.0400	0.	87.	0.28
MILE	75.60	889.66	576192.	11.64	49506.	3382.	11.00	0.0400	0.	83.	0.54
MILE	73.50	877.74	573732.	13.94	41169.	2541.	11.64	0.0330	0.	79.	0.61
MILE	71.40	875.21	571934.	8.64	66180.	2064.	13.03	0.0400	0.	77.	0.27
MILE	69.30	870.69	570286.	10.30	55365.	2020.	11.76	0.0340	0.	72.	0.35
MILE	67.20	868.40	567460.	6.72	84468.	5454.	11.38	0.0340	0.	78.	0.30
MILE	65.10	864.05	562885.	8.95	62864.	6091.	11.23	0.0320	0.	77.	0.49
MILE	63.00	862.77	559093.	5.11	109366.	3587.	9.60	0.0400	0.	82.	0.16
MILE	60.90	858.37	556351.	7.36	75631.	3333.	9.69	0.0450	0.	82.	0.27
MILE	58.80	850.81	553766.	8.61	64303.	2682.	9.01	0.0400	0.	78.	0.31
MILE	57.00	849.19	551822.	8.16	67655.	2838.	8.98	0.0200	0.	74.	0.29
MILE	55.00	846.63	549564.	9.64	57014.	2822.	8.89	0.0200	0.	73.	0.38
MILE	53.10	845.48	547258.	7.78	70379.	3338.	10.50	0.0200	0.	72.	0.30
MILE	51.00	844.12	544084.	8.13	66910.	4385.	10.75	0.0200	0.	75.	0.37
MILE	48.30	843.59	536889.	6.13	87618.	9018.	13.67	0.0200	0.	75.	0.35
MILE	46.20	842.97	529424.	6.65	79610.	8669.	12.78	0.0200	0.	81.	0.39
MILE	44.10	843.05	524041.	3.88	135067.	3775.	11.67	0.0300	0.	88.	0.11
MILE	43.70	841.29	523433.	10.84	48282.	3749.	15.02	0.0300	0.	88.	0.53
MILE	42.00	841.95	520872.	4.08	127812.	3812.	10.58	0.0300	0.	92.	0.12
MILE	39.10	839.99	516498.	7.62	67773.	3726.	14.23	0.0230	0.	89.	0.31
MILE	37.00	840.17	513906.	4.23	121457.	2467.	14.39	0.0280	0.	89.	0.11
MILE	36.00	839.19	513069.	7.83	65510.	1747.	14.79	0.0280	0.	90.	0.23
MILE	34.60	838.96	511883.	6.11	83829.	2563.	15.97	0.0280	0.	90.	0.19
MILE	33.60	839.32	510399.	2.60	196093.	4937.	15.76	0.0290	0.	96.	0.07
MILE	31.50	838.56	506736.	6.27	80756.	3854.	16.22	0.0250	0.	100.	0.24
MILE	30.10	838.33	505278.	5.65	89384.	1473.	15.39	0.0200	0.	98.	0.13

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Appendix E		Checked	ACM

MILE	29.00	838.18	504482.	5.68	88873.	2221.	16.64	0.0200	0.	98.	0.16
MILE	27.30	837.95	503071.	5.76	87324.	2029.	17.21	0.0230	0.	101.	0.15
MILE	25.20	837.78	501445.	5.10	98304.	1950.	18.48	0.0230	0.	103.	0.13
MILE	23.10	837.40	499698.	5.67	88204.	2335.	16.98	0.0230	0.	107.	0.16

0DATE 10-26-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	20.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
INFLOW	DEPTH	FROUDE									
MILE	79.80	900.95	583333.	13.12	44470.	1150.	10.81	0.0290	0.	82.	0.37
MILE	77.70	898.43	582242.	10.23	56897.	1404.	11.95	0.0400	0.	88.	0.28
MILE	75.60	889.93	580361.	11.65	49799.	3398.	11.01	0.0400	0.	83.	0.54
MILE	73.50	877.98	577892.	13.97	41372.	2553.	11.65	0.0330	0.	79.	0.61
MILE	71.40	875.46	576083.	8.66	66555.	2073.	13.06	0.0400	0.	78.	0.27
MILE	69.30	870.94	574426.	10.33	55628.	2029.	11.78	0.0340	0.	72.	0.35
MILE	67.20	868.65	571578.	6.73	84874.	5487.	11.40	0.0340	0.	78.	0.30
MILE	65.10	864.29	566964.	8.98	63170.	6126.	11.25	0.0320	0.	77.	0.49
MILE	63.00	863.02	563147.	5.12	110046.	3597.	9.62	0.0400	0.	82.	0.16
MILE	60.90	858.62	560392.	7.36	76187.	3345.	9.71	0.0450	0.	82.	0.27
MILE	58.80	851.08	557792.	8.62	64708.	2695.	9.02	0.0400	0.	78.	0.31
MILE	57.00	849.46	555833.	8.15	68166.	2852.	8.99	0.0200	0.	75.	0.29
MILE	55.00	846.90	553558.	9.64	57423.	2834.	8.90	0.0200	0.	73.	0.38
MILE	53.10	845.75	551232.	7.79	70778.	3350.	10.51	0.0200	0.	72.	0.30
MILE	51.00	844.39	548029.	8.14	67303.	4407.	10.77	0.0200	0.	75.	0.37
MILE	48.30	843.87	540764.	6.14	88088.	9064.	13.70	0.0200	0.	75.	0.35
MILE	46.20	843.24	533233.	6.66	80074.	8707.	12.80	0.0200	0.	81.	0.39
MILE	44.10	843.32	527813.	3.88	135896.	3784.	11.68	0.0300	0.	88.	0.11
MILE	43.70	841.55	527205.	10.87	48501.	3758.	15.05	0.0300	0.	89.	0.53
MILE	42.00	842.23	524629.	4.08	128676.	3825.	10.59	0.0300	0.	92.	0.12
MILE	39.10	840.26	520228.	7.64	68132.	3741.	14.25	0.0230	0.	89.	0.32
MILE	37.00	840.45	517625.	4.24	122169.	2474.	14.41	0.0280	0.	89.	0.11
MILE	36.00	839.46	516785.	7.85	65840.	1752.	14.82	0.0280	0.	90.	0.23
MILE	34.60	839.23	515595.	6.12	84207.	2571.	16.00	0.0280	0.	91.	0.19
MILE	33.60	839.59	514102.	2.61	196980.	4957.	15.80	0.0290	0.	97.	0.07
MILE	31.50	838.83	510422.	6.29	81126.	3870.	16.25	0.0250	0.	100.	0.24
MILE	30.10	838.60	508958.	5.67	89787.	1477.	15.41	0.0200	0.	98.	0.13
MILE	29.00	838.45	508158.	5.69	89295.	2230.	16.66	0.0200	0.	99.	0.16
MILE	27.30	838.22	506742.	5.78	87694.	2037.	17.23	0.0230	0.	101.	0.16
MILE	25.20	838.05	505110.	5.12	98654.	1957.	18.51	0.0230	0.	104.	0.13
MILE	23.10	837.67	503358.	5.68	88552.	2345.	17.01	0.0230	0.	108.	0.16

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

	TIME 21.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
	INFLOW DEPTH	FROUDE									
MILE	79.80	901.23	587500.	13.14	44712.	1153.	10.82	0.0290	0.	83.	0.37
MILE	77.70	898.71	586377.	10.24	57237.	1407.	11.96	0.0400	0.	88.	0.28
MILE	75.60	890.20	584413.	11.67	50078.	3415.	11.01	0.0400	0.	84.	0.54
MILE	73.50	878.22	581994.	14.00	41577.	2565.	11.67	0.0330	0.	79.	0.61
MILE	71.40	875.71	580199.	8.67	66931.	2083.	13.08	0.0400	0.	78.	0.27
MILE	69.30	871.19	578545.	10.35	55891.	2039.	11.80	0.0340	0.	72.	0.35
MILE	67.20	868.90	575690.	6.75	85282.	5520.	11.42	0.0340	0.	78.	0.30
MILE	65.10	864.53	571059.	9.00	63477.	6160.	11.26	0.0320	0.	78.	0.49
MILE	63.00	863.27	567230.	5.12	110730.	3606.	9.64	0.0400	0.	82.	0.16
MILE	60.90	858.88	564467.	7.36	76746.	3357.	9.73	0.0450	0.	82.	0.27
MILE	58.80	851.35	561858.	8.63	65118.	2709.	9.02	0.0400	0.	78.	0.31
MILE	57.00	849.73	559884.	8.15	68683.	2866.	8.99	0.0200	0.	75.	0.29
MILE	55.00	847.18	557593.	9.64	57837.	2845.	8.90	0.0200	0.	74.	0.38
MILE	53.10	846.03	555249.	7.80	71181.	3362.	10.53	0.0200	0.	73.	0.30
MILE	51.00	844.66	552022.	8.15	67699.	4429.	10.79	0.0200	0.	75.	0.37
MILE	48.30	844.14	544699.	6.15	88560.	9111.	13.74	0.0200	0.	75.	0.35
MILE	46.20	843.52	537109.	6.67	80540.	8746.	12.82	0.0200	0.	82.	0.39
MILE	44.10	843.60	531653.	3.89	136733.	3793.	11.69	0.0300	0.	88.	0.11
MILE	43.70	841.82	531042.	10.90	48721.	3767.	15.08	0.0300	0.	89.	0.53
MILE	42.00	842.51	528453.	4.08	129548.	3839.	10.60	0.0300	0.	93.	0.12
MILE	39.10	840.53	524026.	7.65	68493.	3755.	14.27	0.0230	0.	90.	0.32
MILE	37.00	840.72	521409.	4.24	122885.	2482.	14.42	0.0280	0.	89.	0.11
MILE	36.00	839.74	520564.	7.87	66172.	1758.	14.84	0.0280	0.	91.	0.23
MILE	34.60	839.51	519370.	6.14	84586.	2580.	16.03	0.0280	0.	91.	0.19
MILE	33.60	839.87	517871.	2.62	197869.	4977.	15.83	0.0290	0.	97.	0.07
MILE	31.50	839.10	514168.	6.31	81496.	3886.	16.27	0.0250	0.	100.	0.24
MILE	30.10	838.87	512699.	5.68	90191.	1481.	15.44	0.0200	0.	98.	0.13
MILE	29.00	838.72	511897.	5.71	89718.	2239.	16.68	0.0200	0.	99.	0.16
MILE	27.30	838.49	510474.	5.80	88066.	2044.	17.25	0.0230	0.	101.	0.16
MILE	25.20	838.31	508835.	5.14	99004.	1963.	18.54	0.0230	0.	104.	0.13
MILE	23.10	837.94	507073.	5.70	88901.	2354.	17.03	0.0230	0.	108.	0.16

ODATE 10-26-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 22.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
	INFLOW DEPTH	FROUDE									
MILE	79.80	901.51	591667.	13.16	44958.	1155.	10.82	0.0290	0.	83.	0.37
MILE	77.70	899.00	590545.	10.26	57584.	1410.	11.98	0.0400	0.	88.	0.28
MILE	75.60	890.47	588578.	11.69	50358.	3433.	11.02	0.0400	0.	84.	0.54
MILE	73.50	878.47	586150.	14.03	41785.	2577.	11.68	0.0330	0.	79.	0.61
MILE	71.40	875.97	584347.	8.68	67312.	2092.	13.11	0.0400	0.	78.	0.27
MILE	69.30	871.44	582688.	10.38	56157.	2048.	11.82	0.0340	0.	73.	0.35
MILE	67.20	869.15	579819.	6.77	85692.	5553.	11.45	0.0340	0.	78.	0.30
MILE	65.10	864.77	575167.	9.02	63786.	6195.	11.28	0.0320	0.	78.	0.50

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	63.00	863.52	571328.	5.13	111416.	3615.	9.66	0.0400	0.	83.	0.16
MILE	60.90	859.14	568562.	7.35	77308.	3368.	9.74	0.0450	0.	83.	0.27
MILE	58.80	851.62	565949.	8.64	65530.	2722.	9.03	0.0400	0.	79.	0.31
MILE	57.00	850.01	563948.	8.15	69202.	2880.	9.00	0.0200	0.	75.	0.29
MILE	55.00	847.46	561659.	9.64	58257.	2857.	8.90	0.0200	0.	74.	0.38
MILE	53.10	846.30	559301.	7.81	71588.	3373.	10.54	0.0200	0.	73.	0.30
MILE	51.00	844.94	556051.	8.17	68097.	4451.	10.81	0.0200	0.	76.	0.37
MILE	48.30	844.42	548674.	6.16	89034.	9157.	13.77	0.0200	0.	75.	0.35
MILE	46.20	843.79	541032.	6.68	81009.	8784.	12.83	0.0200	0.	82.	0.39
MILE	44.10	843.88	535545.	3.89	137576.	3803.	11.70	0.0300	0.	89.	0.11
MILE	43.70	842.09	534931.	10.93	48941.	3776.	15.10	0.0300	0.	89.	0.53
MILE	42.00	842.78	532330.	4.08	130428.	3852.	10.61	0.0300	0.	93.	0.12
MILE	39.10	840.81	527879.	7.67	68855.	3770.	14.30	0.0230	0.	90.	0.32
MILE	37.00	841.00	525250.	4.25	123604.	2489.	14.44	0.0280	0.	90.	0.11
MILE	36.00	840.01	524399.	7.89	66505.	1763.	14.87	0.0280	0.	91.	0.23
MILE	34.60	839.78	523200.	6.16	84966.	2588.	16.06	0.0280	0.	91.	0.19
MILE	33.60	840.15	521695.	2.62	198756.	4997.	15.87	0.0290	0.	97.	0.07
MILE	31.50	839.37	517974.	6.33	81867.	3902.	16.29	0.0250	0.	101.	0.24
MILE	30.10	839.15	516499.	5.70	90597.	1485.	15.46	0.0200	0.	98.	0.13
MILE	29.00	838.99	515693.	5.72	90142.	2249.	16.70	0.0200	0.	99.	0.16
MILE	27.30	838.76	514265.	5.82	88438.	2052.	17.28	0.0230	0.	102.	0.16
MILE	25.20	838.58	512622.	5.16	99355.	1970.	18.57	0.0230	0.	104.	0.13
MILE	23.10	838.20	510857.	5.72	89249.	2364.	17.06	0.0230	0.	108.	0.16

0DATE 10-26-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 23.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	901.79	595833.	13.18	45205.	1158.	10.83	0.0290	0.	83.	0.37
MILE	77.70	899.28	594720.	10.27	57928.	1413.	11.99	0.0400	0.	89.	0.28
MILE	75.60	890.75	592752.	11.71	50638.	3450.	11.02	0.0400	0.	84.	0.54
MILE	73.50	878.72	590321.	14.06	41995.	2589.	11.70	0.0330	0.	80.	0.62
MILE	71.40	876.22	588516.	8.69	67694.	2101.	13.14	0.0400	0.	78.	0.27
MILE	69.30	871.70	586855.	10.40	56424.	2058.	11.84	0.0340	0.	73.	0.35
MILE	67.20	869.40	583974.	6.78	86104.	5587.	11.47	0.0340	0.	79.	0.30
MILE	65.10	865.02	579291.	9.04	64096.	6230.	11.29	0.0320	0.	78.	0.50
MILE	63.00	863.77	575441.	5.13	112108.	3625.	9.69	0.0400	0.	83.	0.16
MILE	60.90	859.40	572660.	7.35	77876.	3380.	9.76	0.0450	0.	83.	0.27
MILE	58.80	851.89	570018.	8.64	65950.	2735.	9.04	0.0400	0.	79.	0.31
MILE	57.00	850.28	568003.	8.15	69668.	2895.	9.00	0.0200	0.	75.	0.29
MILE	55.00	847.73	565684.	9.64	58681.	2869.	8.90	0.0200	0.	74.	0.38
MILE	53.10	846.57	563309.	7.82	71996.	3385.	10.56	0.0200	0.	73.	0.30
MILE	51.00	845.21	560033.	8.18	68491.	4473.	10.84	0.0200	0.	76.	0.37
MILE	48.30	844.69	552617.	6.17	89509.	9204.	13.80	0.0200	0.	76.	0.35
MILE	46.20	844.07	544956.	6.69	81481.	8823.	12.85	0.0200	0.	82.	0.39
MILE	44.10	844.16	539455.	3.90	138424.	3812.	11.71	0.0300	0.	89.	0.11
MILE	43.70	842.36	538841.	10.96	49162.	3785.	15.13	0.0300	0.	89.	0.54

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 572 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	42.00	843.06	536234.	4.08	131314.	3865.	10.62	0.0300	0.	93.	0.12
MILE	39.10	841.08	531768.	7.68	69218.	3785.	14.32	0.0230	0.	90.	0.32
MILE	37.00	841.28	529128.	4.26	124326.	2497.	14.46	0.0280	0.	90.	0.11
MILE	36.00	840.28	528275.	7.90	66834.	1771.	14.89	0.0280	0.	91.	0.23
MILE	34.60	840.05	527071.	6.18	85346.	2597.	16.08	0.0280	0.	92.	0.19
MILE	33.60	840.42	525559.	2.63	199642.	5015.	15.90	0.0290	0.	98.	0.07
MILE	31.50	839.65	521828.	6.35	82240.	3918.	16.32	0.0250	0.	101.	0.24
MILE	30.10	839.42	520348.	5.72	91003.	1489.	15.49	0.0200	0.	99.	0.13
MILE	29.00	839.26	519540.	5.74	90567.	2258.	16.72	0.0200	0.	100.	0.16
MILE	27.30	839.03	518107.	5.83	88810.	2059.	17.30	0.0230	0.	102.	0.16
MILE	25.20	838.85	516458.	5.18	99706.	1976.	18.61	0.0230	0.	104.	0.13
MILE	23.10	838.47	514686.	5.74	89599.	2373.	17.09	0.0230	0.	108.	0.16

0DATE 10-27-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 0.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	902.08	600000.	13.20	45452.	1160.	10.84	0.0290	0.	83.	0.37
MILE	77.70	899.56	598891.	10.28	58270.	1416.	12.00	0.0400	0.	89.	0.28
MILE	75.60	891.02	596924.	11.72	50918.	3467.	11.03	0.0400	0.	85.	0.54
MILE	73.50	878.96	594487.	14.09	42204.	2601.	11.71	0.0330	0.	80.	0.62
MILE	71.40	876.48	592674.	8.71	68077.	2110.	13.16	0.0400	0.	79.	0.27
MILE	69.30	871.95	591004.	10.42	56692.	2068.	11.86	0.0340	0.	73.	0.35
MILE	67.20	869.66	588101.	6.80	86519.	5620.	11.49	0.0340	0.	79.	0.31
MILE	65.10	865.26	583388.	9.06	64399.	6265.	11.30	0.0320	0.	78.	0.50
MILE	63.00	864.02	579540.	5.14	112804.	3634.	9.71	0.0400	0.	83.	0.16
MILE	60.90	859.65	576766.	7.35	78449.	3392.	9.78	0.0450	0.	83.	0.27
MILE	58.80	852.16	574125.	8.65	66375.	2748.	9.05	0.0400	0.	79.	0.31
MILE	57.00	850.56	572102.	8.16	70137.	2909.	9.00	0.0200	0.	76.	0.29
MILE	55.00	848.01	569774.	9.64	59109.	2881.	8.90	0.0200	0.	75.	0.38
MILE	53.10	846.85	567390.	7.84	72407.	3397.	10.57	0.0200	0.	74.	0.30
MILE	51.00	845.49	564100.	8.19	68884.	4495.	10.86	0.0200	0.	76.	0.37
MILE	48.30	844.97	556642.	6.19	89986.	9251.	13.84	0.0200	0.	76.	0.35
MILE	46.20	844.35	548925.	6.70	81954.	8862.	12.87	0.0200	0.	83.	0.39
MILE	44.10	844.43	543392.	3.90	139278.	3821.	11.72	0.0300	0.	89.	0.11
MILE	43.70	842.62	542775.	10.99	49383.	3794.	15.16	0.0300	0.	90.	0.54
MILE	42.00	843.34	540157.	4.09	132206.	3878.	10.63	0.0300	0.	93.	0.12
MILE	39.10	841.36	535670.	7.70	69583.	3799.	14.34	0.0230	0.	90.	0.32
MILE	37.00	841.55	533021.	4.26	125051.	2504.	14.47	0.0280	0.	90.	0.11
MILE	36.00	840.56	532164.	7.92	67164.	1778.	14.92	0.0280	0.	92.	0.23
MILE	34.60	840.33	530958.	6.19	85725.	2606.	16.11	0.0280	0.	92.	0.19
MILE	33.60	840.70	529442.	2.64	200529.	5034.	15.94	0.0290	0.	98.	0.07
MILE	31.50	839.92	525698.	6.36	82612.	3934.	16.34	0.0250	0.	101.	0.24
MILE	30.10	839.69	524213.	5.73	91410.	1493.	15.51	0.0200	0.	99.	0.13
MILE	29.00	839.53	523402.	5.75	90994.	2267.	16.74	0.0200	0.	100.	0.16
MILE	27.30	839.30	521964.	5.85	89184.	2067.	17.33	0.0230	0.	102.	0.16
MILE	25.20	839.12	520311.	5.20	100057.	1983.	18.64	0.0230	0.	105.	0.13

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Subject: SOCH Model Calibration, Melton Hill			Prepped
Appendix E			Checked
			JAW
			ACM

MILE 23.10 838.74 518533. 5.76 89949. 2383. 17.11 0.0230 0. 109. 0.17

0DATE 10-27-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	1.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL
INFLOW	DEPTH	FROUDE								
MILE	79.80	902.22	600000.	13.16	45581.	1162.	10.84	0.0290	0.	84. 0.37
MILE	77.70	899.72	599600.	10.26	58467.	1418.	12.01	0.0400	0.	89. 0.28
MILE	75.60	891.22	598714.	11.71	51125.	3480.	11.03	0.0400	0.	85. 0.54
MILE	73.50	879.18	597218.	14.09	42389.	2612.	11.73	0.0330	0.	80. 0.62
MILE	71.40	876.71	595816.	8.71	68427.	2119.	13.19	0.0400	0.	79. 0.27
MILE	69.30	872.19	594430.	10.44	56949.	2077.	11.88	0.0340	0.	73. 0.35
MILE	67.20	869.90	591769.	6.81	86925.	5653.	11.51	0.0340	0.	79. 0.31
MILE	65.10	865.50	587331.	9.08	64701.	6300.	11.32	0.0320	0.	78. 0.50
MILE	63.00	864.27	583591.	5.14	113500.	3644.	9.73	0.0400	0.	83. 0.16
MILE	60.90	859.91	580871.	7.35	79023.	3404.	9.79	0.0450	0.	83. 0.27
MILE	58.80	852.43	578248.	8.66	66803.	2761.	9.05	0.0400	0.	79. 0.31
MILE	57.00	850.83	576221.	8.16	70611.	2923.	9.01	0.0200	0.	76. 0.29
MILE	55.00	848.29	573886.	9.64	59542.	2892.	8.91	0.0200	0.	75. 0.37
MILE	53.10	847.12	571490.	7.85	72820.	3409.	10.59	0.0200	0.	74. 0.30
MILE	51.00	845.76	568181.	8.20	69279.	4518.	10.88	0.0200	0.	76. 0.37
MILE	48.30	845.24	560682.	6.20	90459.	9297.	13.87	0.0200	0.	76. 0.35
MILE	46.20	844.62	552926.	6.71	82429.	8900.	12.89	0.0200	0.	83. 0.39
MILE	44.10	844.71	547435.	3.91	140135.	3830.	11.73	0.0300	0.	90. 0.11
MILE	43.70	842.89	546841.	11.02	49604.	3803.	15.19	0.0300	0.	90. 0.54
MILE	42.00	843.61	544571.	4.09	133087.	3891.	10.64	0.0300	0.	94. 0.12
MILE	39.10	841.61	541397.	7.74	69912.	3813.	14.36	0.0230	0.	91. 0.32
MILE	37.00	841.79	540441.	4.30	125663.	2511.	14.49	0.0280	0.	90. 0.11
MILE	36.00	840.76	540152.	8.01	67411.	1784.	14.94	0.0280	0.	92. 0.23
MILE	34.60	840.51	539905.	6.28	85982.	2612.	16.13	0.0280	0.	92. 0.19
MILE	33.60	840.89	539491.	2.68	201147.	5047.	15.96	0.0290	0.	98. 0.07
MILE	31.50	840.07	538506.	6.50	82816.	3943.	16.36	0.0250	0.	101. 0.25
MILE	30.10	839.82	538277.	5.88	91599.	1495.	15.52	0.0200	0.	99. 0.13
MILE	29.00	839.64	538241.	5.90	91165.	2271.	16.75	0.0200	0.	100. 0.16
MILE	27.30	839.37	538411.	6.03	89290.	2069.	17.33	0.0230	0.	102. 0.16
MILE	25.20	839.17	538578.	5.38	100118.	1984.	18.64	0.0230	0.	105. 0.13
MILE	23.10	838.74	538547.	5.99	89949.	2383.	17.11	0.0230	0.	109. 0.17

0DATE 10-27-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	2.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL
INFLOW	DEPTH	FROUDE								
MILE	79.80	902.30	600000.	13.14	45648.	1162.	10.84	0.0290	0.	84. 0.37

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 574 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 77.70	899.80	599750.	10.24	58568.	1419.	12.01	0.0400	0.	89.	0.28
MILE 75.60	891.33	599184.	11.69	51241.	3487.	11.03	0.0400	0.	85.	0.54
MILE 73.50	879.33	598141.	14.07	42521.	2619.	11.74	0.0330	0.	80.	0.62
MILE 71.40	876.88	597063.	8.69	68686.	2125.	13.21	0.0400	0.	79.	0.27
MILE 69.30	872.38	595962.	10.43	57157.	2085.	11.90	0.0340	0.	74.	0.35
MILE 67.20	870.11	593734.	6.80	87263.	5681.	11.53	0.0340	0.	79.	0.31
MILE 65.10	865.72	589959.	9.08	64975.	6332.	11.33	0.0320	0.	79.	0.50
MILE 63.00	864.50	586680.	5.14	114138.	3652.	9.75	0.0400	0.	83.	0.16
MILE 60.90	860.15	584253.	7.35	79509.	3414.	9.81	0.0450	0.	84.	0.27
MILE 58.80	852.70	581908.	8.66	67220.	2774.	9.06	0.0400	0.	80.	0.31
MILE 57.00	851.09	579987.	8.16	71077.	2937.	9.01	0.0200	0.	76.	0.29
MILE 55.00	848.56	577783.	9.63	59970.	2904.	8.91	0.0200	0.	75.	0.37
MILE 53.10	847.39	575605.	7.86	73223.	3421.	10.61	0.0200	0.	74.	0.30
MILE 51.00	846.02	572786.	8.22	69654.	4539.	10.89	0.0200	0.	77.	0.37
MILE 48.30	845.49	567209.	6.24	90881.	9339.	13.90	0.0200	0.	77.	0.35
MILE 46.20	844.85	561606.	6.78	82815.	8932.	12.91	0.0200	0.	83.	0.39
MILE 44.10	844.93	557794.	3.96	140808.	3838.	11.74	0.0300	0.	90.	0.12
MILE 43.70	843.04	557396.	11.21	49731.	3808.	15.20	0.0300	0.	90.	0.55
MILE 42.00	843.79	556097.	4.16	133653.	3899.	10.65	0.0300	0.	94.	0.13
MILE 39.10	841.70	554137.	7.91	70032.	3817.	14.37	0.0230	0.	91.	0.33
MILE 37.00	841.89	553263.	4.39	125938.	2513.	14.49	0.0280	0.	91.	0.11
MILE 36.00	840.82	552999.	8.19	67484.	1786.	14.94	0.0280	0.	92.	0.23
MILE 34.60	840.56	552791.	6.42	86054.	2614.	16.13	0.0280	0.	92.	0.20
MILE 33.60	840.96	552486.	2.74	201375.	5052.	15.97	0.0290	0.	98.	0.08
MILE 31.50	840.10	551833.	6.66	82864.	3945.	16.36	0.0250	0.	101.	0.26
MILE 30.10	839.84	551812.	6.02	91635.	1496.	15.53	0.0200	0.	99.	0.14
MILE 29.00	839.66	551770.	6.05	91194.	2271.	16.75	0.0200	0.	100.	0.17
MILE 27.30	839.39	551630.	6.18	89309.	2069.	17.34	0.0230	0.	102.	0.17
MILE 25.20	839.18	551527.	5.51	100135.	1984.	18.64	0.0230	0.	105.	0.14
MILE 23.10	838.74	551444.	6.13	89949.	2383.	17.11	0.0230	0.	109.	0.18

ODATE 10-27-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 3.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	902.35	600000.	13.13	45694.	1163.	10.84	0.0290	0.	84.	0.37
MILE 77.70	899.86	599811.	10.23	58637.	1419.	12.01	0.0400	0.	89.	0.28
MILE 75.60	891.41	599379.	11.68	51322.	3492.	11.04	0.0400	0.	85.	0.54
MILE 73.50	879.45	598556.	14.04	42621.	2625.	11.75	0.0330	0.	80.	0.61
MILE 71.40	877.01	597678.	8.68	68887.	2130.	13.22	0.0400	0.	79.	0.27
MILE 69.30	872.54	596772.	10.41	57325.	2091.	11.91	0.0340	0.	74.	0.35
MILE 67.20	870.28	594911.	6.80	87536.	5704.	11.55	0.0340	0.	80.	0.31
MILE 65.10	865.90	591748.	9.07	65207.	6359.	11.34	0.0320	0.	79.	0.50
MILE 63.00	864.69	589006.	5.14	114677.	3659.	9.77	0.0400	0.	84.	0.16
MILE 60.90	860.36	586997.	7.35	79896.	3422.	9.83	0.0450	0.	84.	0.27
MILE 58.80	852.92	585131.	8.66	67573.	2785.	9.07	0.0400	0.	80.	0.31
MILE 57.00	851.31	583739.	8.17	71462.	2948.	9.01	0.0200	0.	77.	0.29

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 575 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	55.00	848.77	582173.	9.65	60301.	2913.	8.91	0.0200	0.	75.	0.37
MILE	53.10	847.58	580646.	7.90	73520.	3429.	10.62	0.0200	0.	74.	0.30
MILE	51.00	846.20	578609.	8.28	69916.	4553.	10.91	0.0200	0.	77.	0.37
MILE	48.30	845.67	574255.	6.30	91182.	9369.	13.92	0.0200	0.	77.	0.36
MILE	46.20	845.01	569869.	6.86	83098.	8954.	12.92	0.0200	0.	83.	0.40
MILE	44.10	845.10	566881.	4.01	141315.	3843.	11.74	0.0300	0.	90.	0.12
MILE	43.70	843.16	566566.	11.37	49826.	3812.	15.21	0.0300	0.	90.	0.55
MILE	42.00	843.93	565464.	4.22	134117.	3906.	10.65	0.0300	0.	94.	0.13
MILE	39.10	841.78	563796.	8.04	70146.	3822.	14.38	0.0230	0.	91.	0.33
MILE	37.00	841.99	563064.	4.46	126191.	2516.	14.50	0.0280	0.	91.	0.11
MILE	36.00	840.88	562860.	8.33	67558.	1787.	14.95	0.0280	0.	92.	0.24
MILE	34.60	840.62	562709.	6.53	86130.	2616.	16.14	0.0280	0.	92.	0.20
MILE	33.60	841.03	562442.	2.79	201599.	5056.	15.98	0.0290	0.	98.	0.08
MILE	31.50	840.15	561779.	6.77	82922.	3947.	16.36	0.0250	0.	101.	0.26
MILE	30.10	839.88	561649.	6.13	91690.	1496.	15.53	0.0200	0.	99.	0.14
MILE	29.00	839.69	561595.	6.15	91244.	2272.	16.75	0.0200	0.	100.	0.17
MILE	27.30	839.41	561548.	6.29	89341.	2070.	17.34	0.0230	0.	102.	0.17
MILE	25.20	839.20	561533.	5.61	100156.	1984.	18.65	0.0230	0.	105.	0.14
MILE	23.10	838.74	561553.	6.24	89949.	2383.	17.11	0.0230	0.	109.	0.18

ODATE 10-27-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	4.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
INFLOW	DEPTH	FROUDE									
MILE	79.80	902.39	600000.	13.12	45731.	1163.	10.84	0.0290	0.	84.	0.37
MILE	77.70	899.90	599845.	10.22	58691.	1420.	12.02	0.0400	0.	89.	0.28
MILE	75.60	891.47	599487.	11.67	51385.	3495.	11.04	0.0400	0.	85.	0.54
MILE	73.50	879.54	598805.	14.02	42701.	2630.	11.75	0.0330	0.	80.	0.61
MILE	71.40	877.12	598081.	8.66	69048.	2134.	13.23	0.0400	0.	79.	0.27
MILE	69.30	872.67	597336.	10.40	57461.	2095.	11.92	0.0340	0.	74.	0.35
MILE	67.20	870.42	595815.	6.79	87755.	5722.	11.56	0.0340	0.	80.	0.31
MILE	65.10	866.05	593238.	9.07	65394.	6380.	11.35	0.0320	0.	79.	0.50
MILE	63.00	864.84	591020.	5.13	115108.	3665.	9.78	0.0400	0.	84.	0.16
MILE	60.90	860.52	589401.	7.35	80201.	3428.	9.84	0.0450	0.	84.	0.27
MILE	58.80	853.09	587907.	8.67	67842.	2793.	9.07	0.0400	0.	80.	0.31
MILE	57.00	851.48	586791.	8.18	71755.	2957.	9.01	0.0200	0.	77.	0.29
MILE	55.00	848.93	585538.	9.67	60556.	2919.	8.91	0.0200	0.	75.	0.37
MILE	53.10	847.73	584321.	7.92	73751.	3436.	10.63	0.0200	0.	74.	0.30
MILE	51.00	846.34	582695.	8.31	70123.	4565.	10.92	0.0200	0.	77.	0.37
MILE	48.30	845.80	579231.	6.34	91419.	9392.	13.94	0.0200	0.	77.	0.36
MILE	46.20	845.14	575842.	6.91	83313.	8972.	12.93	0.0200	0.	83.	0.40
MILE	44.10	845.23	573496.	4.05	141699.	3848.	11.75	0.0300	0.	90.	0.12
MILE	43.70	843.25	573251.	11.49	49901.	3815.	15.22	0.0300	0.	90.	0.56
MILE	42.00	844.04	572447.	4.26	134477.	3911.	10.66	0.0300	0.	94.	0.13
MILE	39.10	841.85	571250.	8.13	70232.	3825.	14.38	0.0230	0.	91.	0.33
MILE	37.00	842.06	570700.	4.52	126379.	2518.	14.50	0.0280	0.	91.	0.11
MILE	36.00	840.93	570536.	8.44	67612.	1788.	14.95	0.0280	0.	92.	0.24

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 576 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	34.60	840.66	570404.	6.62	86185.	2617.	16.14	0.0280	0.	92.	0.20
MILE	33.60	841.08	570204.	2.83	201764.	5060.	15.99	0.0290	0.	98.	0.08
MILE	31.50	840.17	569745.	6.87	82961.	3949.	16.36	0.0250	0.	101.	0.26
MILE	30.10	839.90	569677.	6.21	91723.	1497.	15.53	0.0200	0.	99.	0.14
MILE	29.00	839.71	569646.	6.24	91272.	2273.	16.75	0.0200	0.	100.	0.17
MILE	27.30	839.42	569604.	6.37	89358.	2070.	17.34	0.0230	0.	102.	0.17
MILE	25.20	839.21	569560.	5.69	100169.	1985.	18.65	0.0230	0.	105.	0.14
MILE	23.10	838.74	569568.	6.33	89949.	2383.	17.11	0.0230	0.	109.	0.18

ODATE 10-27-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	5.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL	
INFLOW	DEPTH	FROUDE									
MILE	79.80	902.43	600000.	13.11	45762.	1163.	10.85	0.0290	0.	84.	0.37
MILE	77.70	899.94	599869.	10.21	58737.	1420.	12.02	0.0400	0.	89.	0.28
MILE	75.60	891.52	599569.	11.66	51436.	3499.	11.04	0.0400	0.	85.	0.54
MILE	73.50	879.62	599002.	14.01	42765.	2633.	11.76	0.0330	0.	80.	0.61
MILE	71.40	877.20	598407.	8.65	69177.	2137.	13.24	0.0400	0.	79.	0.27
MILE	69.30	872.77	597797.	10.38	57569.	2099.	11.93	0.0340	0.	74.	0.35
MILE	67.20	870.53	596557.	6.78	87930.	5736.	11.57	0.0340	0.	80.	0.31
MILE	65.10	866.16	594461.	9.07	65542.	6397.	11.35	0.0320	0.	79.	0.50
MILE	63.00	864.96	592662.	5.13	115452.	3670.	9.79	0.0400	0.	84.	0.16
MILE	60.90	860.65	591353.	7.35	80445.	3433.	9.85	0.0450	0.	84.	0.27
MILE	58.80	853.22	590151.	8.67	68057.	2800.	9.08	0.0400	0.	80.	0.31
MILE	57.00	851.61	589264.	8.19	71990.	2964.	9.01	0.0200	0.	77.	0.29
MILE	55.00	849.05	588273.	9.68	60759.	2925.	8.91	0.0200	0.	76.	0.37
MILE	53.10	847.85	587320.	7.94	73933.	3441.	10.63	0.0200	0.	75.	0.30
MILE	51.00	846.46	586052.	8.34	70286.	4574.	10.93	0.0200	0.	77.	0.37
MILE	48.30	845.91	583349.	6.37	91603.	9410.	13.95	0.0200	0.	77.	0.36
MILE	46.20	845.24	580657.	6.96	83481.	8986.	12.93	0.0200	0.	83.	0.40
MILE	44.10	845.33	578814.	4.08	141999.	3851.	11.75	0.0300	0.	90.	0.12
MILE	43.70	843.32	578621.	11.58	49958.	3817.	15.23	0.0300	0.	90.	0.56
MILE	42.00	844.13	577964.	4.29	134758.	3915.	10.66	0.0300	0.	94.	0.13
MILE	39.10	841.90	576972.	8.21	70299.	3828.	14.39	0.0230	0.	91.	0.34
MILE	37.00	842.12	576540.	4.56	126527.	2520.	14.51	0.0280	0.	91.	0.11
MILE	36.00	840.96	576414.	8.52	67654.	1789.	14.95	0.0280	0.	92.	0.24
MILE	34.60	840.69	576316.	6.68	86228.	2618.	16.14	0.0280	0.	92.	0.21
MILE	33.60	841.12	576153.	2.85	201893.	5063.	15.99	0.0290	0.	98.	0.08
MILE	31.50	840.20	575765.	6.94	82992.	3950.	16.37	0.0250	0.	101.	0.27
MILE	30.10	839.92	575692.	6.27	91751.	1497.	15.53	0.0200	0.	99.	0.14
MILE	29.00	839.73	575657.	6.31	91297.	2274.	16.75	0.0200	0.	100.	0.18
MILE	27.30	839.43	575614.	6.44	89374.	2070.	17.34	0.0230	0.	102.	0.17
MILE	25.20	839.22	575603.	5.75	100179.	1985.	18.65	0.0230	0.	105.	0.14
MILE	23.10	838.74	575597.	6.40	89949.	2383.	17.11	0.0230	0.	109.	0.18

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0DATE 10-27-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL
	6.0000	FROUDE								
	INFLOW	DEPTH								
MILE	79.80	902.46	600000.	13.10	45789.	1164.	10.85	0.0290	0.	84. 0.37
MILE	77.70	899.97	599890.	10.21	58774.	1421.	12.02	0.0400	0.	89. 0.28
MILE	75.60	891.56	599639.	11.65	51478.	3501.	11.04	0.0400	0.	85. 0.54
MILE	73.50	879.68	599168.	13.99	42816.	2636.	11.76	0.0330	0.	80. 0.61
MILE	71.40	877.27	598678.	8.64	69280.	2139.	13.25	0.0400	0.	79. 0.27
MILE	69.30	872.85	598179.	10.38	57655.	2102.	11.93	0.0340	0.	74. 0.35
MILE	67.20	870.62	597168.	6.78	88070.	5748.	11.57	0.0340	0.	80. 0.31
MILE	65.10	866.26	595462.	9.07	65661.	6410.	11.36	0.0320	0.	79. 0.50
MILE	63.00	865.06	594006.	5.13	115726.	3673.	9.80	0.0400	0.	84. 0.16
MILE	60.90	860.75	592950.	7.35	80639.	3437.	9.85	0.0450	0.	84. 0.27
MILE	58.80	853.33	591988.	8.68	68227.	2805.	9.08	0.0400	0.	80. 0.31
MILE	57.00	851.71	591277.	8.19	72176.	2969.	9.02	0.0200	0.	77. 0.29
MILE	55.00	849.15	590487.	9.69	60919.	2929.	8.92	0.0200	0.	76. 0.37
MILE	53.10	847.95	589724.	7.96	74077.	3445.	10.64	0.0200	0.	75. 0.30
MILE	51.00	846.54	588712.	8.36	70414.	4581.	10.93	0.0200	0.	77. 0.38
MILE	48.30	846.00	586550.	6.39	91749.	9425.	13.96	0.0200	0.	77. 0.36
MILE	46.20	845.32	584405.	6.99	83614.	8997.	12.94	0.0200	0.	84. 0.40
MILE	44.10	845.41	582924.	4.10	142238.	3854.	11.75	0.0300	0.	90. 0.12
MILE	43.70	843.37	582769.	11.65	50004.	3819.	15.23	0.0300	0.	90. 0.57
MILE	42.00	844.19	582247.	4.31	134982.	3918.	10.67	0.0300	0.	94. 0.13
MILE	39.10	841.94	581460.	8.26	70353.	3830.	14.39	0.0230	0.	91. 0.34
MILE	37.00	842.16	581110.	4.59	126646.	2521.	14.51	0.0280	0.	91. 0.11
MILE	36.00	840.99	581006.	8.58	67689.	1790.	14.96	0.0280	0.	92. 0.25
MILE	34.60	840.71	580921.	6.73	86263.	2619.	16.15	0.0280	0.	92. 0.21
MILE	33.60	841.15	580789.	2.88	201997.	5065.	16.00	0.0290	0.	98. 0.08
MILE	31.50	840.21	580486.	6.99	83017.	3951.	16.37	0.0250	0.	101. 0.27
MILE	30.10	839.93	580437.	6.32	91774.	1497.	15.53	0.0200	0.	99. 0.14
MILE	29.00	839.74	580413.	6.36	91317.	2274.	16.75	0.0200	0.	100. 0.18
MILE	27.30	839.44	580381.	6.49	89386.	2071.	17.34	0.0230	0.	102. 0.17
MILE	25.20	839.22	580360.	5.79	100188.	1985.	18.65	0.0230	0.	105. 0.14
MILE	23.10	838.74	580358.	6.45	89949.	2383.	17.11	0.0230	0.	109. 0.19

0DATE 10-27-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL
	7.0000	FROUDE								
	INFLOW	DEPTH								
MILE	79.80	902.48	600000.	13.10	45811.	1164.	10.85	0.0290	0.	84. 0.37
MILE	77.70	900.00	599908.	10.20	58806.	1421.	12.02	0.0400	0.	89. 0.28
MILE	75.60	891.59	599699.	11.64	51512.	3503.	11.04	0.0400	0.	85. 0.54
MILE	73.50	879.73	599309.	13.98	42858.	2639.	11.76	0.0330	0.	81. 0.61
MILE	71.40	877.33	598907.	8.63	69363.	2141.	13.25	0.0400	0.	80. 0.27

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	69.30	872.91	598499.	10.37	57725.	2105.	11.94	0.0340	0.	74.	0.35
MILE	67.20	870.69	597677.	6.78	88182.	5757.	11.58	0.0340	0.	80.	0.31
MILE	65.10	866.33	596290.	9.07	65756.	6421.	11.36	0.0320	0.	79.	0.50
MILE	63.00	865.14	595110.	5.13	115946.	3676.	9.81	0.0400	0.	84.	0.16
MILE	60.90	860.83	594256.	7.36	80795.	3440.	9.86	0.0450	0.	84.	0.27
MILE	58.80	853.41	593478.	8.68	68365.	2809.	9.08	0.0400	0.	80.	0.31
MILE	57.00	851.79	592906.	8.20	72327.	2973.	9.02	0.0200	0.	77.	0.29
MILE	55.00	849.23	592272.	9.70	61046.	2932.	8.92	0.0200	0.	76.	0.37
MILE	53.10	848.02	591657.	7.97	74191.	3448.	10.64	0.0200	0.	75.	0.30
MILE	51.00	846.61	590840.	8.38	70516.	4586.	10.94	0.0200	0.	77.	0.38
MILE	48.30	846.06	589103.	6.41	91866.	9436.	13.97	0.0200	0.	77.	0.36
MILE	46.20	845.38	587376.	7.02	83720.	9006.	12.94	0.0200	0.	84.	0.41
MILE	44.10	845.47	586188.	4.12	142428.	3856.	11.75	0.0300	0.	90.	0.12
MILE	43.70	843.42	586064.	11.71	50041.	3820.	15.24	0.0300	0.	90.	0.57
MILE	42.00	844.25	585642.	4.33	135160.	3921.	10.67	0.0300	0.	94.	0.13
MILE	39.10	841.97	585008.	8.31	70397.	3832.	14.39	0.0230	0.	91.	0.34
MILE	37.00	842.20	584727.	4.61	126741.	2522.	14.51	0.0280	0.	91.	0.11
MILE	36.00	841.01	584645.	8.63	67716.	1791.	14.96	0.0280	0.	92.	0.25
MILE	34.60	840.73	584581.	6.77	86291.	2620.	16.15	0.0280	0.	92.	0.21
MILE	33.60	841.18	584477.	2.89	202080.	5067.	16.00	0.0290	0.	98.	0.08
MILE	31.50	840.23	584230.	7.04	83038.	3952.	16.37	0.0250	0.	101.	0.27
MILE	30.10	839.94	584185.	6.36	91792.	1497.	15.53	0.0200	0.	99.	0.14
MILE	29.00	839.75	584164.	6.40	91333.	2274.	16.75	0.0200	0.	100.	0.18
MILE	27.30	839.45	584139.	6.53	89396.	2071.	17.34	0.0230	0.	102.	0.18
MILE	25.20	839.23	584122.	5.83	100195.	1985.	18.65	0.0230	0.	105.	0.14
MILE	23.10	838.74	584121.	6.49	89949.	2383.	17.11	0.0230	0.	109.	0.19

0DATE 10-27-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 8.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE	79.80	902.50	600000.	13.09	45830.	1164.	10.85	0.0290	0.	84.	0.37
MILE	77.70	900.02	599924.	10.20	58830.	1421.	12.02	0.0400	0.	89.	0.28
MILE	75.60	891.62	599751.	11.64	51541.	3505.	11.04	0.0400	0.	85.	0.53
MILE	73.50	879.77	599430.	13.98	42892.	2640.	11.77	0.0330	0.	81.	0.61
MILE	71.40	877.37	599101.	8.63	69431.	2143.	13.26	0.0400	0.	80.	0.27
MILE	69.30	872.96	598768.	10.36	57781.	2107.	11.94	0.0340	0.	74.	0.35
MILE	67.20	870.74	598098.	6.78	88273.	5765.	11.59	0.0340	0.	80.	0.31
MILE	65.10	866.39	596969.	9.07	65832.	6430.	11.37	0.0320	0.	79.	0.50
MILE	63.00	865.20	596010.	5.13	116123.	3679.	9.81	0.0400	0.	84.	0.16
MILE	60.90	860.90	595317.	7.36	80920.	3442.	9.86	0.0450	0.	84.	0.27
MILE	58.80	853.48	594688.	8.68	68477.	2812.	9.09	0.0400	0.	80.	0.31
MILE	57.00	851.86	594226.	8.20	72448.	2977.	9.02	0.0200	0.	77.	0.29
MILE	55.00	849.29	593714.	9.71	61148.	2935.	8.92	0.0200	0.	76.	0.37
MILE	53.10	848.08	593218.	7.99	74283.	3451.	10.65	0.0200	0.	75.	0.30
MILE	51.00	846.67	592559.	8.39	70598.	4591.	10.94	0.0200	0.	77.	0.38
MILE	48.30	846.12	591154.	6.43	91959.	9445.	13.97	0.0200	0.	77.	0.36

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 579 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 46.20	845.43	589760.	7.04	83806.	9013.	12.95	0.0200	0.	84.	0.41
MILE 44.10	845.52	588800.	4.13	142580.	3857.	11.75	0.0300	0.	90.	0.12
MILE 43.70	843.45	588700.	11.76	50070.	3822.	15.24	0.0300	0.	90.	0.57
MILE 42.00	844.29	588359.	4.35	135304.	3923.	10.67	0.0300	0.	94.	0.13
MILE 39.10	842.00	587845.	8.35	70431.	3833.	14.40	0.0230	0.	91.	0.34
MILE 37.00	842.23	587616.	4.63	126817.	2523.	14.51	0.0280	0.	91.	0.12
MILE 36.00	841.03	587549.	8.67	67738.	1791.	14.96	0.0280	0.	92.	0.25
MILE 34.60	840.75	587494.	6.81	86314.	2620.	16.15	0.0280	0.	92.	0.21
MILE 33.60	841.20	587408.	2.91	202147.	5068.	16.00	0.0290	0.	98.	0.08
MILE 31.50	840.24	587206.	7.07	83054.	3953.	16.37	0.0250	0.	101.	0.27
MILE 30.10	839.95	587170.	6.40	91806.	1497.	15.54	0.0200	0.	99.	0.14
MILE 29.00	839.76	587153.	6.43	91346.	2275.	16.75	0.0200	0.	100.	0.18
MILE 27.30	839.46	587131.	6.57	89404.	2071.	17.34	0.0230	0.	102.	0.18
MILE 25.20	839.23	587118.	5.86	100201.	1985.	18.65	0.0230	0.	105.	0.15
MILE 23.10	838.74	587115.	6.53	89949.	2383.	17.11	0.0230	0.	109.	0.19

ODATE 10-27-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	9.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL
INFLOW	DEPTH	FROUDE								
MILE 79.80	902.52	600000.	13.09	45845.	1164.	10.85	0.0290	0.	84.	0.37
MILE 77.70	900.04	599937.	10.19	58850.	1421.	12.02	0.0400	0.	89.	0.28
MILE 75.60	891.64	599795.	11.63	51564.	3506.	11.04	0.0400	0.	85.	0.53
MILE 73.50	879.80	599531.	13.97	42919.	2642.	11.77	0.0330	0.	81.	0.61
MILE 71.40	877.41	599262.	8.62	69485.	2144.	13.26	0.0400	0.	80.	0.27
MILE 69.30	873.01	598991.	10.36	57826.	2108.	11.94	0.0340	0.	74.	0.35
MILE 67.20	870.79	598444.	6.77	88346.	5771.	11.59	0.0340	0.	80.	0.31
MILE 65.10	866.44	597524.	9.07	65894.	6437.	11.37	0.0320	0.	79.	0.50
MILE 63.00	865.25	596743.	5.13	116267.	3681.	9.82	0.0400	0.	84.	0.16
MILE 60.90	860.95	596180.	7.36	81022.	3444.	9.87	0.0450	0.	84.	0.27
MILE 58.80	853.53	595669.	8.69	68566.	2815.	9.09	0.0400	0.	80.	0.31
MILE 57.00	851.91	595294.	8.21	72546.	2980.	9.02	0.0200	0.	77.	0.29
MILE 55.00	849.34	594880.	9.72	61230.	2937.	8.92	0.0200	0.	76.	0.37
MILE 53.10	848.13	594478.	7.99	74357.	3453.	10.65	0.0200	0.	75.	0.30
MILE 51.00	846.72	593943.	8.41	70664.	4595.	10.95	0.0200	0.	77.	0.38
MILE 48.30	846.16	592804.	6.44	92034.	9453.	13.98	0.0200	0.	77.	0.36
MILE 46.20	845.47	591673.	7.05	83874.	9019.	12.95	0.0200	0.	84.	0.41
MILE 44.10	845.57	590896.	4.14	142703.	3859.	11.75	0.0300	0.	90.	0.12
MILE 43.70	843.48	590815.	11.79	50094.	3823.	15.24	0.0300	0.	90.	0.57
MILE 42.00	844.33	590538.	4.36	135419.	3925.	10.67	0.0300	0.	94.	0.13
MILE 39.10	842.02	590119.	8.38	70460.	3834.	14.40	0.0230	0.	91.	0.34
MILE 37.00	842.25	589932.	4.65	126879.	2523.	14.51	0.0280	0.	91.	0.12
MILE 36.00	841.05	589877.	8.71	67756.	1792.	14.96	0.0280	0.	92.	0.25
MILE 34.60	840.76	589832.	6.83	86332.	2621.	16.15	0.0280	0.	92.	0.21
MILE 33.60	841.22	589762.	2.92	202201.	5069.	16.01	0.0290	0.	98.	0.08
MILE 31.50	840.25	589597.	7.10	83068.	3954.	16.37	0.0250	0.	101.	0.27
MILE 30.10	839.96	589568.	6.42	91818.	1497.	15.54	0.0200	0.	99.	0.14

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 580 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	29.00	839.76	589553.	6.45	91356.	2275.	16.75	0.0200	0.	100.	0.18
MILE	27.30	839.46	589534.	6.59	89411.	2071.	17.34	0.0230	0.	102.	0.18
MILE	25.20	839.23	589523.	5.88	100205.	1985.	18.65	0.0230	0.	105.	0.15
MILE	23.10	838.74	589520.	6.55	89949.	2383.	17.11	0.0230	0.	109.	0.19

0DATE 10-27-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 10.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE	79.80	902.53	600000.	13.08	45858.	1164.	10.85	0.0290	0.	84.	0.37
MILE	77.70	900.05	599948.	10.19	58867.	1422.	12.02	0.0400	0.	89.	0.28
MILE	75.60	891.66	599831.	11.63	51583.	3507.	11.04	0.0400	0.	85.	0.53
MILE	73.50	879.82	599615.	13.96	42942.	2643.	11.77	0.0330	0.	81.	0.61
MILE	71.40	877.43	599395.	8.62	69530.	2145.	13.26	0.0400	0.	80.	0.27
MILE	69.30	873.04	599172.	10.35	57863.	2110.	11.95	0.0340	0.	74.	0.35
MILE	67.20	870.83	598726.	6.77	88406.	5776.	11.59	0.0340	0.	80.	0.31
MILE	65.10	866.48	597976.	9.07	65944.	6443.	11.37	0.0320	0.	79.	0.50
MILE	63.00	865.29	597339.	5.13	116383.	3682.	9.82	0.0400	0.	84.	0.16
MILE	60.90	861.00	596881.	7.36	81104.	3446.	9.87	0.0450	0.	84.	0.27
MILE	58.80	853.58	596465.	8.69	68639.	2817.	9.09	0.0400	0.	80.	0.31
MILE	57.00	851.96	596161.	8.21	72625.	2982.	9.02	0.0200	0.	77.	0.29
MILE	55.00	849.38	595824.	9.72	61297.	2939.	8.92	0.0200	0.	76.	0.38
MILE	53.10	848.17	595497.	8.00	74417.	3455.	10.65	0.0200	0.	75.	0.30
MILE	51.00	846.75	595063.	8.41	70717.	4598.	10.95	0.0200	0.	77.	0.38
MILE	48.30	846.20	594137.	6.45	92095.	9459.	13.98	0.0200	0.	77.	0.36
MILE	46.20	845.50	593217.	7.07	83929.	9024.	12.95	0.0200	0.	84.	0.41
MILE	44.10	845.60	592585.	4.15	142802.	3860.	11.75	0.0300	0.	90.	0.12
MILE	43.70	843.50	592518.	11.82	50113.	3823.	15.25	0.0300	0.	91.	0.58
MILE	42.00	844.36	592293.	4.37	135513.	3926.	10.67	0.0300	0.	94.	0.13
MILE	39.10	842.04	591952.	8.40	70482.	3835.	14.40	0.0230	0.	91.	0.35
MILE	37.00	842.27	591799.	4.66	126928.	2524.	14.52	0.0280	0.	91.	0.12
MILE	36.00	841.06	591755.	8.73	67771.	1792.	14.96	0.0280	0.	92.	0.25
MILE	34.60	840.77	591718.	6.85	86347.	2621.	16.15	0.0280	0.	92.	0.21
MILE	33.60	841.23	591660.	2.93	202245.	5070.	16.01	0.0290	0.	98.	0.08
MILE	31.50	840.26	591525.	7.12	83078.	3954.	16.37	0.0250	0.	101.	0.27
MILE	30.10	839.97	591500.	6.44	91828.	1498.	15.54	0.0200	0.	99.	0.14
MILE	29.00	839.77	591489.	6.47	91365.	2275.	16.75	0.0200	0.	100.	0.18
MILE	27.30	839.46	591473.	6.61	89416.	2071.	17.34	0.0230	0.	102.	0.18
MILE	25.20	839.24	591463.	5.90	100209.	1985.	18.65	0.0230	0.	105.	0.15
MILE	23.10	838.74	591461.	6.58	89949.	2383.	17.11	0.0230	0.	109.	0.19

0DATE 10-27-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 581 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

	TIME 11.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
	INFLOW DEPTH	FROUDE									
MILE	79.80	902.55	600000.	13.08	45868.	1164.	10.85	0.0290	0.	84.	0.37
MILE	77.70	900.06	599957.	10.19	58880.	1422.	12.02	0.0400	0.	89.	0.28
MILE	75.60	891.67	599861.	11.63	51598.	3508.	11.04	0.0400	0.	85.	0.53
MILE	73.50	879.84	599683.	13.96	42960.	2644.	11.77	0.0330	0.	81.	0.61
MILE	71.40	877.46	599503.	8.62	69566.	2146.	13.27	0.0400	0.	80.	0.27
MILE	69.30	873.07	599321.	10.35	57893.	2111.	11.95	0.0340	0.	74.	0.35
MILE	67.20	870.86	598956.	6.77	88454.	5780.	11.60	0.0340	0.	80.	0.31
MILE	65.10	866.51	598343.	9.07	65985.	6447.	11.37	0.0320	0.	80.	0.50
MILE	63.00	865.33	597824.	5.13	116476.	3683.	9.82	0.0400	0.	84.	0.16
MILE	60.90	861.03	597450.	7.36	81170.	3447.	9.87	0.0450	0.	85.	0.27
MILE	58.80	853.62	597112.	8.69	68697.	2819.	9.09	0.0400	0.	81.	0.31
MILE	57.00	851.99	596864.	8.21	72689.	2984.	9.02	0.0200	0.	77.	0.29
MILE	55.00	849.42	596589.	9.72	61351.	2940.	8.92	0.0200	0.	76.	0.38
MILE	53.10	848.20	596324.	8.01	74465.	3456.	10.65	0.0200	0.	75.	0.30
MILE	51.00	846.78	595970.	8.42	70760.	4600.	10.95	0.0200	0.	77.	0.38
MILE	48.30	846.22	595215.	6.46	92144.	9463.	13.99	0.0200	0.	77.	0.36
MILE	46.20	845.53	594466.	7.08	83974.	9027.	12.95	0.0200	0.	84.	0.41
MILE	44.10	845.63	593951.	4.16	142883.	3861.	11.75	0.0300	0.	90.	0.12
MILE	43.70	843.52	593897.	11.85	50129.	3824.	15.25	0.0300	0.	91.	0.58
MILE	42.00	844.38	593713.	4.38	135588.	3927.	10.67	0.0300	0.	94.	0.13
MILE	39.10	842.05	593434.	8.42	70501.	3836.	14.40	0.0230	0.	91.	0.35
MILE	37.00	842.28	593310.	4.67	126969.	2524.	14.52	0.0280	0.	91.	0.12
MILE	36.00	841.07	593273.	8.75	67782.	1792.	14.96	0.0280	0.	92.	0.25
MILE	34.60	840.78	593243.	6.87	86359.	2621.	16.15	0.0280	0.	92.	0.21
MILE	33.60	841.24	593196.	2.93	202281.	5071.	16.01	0.0290	0.	98.	0.08
MILE	31.50	840.27	593085.	7.14	83087.	3954.	16.37	0.0250	0.	101.	0.27
MILE	30.10	839.97	593065.	6.46	91836.	1498.	15.54	0.0200	0.	99.	0.15
MILE	29.00	839.77	593055.	6.49	91372.	2275.	16.75	0.0200	0.	100.	0.18
MILE	27.30	839.47	593042.	6.63	89420.	2071.	17.34	0.0230	0.	102.	0.18
MILE	25.20	839.24	593034.	5.92	100212.	1986.	18.65	0.0230	0.	105.	0.15
MILE	23.10	838.74	593031.	6.59	89949.	2383.	17.11	0.0230	0.	109.	0.19

ODATE 10-27-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 12.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
	INFLOW DEPTH	FROUDE									
MILE	79.80	902.56	600000.	13.08	45877.	1164.	10.85	0.0290	0.	84.	0.37
MILE	77.70	900.07	599965.	10.19	58891.	1422.	12.02	0.0400	0.	89.	0.28
MILE	75.60	891.68	599885.	11.62	51611.	3509.	11.04	0.0400	0.	85.	0.53
MILE	73.50	879.86	599739.	13.96	42974.	2645.	11.77	0.0330	0.	81.	0.61
MILE	71.40	877.48	599591.	8.62	69595.	2147.	13.27	0.0400	0.	80.	0.27
MILE	69.30	873.09	599442.	10.35	57917.	2112.	11.95	0.0340	0.	74.	0.35
MILE	67.20	870.88	599144.	6.77	88492.	5783.	11.60	0.0340	0.	80.	0.31
MILE	65.10	866.54	598643.	9.07	66017.	6451.	11.37	0.0320	0.	80.	0.50

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 582 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	63.00	865.35	598219.	5.13	116552.	3684.	9.83	0.0400	0.	84.	0.16
MILE	60.90	861.06	597913.	7.36	81224.	3448.	9.88	0.0450	0.	85.	0.27
MILE	58.80	853.64	597637.	8.69	68745.	2820.	9.09	0.0400	0.	81.	0.31
MILE	57.00	852.02	597435.	8.21	72741.	2985.	9.02	0.0200	0.	77.	0.29
MILE	55.00	849.44	597211.	9.73	61395.	2941.	8.92	0.0200	0.	76.	0.38
MILE	53.10	848.23	596995.	8.01	74504.	3457.	10.65	0.0200	0.	75.	0.30
MILE	51.00	846.81	596706.	8.43	70795.	4602.	10.95	0.0200	0.	78.	0.38
MILE	48.30	846.25	596091.	6.47	92184.	9467.	13.99	0.0200	0.	77.	0.37
MILE	46.20	845.55	595479.	7.09	84011.	9030.	12.95	0.0200	0.	84.	0.41
MILE	44.10	845.65	595059.	4.16	142948.	3861.	11.75	0.0300	0.	90.	0.12
MILE	43.70	843.54	595015.	11.87	50141.	3825.	15.25	0.0300	0.	91.	0.58
MILE	42.00	844.40	594865.	4.39	135650.	3928.	10.67	0.0300	0.	94.	0.13
MILE	39.10	842.06	594637.	8.43	70516.	3837.	14.40	0.0230	0.	91.	0.35
MILE	37.00	842.30	594535.	4.68	127002.	2524.	14.52	0.0280	0.	91.	0.12
MILE	36.00	841.08	594505.	8.77	67792.	1793.	14.96	0.0280	0.	92.	0.25
MILE	34.60	840.79	594480.	6.88	86369.	2621.	16.15	0.0280	0.	92.	0.21
MILE	33.60	841.25	594442.	2.94	202310.	5071.	16.01	0.0290	0.	98.	0.08
MILE	31.50	840.27	594351.	7.15	83094.	3955.	16.37	0.0250	0.	101.	0.27
MILE	30.10	839.98	594334.	6.47	91842.	1498.	15.54	0.0200	0.	99.	0.15
MILE	29.00	839.78	594326.	6.50	91377.	2275.	16.75	0.0200	0.	100.	0.18
MILE	27.30	839.47	594315.	6.65	89424.	2071.	17.34	0.0230	0.	102.	0.18
MILE	25.20	839.24	594308.	5.93	100214.	1986.	18.65	0.0230	0.	105.	0.15
MILE	23.10	838.74	594306.	6.61	89949.	2383.	17.11	0.0230	0.	109.	0.19

0DATE 10-27-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 13.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE	79.80	902.56	600000.	13.08	45884.	1165.	10.85	0.0290	0.	84.	0.37
MILE	77.70	900.08	599971.	10.19	58900.	1422.	12.02	0.0400	0.	89.	0.28
MILE	75.60	891.69	599905.	11.62	51621.	3510.	11.04	0.0400	0.	85.	0.53
MILE	73.50	879.88	599785.	13.95	42986.	2646.	11.77	0.0330	0.	81.	0.61
MILE	71.40	877.49	599663.	8.61	69619.	2147.	13.27	0.0400	0.	80.	0.27
MILE	69.30	873.11	599541.	10.35	57937.	2112.	11.95	0.0340	0.	74.	0.35
MILE	67.20	870.90	599297.	6.77	88524.	5785.	11.60	0.0340	0.	80.	0.30
MILE	65.10	866.56	598887.	9.07	66044.	6454.	11.37	0.0320	0.	80.	0.50
MILE	63.00	865.38	598540.	5.13	116614.	3685.	9.83	0.0400	0.	84.	0.16
MILE	60.90	861.08	598290.	7.36	81268.	3449.	9.88	0.0450	0.	85.	0.27
MILE	58.80	853.67	598065.	8.69	68783.	2821.	9.09	0.0400	0.	81.	0.31
MILE	57.00	852.05	597900.	8.21	72783.	2986.	9.02	0.0200	0.	77.	0.29
MILE	55.00	849.47	597717.	9.73	61430.	2942.	8.92	0.0200	0.	76.	0.38
MILE	53.10	848.25	597540.	8.02	74536.	3458.	10.66	0.0200	0.	75.	0.30
MILE	51.00	846.83	597305.	8.43	70824.	4603.	10.95	0.0200	0.	78.	0.38
MILE	48.30	846.27	596802.	6.47	92216.	9470.	13.99	0.0200	0.	77.	0.37
MILE	46.20	845.57	596303.	7.10	84040.	9033.	12.96	0.0200	0.	84.	0.41
MILE	44.10	845.67	595959.	4.17	143001.	3862.	11.76	0.0300	0.	90.	0.12
MILE	43.70	843.55	595923.	11.88	50152.	3825.	15.25	0.0300	0.	91.	0.58

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 583 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	42.00	844.41	595801.	4.39	135700.	3929.	10.67	0.0300	0.	94.	0.13
MILE	39.10	842.07	595614.	8.45	70528.	3837.	14.40	0.0230	0.	91.	0.35
MILE	37.00	842.31	595531.	4.69	127029.	2525.	14.52	0.0280	0.	91.	0.12
MILE	36.00	841.08	595506.	8.78	67800.	1793.	14.96	0.0280	0.	92.	0.25
MILE	34.60	840.80	595486.	6.89	86377.	2622.	16.15	0.0280	0.	92.	0.21
MILE	33.60	841.26	595454.	2.94	202333.	5072.	16.01	0.0290	0.	98.	0.08
MILE	31.50	840.28	595380.	7.16	83100.	3955.	16.37	0.0250	0.	101.	0.28
MILE	30.10	839.98	595366.	6.48	91847.	1498.	15.54	0.0200	0.	99.	0.15
MILE	29.00	839.78	595359.	6.52	91382.	2275.	16.75	0.0200	0.	100.	0.18
MILE	27.30	839.47	595350.	6.66	89426.	2071.	17.34	0.0230	0.	102.	0.18
MILE	25.20	839.24	595344.	5.94	100216.	1986.	18.65	0.0230	0.	105.	0.15
MILE	23.10	838.74	595342.	6.62	89949.	2383.	17.11	0.0230	0.	109.	0.19

0DATE 10-27-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 14.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE	79.80	902.57	600000.	13.07	45890.	1165.	10.85	0.0290	0.	84.	0.37
MILE	77.70	900.09	599976.	10.18	58908.	1422.	12.02	0.0400	0.	89.	0.28
MILE	75.60	891.70	599921.	11.62	51630.	3510.	11.04	0.0400	0.	85.	0.53
MILE	73.50	879.89	599822.	13.95	42996.	2646.	11.77	0.0330	0.	81.	0.61
MILE	71.40	877.51	599723.	8.61	69638.	2148.	13.27	0.0400	0.	80.	0.27
MILE	69.30	873.12	599622.	10.35	57953.	2113.	11.95	0.0340	0.	74.	0.35
MILE	67.20	870.92	599422.	6.77	88550.	5788.	11.60	0.0340	0.	80.	0.30
MILE	65.10	866.57	599086.	9.07	66066.	6456.	11.38	0.0320	0.	80.	0.50
MILE	63.00	865.39	598802.	5.13	116664.	3686.	9.83	0.0400	0.	84.	0.16
MILE	60.90	861.10	598598.	7.36	81303.	3450.	9.88	0.0450	0.	85.	0.27
MILE	58.80	853.69	598413.	8.70	68815.	2822.	9.09	0.0400	0.	81.	0.31
MILE	57.00	852.06	598279.	8.22	72818.	2987.	9.02	0.0200	0.	77.	0.29
MILE	55.00	849.48	598129.	9.73	61459.	2943.	8.92	0.0200	0.	76.	0.38
MILE	53.10	848.26	597985.	8.02	74562.	3459.	10.66	0.0200	0.	75.	0.30
MILE	51.00	846.84	597792.	8.44	70847.	4605.	10.96	0.0200	0.	78.	0.38
MILE	48.30	846.28	597381.	6.48	92242.	9473.	13.99	0.0200	0.	77.	0.37
MILE	46.20	845.58	596973.	7.10	84064.	9035.	12.96	0.0200	0.	84.	0.41
MILE	44.10	845.68	596692.	4.17	143044.	3863.	11.76	0.0300	0.	90.	0.12
MILE	43.70	843.56	596663.	11.90	50160.	3825.	15.25	0.0300	0.	91.	0.58
MILE	42.00	844.42	596562.	4.39	135741.	3929.	10.67	0.0300	0.	94.	0.13
MILE	39.10	842.08	596410.	8.46	70538.	3837.	14.40	0.0230	0.	91.	0.35
MILE	37.00	842.32	596341.	4.69	127050.	2525.	14.52	0.0280	0.	91.	0.12
MILE	36.00	841.09	596321.	8.79	67806.	1793.	14.96	0.0280	0.	92.	0.25
MILE	34.60	840.80	596304.	6.90	86383.	2622.	16.15	0.0280	0.	92.	0.21
MILE	33.60	841.26	596278.	2.95	202352.	5072.	16.01	0.0290	0.	98.	0.08
MILE	31.50	840.28	596217.	7.17	83105.	3955.	16.37	0.0250	0.	101.	0.28
MILE	30.10	839.98	596206.	6.49	91851.	1498.	15.54	0.0200	0.	99.	0.15
MILE	29.00	839.78	596200.	6.52	91386.	2276.	16.75	0.0200	0.	100.	0.18
MILE	27.30	839.47	596193.	6.67	89429.	2071.	17.34	0.0230	0.	102.	0.18
MILE	25.20	839.24	596188.	5.95	100218.	1986.	18.65	0.0230	0.	105.	0.15

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 23.10 838.74 596186. 6.63 89949. 2383. 17.11 0.0230 0. 109. 0.19

0DATE 10-27-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 15.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	902.58	600000.	13.07	45895.	1165.	10.85	0.0290	0.	84.	0.37
MILE 77.70	900.09	599980.	10.18	58914.	1422.	12.02	0.0400	0.	89.	0.28
MILE 75.60	891.71	599935.	11.62	51637.	3511.	11.04	0.0400	0.	85.	0.53
MILE 73.50	879.90	599853.	13.95	43004.	2647.	11.77	0.0330	0.	81.	0.61
MILE 71.40	877.52	599771.	8.61	69654.	2148.	13.27	0.0400	0.	80.	0.27
MILE 69.30	873.14	599689.	10.35	57966.	2113.	11.95	0.0340	0.	74.	0.35
MILE 67.20	870.93	599524.	6.77	88570.	5789.	11.60	0.0340	0.	80.	0.30
MILE 65.10	866.59	599249.	9.07	66083.	6458.	11.38	0.0320	0.	80.	0.50
MILE 63.00	865.41	599016.	5.13	116705.	3686.	9.83	0.0400	0.	84.	0.16
MILE 60.90	861.12	598849.	7.36	81332.	3450.	9.88	0.0450	0.	85.	0.27
MILE 58.80	853.70	598698.	8.70	68840.	2823.	9.09	0.0400	0.	81.	0.31
MILE 57.00	852.08	598587.	8.22	72846.	2988.	9.02	0.0200	0.	77.	0.29
MILE 55.00	849.50	598465.	9.73	61483.	2944.	8.92	0.0200	0.	76.	0.38
MILE 53.10	848.28	598347.	8.02	74583.	3459.	10.66	0.0200	0.	75.	0.30
MILE 51.00	846.85	598189.	8.44	70865.	4606.	10.96	0.0200	0.	78.	0.38
MILE 48.30	846.29	597853.	6.48	92264.	9475.	13.99	0.0200	0.	77.	0.37
MILE 46.20	845.60	597519.	7.11	84084.	9036.	12.96	0.0200	0.	84.	0.41
MILE 44.10	845.69	597289.	4.17	143079.	3863.	11.76	0.0300	0.	90.	0.12
MILE 43.70	843.57	597265.	11.91	50167.	3826.	15.25	0.0300	0.	91.	0.58
MILE 42.00	844.43	597183.	4.40	135774.	3930.	10.67	0.0300	0.	94.	0.13
MILE 39.10	842.08	597058.	8.46	70546.	3838.	14.40	0.0230	0.	91.	0.35
MILE 37.00	842.32	597002.	4.70	127068.	2525.	14.52	0.0280	0.	91.	0.12
MILE 36.00	841.09	596985.	8.80	67811.	1793.	14.96	0.0280	0.	92.	0.25
MILE 34.60	840.80	596971.	6.91	86389.	2622.	16.15	0.0280	0.	92.	0.21
MILE 33.60	841.27	596950.	2.95	202368.	5073.	16.01	0.0290	0.	98.	0.08
MILE 31.50	840.28	596900.	7.18	83109.	3955.	16.37	0.0250	0.	101.	0.28
MILE 30.10	839.99	596890.	6.50	91855.	1498.	15.54	0.0200	0.	99.	0.15
MILE 29.00	839.78	596886.	6.53	91389.	2276.	16.75	0.0200	0.	100.	0.18
MILE 27.30	839.48	596879.	6.67	89431.	2072.	17.34	0.0230	0.	102.	0.18
MILE 25.20	839.25	596875.	5.96	100219.	1986.	18.65	0.0230	0.	105.	0.15
MILE 23.10	838.74	596873.	6.64	89949.	2383.	17.11	0.0230	0.	109.	0.19

0DATE 10-27-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 16.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80 902.58 600000. 13.07 45899. 1165. 10.85 0.0290 0. 84. 0.37

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 585 of 665
Subject: SOCH Model Calibration, Melton Hill			Prepped
Appendix E			Checked
			JAW
			ACM

MILE 77.70	900.10	599984.	10.18	58919.	1422.	12.02	0.0400	0.	89.	0.28
MILE 75.60	891.71	599946.	11.62	51643.	3511.	11.04	0.0400	0.	85.	0.53
MILE 73.50	879.90	599879.	13.95	43011.	2647.	11.77	0.0330	0.	81.	0.61
MILE 71.40	877.52	599811.	8.61	69666.	2149.	13.27	0.0400	0.	80.	0.27
MILE 69.30	873.15	599743.	10.34	57976.	2114.	11.96	0.0340	0.	74.	0.35
MILE 67.20	870.94	599608.	6.77	88587.	5791.	11.60	0.0340	0.	80.	0.30
MILE 65.10	866.60	599382.	9.07	66097.	6460.	11.38	0.0320	0.	80.	0.50
MILE 63.00	865.42	599191.	5.13	116738.	3687.	9.83	0.0400	0.	84.	0.16
MILE 60.90	861.13	599053.	7.36	81355.	3451.	9.88	0.0450	0.	85.	0.27
MILE 58.80	853.72	598930.	8.70	68861.	2824.	9.09	0.0400	0.	81.	0.31
MILE 57.00	852.09	598839.	8.22	72868.	2989.	9.02	0.0200	0.	77.	0.29
MILE 55.00	849.51	598739.	9.74	61502.	2944.	8.92	0.0200	0.	76.	0.38
MILE 53.10	848.29	598642.	8.02	74600.	3460.	10.66	0.0200	0.	75.	0.30
MILE 51.00	846.86	598513.	8.44	70881.	4607.	10.96	0.0200	0.	78.	0.38
MILE 48.30	846.30	598238.	6.48	92281.	9477.	14.00	0.0200	0.	77.	0.37
MILE 46.20	845.61	597964.	7.11	84100.	9038.	12.96	0.0200	0.	84.	0.41
MILE 44.10	845.70	597776.	4.18	143108.	3863.	11.76	0.0300	0.	91.	0.12
MILE 43.70	843.57	597757.	11.91	50172.	3826.	15.25	0.0300	0.	91.	0.58
MILE 42.00	844.44	597689.	4.40	135801.	3930.	10.68	0.0300	0.	94.	0.13
MILE 39.10	842.09	597587.	8.47	70553.	3838.	14.40	0.0230	0.	91.	0.35
MILE 37.00	842.33	597541.	4.70	127083.	2525.	14.52	0.0280	0.	91.	0.12
MILE 36.00	841.09	597527.	8.81	67816.	1793.	14.96	0.0280	0.	92.	0.25
MILE 34.60	840.81	597516.	6.92	86393.	2622.	16.16	0.0280	0.	92.	0.21
MILE 33.60	841.27	597498.	2.95	202381.	5073.	16.01	0.0290	0.	98.	0.08
MILE 31.50	840.28	597457.	7.19	83112.	3955.	16.37	0.0250	0.	101.	0.28
MILE 30.10	839.99	597449.	6.50	91858.	1498.	15.54	0.0200	0.	99.	0.15
MILE 29.00	839.79	597445.	6.54	91391.	2276.	16.76	0.0200	0.	100.	0.18
MILE 27.30	839.48	597440.	6.68	89432.	2072.	17.34	0.0230	0.	102.	0.18
MILE 25.20	839.25	597436.	5.96	100220.	1986.	18.65	0.0230	0.	105.	0.15
MILE 23.10	838.74	597435.	6.64	89949.	2383.	17.11	0.0230	0.	109.	0.19

0DATE 10-27-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 17.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	902.58	600000.	13.07	45903.	1165.	10.85	0.0290	0.	84.	0.37
MILE 77.70	900.10	599986.	10.18	58923.	1422.	12.03	0.0400	0.	89.	0.28
MILE 75.60	891.72	599955.	11.62	51647.	3511.	11.04	0.0400	0.	85.	0.53
MILE 73.50	879.91	599900.	13.95	43016.	2648.	11.77	0.0330	0.	81.	0.61
MILE 71.40	877.53	599844.	8.61	69677.	2149.	13.27	0.0400	0.	80.	0.27
MILE 69.30	873.15	599788.	10.34	57985.	2114.	11.96	0.0340	0.	74.	0.35
MILE 67.20	870.95	599677.	6.77	88601.	5792.	11.60	0.0340	0.	80.	0.30
MILE 65.10	866.61	599491.	9.07	66109.	6461.	11.38	0.0320	0.	80.	0.50
MILE 63.00	865.43	599334.	5.13	116765.	3687.	9.83	0.0400	0.	84.	0.16
MILE 60.90	861.14	599221.	7.36	81375.	3451.	9.88	0.0450	0.	85.	0.27
MILE 58.80	853.73	599120.	8.70	68878.	2824.	9.09	0.0400	0.	81.	0.31
MILE 57.00	852.10	599046.	8.22	72887.	2989.	9.02	0.0200	0.	77.	0.29

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 586 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	55.00	849.52	598964.	9.74	61518.	2945.	8.92	0.0200	0.	76.	0.38
MILE	53.10	848.30	598884.	8.03	74614.	3460.	10.66	0.0200	0.	75.	0.30
MILE	51.00	846.87	598778.	8.45	70893.	4607.	10.96	0.0200	0.	78.	0.38
MILE	48.30	846.31	598553.	6.49	92295.	9478.	14.00	0.0200	0.	77.	0.37
MILE	46.20	845.61	598328.	7.11	84113.	9039.	12.96	0.0200	0.	84.	0.41
MILE	44.10	845.71	598174.	4.18	143131.	3864.	11.76	0.0300	0.	91.	0.12
MILE	43.70	843.58	598158.	11.92	50177.	3826.	15.25	0.0300	0.	91.	0.58
MILE	42.00	844.45	598103.	4.40	135823.	3930.	10.68	0.0300	0.	94.	0.13
MILE	39.10	842.09	598019.	8.48	70558.	3838.	14.41	0.0230	0.	91.	0.35
MILE	37.00	842.33	597981.	4.71	127094.	2525.	14.52	0.0280	0.	91.	0.12
MILE	36.00	841.10	597970.	8.82	67819.	1793.	14.96	0.0280	0.	92.	0.25
MILE	34.60	840.81	597960.	6.92	86396.	2622.	16.16	0.0280	0.	92.	0.21
MILE	33.60	841.28	597946.	2.95	202391.	5073.	16.01	0.0290	0.	98.	0.08
MILE	31.50	840.29	597912.	7.19	83115.	3956.	16.37	0.0250	0.	101.	0.28
MILE	30.10	839.99	597905.	6.51	91860.	1498.	15.54	0.0200	0.	99.	0.15
MILE	29.00	839.79	597902.	6.54	91393.	2276.	16.76	0.0200	0.	100.	0.18
MILE	27.30	839.48	597898.	6.69	89433.	2072.	17.34	0.0230	0.	102.	0.18
MILE	25.20	839.25	597895.	5.97	100221.	1986.	18.65	0.0230	0.	105.	0.15
MILE	23.10	838.74	597893.	6.65	89949.	2383.	17.11	0.0230	0.	109.	0.19

ODATE 10-27-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 18.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	902.59	600000.	13.07	45906.	1165.	10.85	0.0290	0.	84.	0.37
MILE	77.70	900.10	599989.	10.18	58927.	1422.	12.03	0.0400	0.	89.	0.28
MILE	75.60	891.72	599963.	11.62	51651.	3512.	11.04	0.0400	0.	85.	0.53
MILE	73.50	879.91	599917.	13.94	43020.	2648.	11.77	0.0330	0.	81.	0.61
MILE	71.40	877.54	599871.	8.61	69685.	2149.	13.28	0.0400	0.	80.	0.27
MILE	69.30	873.16	599825.	10.34	57992.	2114.	11.96	0.0340	0.	74.	0.35
MILE	67.20	870.95	599733.	6.77	88613.	5793.	11.60	0.0340	0.	80.	0.30
MILE	65.10	866.61	599580.	9.07	66119.	6462.	11.38	0.0320	0.	80.	0.50
MILE	63.00	865.44	599451.	5.13	116787.	3687.	9.83	0.0400	0.	84.	0.16
MILE	60.90	861.15	599358.	7.36	81390.	3452.	9.88	0.0450	0.	85.	0.27
MILE	58.80	853.73	599275.	8.70	68892.	2824.	9.10	0.0400	0.	81.	0.31
MILE	57.00	852.11	599214.	8.22	72902.	2990.	9.02	0.0200	0.	77.	0.29
MILE	55.00	849.53	599147.	9.74	61530.	2945.	8.92	0.0200	0.	76.	0.38
MILE	53.10	848.30	599082.	8.03	74625.	3460.	10.66	0.0200	0.	75.	0.30
MILE	51.00	846.88	598995.	8.45	70903.	4608.	10.96	0.0200	0.	78.	0.38
MILE	48.30	846.32	598810.	6.49	92307.	9479.	14.00	0.0200	0.	77.	0.37
MILE	46.20	845.62	598626.	7.12	84124.	9040.	12.96	0.0200	0.	84.	0.41
MILE	44.10	845.72	598499.	4.18	143150.	3864.	11.76	0.0300	0.	91.	0.12
MILE	43.70	843.58	598486.	11.93	50180.	3826.	15.26	0.0300	0.	91.	0.58
MILE	42.00	844.45	598441.	4.41	135841.	3931.	10.68	0.0300	0.	94.	0.13
MILE	39.10	842.10	598372.	8.48	70562.	3838.	14.41	0.0230	0.	91.	0.35
MILE	37.00	842.34	598341.	4.71	127104.	2526.	14.52	0.0280	0.	91.	0.12
MILE	36.00	841.10	598332.	8.82	67822.	1793.	14.96	0.0280	0.	92.	0.25

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 587 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	34.60	840.81	598324.	6.93	86399.	2622.	16.16	0.0280	0.	92.	0.21
MILE	33.60	841.28	598312.	2.96	202400.	5073.	16.01	0.0290	0.	98.	0.08
MILE	31.50	840.29	598284.	7.20	83117.	3956.	16.37	0.0250	0.	101.	0.28
MILE	30.10	839.99	598278.	6.51	91862.	1498.	15.54	0.0200	0.	99.	0.15
MILE	29.00	839.79	598276.	6.55	91395.	2276.	16.76	0.0200	0.	100.	0.18
MILE	27.30	839.48	598272.	6.69	89434.	2072.	17.34	0.0230	0.	102.	0.18
MILE	25.20	839.25	598270.	5.97	100222.	1986.	18.65	0.0230	0.	105.	0.15
MILE	23.10	838.74	598269.	6.65	89949.	2383.	17.11	0.0230	0.	109.	0.19

0DATE 10-27-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 19.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	902.59	600000.	13.07	45908.	1165.	10.85	0.0290	0.	84.	0.37
MILE	77.70	900.11	599991.	10.18	58930.	1422.	12.03	0.0400	0.	89.	0.28
MILE	75.60	891.73	599969.	11.62	51654.	3512.	11.04	0.0400	0.	85.	0.53
MILE	73.50	879.92	599931.	13.94	43024.	2648.	11.77	0.0330	0.	81.	0.61
MILE	71.40	877.54	599893.	8.61	69692.	2149.	13.28	0.0400	0.	80.	0.27
MILE	69.30	873.17	599855.	10.34	57998.	2115.	11.96	0.0340	0.	74.	0.35
MILE	67.20	870.96	599780.	6.77	88622.	5794.	11.60	0.0340	0.	80.	0.30
MILE	65.10	866.62	599654.	9.07	66126.	6463.	11.38	0.0320	0.	80.	0.50
MILE	63.00	865.44	599547.	5.13	116805.	3688.	9.83	0.0400	0.	84.	0.16
MILE	60.90	861.15	599471.	7.36	81403.	3452.	9.88	0.0450	0.	85.	0.27
MILE	58.80	853.74	599403.	8.70	68903.	2825.	9.10	0.0400	0.	81.	0.31
MILE	57.00	852.12	599353.	8.22	72915.	2990.	9.02	0.0200	0.	77.	0.29
MILE	55.00	849.53	599297.	9.74	61541.	2945.	8.92	0.0200	0.	76.	0.38
MILE	53.10	848.31	599244.	8.03	74635.	3461.	10.66	0.0200	0.	75.	0.30
MILE	51.00	846.89	599173.	8.45	70912.	4608.	10.96	0.0200	0.	78.	0.38
MILE	48.30	846.32	599021.	6.49	92316.	9480.	14.00	0.0200	0.	77.	0.37
MILE	46.20	845.62	598870.	7.12	84132.	9040.	12.96	0.0200	0.	84.	0.41
MILE	44.10	845.72	598766.	4.18	143166.	3864.	11.76	0.0300	0.	91.	0.12
MILE	43.70	843.59	598755.	11.93	50183.	3826.	15.26	0.0300	0.	91.	0.58
MILE	42.00	844.46	598717.	4.41	135856.	3931.	10.68	0.0300	0.	94.	0.13
MILE	39.10	842.10	598661.	8.48	70566.	3839.	14.41	0.0230	0.	91.	0.35
MILE	37.00	842.34	598635.	4.71	127112.	2526.	14.52	0.0280	0.	91.	0.12
MILE	36.00	841.10	598628.	8.83	67824.	1793.	14.96	0.0280	0.	92.	0.25
MILE	34.60	840.81	598621.	6.93	86402.	2622.	16.16	0.0280	0.	92.	0.21
MILE	33.60	841.28	598611.	2.96	202407.	5073.	16.01	0.0290	0.	98.	0.08
MILE	31.50	840.29	598588.	7.20	83118.	3956.	16.37	0.0250	0.	101.	0.28
MILE	30.10	839.99	598584.	6.52	91863.	1498.	15.54	0.0200	0.	99.	0.15
MILE	29.00	839.79	598582.	6.55	91396.	2276.	16.76	0.0200	0.	100.	0.18
MILE	27.30	839.48	598579.	6.69	89435.	2072.	17.34	0.0230	0.	102.	0.18
MILE	25.20	839.25	598577.	5.97	100222.	1986.	18.65	0.0230	0.	105.	0.15
MILE	23.10	838.74	598576.	6.65	89949.	2383.	17.11	0.0230	0.	109.	0.19

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0DATE 10-27-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 20.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	902.59	600000.	13.07	45910.	1165.	10.85	0.0290	0.	84.	0.37
MILE 77.70	900.11	599992.	10.18	58932.	1422.	12.03	0.0400	0.	89.	0.28
MILE 75.60	891.73	599975.	11.61	51657.	3512.	11.04	0.0400	0.	85.	0.53
MILE 73.50	879.92	599943.	13.94	43027.	2648.	11.78	0.0330	0.	81.	0.61
MILE 71.40	877.55	599911.	8.61	69698.	2149.	13.28	0.0400	0.	80.	0.27
MILE 69.30	873.17	599880.	10.34	58003.	2115.	11.96	0.0340	0.	74.	0.35
MILE 67.20	870.97	599818.	6.77	88629.	5794.	11.61	0.0340	0.	80.	0.30
MILE 65.10	866.63	599714.	9.07	66133.	6464.	11.38	0.0320	0.	80.	0.50
MILE 63.00	865.45	599626.	5.13	116820.	3688.	9.84	0.0400	0.	84.	0.16
MILE 60.90	861.16	599563.	7.36	81414.	3452.	9.88	0.0450	0.	85.	0.27
MILE 58.80	853.75	599507.	8.70	68913.	2825.	9.10	0.0400	0.	81.	0.31
MILE 57.00	852.12	599466.	8.22	72925.	2990.	9.02	0.0200	0.	77.	0.29
MILE 55.00	849.54	599421.	9.74	61549.	2945.	8.92	0.0200	0.	76.	0.38
MILE 53.10	848.31	599377.	8.03	74642.	3461.	10.66	0.0200	0.	75.	0.30
MILE 51.00	846.89	599318.	8.45	70919.	4609.	10.96	0.0200	0.	78.	0.38
MILE 48.30	846.33	599193.	6.49	92324.	9481.	14.00	0.0200	0.	77.	0.37
MILE 46.20	845.63	599069.	7.12	84139.	9041.	12.96	0.0200	0.	84.	0.41
MILE 44.10	845.73	598984.	4.18	143179.	3864.	11.76	0.0300	0.	91.	0.12
MILE 43.70	843.59	598975.	11.94	50186.	3826.	15.26	0.0300	0.	91.	0.58
MILE 42.00	844.46	598944.	4.41	135868.	3931.	10.68	0.0300	0.	94.	0.13
MILE 39.10	842.10	598898.	8.49	70569.	3839.	14.41	0.0230	0.	91.	0.35
MILE 37.00	842.34	598876.	4.71	127118.	2526.	14.52	0.0280	0.	91.	0.12
MILE 36.00	841.10	598870.	8.83	67826.	1793.	14.97	0.0280	0.	92.	0.25
MILE 34.60	840.82	598865.	6.93	86404.	2622.	16.16	0.0280	0.	92.	0.21
MILE 33.60	841.28	598857.	2.96	202413.	5073.	16.01	0.0290	0.	98.	0.08
MILE 31.50	840.29	598838.	7.20	83120.	3956.	16.37	0.0250	0.	101.	0.28
MILE 30.10	839.99	598834.	6.52	91865.	1498.	15.54	0.0200	0.	99.	0.15
MILE 29.00	839.79	598832.	6.55	91397.	2276.	16.76	0.0200	0.	100.	0.18
MILE 27.30	839.48	598830.	6.70	89436.	2072.	17.34	0.0230	0.	102.	0.18
MILE 25.20	839.25	598828.	5.97	100223.	1986.	18.65	0.0230	0.	105.	0.15
MILE 23.10	838.74	598827.	6.66	89949.	2383.	17.11	0.0230	0.	109.	0.19

0DATE 10-27-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 21.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	902.59	600000.	13.07	45912.	1165.	10.85	0.0290	0.	84.	0.37
MILE 77.70	900.11	599994.	10.18	58934.	1422.	12.03	0.0400	0.	89.	0.28
MILE 75.60	891.73	599979.	11.61	51659.	3512.	11.04	0.0400	0.	85.	0.53
MILE 73.50	879.92	599953.	13.94	43029.	2648.	11.78	0.0330	0.	81.	0.61
MILE 71.40	877.55	599927.	8.61	69703.	2150.	13.28	0.0400	0.	80.	0.27

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Appendix E		Checked	ACM

MILE 69.30	873.17	599901.	10.34	58007.	2115.	11.96	0.0340	0.	74.	0.35
MILE 67.20	870.97	599849.	6.77	88636.	5795.	11.61	0.0340	0.	80.	0.30
MILE 65.10	866.63	599763.	9.07	66138.	6465.	11.38	0.0320	0.	80.	0.50
MILE 63.00	865.45	599691.	5.13	116832.	3688.	9.84	0.0400	0.	84.	0.16
MILE 60.90	861.16	599639.	7.36	81422.	3452.	9.88	0.0450	0.	85.	0.27
MILE 58.80	853.75	599593.	8.70	68920.	2825.	9.10	0.0400	0.	81.	0.31
MILE 57.00	852.13	599559.	8.22	72933.	2991.	9.02	0.0200	0.	77.	0.29
MILE 55.00	849.54	599522.	9.74	61556.	2946.	8.92	0.0200	0.	76.	0.38
MILE 53.10	848.32	599486.	8.03	74649.	3461.	10.66	0.0200	0.	75.	0.30
MILE 51.00	846.89	599438.	8.45	70924.	4609.	10.96	0.0200	0.	78.	0.38
MILE 48.30	846.33	599335.	6.49	92330.	9482.	14.00	0.0200	0.	77.	0.37
MILE 46.20	845.63	599233.	7.12	84145.	9041.	12.96	0.0200	0.	84.	0.41
MILE 44.10	845.73	599163.	4.18	143189.	3864.	11.76	0.0300	0.	91.	0.12
MILE 43.70	843.59	599155.	11.94	50188.	3826.	15.26	0.0300	0.	91.	0.58
MILE 42.00	844.47	599130.	4.41	135877.	3931.	10.68	0.0300	0.	94.	0.13
MILE 39.10	842.10	599092.	8.49	70571.	3839.	14.41	0.0230	0.	91.	0.35
MILE 37.00	842.34	599074.	4.71	127124.	2526.	14.52	0.0280	0.	91.	0.12
MILE 36.00	841.10	599069.	8.83	67828.	1793.	14.97	0.0280	0.	92.	0.25
MILE 34.60	840.82	599065.	6.93	86405.	2622.	16.16	0.0280	0.	92.	0.21
MILE 33.60	841.28	599058.	2.96	202417.	5074.	16.01	0.0290	0.	98.	0.08
MILE 31.50	840.29	599043.	7.21	83121.	3956.	16.37	0.0250	0.	101.	0.28
MILE 30.10	839.99	599039.	6.52	91866.	1498.	15.54	0.0200	0.	99.	0.15
MILE 29.00	839.79	599038.	6.55	91398.	2276.	16.76	0.0200	0.	100.	0.18
MILE 27.30	839.48	599036.	6.70	89437.	2072.	17.34	0.0230	0.	102.	0.18
MILE 25.20	839.25	599034.	5.98	100223.	1986.	18.65	0.0230	0.	105.	0.15
MILE 23.10	838.74	599034.	6.66	89949.	2383.	17.11	0.0230	0.	109.	0.19

0DATE 10-27-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 22.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	902.60	600000.	13.07	45913.	1165.	10.85	0.0290	0.	84.	0.37
MILE 77.70	900.11	599995.	10.18	58936.	1422.	12.03	0.0400	0.	89.	0.28
MILE 75.60	891.73	599982.	11.61	51661.	3512.	11.04	0.0400	0.	85.	0.53
MILE 73.50	879.93	599961.	13.94	43031.	2648.	11.78	0.0330	0.	81.	0.61
MILE 71.40	877.55	599939.	8.61	69707.	2150.	13.28	0.0400	0.	80.	0.27
MILE 69.30	873.18	599918.	10.34	58010.	2115.	11.96	0.0340	0.	74.	0.35
MILE 67.20	870.97	599875.	6.77	88641.	5795.	11.61	0.0340	0.	80.	0.30
MILE 65.10	866.63	599804.	9.07	66142.	6465.	11.38	0.0320	0.	80.	0.50
MILE 63.00	865.46	599745.	5.13	116842.	3688.	9.84	0.0400	0.	84.	0.16
MILE 60.90	861.17	599702.	7.36	81429.	3452.	9.88	0.0450	0.	85.	0.27
MILE 58.80	853.76	599664.	8.70	68927.	2826.	9.10	0.0400	0.	81.	0.31
MILE 57.00	852.13	599636.	8.22	72940.	2991.	9.02	0.0200	0.	77.	0.29
MILE 55.00	849.55	599605.	9.74	61562.	2946.	8.92	0.0200	0.	76.	0.38
MILE 53.10	848.32	599575.	8.03	74654.	3461.	10.66	0.0200	0.	75.	0.30
MILE 51.00	846.90	599536.	8.45	70929.	4609.	10.96	0.0200	0.	78.	0.38
MILE 48.30	846.34	599451.	6.49	92336.	9482.	14.00	0.0200	0.	77.	0.37

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Appendix E		Checked	ACM

MILE	46.20	845.64	599367.	7.12	84150.	9042.	12.96	0.0200	0.	84.	0.41
MILE	44.10	845.73	599309.	4.19	143198.	3864.	11.76	0.0300	0.	91.	0.12
MILE	43.70	843.59	599303.	11.94	50189.	3826.	15.26	0.0300	0.	91.	0.58
MILE	42.00	844.47	599283.	4.41	135886.	3931.	10.68	0.0300	0.	94.	0.13
MILE	39.10	842.10	599251.	8.49	70573.	3839.	14.41	0.0230	0.	91.	0.35
MILE	37.00	842.34	599237.	4.71	127128.	2526.	14.52	0.0280	0.	91.	0.12
MILE	36.00	841.11	599232.	8.83	67829.	1793.	14.97	0.0280	0.	92.	0.25
MILE	34.60	840.82	599229.	6.93	86406.	2622.	16.16	0.0280	0.	92.	0.21
MILE	33.60	841.29	599223.	2.96	202421.	5074.	16.01	0.0290	0.	98.	0.08
MILE	31.50	840.29	599210.	7.21	83122.	3956.	16.37	0.0250	0.	101.	0.28
MILE	30.10	839.99	599208.	6.52	91866.	1498.	15.54	0.0200	0.	99.	0.15
MILE	29.00	839.79	599207.	6.56	91399.	2276.	16.76	0.0200	0.	100.	0.18
MILE	27.30	839.48	599205.	6.70	89437.	2072.	17.34	0.0230	0.	102.	0.18
MILE	25.20	839.25	599204.	5.98	100223.	1986.	18.65	0.0230	0.	105.	0.15
MILE	23.10	838.74	599203.	6.66	89949.	2383.	17.11	0.0230	0.	109.	0.19

ODATE 10-27-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 23.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE	79.80	902.60	600000.	13.07	45914.	1165.	10.85	0.0290	0.	84.	0.37
MILE	77.70	900.11	599996.	10.18	58937.	1422.	12.03	0.0400	0.	89.	0.28
MILE	75.60	891.73	599985.	11.61	51662.	3512.	11.04	0.0400	0.	85.	0.53
MILE	73.50	879.93	599967.	13.94	43033.	2649.	11.78	0.0330	0.	81.	0.61
MILE	71.40	877.55	599949.	8.61	69710.	2150.	13.28	0.0400	0.	80.	0.27
MILE	69.30	873.18	599932.	10.34	58012.	2115.	11.96	0.0340	0.	74.	0.35
MILE	67.20	870.97	599897.	6.77	88645.	5795.	11.61	0.0340	0.	80.	0.30
MILE	65.10	866.64	599838.	9.07	66146.	6466.	11.38	0.0320	0.	80.	0.50
MILE	63.00	865.46	599789.	5.13	116850.	3688.	9.84	0.0400	0.	84.	0.16
MILE	60.90	861.17	599753.	7.36	81435.	3452.	9.88	0.0450	0.	85.	0.27
MILE	58.80	853.76	599722.	8.70	68932.	2826.	9.10	0.0400	0.	81.	0.31
MILE	57.00	852.13	599699.	8.22	72945.	2991.	9.02	0.0200	0.	77.	0.29
MILE	55.00	849.55	599674.	9.74	61567.	2946.	8.92	0.0200	0.	76.	0.38
MILE	53.10	848.32	599649.	8.03	74658.	3461.	10.66	0.0200	0.	75.	0.30
MILE	51.00	846.90	599616.	8.45	70933.	4609.	10.96	0.0200	0.	78.	0.38
MILE	48.30	846.34	599547.	6.49	92340.	9483.	14.00	0.0200	0.	77.	0.37
MILE	46.20	845.64	599478.	7.12	84154.	9042.	12.96	0.0200	0.	84.	0.41
MILE	44.10	845.73	599430.	4.19	143205.	3864.	11.76	0.0300	0.	91.	0.12
MILE	43.70	843.59	599425.	11.94	50191.	3827.	15.26	0.0300	0.	91.	0.58
MILE	42.00	844.47	599408.	4.41	135892.	3931.	10.68	0.0300	0.	94.	0.13
MILE	39.10	842.10	599382.	8.49	70575.	3839.	14.41	0.0230	0.	91.	0.35
MILE	37.00	842.35	599370.	4.71	127132.	2526.	14.52	0.0280	0.	91.	0.12
MILE	36.00	841.11	599367.	8.84	67830.	1793.	14.97	0.0280	0.	92.	0.25
MILE	34.60	840.82	599364.	6.94	86408.	2622.	16.16	0.0280	0.	92.	0.21
MILE	33.60	841.29	599359.	2.96	202424.	5074.	16.01	0.0290	0.	98.	0.08
MILE	31.50	840.29	599348.	7.21	83123.	3956.	16.37	0.0250	0.	101.	0.28
MILE	30.10	839.99	599346.	6.52	91867.	1498.	15.54	0.0200	0.	99.	0.15

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Appendix E		Checked	ACM

MILE	29.00	839.79	599345.	6.56	91400.	2276.	16.76	0.0200	0.	100.	0.18
MILE	27.30	839.48	599344.	6.70	89437.	2072.	17.34	0.0230	0.	102.	0.18
MILE	25.20	839.25	599343.	5.98	100224.	1986.	18.65	0.0230	0.	105.	0.15
MILE	23.10	838.74	599342.	6.66	89949.	2383.	17.11	0.0230	0.	109.	0.19

ODATE 10-28-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 0.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE	79.80	902.60	600000.	13.07	45915.	1165.	10.85	0.0290	0.	84.	0.37
MILE	77.70	900.11	599996.	10.18	58938.	1422.	12.03	0.0400	0.	89.	0.28
MILE	75.60	891.73	599988.	11.61	51664.	3512.	11.04	0.0400	0.	85.	0.53
MILE	73.50	879.93	599973.	13.94	43034.	2649.	11.78	0.0330	0.	81.	0.61
MILE	71.40	877.55	599958.	8.61	69712.	2150.	13.28	0.0400	0.	80.	0.27
MILE	69.30	873.18	599943.	10.34	58014.	2115.	11.96	0.0340	0.	74.	0.35
MILE	67.20	870.98	599914.	6.77	88648.	5796.	11.61	0.0340	0.	80.	0.30
MILE	65.10	866.64	599866.	9.07	66148.	6466.	11.38	0.0320	0.	80.	0.50
MILE	63.00	865.46	599825.	5.13	116857.	3688.	9.84	0.0400	0.	84.	0.16
MILE	60.90	861.17	599796.	7.36	81440.	3453.	9.88	0.0450	0.	85.	0.27
MILE	58.80	853.76	599770.	8.70	68936.	2826.	9.10	0.0400	0.	81.	0.31
MILE	57.00	852.14	599751.	8.22	72950.	2991.	9.02	0.0200	0.	77.	0.29
MILE	55.00	849.55	599730.	9.74	61571.	2946.	8.92	0.0200	0.	76.	0.38
MILE	53.10	848.33	599710.	8.03	74662.	3461.	10.66	0.0200	0.	75.	0.30
MILE	51.00	846.90	599683.	8.45	70936.	4610.	10.96	0.0200	0.	78.	0.38
MILE	48.30	846.34	599626.	6.49	92343.	9483.	14.00	0.0200	0.	77.	0.37
MILE	46.20	845.64	599568.	7.12	84157.	9042.	12.96	0.0200	0.	84.	0.41
MILE	44.10	845.74	599529.	4.19	143211.	3864.	11.76	0.0300	0.	91.	0.12
MILE	43.70	843.60	599525.	11.94	50192.	3827.	15.26	0.0300	0.	91.	0.58
MILE	42.00	844.47	599511.	4.41	135898.	3932.	10.68	0.0300	0.	94.	0.13
MILE	39.10	842.11	599489.	8.49	70576.	3839.	14.41	0.0230	0.	91.	0.35
MILE	37.00	842.35	599480.	4.72	127135.	2526.	14.52	0.0280	0.	91.	0.12
MILE	36.00	841.11	599477.	8.84	67831.	1793.	14.97	0.0280	0.	92.	0.25
MILE	34.60	840.82	599474.	6.94	86408.	2622.	16.16	0.0280	0.	92.	0.21
MILE	33.60	841.29	599471.	2.96	202427.	5074.	16.01	0.0290	0.	98.	0.08
MILE	31.50	840.29	599462.	7.21	83123.	3956.	16.37	0.0250	0.	101.	0.28
MILE	30.10	840.00	599460.	6.53	91868.	1498.	15.54	0.0200	0.	99.	0.15
MILE	29.00	839.79	599459.	6.56	91400.	2276.	16.76	0.0200	0.	100.	0.18
MILE	27.30	839.48	599458.	6.70	89438.	2072.	17.34	0.0230	0.	102.	0.18
MILE	25.20	839.25	599457.	5.98	100224.	1986.	18.65	0.0230	0.	105.	0.15
MILE	23.10	838.74	599457.	6.66	89949.	2383.	17.11	0.0230	0.	109.	0.19

ODATE 10-28-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 592 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

	TIME 1.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
	INFLOW DEPTH	FROUDE									
MILE	79.80	902.60	600000.	13.07	45916.	1165.	10.85	0.0290	0.	84.	0.37
MILE	77.70	900.11	599997.	10.18	58939.	1422.	12.03	0.0400	0.	89.	0.28
MILE	75.60	891.74	599990.	11.61	51665.	3512.	11.04	0.0400	0.	85.	0.53
MILE	73.50	879.93	599977.	13.94	43035.	2649.	11.78	0.0330	0.	81.	0.61
MILE	71.40	877.56	599965.	8.61	69714.	2150.	13.28	0.0400	0.	80.	0.27
MILE	69.30	873.18	599953.	10.34	58016.	2115.	11.96	0.0340	0.	74.	0.35
MILE	67.20	870.98	599929.	6.77	88651.	5796.	11.61	0.0340	0.	80.	0.30
MILE	65.10	866.64	599889.	9.07	66151.	6466.	11.38	0.0320	0.	80.	0.50
MILE	63.00	865.46	599855.	5.13	116862.	3688.	9.84	0.0400	0.	84.	0.16
MILE	60.90	861.18	599831.	7.36	81444.	3453.	9.88	0.0450	0.	85.	0.27
MILE	58.80	853.76	599809.	8.70	68939.	2826.	9.10	0.0400	0.	81.	0.31
MILE	57.00	852.14	599794.	8.22	72954.	2991.	9.02	0.0200	0.	77.	0.29
MILE	55.00	849.55	599777.	9.74	61574.	2946.	8.92	0.0200	0.	76.	0.38
MILE	53.10	848.33	599760.	8.03	74664.	3461.	10.66	0.0200	0.	75.	0.30
MILE	51.00	846.90	599738.	8.45	70938.	4610.	10.96	0.0200	0.	78.	0.38
MILE	48.30	846.34	599690.	6.49	92346.	9483.	14.00	0.0200	0.	77.	0.37
MILE	46.20	845.64	599643.	7.13	84160.	9043.	12.96	0.0200	0.	84.	0.41
MILE	44.10	845.74	599611.	4.19	143215.	3864.	11.76	0.0300	0.	91.	0.12
MILE	43.70	843.60	599607.	11.95	50193.	3827.	15.26	0.0300	0.	91.	0.58
MILE	42.00	844.47	599596.	4.41	135902.	3932.	10.68	0.0300	0.	94.	0.13
MILE	39.10	842.11	599578.	8.50	70577.	3839.	14.41	0.0230	0.	91.	0.35
MILE	37.00	842.35	599570.	4.72	127137.	2526.	14.52	0.0280	0.	91.	0.12
MILE	36.00	841.11	599568.	8.84	67831.	1793.	14.97	0.0280	0.	92.	0.25
MILE	34.60	840.82	599566.	6.94	86409.	2622.	16.16	0.0280	0.	92.	0.21
MILE	33.60	841.29	599562.	2.96	202429.	5074.	16.01	0.0290	0.	98.	0.08
MILE	31.50	840.29	599555.	7.21	83124.	3956.	16.37	0.0250	0.	101.	0.28
MILE	30.10	840.00	599554.	6.53	91868.	1498.	15.54	0.0200	0.	99.	0.15
MILE	29.00	839.79	599553.	6.56	91401.	2276.	16.76	0.0200	0.	100.	0.18
MILE	27.30	839.48	599552.	6.70	89438.	2072.	17.34	0.0230	0.	102.	0.18
MILE	25.20	839.25	599551.	5.98	100224.	1986.	18.65	0.0230	0.	105.	0.15
MILE	23.10	838.74	599551.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

ODATE 10-28-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 2.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
	INFLOW DEPTH	FROUDE									
MILE	79.80	902.60	600000.	13.07	45916.	1165.	10.85	0.0290	0.	84.	0.37
MILE	77.70	900.12	599997.	10.18	58940.	1422.	12.03	0.0400	0.	89.	0.28
MILE	75.60	891.74	599992.	11.61	51665.	3512.	11.04	0.0400	0.	85.	0.53
MILE	73.50	879.93	599981.	13.94	43036.	2649.	11.78	0.0330	0.	81.	0.61
MILE	71.40	877.56	599971.	8.61	69716.	2150.	13.28	0.0400	0.	80.	0.27
MILE	69.30	873.18	599961.	10.34	58018.	2115.	11.96	0.0340	0.	74.	0.35
MILE	67.20	870.98	599941.	6.77	88653.	5796.	11.61	0.0340	0.	80.	0.30
MILE	65.10	866.64	599908.	9.07	66153.	6466.	11.38	0.0320	0.	80.	0.50

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 593 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	63.00	865.46	599880.	5.13	116867.	3688.	9.84	0.0400	0.	84.	0.16
MILE	60.90	861.18	599860.	7.37	81447.	3453.	9.88	0.0450	0.	85.	0.27
MILE	58.80	853.77	599842.	8.70	68942.	2826.	9.10	0.0400	0.	81.	0.31
MILE	57.00	852.14	599829.	8.22	72957.	2991.	9.02	0.0200	0.	77.	0.29
MILE	55.00	849.56	599815.	9.74	61576.	2946.	8.92	0.0200	0.	76.	0.38
MILE	53.10	848.33	599801.	8.03	74667.	3462.	10.66	0.0200	0.	75.	0.30
MILE	51.00	846.90	599783.	8.45	70940.	4610.	10.96	0.0200	0.	78.	0.38
MILE	48.30	846.34	599744.	6.49	92349.	9483.	14.00	0.0200	0.	77.	0.37
MILE	46.20	845.64	599705.	7.13	84162.	9043.	12.96	0.0200	0.	84.	0.41
MILE	44.10	845.74	599678.	4.19	143219.	3865.	11.76	0.0300	0.	91.	0.12
MILE	43.70	843.60	599675.	11.95	50193.	3827.	15.26	0.0300	0.	91.	0.58
MILE	42.00	844.47	599666.	4.41	135906.	3932.	10.68	0.0300	0.	94.	0.13
MILE	39.10	842.11	599651.	8.50	70578.	3839.	14.41	0.0230	0.	91.	0.35
MILE	37.00	842.35	599644.	4.72	127139.	2526.	14.52	0.0280	0.	91.	0.12
MILE	36.00	841.11	599642.	8.84	67832.	1793.	14.97	0.0280	0.	92.	0.25
MILE	34.60	840.82	599641.	6.94	86410.	2622.	16.16	0.0280	0.	92.	0.21
MILE	33.60	841.29	599638.	2.96	202431.	5074.	16.01	0.0290	0.	98.	0.08
MILE	31.50	840.29	599632.	7.21	83124.	3956.	16.37	0.0250	0.	101.	0.28
MILE	30.10	840.00	599631.	6.53	91869.	1498.	15.54	0.0200	0.	99.	0.15
MILE	29.00	839.79	599630.	6.56	91401.	2276.	16.76	0.0200	0.	100.	0.18
MILE	27.30	839.48	599629.	6.70	89438.	2072.	17.34	0.0230	0.	102.	0.18
MILE	25.20	839.25	599629.	5.98	100224.	1986.	18.65	0.0230	0.	105.	0.15
MILE	23.10	838.74	599628.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

0DATE 10-28-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	3.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
INFLOW	DEPTH	FROUDE									
MILE	79.80	902.60	600000.	13.07	45917.	1165.	10.85	0.0290	0.	84.	0.37
MILE	77.70	900.12	599998.	10.18	58941.	1422.	12.03	0.0400	0.	89.	0.28
MILE	75.60	891.74	599993.	11.61	51666.	3512.	11.04	0.0400	0.	85.	0.53
MILE	73.50	879.93	599984.	13.94	43037.	2649.	11.78	0.0330	0.	81.	0.61
MILE	71.40	877.56	599976.	8.61	69718.	2150.	13.28	0.0400	0.	80.	0.27
MILE	69.30	873.18	599967.	10.34	58019.	2115.	11.96	0.0340	0.	74.	0.35
MILE	67.20	870.98	599951.	6.77	88655.	5796.	11.61	0.0340	0.	80.	0.30
MILE	65.10	866.64	599923.	9.07	66154.	6466.	11.38	0.0320	0.	80.	0.50
MILE	63.00	865.47	599900.	5.13	116870.	3689.	9.84	0.0400	0.	84.	0.16
MILE	60.90	861.18	599884.	7.37	81449.	3453.	9.88	0.0450	0.	85.	0.27
MILE	58.80	853.77	599869.	8.70	68945.	2826.	9.10	0.0400	0.	81.	0.31
MILE	57.00	852.14	599858.	8.22	72960.	2991.	9.02	0.0200	0.	77.	0.29
MILE	55.00	849.56	599847.	9.74	61579.	2946.	8.92	0.0200	0.	76.	0.38
MILE	53.10	848.33	599835.	8.03	74669.	3462.	10.66	0.0200	0.	75.	0.30
MILE	51.00	846.91	599820.	8.46	70942.	4610.	10.96	0.0200	0.	78.	0.38
MILE	48.30	846.34	599788.	6.49	92351.	9484.	14.00	0.0200	0.	77.	0.37
MILE	46.20	845.64	599756.	7.13	84164.	9043.	12.96	0.0200	0.	84.	0.41
MILE	44.10	845.74	599734.	4.19	143223.	3865.	11.76	0.0300	0.	91.	0.12
MILE	43.70	843.60	599731.	11.95	50194.	3827.	15.26	0.0300	0.	91.	0.58

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 594 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	42.00	844.48	599723.	4.41	135909.	3932.	10.68	0.0300	0.	94.	0.13
MILE	39.10	842.11	599711.	8.50	70579.	3839.	14.41	0.0230	0.	91.	0.35
MILE	37.00	842.35	599706.	4.72	127141.	2526.	14.52	0.0280	0.	91.	0.12
MILE	36.00	841.11	599704.	8.84	67833.	1793.	14.97	0.0280	0.	92.	0.25
MILE	34.60	840.82	599703.	6.94	86410.	2622.	16.16	0.0280	0.	92.	0.21
MILE	33.60	841.29	599700.	2.96	202432.	5074.	16.01	0.0290	0.	98.	0.08
MILE	31.50	840.29	599695.	7.21	83125.	3956.	16.37	0.0250	0.	101.	0.28
MILE	30.10	840.00	599694.	6.53	91869.	1498.	15.54	0.0200	0.	99.	0.15
MILE	29.00	839.79	599694.	6.56	91401.	2276.	16.76	0.0200	0.	100.	0.18
MILE	27.30	839.48	599693.	6.71	89438.	2072.	17.34	0.0230	0.	102.	0.18
MILE	25.20	839.25	599693.	5.98	100224.	1986.	18.65	0.0230	0.	105.	0.15
MILE	23.10	838.74	599692.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

ODATE 10-28-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 4.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	902.60	600000.	13.07	45917.	1165.	10.85	0.0290	0.	84.	0.37
MILE	77.70	900.12	599998.	10.18	58941.	1422.	12.03	0.0400	0.	89.	0.28
MILE	75.60	891.74	599994.	11.61	51667.	3512.	11.04	0.0400	0.	85.	0.53
MILE	73.50	879.93	599987.	13.94	43037.	2649.	11.78	0.0330	0.	81.	0.61
MILE	71.40	877.56	599980.	8.61	69719.	2150.	13.28	0.0400	0.	80.	0.27
MILE	69.30	873.19	599973.	10.34	58020.	2115.	11.96	0.0340	0.	74.	0.35
MILE	67.20	870.98	599959.	6.77	88657.	5796.	11.61	0.0340	0.	80.	0.30
MILE	65.10	866.64	599936.	9.07	66156.	6467.	11.38	0.0320	0.	80.	0.50
MILE	63.00	865.47	599917.	5.13	116873.	3689.	9.84	0.0400	0.	84.	0.16
MILE	60.90	861.18	599903.	7.37	81452.	3453.	9.88	0.0450	0.	85.	0.27
MILE	58.80	853.77	599891.	8.70	68946.	2826.	9.10	0.0400	0.	81.	0.31
MILE	57.00	852.14	599882.	8.22	72962.	2991.	9.02	0.0200	0.	77.	0.29
MILE	55.00	849.56	599873.	9.74	61580.	2946.	8.92	0.0200	0.	76.	0.38
MILE	53.10	848.33	599863.	8.03	74670.	3462.	10.66	0.0200	0.	75.	0.30
MILE	51.00	846.91	599851.	8.46	70943.	4610.	10.96	0.0200	0.	78.	0.38
MILE	48.30	846.34	599824.	6.49	92352.	9484.	14.00	0.0200	0.	77.	0.37
MILE	46.20	845.64	599798.	7.13	84165.	9043.	12.96	0.0200	0.	84.	0.41
MILE	44.10	845.74	599779.	4.19	143225.	3865.	11.76	0.0300	0.	91.	0.12
MILE	43.70	843.60	599777.	11.95	50194.	3827.	15.26	0.0300	0.	91.	0.58
MILE	42.00	844.48	599771.	4.41	135911.	3932.	10.68	0.0300	0.	94.	0.13
MILE	39.10	842.11	599761.	8.50	70580.	3839.	14.41	0.0230	0.	91.	0.35
MILE	37.00	842.35	599756.	4.72	127142.	2526.	14.52	0.0280	0.	91.	0.12
MILE	36.00	841.11	599755.	8.84	67833.	1794.	14.97	0.0280	0.	92.	0.25
MILE	34.60	840.82	599754.	6.94	86411.	2622.	16.16	0.0280	0.	92.	0.21
MILE	33.60	841.29	599752.	2.96	202433.	5074.	16.01	0.0290	0.	98.	0.08
MILE	31.50	840.29	599748.	7.22	83125.	3956.	16.37	0.0250	0.	101.	0.28
MILE	30.10	840.00	599747.	6.53	91869.	1498.	15.54	0.0200	0.	99.	0.15
MILE	29.00	839.79	599746.	6.56	91401.	2276.	16.76	0.0200	0.	100.	0.18
MILE	27.30	839.48	599746.	6.71	89438.	2072.	17.34	0.0230	0.	102.	0.18
MILE	25.20	839.25	599745.	5.98	100224.	1986.	18.65	0.0230	0.	105.	0.15

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 595 of 665
Subject: SOCH Model Calibration, Melton Hill			Prepped
Appendix E			Checked
			JAW
			ACM

MILE 23.10 838.74 599745. 6.67 89949. 2383. 17.11 0.0230 0. 109. 0.19

0DATE 10-28-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	5.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL
INFLOW	DEPTH	FROUDE								
MILE	79.80	902.60	600000.	13.07	45918.	1165.	10.85	0.0290	0.	84. 0.37
MILE	77.70	900.12	599998.	10.18	58942.	1422.	12.03	0.0400	0.	89. 0.28
MILE	75.60	891.74	599995.	11.61	51667.	3512.	11.04	0.0400	0.	85. 0.53
MILE	73.50	879.94	599989.	13.94	43038.	2649.	11.78	0.0330	0.	81. 0.61
MILE	71.40	877.56	599983.	8.61	69720.	2150.	13.28	0.0400	0.	80. 0.27
MILE	69.30	873.19	599977.	10.34	58021.	2115.	11.96	0.0340	0.	74. 0.35
MILE	67.20	870.98	599966.	6.77	88658.	5797.	11.61	0.0340	0.	80. 0.30
MILE	65.10	866.64	599947.	9.07	66157.	6467.	11.38	0.0320	0.	80. 0.50
MILE	63.00	865.47	599931.	5.13	116876.	3689.	9.84	0.0400	0.	84. 0.16
MILE	60.90	861.18	599920.	7.37	81453.	3453.	9.88	0.0450	0.	85. 0.27
MILE	58.80	853.77	599910.	8.70	68948.	2826.	9.10	0.0400	0.	81. 0.31
MILE	57.00	852.14	599902.	8.22	72963.	2991.	9.02	0.0200	0.	77. 0.29
MILE	55.00	849.56	599894.	9.74	61582.	2946.	8.92	0.0200	0.	76. 0.38
MILE	53.10	848.33	599887.	8.03	74672.	3462.	10.66	0.0200	0.	75. 0.30
MILE	51.00	846.91	599876.	8.46	70945.	4610.	10.96	0.0200	0.	78. 0.38
MILE	48.30	846.35	599854.	6.50	92354.	9484.	14.00	0.0200	0.	77. 0.37
MILE	46.20	845.64	599832.	7.13	84166.	9043.	12.96	0.0200	0.	84. 0.41
MILE	44.10	845.74	599817.	4.19	143227.	3865.	11.76	0.0300	0.	91. 0.12
MILE	43.70	843.60	599815.	11.95	50195.	3827.	15.26	0.0300	0.	91. 0.58
MILE	42.00	844.48	599810.	4.41	135913.	3932.	10.68	0.0300	0.	94. 0.13
MILE	39.10	842.11	599802.	8.50	70580.	3839.	14.41	0.0230	0.	91. 0.35
MILE	37.00	842.35	599798.	4.72	127143.	2526.	14.52	0.0280	0.	91. 0.12
MILE	36.00	841.11	599797.	8.84	67833.	1794.	14.97	0.0280	0.	92. 0.25
MILE	34.60	840.82	599796.	6.94	86411.	2622.	16.16	0.0280	0.	92. 0.21
MILE	33.60	841.29	599794.	2.96	202434.	5074.	16.01	0.0290	0.	98. 0.08
MILE	31.50	840.29	599791.	7.22	83125.	3956.	16.37	0.0250	0.	101. 0.28
MILE	30.10	840.00	599790.	6.53	91869.	1498.	15.54	0.0200	0.	99. 0.15
MILE	29.00	839.79	599790.	6.56	91402.	2276.	16.76	0.0200	0.	100. 0.18
MILE	27.30	839.48	599789.	6.71	89439.	2072.	17.34	0.0230	0.	102. 0.18
MILE	25.20	839.25	599789.	5.98	100224.	1986.	18.65	0.0230	0.	105. 0.15
MILE	23.10	838.74	599789.	6.67	89949.	2383.	17.11	0.0230	0.	109. 0.19

0DATE 10-28-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	6.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL
INFLOW	DEPTH	FROUDE								
MILE	79.80	902.60	600000.	13.07	45918.	1165.	10.85	0.0290	0.	84. 0.37

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 596 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	77.70	900.12	599999.	10.18	58942.	1422.	12.03	0.0400	0.	89.	0.28
MILE	75.60	891.74	599996.	11.61	51668.	3513.	11.04	0.0400	0.	85.	0.53
MILE	73.50	879.94	599991.	13.94	43038.	2649.	11.78	0.0330	0.	81.	0.61
MILE	71.40	877.56	599986.	8.61	69721.	2150.	13.28	0.0400	0.	80.	0.27
MILE	69.30	873.19	599981.	10.34	58021.	2115.	11.96	0.0340	0.	74.	0.35
MILE	67.20	870.98	599972.	6.77	88659.	5797.	11.61	0.0340	0.	80.	0.30
MILE	65.10	866.65	599956.	9.07	66158.	6467.	11.38	0.0320	0.	80.	0.50
MILE	63.00	865.47	599943.	5.13	116878.	3689.	9.84	0.0400	0.	84.	0.16
MILE	60.90	861.18	599933.	7.37	81455.	3453.	9.88	0.0450	0.	85.	0.27
MILE	58.80	853.77	599925.	8.70	68949.	2826.	9.10	0.0400	0.	81.	0.31
MILE	57.00	852.14	599919.	8.22	72965.	2992.	9.02	0.0200	0.	77.	0.29
MILE	55.00	849.56	599912.	9.74	61583.	2946.	8.92	0.0200	0.	76.	0.38
MILE	53.10	848.33	599906.	8.03	74673.	3462.	10.66	0.0200	0.	75.	0.30
MILE	51.00	846.91	599897.	8.46	70945.	4610.	10.96	0.0200	0.	78.	0.38
MILE	48.30	846.35	599879.	6.50	92355.	9484.	14.00	0.0200	0.	77.	0.37
MILE	46.20	845.65	599861.	7.13	84167.	9043.	12.96	0.0200	0.	84.	0.41
MILE	44.10	845.74	599848.	4.19	143229.	3865.	11.76	0.0300	0.	91.	0.12
MILE	43.70	843.60	599847.	11.95	50195.	3827.	15.26	0.0300	0.	91.	0.58
MILE	42.00	844.48	599842.	4.41	135915.	3932.	10.68	0.0300	0.	94.	0.13
MILE	39.10	842.11	599836.	8.50	70581.	3839.	14.41	0.0230	0.	91.	0.35
MILE	37.00	842.35	599832.	4.72	127144.	2526.	14.52	0.0280	0.	91.	0.12
MILE	36.00	841.11	599832.	8.84	67833.	1794.	14.97	0.0280	0.	92.	0.25
MILE	34.60	840.82	599831.	6.94	86411.	2622.	16.16	0.0280	0.	92.	0.21
MILE	33.60	841.29	599829.	2.96	202435.	5074.	16.01	0.0290	0.	98.	0.08
MILE	31.50	840.29	599827.	7.22	83125.	3956.	16.37	0.0250	0.	101.	0.28
MILE	30.10	840.00	599826.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15
MILE	29.00	839.79	599826.	6.56	91402.	2276.	16.76	0.0200	0.	100.	0.18
MILE	27.30	839.48	599825.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE	25.20	839.25	599825.	5.98	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE	23.10	838.74	599825.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

0DATE 10-28-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	7.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
INFLOW	DEPTH	FROUDE									
MILE	79.80	902.60	600000.	13.07	45918.	1165.	10.85	0.0290	0.	84.	0.37
MILE	77.70	900.12	599999.	10.18	58943.	1422.	12.03	0.0400	0.	89.	0.28
MILE	75.60	891.74	599997.	11.61	51668.	3513.	11.04	0.0400	0.	85.	0.53
MILE	73.50	879.94	599992.	13.94	43039.	2649.	11.78	0.0330	0.	81.	0.61
MILE	71.40	877.56	599988.	8.61	69721.	2150.	13.28	0.0400	0.	80.	0.27
MILE	69.30	873.19	599984.	10.34	58022.	2115.	11.96	0.0340	0.	74.	0.35
MILE	67.20	870.98	599977.	6.77	88660.	5797.	11.61	0.0340	0.	80.	0.30
MILE	65.10	866.65	599963.	9.07	66158.	6467.	11.38	0.0320	0.	80.	0.50
MILE	63.00	865.47	599952.	5.13	116880.	3689.	9.84	0.0400	0.	84.	0.16
MILE	60.90	861.18	599945.	7.37	81456.	3453.	9.88	0.0450	0.	85.	0.27
MILE	58.80	853.77	599938.	8.70	68950.	2826.	9.10	0.0400	0.	81.	0.31
MILE	57.00	852.15	599933.	8.22	72966.	2992.	9.02	0.0200	0.	77.	0.29

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 597 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	55.00	849.56	599927.	9.74	61584.	2946.	8.92	0.0200	0.	76.	0.38
MILE	53.10	848.33	599922.	8.03	74674.	3462.	10.66	0.0200	0.	75.	0.30
MILE	51.00	846.91	599915.	8.46	70946.	4610.	10.96	0.0200	0.	78.	0.38
MILE	48.30	846.35	599900.	6.50	92356.	9484.	14.00	0.0200	0.	77.	0.37
MILE	46.20	845.65	599884.	7.13	84168.	9043.	12.96	0.0200	0.	84.	0.41
MILE	44.10	845.74	599874.	4.19	143231.	3865.	11.76	0.0300	0.	91.	0.12
MILE	43.70	843.60	599873.	11.95	50195.	3827.	15.26	0.0300	0.	91.	0.58
MILE	42.00	844.48	599869.	4.41	135917.	3932.	10.68	0.0300	0.	94.	0.13
MILE	39.10	842.11	599864.	8.50	70581.	3839.	14.41	0.0230	0.	91.	0.35
MILE	37.00	842.35	599861.	4.72	127145.	2526.	14.52	0.0280	0.	91.	0.12
MILE	36.00	841.11	599860.	8.84	67834.	1794.	14.97	0.0280	0.	92.	0.25
MILE	34.60	840.82	599860.	6.94	86411.	2622.	16.16	0.0280	0.	92.	0.21
MILE	33.60	841.29	599859.	2.96	202436.	5074.	16.01	0.0290	0.	98.	0.08
MILE	31.50	840.29	599856.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE	30.10	840.00	599856.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15
MILE	29.00	839.79	599855.	6.56	91402.	2276.	16.76	0.0200	0.	100.	0.18
MILE	27.30	839.48	599855.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE	25.20	839.25	599855.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE	23.10	838.74	599855.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

0DATE 10-28-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 8.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
	INFLOW DEPTH	FROUDE									
MILE	79.80	902.60	600000.	13.07	45919.	1165.	10.85	0.0290	0.	84.	0.37
MILE	77.70	900.12	599999.	10.18	58943.	1422.	12.03	0.0400	0.	89.	0.28
MILE	75.60	891.74	599997.	11.61	51668.	3513.	11.04	0.0400	0.	85.	0.53
MILE	73.50	879.94	599994.	13.94	43039.	2649.	11.78	0.0330	0.	81.	0.61
MILE	71.40	877.56	599990.	8.61	69722.	2150.	13.28	0.0400	0.	80.	0.27
MILE	69.30	873.19	599987.	10.34	58022.	2115.	11.96	0.0340	0.	74.	0.35
MILE	67.20	870.98	599980.	6.77	88661.	5797.	11.61	0.0340	0.	80.	0.30
MILE	65.10	866.65	599970.	9.07	66159.	6467.	11.38	0.0320	0.	80.	0.50
MILE	63.00	865.47	599960.	5.13	116881.	3689.	9.84	0.0400	0.	84.	0.16
MILE	60.90	861.18	599954.	7.37	81457.	3453.	9.88	0.0450	0.	85.	0.27
MILE	58.80	853.77	599948.	8.70	68951.	2826.	9.10	0.0400	0.	81.	0.31
MILE	57.00	852.15	599944.	8.22	72967.	2992.	9.02	0.0200	0.	77.	0.29
MILE	55.00	849.56	599939.	9.74	61585.	2946.	8.92	0.0200	0.	76.	0.38
MILE	53.10	848.34	599935.	8.03	74674.	3462.	10.66	0.0200	0.	75.	0.30
MILE	51.00	846.91	599929.	8.46	70947.	4610.	10.96	0.0200	0.	78.	0.38
MILE	48.30	846.35	599917.	6.50	92356.	9484.	14.00	0.0200	0.	77.	0.37
MILE	46.20	845.65	599904.	7.13	84169.	9043.	12.96	0.0200	0.	84.	0.41
MILE	44.10	845.74	599895.	4.19	143232.	3865.	11.76	0.0300	0.	91.	0.12
MILE	43.70	843.60	599895.	11.95	50196.	3827.	15.26	0.0300	0.	91.	0.58
MILE	42.00	844.48	599891.	4.41	135918.	3932.	10.68	0.0300	0.	94.	0.13
MILE	39.10	842.11	599887.	8.50	70581.	3839.	14.41	0.0230	0.	91.	0.35
MILE	37.00	842.35	599885.	4.72	127145.	2526.	14.52	0.0280	0.	91.	0.12
MILE	36.00	841.11	599884.	8.84	67834.	1794.	14.97	0.0280	0.	92.	0.25

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	34.60	840.82	599883.	6.94	86412.	2622.	16.16	0.0280	0.	92.	0.21
MILE	33.60	841.29	599883.	2.96	202436.	5074.	16.01	0.0290	0.	98.	0.08
MILE	31.50	840.29	599881.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE	30.10	840.00	599880.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15
MILE	29.00	839.79	599880.	6.56	91402.	2276.	16.76	0.0200	0.	100.	0.18
MILE	27.30	839.48	599880.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE	25.20	839.25	599879.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE	23.10	838.74	599879.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

0DATE 10-28-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	9.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL	
INFLOW	DEPTH	FROUDE									
MILE	79.80	902.60	600000.	13.07	45919.	1165.	10.85	0.0290	0.	84.	0.37
MILE	77.70	900.12	599999.	10.18	58943.	1422.	12.03	0.0400	0.	89.	0.28
MILE	75.60	891.74	599998.	11.61	51668.	3513.	11.04	0.0400	0.	85.	0.53
MILE	73.50	879.94	599995.	13.94	43039.	2649.	11.78	0.0330	0.	81.	0.61
MILE	71.40	877.56	599992.	8.61	69722.	2150.	13.28	0.0400	0.	80.	0.27
MILE	69.30	873.19	599989.	10.34	58023.	2115.	11.96	0.0340	0.	74.	0.35
MILE	67.20	870.98	599984.	6.77	88661.	5797.	11.61	0.0340	0.	80.	0.30
MILE	65.10	866.65	599975.	9.07	66160.	6467.	11.38	0.0320	0.	80.	0.50
MILE	63.00	865.47	599967.	5.13	116882.	3689.	9.84	0.0400	0.	84.	0.16
MILE	60.90	861.18	599962.	7.37	81458.	3453.	9.88	0.0450	0.	85.	0.27
MILE	58.80	853.77	599957.	8.70	68952.	2826.	9.10	0.0400	0.	81.	0.31
MILE	57.00	852.15	599953.	8.22	72968.	2992.	9.02	0.0200	0.	77.	0.29
MILE	55.00	849.56	599950.	9.74	61586.	2946.	8.92	0.0200	0.	76.	0.38
MILE	53.10	848.34	599946.	8.03	74675.	3462.	10.66	0.0200	0.	75.	0.30
MILE	51.00	846.91	599941.	8.46	70947.	4610.	10.96	0.0200	0.	78.	0.38
MILE	48.30	846.35	599931.	6.50	92357.	9484.	14.00	0.0200	0.	77.	0.37
MILE	46.20	845.65	599920.	7.13	84169.	9043.	12.96	0.0200	0.	84.	0.41
MILE	44.10	845.74	599913.	4.19	143233.	3865.	11.76	0.0300	0.	91.	0.12
MILE	43.70	843.60	599912.	11.95	50196.	3827.	15.26	0.0300	0.	91.	0.58
MILE	42.00	844.48	599910.	4.41	135919.	3932.	10.68	0.0300	0.	94.	0.13
MILE	39.10	842.11	599906.	8.50	70581.	3839.	14.41	0.0230	0.	91.	0.35
MILE	37.00	842.35	599904.	4.72	127146.	2526.	14.52	0.0280	0.	91.	0.12
MILE	36.00	841.11	599904.	8.84	67834.	1794.	14.97	0.0280	0.	92.	0.25
MILE	34.60	840.82	599903.	6.94	86412.	2623.	16.16	0.0280	0.	92.	0.21
MILE	33.60	841.29	599902.	2.96	202437.	5074.	16.01	0.0290	0.	98.	0.08
MILE	31.50	840.29	599901.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE	30.10	840.00	599900.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15
MILE	29.00	839.79	599900.	6.56	91402.	2276.	16.76	0.0200	0.	100.	0.18
MILE	27.30	839.48	599900.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE	25.20	839.25	599900.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE	23.10	838.74	599900.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

0DATE 10-28-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 10.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL
INFLOW DEPTH	FROUDE							
MILE 79.80	902.60	600000.	13.07	45919.	1165.	10.85	0.0290	0. 84. 0.37
MILE 77.70	900.12	599999.	10.18	58943.	1422.	12.03	0.0400	0. 89. 0.28
MILE 75.60	891.74	599998.	11.61	51669.	3513.	11.04	0.0400	0. 85. 0.53
MILE 73.50	879.94	599996.	13.94	43039.	2649.	11.78	0.0330	0. 81. 0.61
MILE 71.40	877.56	599993.	8.61	69723.	2150.	13.28	0.0400	0. 80. 0.27
MILE 69.30	873.19	599991.	10.34	58023.	2115.	11.96	0.0340	0. 74. 0.35
MILE 67.20	870.99	599986.	6.77	88662.	5797.	11.61	0.0340	0. 80. 0.30
MILE 65.10	866.65	599979.	9.07	66160.	6467.	11.38	0.0320	0. 80. 0.50
MILE 63.00	865.47	599973.	5.13	116883.	3689.	9.84	0.0400	0. 84. 0.16
MILE 60.90	861.18	599968.	7.37	81459.	3453.	9.88	0.0450	0. 85. 0.27
MILE 58.80	853.77	599964.	8.70	68953.	2826.	9.10	0.0400	0. 81. 0.31
MILE 57.00	852.15	599961.	8.22	72969.	2992.	9.02	0.0200	0. 77. 0.29
MILE 55.00	849.56	599958.	9.74	61586.	2946.	8.92	0.0200	0. 76. 0.38
MILE 53.10	848.34	599955.	8.03	74675.	3462.	10.66	0.0200	0. 75. 0.30
MILE 51.00	846.91	599951.	8.46	70948.	4610.	10.96	0.0200	0. 78. 0.38
MILE 48.30	846.35	599942.	6.50	92357.	9484.	14.00	0.0200	0. 77. 0.37
MILE 46.20	845.65	599934.	7.13	84170.	9043.	12.96	0.0200	0. 84. 0.41
MILE 44.10	845.74	599928.	4.19	143234.	3865.	11.76	0.0300	0. 91. 0.12
MILE 43.70	843.60	599927.	11.95	50196.	3827.	15.26	0.0300	0. 91. 0.58
MILE 42.00	844.48	599925.	4.41	135919.	3932.	10.68	0.0300	0. 94. 0.13
MILE 39.10	842.11	599922.	8.50	70582.	3839.	14.41	0.0230	0. 91. 0.35
MILE 37.00	842.35	599920.	4.72	127146.	2526.	14.52	0.0280	0. 91. 0.12
MILE 36.00	841.11	599920.	8.84	67834.	1794.	14.97	0.0280	0. 92. 0.25
MILE 34.60	840.82	599919.	6.94	86412.	2623.	16.16	0.0280	0. 92. 0.21
MILE 33.60	841.29	599919.	2.96	202437.	5074.	16.01	0.0290	0. 98. 0.08
MILE 31.50	840.29	599918.	7.22	83126.	3956.	16.37	0.0250	0. 101. 0.28
MILE 30.10	840.00	599917.	6.53	91870.	1498.	15.54	0.0200	0. 99. 0.15
MILE 29.00	839.79	599917.	6.56	91402.	2276.	16.76	0.0200	0. 100. 0.18
MILE 27.30	839.48	599917.	6.71	89439.	2072.	17.34	0.0230	0. 102. 0.18
MILE 25.20	839.25	599917.	5.99	100225.	1986.	18.65	0.0230	0. 105. 0.15
MILE 23.10	838.74	599917.	6.67	89949.	2383.	17.11	0.0230	0. 109. 0.19

0DATE 10-28-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 11.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL
INFLOW DEPTH	FROUDE							
MILE 79.80	902.60	600000.	13.07	45919.	1165.	10.85	0.0290	0. 84. 0.37
MILE 77.70	900.12	599999.	10.18	58943.	1422.	12.03	0.0400	0. 89. 0.28
MILE 75.60	891.74	599998.	11.61	51669.	3513.	11.04	0.0400	0. 85. 0.53
MILE 73.50	879.94	599996.	13.94	43040.	2649.	11.78	0.0330	0. 81. 0.61
MILE 71.40	877.56	599994.	8.61	69723.	2150.	13.28	0.0400	0. 80. 0.27

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 600 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	69.30	873.19	599992.	10.34	58023.	2115.	11.96	0.0340	0.	74.	0.35
MILE	67.20	870.99	599989.	6.77	88662.	5797.	11.61	0.0340	0.	80.	0.30
MILE	65.10	866.65	599982.	9.07	66160.	6467.	11.38	0.0320	0.	80.	0.50
MILE	63.00	865.47	599977.	5.13	116884.	3689.	9.84	0.0400	0.	84.	0.16
MILE	60.90	861.18	599973.	7.37	81459.	3453.	9.88	0.0450	0.	85.	0.27
MILE	58.80	853.77	599970.	8.70	68953.	2826.	9.10	0.0400	0.	81.	0.31
MILE	57.00	852.15	599968.	8.22	72969.	2992.	9.02	0.0200	0.	77.	0.29
MILE	55.00	849.56	599965.	9.74	61587.	2946.	8.92	0.0200	0.	76.	0.38
MILE	53.10	848.34	599963.	8.03	74676.	3462.	10.66	0.0200	0.	75.	0.30
MILE	51.00	846.91	599959.	8.46	70948.	4610.	10.96	0.0200	0.	78.	0.38
MILE	48.30	846.35	599952.	6.50	92358.	9484.	14.00	0.0200	0.	77.	0.37
MILE	46.20	845.65	599945.	7.13	84170.	9043.	12.96	0.0200	0.	84.	0.41
MILE	44.10	845.74	599940.	4.19	143234.	3865.	11.76	0.0300	0.	91.	0.12
MILE	43.70	843.60	599939.	11.95	50196.	3827.	15.26	0.0300	0.	91.	0.58
MILE	42.00	844.48	599938.	4.41	135920.	3932.	10.68	0.0300	0.	94.	0.13
MILE	39.10	842.11	599935.	8.50	70582.	3839.	14.41	0.0230	0.	91.	0.35
MILE	37.00	842.35	599934.	4.72	127147.	2526.	14.52	0.0280	0.	91.	0.12
MILE	36.00	841.11	599933.	8.84	67834.	1794.	14.97	0.0280	0.	92.	0.25
MILE	34.60	840.82	599933.	6.94	86412.	2623.	16.16	0.0280	0.	92.	0.21
MILE	33.60	841.29	599933.	2.96	202438.	5074.	16.01	0.0290	0.	98.	0.08
MILE	31.50	840.29	599931.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE	30.10	840.00	599931.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15
MILE	29.00	839.79	599931.	6.56	91402.	2276.	16.76	0.0200	0.	100.	0.18
MILE	27.30	839.48	599931.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE	25.20	839.25	599931.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE	23.10	838.74	599931.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

0DATE 10-28-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 12.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
	INFLOW DEPTH	FROUDE									
MILE	79.80	902.60	600000.	13.07	45919.	1165.	10.85	0.0290	0.	84.	0.37
MILE	77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0.	89.	0.28
MILE	75.60	891.74	599999.	11.61	51669.	3513.	11.04	0.0400	0.	85.	0.53
MILE	73.50	879.94	599997.	13.94	43040.	2649.	11.78	0.0330	0.	81.	0.61
MILE	71.40	877.56	599995.	8.61	69723.	2150.	13.28	0.0400	0.	80.	0.27
MILE	69.30	873.19	599994.	10.34	58024.	2115.	11.96	0.0340	0.	74.	0.35
MILE	67.20	870.99	599991.	6.77	88663.	5797.	11.61	0.0340	0.	80.	0.30
MILE	65.10	866.65	599985.	9.07	66161.	6467.	11.38	0.0320	0.	80.	0.50
MILE	63.00	865.47	599981.	5.13	116885.	3689.	9.84	0.0400	0.	84.	0.16
MILE	60.90	861.18	599978.	7.37	81460.	3453.	9.88	0.0450	0.	85.	0.27
MILE	58.80	853.77	599975.	8.70	68954.	2826.	9.10	0.0400	0.	81.	0.31
MILE	57.00	852.15	599973.	8.22	72970.	2992.	9.02	0.0200	0.	77.	0.29
MILE	55.00	849.56	599971.	9.74	61587.	2946.	8.92	0.0200	0.	76.	0.38
MILE	53.10	848.34	599969.	8.03	74676.	3462.	10.66	0.0200	0.	75.	0.30
MILE	51.00	846.91	599966.	8.46	70949.	4610.	10.96	0.0200	0.	78.	0.38
MILE	48.30	846.35	599960.	6.50	92358.	9484.	14.00	0.0200	0.	77.	0.37

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 601 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	46.20	845.65	599954.	7.13	84171.	9043.	12.96	0.0200	0.	84.	0.41
MILE	44.10	845.74	599950.	4.19	143235.	3865.	11.76	0.0300	0.	91.	0.12
MILE	43.70	843.60	599950.	11.95	50196.	3827.	15.26	0.0300	0.	91.	0.58
MILE	42.00	844.48	599948.	4.41	135921.	3932.	10.68	0.0300	0.	94.	0.13
MILE	39.10	842.11	599946.	8.50	70582.	3839.	14.41	0.0230	0.	91.	0.35
MILE	37.00	842.35	599945.	4.72	127147.	2526.	14.52	0.0280	0.	91.	0.12
MILE	36.00	841.11	599945.	8.84	67834.	1794.	14.97	0.0280	0.	92.	0.25
MILE	34.60	840.82	599944.	6.94	86412.	2623.	16.16	0.0280	0.	92.	0.21
MILE	33.60	841.29	599944.	2.96	202438.	5074.	16.01	0.0290	0.	98.	0.08
MILE	31.50	840.29	599943.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE	30.10	840.00	599943.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15
MILE	29.00	839.79	599943.	6.56	91402.	2276.	16.76	0.0200	0.	100.	0.18
MILE	27.30	839.48	599943.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE	25.20	839.25	599942.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE	23.10	838.74	599942.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

0DATE 10-28-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	13.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL	
INFLOW	DEPTH	FROUDE									
MILE	79.80	902.60	600000.	13.07	45919.	1165.	10.85	0.0290	0.	84.	0.37
MILE	77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0.	89.	0.28
MILE	75.60	891.74	599999.	11.61	51669.	3513.	11.04	0.0400	0.	85.	0.53
MILE	73.50	879.94	599997.	13.94	43040.	2649.	11.78	0.0330	0.	81.	0.61
MILE	71.40	877.56	599996.	8.61	69724.	2150.	13.28	0.0400	0.	80.	0.27
MILE	69.30	873.19	599995.	10.34	58024.	2115.	11.96	0.0340	0.	74.	0.35
MILE	67.20	870.99	599992.	6.77	88663.	5797.	11.61	0.0340	0.	80.	0.30
MILE	65.10	866.65	599988.	9.07	66161.	6467.	11.38	0.0320	0.	80.	0.50
MILE	63.00	865.47	599984.	5.13	116885.	3689.	9.84	0.0400	0.	84.	0.16
MILE	60.90	861.18	599982.	7.37	81460.	3453.	9.89	0.0450	0.	85.	0.27
MILE	58.80	853.77	599979.	8.70	68954.	2826.	9.10	0.0400	0.	81.	0.31
MILE	57.00	852.15	599978.	8.22	72970.	2992.	9.02	0.0200	0.	77.	0.29
MILE	55.00	849.56	599976.	9.74	61587.	2946.	8.92	0.0200	0.	76.	0.38
MILE	53.10	848.34	599974.	8.03	74676.	3462.	10.66	0.0200	0.	75.	0.30
MILE	51.00	846.91	599972.	8.46	70949.	4610.	10.96	0.0200	0.	78.	0.38
MILE	48.30	846.35	599967.	6.50	92359.	9484.	14.00	0.0200	0.	77.	0.37
MILE	46.20	845.65	599962.	7.13	84171.	9044.	12.96	0.0200	0.	84.	0.41
MILE	44.10	845.74	599958.	4.19	143236.	3865.	11.76	0.0300	0.	91.	0.12
MILE	43.70	843.60	599958.	11.95	50196.	3827.	15.26	0.0300	0.	91.	0.58
MILE	42.00	844.48	599957.	4.41	135921.	3932.	10.68	0.0300	0.	94.	0.13
MILE	39.10	842.11	599955.	8.50	70582.	3839.	14.41	0.0230	0.	91.	0.35
MILE	37.00	842.35	599954.	4.72	127147.	2526.	14.52	0.0280	0.	91.	0.12
MILE	36.00	841.11	599954.	8.84	67834.	1794.	14.97	0.0280	0.	92.	0.25
MILE	34.60	840.82	599954.	6.94	86412.	2623.	16.16	0.0280	0.	92.	0.21
MILE	33.60	841.29	599953.	2.96	202438.	5074.	16.01	0.0290	0.	98.	0.08
MILE	31.50	840.29	599953.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE	30.10	840.00	599952.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 602 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	29.00	839.79	599952.	6.56	91402.	2276.	16.76	0.0200	0.	100.	0.18
MILE	27.30	839.48	599952.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE	25.20	839.25	599952.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE	23.10	838.74	599952.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

ODATE 10-28-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 14.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE	79.80	902.60	600000.	13.07	45919.	1165.	10.85	0.0290	0.	84.	0.37
MILE	77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0.	89.	0.28
MILE	75.60	891.74	599999.	11.61	51669.	3513.	11.04	0.0400	0.	85.	0.53
MILE	73.50	879.94	599998.	13.94	43040.	2649.	11.78	0.0330	0.	81.	0.61
MILE	71.40	877.56	599997.	8.61	69724.	2150.	13.28	0.0400	0.	80.	0.27
MILE	69.30	873.19	599996.	10.34	58024.	2115.	11.96	0.0340	0.	74.	0.35
MILE	67.20	870.99	599993.	6.77	88663.	5797.	11.61	0.0340	0.	80.	0.30
MILE	65.10	866.65	599990.	9.07	66161.	6467.	11.38	0.0320	0.	80.	0.50
MILE	63.00	865.47	599987.	5.13	116886.	3689.	9.84	0.0400	0.	84.	0.16
MILE	60.90	861.18	599985.	7.37	81460.	3453.	9.89	0.0450	0.	85.	0.27
MILE	58.80	853.77	599983.	8.70	68954.	2826.	9.10	0.0400	0.	81.	0.31
MILE	57.00	852.15	599981.	8.22	72970.	2992.	9.02	0.0200	0.	77.	0.29
MILE	55.00	849.56	599980.	9.74	61588.	2946.	8.92	0.0200	0.	76.	0.38
MILE	53.10	848.34	599978.	8.03	74677.	3462.	10.66	0.0200	0.	75.	0.30
MILE	51.00	846.91	599976.	8.46	70949.	4610.	10.96	0.0200	0.	78.	0.38
MILE	48.30	846.35	599972.	6.50	92359.	9484.	14.00	0.0200	0.	77.	0.37
MILE	46.20	845.65	599968.	7.13	84171.	9044.	12.96	0.0200	0.	84.	0.41
MILE	44.10	845.74	599965.	4.19	143236.	3865.	11.76	0.0300	0.	91.	0.12
MILE	43.70	843.60	599965.	11.95	50196.	3827.	15.26	0.0300	0.	91.	0.58
MILE	42.00	844.48	599964.	4.41	135922.	3932.	10.68	0.0300	0.	94.	0.13
MILE	39.10	842.11	599963.	8.50	70582.	3839.	14.41	0.0230	0.	91.	0.35
MILE	37.00	842.35	599962.	4.72	127147.	2526.	14.52	0.0280	0.	91.	0.12
MILE	36.00	841.11	599962.	8.84	67834.	1794.	14.97	0.0280	0.	92.	0.25
MILE	34.60	840.82	599961.	6.94	86412.	2623.	16.16	0.0280	0.	92.	0.21
MILE	33.60	841.29	599961.	2.96	202438.	5074.	16.01	0.0290	0.	98.	0.08
MILE	31.50	840.29	599961.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE	30.10	840.00	599960.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15
MILE	29.00	839.79	599960.	6.56	91402.	2276.	16.76	0.0200	0.	100.	0.18
MILE	27.30	839.48	599960.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE	25.20	839.25	599960.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE	23.10	838.74	599960.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

ODATE 10-28-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 603 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

TIME 15.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	902.60	600000.	13.07	45919.	1165.	10.85	0.0290	0.	84.	0.37
MILE 77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0.	89.	0.28
MILE 75.60	891.74	599999.	11.61	51669.	3513.	11.04	0.0400	0.	85.	0.53
MILE 73.50	879.94	599998.	13.94	43040.	2649.	11.78	0.0330	0.	81.	0.61
MILE 71.40	877.56	599997.	8.61	69724.	2150.	13.28	0.0400	0.	80.	0.27
MILE 69.30	873.19	599996.	10.34	58024.	2115.	11.96	0.0340	0.	74.	0.35
MILE 67.20	870.99	599995.	6.77	88663.	5797.	11.61	0.0340	0.	80.	0.30
MILE 65.10	866.65	599992.	9.07	66161.	6467.	11.38	0.0320	0.	80.	0.50
MILE 63.00	865.47	599989.	5.13	116886.	3689.	9.84	0.0400	0.	84.	0.16
MILE 60.90	861.18	599987.	7.37	81461.	3453.	9.89	0.0450	0.	85.	0.27
MILE 58.80	853.77	599986.	8.70	68955.	2826.	9.10	0.0400	0.	81.	0.31
MILE 57.00	852.15	599984.	8.22	72971.	2992.	9.02	0.0200	0.	77.	0.29
MILE 55.00	849.56	599983.	9.74	61588.	2946.	8.92	0.0200	0.	76.	0.38
MILE 53.10	848.34	599982.	8.03	74677.	3462.	10.66	0.0200	0.	75.	0.30
MILE 51.00	846.91	599980.	8.46	70949.	4610.	10.96	0.0200	0.	78.	0.38
MILE 48.30	846.35	599977.	6.50	92359.	9484.	14.00	0.0200	0.	77.	0.37
MILE 46.20	845.65	599974.	7.13	84171.	9044.	12.96	0.0200	0.	84.	0.41
MILE 44.10	845.74	599971.	4.19	143236.	3865.	11.76	0.0300	0.	91.	0.12
MILE 43.70	843.60	599971.	11.95	50197.	3827.	15.26	0.0300	0.	91.	0.58
MILE 42.00	844.48	599970.	4.41	135922.	3932.	10.68	0.0300	0.	94.	0.13
MILE 39.10	842.11	599969.	8.50	70582.	3839.	14.41	0.0230	0.	91.	0.35
MILE 37.00	842.35	599968.	4.72	127148.	2526.	14.52	0.0280	0.	91.	0.12
MILE 36.00	841.11	599968.	8.84	67835.	1794.	14.97	0.0280	0.	92.	0.25
MILE 34.60	840.82	599968.	6.94	86412.	2623.	16.16	0.0280	0.	92.	0.21
MILE 33.60	841.29	599968.	2.96	202438.	5074.	16.01	0.0290	0.	98.	0.08
MILE 31.50	840.29	599967.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE 30.10	840.00	599967.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15
MILE 29.00	839.79	599967.	6.56	91402.	2276.	16.76	0.0200	0.	100.	0.18
MILE 27.30	839.48	599967.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE 25.20	839.25	599967.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE 23.10	838.74	599967.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

0DATE 10-28-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 16.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	902.60	600000.	13.07	45920.	1165.	10.85	0.0290	0.	84.	0.37
MILE 77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0.	89.	0.28
MILE 75.60	891.74	599999.	11.61	51669.	3513.	11.04	0.0400	0.	85.	0.53
MILE 73.50	879.94	599999.	13.94	43040.	2649.	11.78	0.0330	0.	81.	0.61
MILE 71.40	877.56	599998.	8.61	69724.	2150.	13.28	0.0400	0.	80.	0.27
MILE 69.30	873.19	599997.	10.34	58024.	2115.	11.96	0.0340	0.	74.	0.35
MILE 67.20	870.99	599995.	6.77	88664.	5797.	11.61	0.0340	0.	80.	0.30
MILE 65.10	866.65	599993.	9.07	66161.	6467.	11.38	0.0320	0.	80.	0.50

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 604 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 63.00	865.47	599991.	5.13	116887.	3689.	9.84	0.0400	0.	84.	0.16
MILE 60.90	861.18	599989.	7.37	81461.	3453.	9.89	0.0450	0.	85.	0.27
MILE 58.80	853.77	599988.	8.70	68955.	2826.	9.10	0.0400	0.	81.	0.31
MILE 57.00	852.15	599987.	8.22	72971.	2992.	9.02	0.0200	0.	77.	0.29
MILE 55.00	849.56	599986.	9.74	61588.	2946.	8.92	0.0200	0.	76.	0.38
MILE 53.10	848.34	599985.	8.03	74677.	3462.	10.66	0.0200	0.	75.	0.30
MILE 51.00	846.91	599984.	8.46	70949.	4610.	10.96	0.0200	0.	78.	0.38
MILE 48.30	846.35	599981.	6.50	92359.	9485.	14.00	0.0200	0.	77.	0.37
MILE 46.20	845.65	599978.	7.13	84171.	9044.	12.96	0.0200	0.	84.	0.41
MILE 44.10	845.74	599976.	4.19	143237.	3865.	11.76	0.0300	0.	91.	0.12
MILE 43.70	843.60	599976.	11.95	50197.	3827.	15.26	0.0300	0.	91.	0.58
MILE 42.00	844.48	599975.	4.41	135922.	3932.	10.68	0.0300	0.	94.	0.13
MILE 39.10	842.11	599974.	8.50	70582.	3839.	14.41	0.0230	0.	91.	0.35
MILE 37.00	842.35	599974.	4.72	127148.	2526.	14.52	0.0280	0.	91.	0.12
MILE 36.00	841.11	599973.	8.84	67835.	1794.	14.97	0.0280	0.	92.	0.25
MILE 34.60	840.82	599973.	6.94	86412.	2623.	16.16	0.0280	0.	92.	0.21
MILE 33.60	841.29	599973.	2.96	202438.	5074.	16.01	0.0290	0.	98.	0.08
MILE 31.50	840.29	599973.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE 30.10	840.00	599972.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15
MILE 29.00	839.79	599972.	6.56	91402.	2276.	16.76	0.0200	0.	100.	0.18
MILE 27.30	839.48	599972.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE 25.20	839.25	599972.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE 23.10	838.74	599972.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

0DATE 10-28-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 17.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
INFLOW DEPTH	FROUDE									
MILE 79.80	902.60	600000.	13.07	45920.	1165.	10.85	0.0290	0.	84.	0.37
MILE 77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0.	89.	0.28
MILE 75.60	891.74	599999.	11.61	51669.	3513.	11.04	0.0400	0.	85.	0.53
MILE 73.50	879.94	599999.	13.94	43040.	2649.	11.78	0.0330	0.	81.	0.61
MILE 71.40	877.56	599998.	8.61	69724.	2150.	13.28	0.0400	0.	80.	0.27
MILE 69.30	873.19	599997.	10.34	58024.	2115.	11.96	0.0340	0.	74.	0.35
MILE 67.20	870.99	599996.	6.77	88664.	5797.	11.61	0.0340	0.	80.	0.30
MILE 65.10	866.65	599994.	9.07	66161.	6467.	11.38	0.0320	0.	80.	0.50
MILE 63.00	865.47	599992.	5.13	116887.	3689.	9.84	0.0400	0.	84.	0.16
MILE 60.90	861.18	599991.	7.37	81461.	3453.	9.89	0.0450	0.	85.	0.27
MILE 58.80	853.77	599990.	8.70	68955.	2826.	9.10	0.0400	0.	81.	0.31
MILE 57.00	852.15	599989.	8.22	72971.	2992.	9.02	0.0200	0.	77.	0.29
MILE 55.00	849.56	599988.	9.74	61588.	2946.	8.92	0.0200	0.	76.	0.38
MILE 53.10	848.34	599987.	8.03	74677.	3462.	10.66	0.0200	0.	75.	0.30
MILE 51.00	846.91	599986.	8.46	70950.	4610.	10.96	0.0200	0.	78.	0.38
MILE 48.30	846.35	599984.	6.50	92359.	9485.	14.00	0.0200	0.	77.	0.37
MILE 46.20	845.65	599982.	7.13	84172.	9044.	12.96	0.0200	0.	84.	0.41
MILE 44.10	845.74	599980.	4.19	143237.	3865.	11.76	0.0300	0.	91.	0.12
MILE 43.70	843.60	599980.	11.95	50197.	3827.	15.26	0.0300	0.	91.	0.58

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 605 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 42.00	844.48	599979.	4.41	135922.	3932.	10.68	0.0300	0.	94.	0.13
MILE 39.10	842.11	599978.	8.50	70582.	3839.	14.41	0.0230	0.	91.	0.35
MILE 37.00	842.35	599978.	4.72	127148.	2526.	14.52	0.0280	0.	91.	0.12
MILE 36.00	841.11	599978.	8.84	67835.	1794.	14.97	0.0280	0.	92.	0.25
MILE 34.60	840.82	599978.	6.94	86412.	2623.	16.16	0.0280	0.	92.	0.21
MILE 33.60	841.29	599978.	2.96	202439.	5074.	16.01	0.0290	0.	98.	0.08
MILE 31.50	840.29	599977.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE 30.10	840.00	599977.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15
MILE 29.00	839.79	599977.	6.56	91402.	2276.	16.76	0.0200	0.	100.	0.18
MILE 27.30	839.48	599977.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE 25.20	839.25	599977.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE 23.10	838.74	599977.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

0DATE 10-28-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 18.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	902.60	600000.	13.07	45920.	1165.	10.85	0.0290	0.	84.	0.37
MILE 77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0.	89.	0.28
MILE 75.60	891.74	600000.	11.61	51669.	3513.	11.04	0.0400	0.	85.	0.53
MILE 73.50	879.94	599999.	13.94	43040.	2649.	11.78	0.0330	0.	81.	0.61
MILE 71.40	877.56	599998.	8.61	69724.	2150.	13.28	0.0400	0.	80.	0.27
MILE 69.30	873.19	599998.	10.34	58024.	2115.	11.96	0.0340	0.	74.	0.35
MILE 67.20	870.99	599997.	6.77	88664.	5797.	11.61	0.0340	0.	80.	0.30
MILE 65.10	866.65	599995.	9.07	66162.	6467.	11.38	0.0320	0.	80.	0.50
MILE 63.00	865.47	599994.	5.13	116887.	3689.	9.84	0.0400	0.	84.	0.16
MILE 60.90	861.18	599993.	7.37	81461.	3453.	9.89	0.0450	0.	85.	0.27
MILE 58.80	853.77	599992.	8.70	68955.	2826.	9.10	0.0400	0.	81.	0.31
MILE 57.00	852.15	599991.	8.22	72971.	2992.	9.02	0.0200	0.	77.	0.29
MILE 55.00	849.56	599990.	9.74	61588.	2946.	8.92	0.0200	0.	76.	0.38
MILE 53.10	848.34	599990.	8.03	74677.	3462.	10.66	0.0200	0.	75.	0.30
MILE 51.00	846.91	599989.	8.46	70950.	4610.	10.96	0.0200	0.	78.	0.38
MILE 48.30	846.35	599987.	6.50	92359.	9485.	14.00	0.0200	0.	77.	0.37
MILE 46.20	845.65	599985.	7.13	84172.	9044.	12.96	0.0200	0.	84.	0.41
MILE 44.10	845.74	599983.	4.19	143237.	3865.	11.76	0.0300	0.	91.	0.12
MILE 43.70	843.60	599983.	11.95	50197.	3827.	15.26	0.0300	0.	91.	0.58
MILE 42.00	844.48	599983.	4.41	135923.	3932.	10.68	0.0300	0.	94.	0.13
MILE 39.10	842.11	599982.	8.50	70582.	3839.	14.41	0.0230	0.	91.	0.35
MILE 37.00	842.35	599982.	4.72	127148.	2526.	14.52	0.0280	0.	91.	0.12
MILE 36.00	841.11	599981.	8.84	67835.	1794.	14.97	0.0280	0.	92.	0.25
MILE 34.60	840.82	599981.	6.94	86412.	2623.	16.16	0.0280	0.	92.	0.21
MILE 33.60	841.29	599981.	2.96	202439.	5074.	16.01	0.0290	0.	98.	0.08
MILE 31.50	840.29	599981.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE 30.10	840.00	599981.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15
MILE 29.00	839.79	599981.	6.56	91402.	2276.	16.76	0.0200	0.	100.	0.18
MILE 27.30	839.48	599981.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE 25.20	839.25	599981.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 606 of 665
Subject: SOCH Model Calibration, Melton Hill			Prepped
Appendix E			Checked
			JAW
			ACM

MILE 23.10 838.74 599981. 6.67 89949. 2383. 17.11 0.0230 0. 109. 0.19

0DATE 10-28-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 19.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	902.60	600000.	13.07	45920.	1165.	10.85	0.0290	0.	84.	0.37
MILE 77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0.	89.	0.28
MILE 75.60	891.74	600000.	11.61	51669.	3513.	11.04	0.0400	0.	85.	0.53
MILE 73.50	879.94	599999.	13.94	43040.	2649.	11.78	0.0330	0.	81.	0.61
MILE 71.40	877.56	599999.	8.61	69724.	2150.	13.28	0.0400	0.	80.	0.27
MILE 69.30	873.19	599998.	10.34	58024.	2115.	11.96	0.0340	0.	74.	0.35
MILE 67.20	870.99	599997.	6.77	88664.	5797.	11.61	0.0340	0.	80.	0.30
MILE 65.10	866.65	599996.	9.07	66162.	6467.	11.38	0.0320	0.	80.	0.50
MILE 63.00	865.47	599995.	5.13	116887.	3689.	9.84	0.0400	0.	84.	0.16
MILE 60.90	861.18	599994.	7.37	81461.	3453.	9.89	0.0450	0.	85.	0.27
MILE 58.80	853.77	599993.	8.70	68955.	2826.	9.10	0.0400	0.	81.	0.31
MILE 57.00	852.15	599992.	8.22	72971.	2992.	9.02	0.0200	0.	77.	0.29
MILE 55.00	849.56	599992.	9.74	61588.	2946.	8.92	0.0200	0.	76.	0.38
MILE 53.10	848.34	599991.	8.03	74677.	3462.	10.66	0.0200	0.	75.	0.30
MILE 51.00	846.91	599991.	8.46	70950.	4610.	10.96	0.0200	0.	78.	0.38
MILE 48.30	846.35	599989.	6.50	92359.	9485.	14.00	0.0200	0.	77.	0.37
MILE 46.20	845.65	599987.	7.13	84172.	9044.	12.96	0.0200	0.	84.	0.41
MILE 44.10	845.74	599986.	4.19	143237.	3865.	11.76	0.0300	0.	91.	0.12
MILE 43.70	843.60	599986.	11.95	50197.	3827.	15.26	0.0300	0.	91.	0.58
MILE 42.00	844.48	599986.	4.41	135923.	3932.	10.68	0.0300	0.	94.	0.13
MILE 39.10	842.11	599985.	8.50	70582.	3839.	14.41	0.0230	0.	91.	0.35
MILE 37.00	842.35	599985.	4.72	127148.	2526.	14.52	0.0280	0.	91.	0.12
MILE 36.00	841.11	599985.	8.84	67835.	1794.	14.97	0.0280	0.	92.	0.25
MILE 34.60	840.82	599984.	6.94	86412.	2623.	16.16	0.0280	0.	92.	0.21
MILE 33.60	841.29	599984.	2.96	202439.	5074.	16.01	0.0290	0.	98.	0.08
MILE 31.50	840.29	599984.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE 30.10	840.00	599984.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15
MILE 29.00	839.79	599984.	6.56	91402.	2276.	16.76	0.0200	0.	100.	0.18
MILE 27.30	839.48	599984.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE 25.20	839.25	599984.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE 23.10	838.74	599984.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

0DATE 10-28-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 20.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80 902.60 600000. 13.07 45920. 1165. 10.85 0.0290 0. 84. 0.37

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 607 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0.	89.	0.28
MILE	75.60	891.74	600000.	11.61	51669.	3513.	11.04	0.0400	0.	85.	0.53
MILE	73.50	879.94	599999.	13.94	43040.	2649.	11.78	0.0330	0.	81.	0.61
MILE	71.40	877.56	599999.	8.61	69724.	2150.	13.28	0.0400	0.	80.	0.27
MILE	69.30	873.19	599999.	10.34	58024.	2115.	11.96	0.0340	0.	74.	0.35
MILE	67.20	870.99	599998.	6.77	88664.	5797.	11.61	0.0340	0.	80.	0.30
MILE	65.10	866.65	599997.	9.07	66162.	6467.	11.38	0.0320	0.	80.	0.50
MILE	63.00	865.47	599996.	5.13	116887.	3689.	9.84	0.0400	0.	84.	0.16
MILE	60.90	861.18	599995.	7.37	81462.	3453.	9.89	0.0450	0.	85.	0.27
MILE	58.80	853.77	599994.	8.70	68955.	2826.	9.10	0.0400	0.	81.	0.31
MILE	57.00	852.15	599994.	8.22	72971.	2992.	9.02	0.0200	0.	77.	0.29
MILE	55.00	849.56	599993.	9.74	61588.	2946.	8.92	0.0200	0.	76.	0.38
MILE	53.10	848.34	599993.	8.03	74677.	3462.	10.66	0.0200	0.	75.	0.30
MILE	51.00	846.91	599992.	8.46	70950.	4610.	10.96	0.0200	0.	78.	0.38
MILE	48.30	846.35	599991.	6.50	92360.	9485.	14.00	0.0200	0.	77.	0.37
MILE	46.20	845.65	599989.	7.13	84172.	9044.	12.96	0.0200	0.	84.	0.41
MILE	44.10	845.74	599988.	4.19	143237.	3865.	11.76	0.0300	0.	91.	0.12
MILE	43.70	843.60	599988.	11.95	50197.	3827.	15.26	0.0300	0.	91.	0.58
MILE	42.00	844.48	599988.	4.41	135923.	3932.	10.68	0.0300	0.	94.	0.13
MILE	39.10	842.11	599987.	8.50	70582.	3839.	14.41	0.0230	0.	91.	0.35
MILE	37.00	842.35	599987.	4.72	127148.	2526.	14.52	0.0280	0.	91.	0.12
MILE	36.00	841.11	599987.	8.84	67835.	1794.	14.97	0.0280	0.	92.	0.25
MILE	34.60	840.82	599987.	6.94	86412.	2623.	16.16	0.0280	0.	92.	0.21
MILE	33.60	841.29	599987.	2.96	202439.	5074.	16.01	0.0290	0.	98.	0.08
MILE	31.50	840.29	599987.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE	30.10	840.00	599987.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15
MILE	29.00	839.79	599987.	6.56	91402.	2276.	16.76	0.0200	0.	100.	0.18
MILE	27.30	839.48	599987.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE	25.20	839.25	599987.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE	23.10	838.74	599987.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

0DATE 10-28-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 21.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	902.60	600000.	13.07	45920.	1165.	10.85	0.0290	0.	84.	0.37
MILE	77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0.	89.	0.28
MILE	75.60	891.74	600000.	11.61	51669.	3513.	11.04	0.0400	0.	85.	0.53
MILE	73.50	879.94	599999.	13.94	43040.	2649.	11.78	0.0330	0.	81.	0.61
MILE	71.40	877.56	599999.	8.61	69724.	2150.	13.28	0.0400	0.	80.	0.27
MILE	69.30	873.19	599999.	10.34	58024.	2115.	11.96	0.0340	0.	74.	0.35
MILE	67.20	870.99	599998.	6.77	88664.	5797.	11.61	0.0340	0.	80.	0.30
MILE	65.10	866.65	599997.	9.07	66162.	6467.	11.38	0.0320	0.	80.	0.50
MILE	63.00	865.47	599996.	5.13	116888.	3689.	9.84	0.0400	0.	84.	0.16
MILE	60.90	861.18	599996.	7.37	81462.	3453.	9.89	0.0450	0.	85.	0.27
MILE	58.80	853.77	599995.	8.70	68955.	2826.	9.10	0.0400	0.	81.	0.31
MILE	57.00	852.15	599995.	8.22	72971.	2992.	9.02	0.0200	0.	77.	0.29

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 608 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	55.00	849.56	599994.	9.74	61589.	2946.	8.92	0.0200	0.	76.	0.38
MILE	53.10	848.34	599994.	8.03	74678.	3462.	10.66	0.0200	0.	75.	0.30
MILE	51.00	846.91	599993.	8.46	70950.	4610.	10.96	0.0200	0.	78.	0.38
MILE	48.30	846.35	599992.	6.50	92360.	9485.	14.00	0.0200	0.	77.	0.37
MILE	46.20	845.65	599991.	7.13	84172.	9044.	12.96	0.0200	0.	84.	0.41
MILE	44.10	845.74	599990.	4.19	143237.	3865.	11.76	0.0300	0.	91.	0.12
MILE	43.70	843.60	599990.	11.95	50197.	3827.	15.26	0.0300	0.	91.	0.58
MILE	42.00	844.48	599990.	4.41	135923.	3932.	10.68	0.0300	0.	94.	0.13
MILE	39.10	842.11	599990.	8.50	70582.	3839.	14.41	0.0230	0.	91.	0.35
MILE	37.00	842.35	599989.	4.72	127148.	2526.	14.52	0.0280	0.	91.	0.12
MILE	36.00	841.11	599989.	8.84	67835.	1794.	14.97	0.0280	0.	92.	0.25
MILE	34.60	840.82	599989.	6.94	86412.	2623.	16.16	0.0280	0.	92.	0.21
MILE	33.60	841.29	599989.	2.96	202439.	5074.	16.01	0.0290	0.	98.	0.08
MILE	31.50	840.29	599989.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE	30.10	840.00	599989.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15
MILE	29.00	839.79	599989.	6.56	91403.	2276.	16.76	0.0200	0.	100.	0.18
MILE	27.30	839.48	599989.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE	25.20	839.25	599989.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE	23.10	838.74	599989.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

0DATE 10-28-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 22.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	902.60	600000.	13.07	45920.	1165.	10.85	0.0290	0.	84.	0.37
MILE	77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0.	89.	0.28
MILE	75.60	891.74	600000.	11.61	51669.	3513.	11.04	0.0400	0.	85.	0.53
MILE	73.50	879.94	599999.	13.94	43040.	2649.	11.78	0.0330	0.	81.	0.61
MILE	71.40	877.56	599999.	8.61	69724.	2150.	13.28	0.0400	0.	80.	0.27
MILE	69.30	873.19	599999.	10.34	58024.	2115.	11.96	0.0340	0.	74.	0.35
MILE	67.20	870.99	599998.	6.77	88664.	5797.	11.61	0.0340	0.	80.	0.30
MILE	65.10	866.65	599998.	9.07	66162.	6467.	11.38	0.0320	0.	80.	0.50
MILE	63.00	865.47	599997.	5.13	116888.	3689.	9.84	0.0400	0.	84.	0.16
MILE	60.90	861.18	599996.	7.37	81462.	3453.	9.89	0.0450	0.	85.	0.27
MILE	58.80	853.77	599996.	8.70	68955.	2826.	9.10	0.0400	0.	81.	0.31
MILE	57.00	852.15	599996.	8.22	72971.	2992.	9.02	0.0200	0.	77.	0.29
MILE	55.00	849.56	599995.	9.74	61589.	2946.	8.92	0.0200	0.	76.	0.38
MILE	53.10	848.34	599995.	8.03	74678.	3462.	10.66	0.0200	0.	75.	0.30
MILE	51.00	846.91	599994.	8.46	70950.	4610.	10.96	0.0200	0.	78.	0.38
MILE	48.30	846.35	599994.	6.50	92360.	9485.	14.00	0.0200	0.	77.	0.37
MILE	46.20	845.65	599993.	7.13	84172.	9044.	12.96	0.0200	0.	84.	0.41
MILE	44.10	845.74	599992.	4.19	143237.	3865.	11.76	0.0300	0.	91.	0.12
MILE	43.70	843.60	599992.	11.95	50197.	3827.	15.26	0.0300	0.	91.	0.58
MILE	42.00	844.48	599992.	4.41	135923.	3932.	10.68	0.0300	0.	94.	0.13
MILE	39.10	842.11	599991.	8.50	70582.	3839.	14.41	0.0230	0.	91.	0.35
MILE	37.00	842.35	599991.	4.72	127148.	2526.	14.52	0.0280	0.	91.	0.12
MILE	36.00	841.11	599991.	8.84	67835.	1794.	14.97	0.0280	0.	92.	0.25

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 609 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 34.60	840.82	599991.	6.94	86412.	2623.	16.16	0.0280	0.	92.	0.21
MILE 33.60	841.29	599991.	2.96	202439.	5074.	16.01	0.0290	0.	98.	0.08
MILE 31.50	840.29	599991.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE 30.10	840.00	599991.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15
MILE 29.00	839.79	599991.	6.56	91403.	2276.	16.76	0.0200	0.	100.	0.18
MILE 27.30	839.48	599991.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE 25.20	839.25	599991.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE 23.10	838.74	599991.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

ODATE 10-28-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 23.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	902.60	600000.	13.07	45920.	1165.	10.85	0.0290	0.	84.	0.37
MILE 77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0.	89.	0.28
MILE 75.60	891.74	600000.	11.61	51670.	3513.	11.04	0.0400	0.	85.	0.53
MILE 73.50	879.94	600000.	13.94	43040.	2649.	11.78	0.0330	0.	81.	0.61
MILE 71.40	877.56	599999.	8.61	69724.	2150.	13.28	0.0400	0.	80.	0.27
MILE 69.30	873.19	599999.	10.34	58024.	2115.	11.96	0.0340	0.	74.	0.35
MILE 67.20	870.99	599999.	6.77	88664.	5797.	11.61	0.0340	0.	80.	0.30
MILE 65.10	866.65	599998.	9.07	66162.	6467.	11.38	0.0320	0.	80.	0.50
MILE 63.00	865.47	599997.	5.13	116888.	3689.	9.84	0.0400	0.	84.	0.16
MILE 60.90	861.18	599997.	7.37	81462.	3453.	9.89	0.0450	0.	85.	0.27
MILE 58.80	853.77	599997.	8.70	68955.	2826.	9.10	0.0400	0.	81.	0.31
MILE 57.00	852.15	599996.	8.22	72972.	2992.	9.02	0.0200	0.	77.	0.29
MILE 55.00	849.56	599996.	9.74	61589.	2946.	8.92	0.0200	0.	76.	0.38
MILE 53.10	848.34	599996.	8.03	74678.	3462.	10.66	0.0200	0.	75.	0.30
MILE 51.00	846.91	599995.	8.46	70950.	4610.	10.96	0.0200	0.	78.	0.38
MILE 48.30	846.35	599995.	6.50	92360.	9485.	14.00	0.0200	0.	77.	0.37
MILE 46.20	845.65	599994.	7.13	84172.	9044.	12.96	0.0200	0.	84.	0.41
MILE 44.10	845.74	599993.	4.19	143237.	3865.	11.76	0.0300	0.	91.	0.12
MILE 43.70	843.60	599993.	11.95	50197.	3827.	15.26	0.0300	0.	91.	0.58
MILE 42.00	844.48	599993.	4.41	135923.	3932.	10.68	0.0300	0.	94.	0.13
MILE 39.10	842.11	599993.	8.50	70582.	3839.	14.41	0.0230	0.	91.	0.35
MILE 37.00	842.35	599993.	4.72	127148.	2526.	14.52	0.0280	0.	91.	0.12
MILE 36.00	841.11	599993.	8.84	67835.	1794.	14.97	0.0280	0.	92.	0.25
MILE 34.60	840.82	599992.	6.94	86412.	2623.	16.16	0.0280	0.	92.	0.21
MILE 33.60	841.29	599992.	2.96	202439.	5074.	16.01	0.0290	0.	98.	0.08
MILE 31.50	840.29	599992.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE 30.10	840.00	599992.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15
MILE 29.00	839.79	599992.	6.56	91403.	2276.	16.76	0.0200	0.	100.	0.18
MILE 27.30	839.48	599992.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE 25.20	839.25	599992.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE 23.10	838.74	599992.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 610 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

0DATE 10-29-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	0.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL
INFLOW	DEPTH	FROUDE								
MILE	79.80	902.60	600000.	13.07	45920.	1165.	10.85	0.0290	0.	84. 0.37
MILE	77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0.	89. 0.28
MILE	75.60	891.74	600000.	11.61	51670.	3513.	11.04	0.0400	0.	85. 0.53
MILE	73.50	879.94	600000.	13.94	43040.	2649.	11.78	0.0330	0.	81. 0.61
MILE	71.40	877.56	599999.	8.61	69725.	2150.	13.28	0.0400	0.	80. 0.27
MILE	69.30	873.19	599999.	10.34	58024.	2115.	11.96	0.0340	0.	74. 0.35
MILE	67.20	870.99	599999.	6.77	88664.	5797.	11.61	0.0340	0.	80. 0.30
MILE	65.10	866.65	599998.	9.07	66162.	6467.	11.38	0.0320	0.	80. 0.50
MILE	63.00	865.47	599998.	5.13	116888.	3689.	9.84	0.0400	0.	84. 0.16
MILE	60.90	861.18	599997.	7.37	81462.	3453.	9.89	0.0450	0.	85. 0.27
MILE	58.80	853.77	599997.	8.70	68956.	2826.	9.10	0.0400	0.	81. 0.31
MILE	57.00	852.15	599997.	8.22	72972.	2992.	9.02	0.0200	0.	77. 0.29
MILE	55.00	849.56	599997.	9.74	61589.	2946.	8.92	0.0200	0.	76. 0.38
MILE	53.10	848.34	599996.	8.03	74678.	3462.	10.66	0.0200	0.	75. 0.30
MILE	51.00	846.91	599996.	8.46	70950.	4610.	10.96	0.0200	0.	78. 0.38
MILE	48.30	846.35	599995.	6.50	92360.	9485.	14.00	0.0200	0.	77. 0.37
MILE	46.20	845.65	599995.	7.13	84172.	9044.	12.96	0.0200	0.	84. 0.41
MILE	44.10	845.74	599994.	4.19	143238.	3865.	11.76	0.0300	0.	91. 0.12
MILE	43.70	843.60	599994.	11.95	50197.	3827.	15.26	0.0300	0.	91. 0.58
MILE	42.00	844.48	599994.	4.41	135923.	3932.	10.68	0.0300	0.	94. 0.13
MILE	39.10	842.11	599994.	8.50	70582.	3839.	14.41	0.0230	0.	91. 0.35
MILE	37.00	842.35	599994.	4.72	127148.	2526.	14.52	0.0280	0.	91. 0.12
MILE	36.00	841.11	599994.	8.84	67835.	1794.	14.97	0.0280	0.	92. 0.25
MILE	34.60	840.82	599994.	6.94	86413.	2623.	16.16	0.0280	0.	92. 0.21
MILE	33.60	841.29	599994.	2.96	202439.	5074.	16.01	0.0290	0.	98. 0.08
MILE	31.50	840.29	599994.	7.22	83126.	3956.	16.37	0.0250	0.	101. 0.28
MILE	30.10	840.00	599994.	6.53	91870.	1498.	15.54	0.0200	0.	99. 0.15
MILE	29.00	839.79	599994.	6.56	91403.	2276.	16.76	0.0200	0.	100. 0.18
MILE	27.30	839.48	599994.	6.71	89439.	2072.	17.34	0.0230	0.	102. 0.18
MILE	25.20	839.25	599994.	5.99	100225.	1986.	18.65	0.0230	0.	105. 0.15
MILE	23.10	838.74	599994.	6.67	89949.	2383.	17.11	0.0230	0.	109. 0.19

0DATE 10-29-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	1.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL
INFLOW	DEPTH	FROUDE								
MILE	79.80	902.60	600000.	13.07	45920.	1165.	10.85	0.0290	0.	84. 0.37
MILE	77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0.	89. 0.28
MILE	75.60	891.74	600000.	11.61	51670.	3513.	11.04	0.0400	0.	85. 0.53
MILE	73.50	879.94	600000.	13.94	43040.	2649.	11.78	0.0330	0.	81. 0.61
MILE	71.40	877.56	600000.	8.61	69725.	2150.	13.28	0.0400	0.	80. 0.27

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 611 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	69.30	873.19	599999.	10.34	58024.	2115.	11.96	0.0340	0.	74.	0.35
MILE	67.20	870.99	599999.	6.77	88664.	5797.	11.61	0.0340	0.	80.	0.30
MILE	65.10	866.65	599999.	9.07	66162.	6467.	11.38	0.0320	0.	80.	0.50
MILE	63.00	865.47	599998.	5.13	116888.	3689.	9.84	0.0400	0.	84.	0.16
MILE	60.90	861.18	599998.	7.37	81462.	3453.	9.89	0.0450	0.	85.	0.27
MILE	58.80	853.77	599998.	8.70	68956.	2826.	9.10	0.0400	0.	81.	0.31
MILE	57.00	852.15	599997.	8.22	72972.	2992.	9.02	0.0200	0.	77.	0.29
MILE	55.00	849.56	599997.	9.74	61589.	2946.	8.92	0.0200	0.	76.	0.38
MILE	53.10	848.34	599997.	8.03	74678.	3462.	10.66	0.0200	0.	75.	0.30
MILE	51.00	846.91	599997.	8.46	70950.	4610.	10.96	0.0200	0.	78.	0.38
MILE	48.30	846.35	599996.	6.50	92360.	9485.	14.00	0.0200	0.	77.	0.37
MILE	46.20	845.65	599996.	7.13	84172.	9044.	12.96	0.0200	0.	84.	0.41
MILE	44.10	845.74	599995.	4.19	143238.	3865.	11.76	0.0300	0.	91.	0.12
MILE	43.70	843.60	599995.	11.95	50197.	3827.	15.26	0.0300	0.	91.	0.58
MILE	42.00	844.48	599995.	4.41	135923.	3932.	10.68	0.0300	0.	94.	0.13
MILE	39.10	842.11	599995.	8.50	70582.	3839.	14.41	0.0230	0.	91.	0.35
MILE	37.00	842.35	599995.	4.72	127148.	2526.	14.52	0.0280	0.	91.	0.12
MILE	36.00	841.11	599995.	8.84	67835.	1794.	14.97	0.0280	0.	92.	0.25
MILE	34.60	840.82	599995.	6.94	86413.	2623.	16.16	0.0280	0.	92.	0.21
MILE	33.60	841.29	599995.	2.96	202439.	5074.	16.01	0.0290	0.	98.	0.08
MILE	31.50	840.29	599995.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE	30.10	840.00	599995.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15
MILE	29.00	839.79	599995.	6.56	91403.	2276.	16.76	0.0200	0.	100.	0.18
MILE	27.30	839.48	599995.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE	25.20	839.25	599995.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE	23.10	838.74	599995.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

0DATE 10-29-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL	
	2.0000	FROUDE									
	INFLOW	DEPTH									
MILE	79.80	902.60	600000.	13.07	45920.	1165.	10.85	0.0290	0.	84.	0.37
MILE	77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0.	89.	0.28
MILE	75.60	891.74	600000.	11.61	51670.	3513.	11.04	0.0400	0.	85.	0.53
MILE	73.50	879.94	600000.	13.94	43040.	2649.	11.78	0.0330	0.	81.	0.61
MILE	71.40	877.56	600000.	8.61	69725.	2150.	13.28	0.0400	0.	80.	0.27
MILE	69.30	873.19	599999.	10.34	58025.	2115.	11.96	0.0340	0.	74.	0.35
MILE	67.20	870.99	599999.	6.77	88664.	5797.	11.61	0.0340	0.	80.	0.30
MILE	65.10	866.65	599999.	9.07	66162.	6467.	11.38	0.0320	0.	80.	0.50
MILE	63.00	865.47	599998.	5.13	116888.	3689.	9.84	0.0400	0.	84.	0.16
MILE	60.90	861.18	599998.	7.37	81462.	3453.	9.89	0.0450	0.	85.	0.27
MILE	58.80	853.77	599998.	8.70	68956.	2826.	9.10	0.0400	0.	81.	0.31
MILE	57.00	852.15	599998.	8.22	72972.	2992.	9.02	0.0200	0.	77.	0.29
MILE	55.00	849.56	599998.	9.74	61589.	2946.	8.92	0.0200	0.	76.	0.38
MILE	53.10	848.34	599998.	8.03	74678.	3462.	10.66	0.0200	0.	75.	0.30
MILE	51.00	846.91	599997.	8.46	70950.	4610.	10.96	0.0200	0.	78.	0.38
MILE	48.30	846.35	599997.	6.50	92360.	9485.	14.00	0.0200	0.	77.	0.37

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 612 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	46.20	845.65	599996.	7.13	84172.	9044.	12.96	0.0200	0.	84.	0.41
MILE	44.10	845.74	599996.	4.19	143238.	3865.	11.76	0.0300	0.	91.	0.12
MILE	43.70	843.60	599996.	11.95	50197.	3827.	15.26	0.0300	0.	91.	0.58
MILE	42.00	844.48	599996.	4.41	135923.	3932.	10.68	0.0300	0.	94.	0.13
MILE	39.10	842.11	599996.	8.50	70582.	3839.	14.41	0.0230	0.	91.	0.35
MILE	37.00	842.35	599996.	4.72	127148.	2526.	14.52	0.0280	0.	91.	0.12
MILE	36.00	841.11	599996.	8.84	67835.	1794.	14.97	0.0280	0.	92.	0.25
MILE	34.60	840.82	599996.	6.94	86413.	2623.	16.16	0.0280	0.	92.	0.21
MILE	33.60	841.29	599996.	2.96	202439.	5074.	16.01	0.0290	0.	98.	0.08
MILE	31.50	840.29	599996.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE	30.10	840.00	599996.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15
MILE	29.00	839.79	599995.	6.56	91403.	2276.	16.76	0.0200	0.	100.	0.18
MILE	27.30	839.48	599995.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE	25.20	839.25	599995.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE	23.10	838.74	599995.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

0DATE 10-29-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL	
	3.0000	FROUDE									
	INFLOW	DEPTH									
MILE	79.80	902.60	600000.	13.07	45920.	1165.	10.85	0.0290	0.	84.	0.37
MILE	77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0.	89.	0.28
MILE	75.60	891.74	600000.	11.61	51670.	3513.	11.04	0.0400	0.	85.	0.53
MILE	73.50	879.94	600000.	13.94	43040.	2649.	11.78	0.0330	0.	81.	0.61
MILE	71.40	877.56	600000.	8.61	69725.	2150.	13.28	0.0400	0.	80.	0.27
MILE	69.30	873.19	600000.	10.34	58025.	2115.	11.96	0.0340	0.	74.	0.35
MILE	67.20	870.99	599999.	6.77	88664.	5797.	11.61	0.0340	0.	80.	0.30
MILE	65.10	866.65	599999.	9.07	66162.	6467.	11.38	0.0320	0.	80.	0.50
MILE	63.00	865.47	599999.	5.13	116888.	3689.	9.84	0.0400	0.	84.	0.16
MILE	60.90	861.18	599999.	7.37	81462.	3453.	9.89	0.0450	0.	85.	0.27
MILE	58.80	853.77	599998.	8.70	68956.	2826.	9.10	0.0400	0.	81.	0.31
MILE	57.00	852.15	599998.	8.22	72972.	2992.	9.02	0.0200	0.	77.	0.29
MILE	55.00	849.56	599998.	9.74	61589.	2946.	8.92	0.0200	0.	76.	0.38
MILE	53.10	848.34	599998.	8.03	74678.	3462.	10.66	0.0200	0.	75.	0.30
MILE	51.00	846.91	599998.	8.46	70950.	4610.	10.96	0.0200	0.	78.	0.38
MILE	48.30	846.35	599997.	6.50	92360.	9485.	14.00	0.0200	0.	77.	0.37
MILE	46.20	845.65	599997.	7.13	84172.	9044.	12.96	0.0200	0.	84.	0.41
MILE	44.10	845.74	599997.	4.19	143238.	3865.	11.76	0.0300	0.	91.	0.12
MILE	43.70	843.60	599997.	11.95	50197.	3827.	15.26	0.0300	0.	91.	0.58
MILE	42.00	844.48	599997.	4.41	135923.	3932.	10.68	0.0300	0.	94.	0.13
MILE	39.10	842.11	599996.	8.50	70582.	3839.	14.41	0.0230	0.	91.	0.35
MILE	37.00	842.35	599996.	4.72	127148.	2526.	14.52	0.0280	0.	91.	0.12
MILE	36.00	841.11	599996.	8.84	67835.	1794.	14.97	0.0280	0.	92.	0.25
MILE	34.60	840.82	599996.	6.94	86413.	2623.	16.16	0.0280	0.	92.	0.21
MILE	33.60	841.29	599996.	2.96	202439.	5074.	16.01	0.0290	0.	98.	0.08
MILE	31.50	840.29	599996.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE	30.10	840.00	599996.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	29.00	839.79	599996.	6.56	91403.	2276.	16.76	0.0200	0.	100.	0.18
MILE	27.30	839.48	599996.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE	25.20	839.25	599996.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE	23.10	838.74	599996.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

0DATE 10-29-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 4.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE	79.80	902.60	600000.	13.07	45920.	1165.	10.85	0.0290	0.	84.	0.37
MILE	77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0.	89.	0.28
MILE	75.60	891.74	600000.	11.61	51670.	3513.	11.04	0.0400	0.	85.	0.53
MILE	73.50	879.94	600000.	13.94	43040.	2649.	11.78	0.0330	0.	81.	0.61
MILE	71.40	877.56	600000.	8.61	69725.	2150.	13.28	0.0400	0.	80.	0.27
MILE	69.30	873.19	600000.	10.34	58025.	2115.	11.96	0.0340	0.	74.	0.35
MILE	67.20	870.99	599999.	6.77	88664.	5797.	11.61	0.0340	0.	80.	0.30
MILE	65.10	866.65	599999.	9.07	66162.	6467.	11.38	0.0320	0.	80.	0.50
MILE	63.00	865.47	599999.	5.13	116888.	3689.	9.84	0.0400	0.	84.	0.16
MILE	60.90	861.18	599999.	7.37	81462.	3453.	9.89	0.0450	0.	85.	0.27
MILE	58.80	853.77	599999.	8.70	68956.	2826.	9.10	0.0400	0.	81.	0.31
MILE	57.00	852.15	599999.	8.22	72972.	2992.	9.02	0.0200	0.	77.	0.29
MILE	55.00	849.56	599998.	9.74	61589.	2946.	8.92	0.0200	0.	76.	0.38
MILE	53.10	848.34	599998.	8.03	74678.	3462.	10.66	0.0200	0.	75.	0.30
MILE	51.00	846.91	599998.	8.46	70950.	4610.	10.96	0.0200	0.	78.	0.38
MILE	48.30	846.35	599998.	6.50	92360.	9485.	14.00	0.0200	0.	77.	0.37
MILE	46.20	845.65	599997.	7.13	84172.	9044.	12.96	0.0200	0.	84.	0.41
MILE	44.10	845.74	599997.	4.19	143238.	3865.	11.76	0.0300	0.	91.	0.12
MILE	43.70	843.60	599997.	11.95	50197.	3827.	15.26	0.0300	0.	91.	0.58
MILE	42.00	844.48	599997.	4.41	135923.	3932.	10.68	0.0300	0.	94.	0.13
MILE	39.10	842.11	599997.	8.50	70582.	3839.	14.41	0.0230	0.	91.	0.35
MILE	37.00	842.35	599997.	4.72	127148.	2526.	14.52	0.0280	0.	91.	0.12
MILE	36.00	841.11	599997.	8.84	67835.	1794.	14.97	0.0280	0.	92.	0.25
MILE	34.60	840.82	599997.	6.94	86413.	2623.	16.16	0.0280	0.	92.	0.21
MILE	33.60	841.29	599997.	2.96	202439.	5074.	16.01	0.0290	0.	98.	0.08
MILE	31.50	840.29	599997.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE	30.10	840.00	599997.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15
MILE	29.00	839.79	599997.	6.56	91403.	2276.	16.76	0.0200	0.	100.	0.18
MILE	27.30	839.48	599997.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE	25.20	839.25	599997.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE	23.10	838.74	599997.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

0DATE 10-29-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

TIME 5.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	902.60	600000.	13.07	45920.	1165.	10.85	0.0290	0.	84.	0.37
MILE 77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0.	89.	0.28
MILE 75.60	891.74	600000.	11.61	51670.	3513.	11.04	0.0400	0.	85.	0.53
MILE 73.50	879.94	600000.	13.94	43040.	2649.	11.78	0.0330	0.	81.	0.61
MILE 71.40	877.56	600000.	8.61	69725.	2150.	13.28	0.0400	0.	80.	0.27
MILE 69.30	873.19	600000.	10.34	58025.	2115.	11.96	0.0340	0.	74.	0.35
MILE 67.20	870.99	600000.	6.77	88664.	5797.	11.61	0.0340	0.	80.	0.30
MILE 65.10	866.65	599999.	9.07	66162.	6467.	11.38	0.0320	0.	80.	0.50
MILE 63.00	865.47	599999.	5.13	116888.	3689.	9.84	0.0400	0.	84.	0.16
MILE 60.90	861.18	599999.	7.37	81462.	3453.	9.89	0.0450	0.	85.	0.27
MILE 58.80	853.77	599999.	8.70	68956.	2826.	9.10	0.0400	0.	81.	0.31
MILE 57.00	852.15	599999.	8.22	72972.	2992.	9.02	0.0200	0.	77.	0.29
MILE 55.00	849.56	599999.	9.74	61589.	2946.	8.92	0.0200	0.	76.	0.38
MILE 53.10	848.34	599999.	8.03	74678.	3462.	10.66	0.0200	0.	75.	0.30
MILE 51.00	846.91	599998.	8.46	70950.	4610.	10.96	0.0200	0.	78.	0.38
MILE 48.30	846.35	599998.	6.50	92360.	9485.	14.00	0.0200	0.	77.	0.37
MILE 46.20	845.65	599998.	7.13	84172.	9044.	12.96	0.0200	0.	84.	0.41
MILE 44.10	845.74	599998.	4.19	143238.	3865.	11.76	0.0300	0.	91.	0.12
MILE 43.70	843.60	599998.	11.95	50197.	3827.	15.26	0.0300	0.	91.	0.58
MILE 42.00	844.48	599998.	4.41	135923.	3932.	10.68	0.0300	0.	94.	0.13
MILE 39.10	842.11	599998.	8.50	70583.	3839.	14.41	0.0230	0.	91.	0.35
MILE 37.00	842.35	599997.	4.72	127148.	2526.	14.52	0.0280	0.	91.	0.12
MILE 36.00	841.11	599997.	8.84	67835.	1794.	14.97	0.0280	0.	92.	0.25
MILE 34.60	840.82	599997.	6.94	86413.	2623.	16.16	0.0280	0.	92.	0.21
MILE 33.60	841.29	599997.	2.96	202439.	5074.	16.01	0.0290	0.	98.	0.08
MILE 31.50	840.29	599997.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE 30.10	840.00	599997.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15
MILE 29.00	839.79	599997.	6.56	91403.	2276.	16.76	0.0200	0.	100.	0.18
MILE 27.30	839.48	599997.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE 25.20	839.25	599997.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE 23.10	838.74	599997.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

0DATE 10-29-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 6.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	902.60	600000.	13.07	45920.	1165.	10.85	0.0290	0.	84.	0.37
MILE 77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0.	89.	0.28
MILE 75.60	891.74	600000.	11.61	51670.	3513.	11.04	0.0400	0.	85.	0.53
MILE 73.50	879.94	600000.	13.94	43040.	2649.	11.78	0.0330	0.	81.	0.61
MILE 71.40	877.56	600000.	8.61	69725.	2150.	13.28	0.0400	0.	80.	0.27
MILE 69.30	873.19	600000.	10.34	58025.	2115.	11.96	0.0340	0.	74.	0.35
MILE 67.20	870.99	600000.	6.77	88664.	5797.	11.61	0.0340	0.	80.	0.30
MILE 65.10	866.65	599999.	9.07	66162.	6467.	11.38	0.0320	0.	80.	0.50

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 615 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	63.00	865.47	599999.	5.13	116888.	3689.	9.84	0.0400	0.	84.	0.16
MILE	60.90	861.18	599999.	7.37	81462.	3453.	9.89	0.0450	0.	85.	0.27
MILE	58.80	853.77	599999.	8.70	68956.	2826.	9.10	0.0400	0.	81.	0.31
MILE	57.00	852.15	599999.	8.22	72972.	2992.	9.02	0.0200	0.	77.	0.29
MILE	55.00	849.56	599999.	9.74	61589.	2946.	8.92	0.0200	0.	76.	0.38
MILE	53.10	848.34	599999.	8.03	74678.	3462.	10.66	0.0200	0.	75.	0.30
MILE	51.00	846.91	599999.	8.46	70950.	4610.	10.96	0.0200	0.	78.	0.38
MILE	48.30	846.35	599998.	6.50	92360.	9485.	14.00	0.0200	0.	77.	0.37
MILE	46.20	845.65	599998.	7.13	84172.	9044.	12.96	0.0200	0.	84.	0.41
MILE	44.10	845.74	599998.	4.19	143238.	3865.	11.76	0.0300	0.	91.	0.12
MILE	43.70	843.60	599998.	11.95	50197.	3827.	15.26	0.0300	0.	91.	0.58
MILE	42.00	844.48	599998.	4.41	135923.	3932.	10.68	0.0300	0.	94.	0.13
MILE	39.10	842.11	599998.	8.50	70583.	3839.	14.41	0.0230	0.	91.	0.35
MILE	37.00	842.35	599998.	4.72	127148.	2526.	14.52	0.0280	0.	91.	0.12
MILE	36.00	841.11	599998.	8.84	67835.	1794.	14.97	0.0280	0.	92.	0.25
MILE	34.60	840.82	599998.	6.94	86413.	2623.	16.16	0.0280	0.	92.	0.21
MILE	33.60	841.29	599998.	2.96	202439.	5074.	16.01	0.0290	0.	98.	0.08
MILE	31.50	840.29	599998.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE	30.10	840.00	599998.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15
MILE	29.00	839.79	599998.	6.56	91403.	2276.	16.76	0.0200	0.	100.	0.18
MILE	27.30	839.48	599998.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE	25.20	839.25	599998.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE	23.10	838.74	599998.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

0DATE 10-29-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	7.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
INFLOW	DEPTH	FROUDE									
MILE	79.80	902.60	600000.	13.07	45920.	1165.	10.85	0.0290	0.	84.	0.37
MILE	77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0.	89.	0.28
MILE	75.60	891.74	600000.	11.61	51670.	3513.	11.04	0.0400	0.	85.	0.53
MILE	73.50	879.94	600000.	13.94	43040.	2649.	11.78	0.0330	0.	81.	0.61
MILE	71.40	877.56	600000.	8.61	69725.	2150.	13.28	0.0400	0.	80.	0.27
MILE	69.30	873.19	600000.	10.34	58025.	2115.	11.96	0.0340	0.	74.	0.35
MILE	67.20	870.99	600000.	6.77	88664.	5797.	11.61	0.0340	0.	80.	0.30
MILE	65.10	866.65	600000.	9.07	66162.	6467.	11.38	0.0320	0.	80.	0.50
MILE	63.00	865.47	599999.	5.13	116888.	3689.	9.84	0.0400	0.	84.	0.16
MILE	60.90	861.18	599999.	7.37	81462.	3453.	9.89	0.0450	0.	85.	0.27
MILE	58.80	853.77	599999.	8.70	68956.	2826.	9.10	0.0400	0.	81.	0.31
MILE	57.00	852.15	599999.	8.22	72972.	2992.	9.02	0.0200	0.	77.	0.29
MILE	55.00	849.56	599999.	9.74	61589.	2946.	8.92	0.0200	0.	76.	0.38
MILE	53.10	848.34	599999.	8.03	74678.	3462.	10.66	0.0200	0.	75.	0.30
MILE	51.00	846.91	599999.	8.46	70950.	4610.	10.96	0.0200	0.	78.	0.38
MILE	48.30	846.35	599999.	6.50	92360.	9485.	14.00	0.0200	0.	77.	0.37
MILE	46.20	845.65	599999.	7.13	84172.	9044.	12.96	0.0200	0.	84.	0.41
MILE	44.10	845.74	599998.	4.19	143238.	3865.	11.76	0.0300	0.	91.	0.12
MILE	43.70	843.60	599998.	11.95	50197.	3827.	15.26	0.0300	0.	91.	0.58

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 616 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 42.00	844.48	599998.	4.41	135923.	3932.	10.68	0.0300	0.	94.	0.13
MILE 39.10	842.11	599998.	8.50	70583.	3839.	14.41	0.0230	0.	91.	0.35
MILE 37.00	842.35	599998.	4.72	127148.	2526.	14.52	0.0280	0.	91.	0.12
MILE 36.00	841.11	599998.	8.84	67835.	1794.	14.97	0.0280	0.	92.	0.25
MILE 34.60	840.82	599998.	6.94	86413.	2623.	16.16	0.0280	0.	92.	0.21
MILE 33.60	841.29	599998.	2.96	202439.	5074.	16.01	0.0290	0.	98.	0.08
MILE 31.50	840.29	599998.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE 30.10	840.00	599998.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15
MILE 29.00	839.79	599998.	6.56	91403.	2276.	16.76	0.0200	0.	100.	0.18
MILE 27.30	839.48	599998.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE 25.20	839.25	599998.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE 23.10	838.74	599998.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

0DATE 10-29-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	8.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL
INFLOW	DEPTH	FROUDE								
MILE 79.80	902.60	600000.	13.07	45920.	1165.	10.85	0.0290	0.	84.	0.37
MILE 77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0.	89.	0.28
MILE 75.60	891.74	600000.	11.61	51670.	3513.	11.04	0.0400	0.	85.	0.53
MILE 73.50	879.94	600000.	13.94	43040.	2649.	11.78	0.0330	0.	81.	0.61
MILE 71.40	877.56	600000.	8.61	69725.	2150.	13.28	0.0400	0.	80.	0.27
MILE 69.30	873.19	600000.	10.34	58025.	2115.	11.96	0.0340	0.	74.	0.35
MILE 67.20	870.99	600000.	6.77	88664.	5797.	11.61	0.0340	0.	80.	0.30
MILE 65.10	866.65	600000.	9.07	66162.	6467.	11.38	0.0320	0.	80.	0.50
MILE 63.00	865.47	599999.	5.13	116888.	3689.	9.84	0.0400	0.	84.	0.16
MILE 60.90	861.18	599999.	7.37	81462.	3453.	9.89	0.0450	0.	85.	0.27
MILE 58.80	853.77	599999.	8.70	68956.	2826.	9.10	0.0400	0.	81.	0.31
MILE 57.00	852.15	599999.	8.22	72972.	2992.	9.02	0.0200	0.	77.	0.29
MILE 55.00	849.56	599999.	9.74	61589.	2946.	8.92	0.0200	0.	76.	0.38
MILE 53.10	848.34	599999.	8.03	74678.	3462.	10.66	0.0200	0.	75.	0.30
MILE 51.00	846.91	599999.	8.46	70950.	4610.	10.96	0.0200	0.	78.	0.38
MILE 48.30	846.35	599999.	6.50	92360.	9485.	14.00	0.0200	0.	77.	0.37
MILE 46.20	845.65	599999.	7.13	84172.	9044.	12.96	0.0200	0.	84.	0.41
MILE 44.10	845.74	599999.	4.19	143238.	3865.	11.76	0.0300	0.	91.	0.12
MILE 43.70	843.60	599999.	11.95	50197.	3827.	15.26	0.0300	0.	91.	0.58
MILE 42.00	844.48	599999.	4.41	135923.	3932.	10.68	0.0300	0.	94.	0.13
MILE 39.10	842.11	599999.	8.50	70583.	3839.	14.41	0.0230	0.	91.	0.35
MILE 37.00	842.35	599999.	4.72	127148.	2526.	14.52	0.0280	0.	91.	0.12
MILE 36.00	841.11	599999.	8.85	67835.	1794.	14.97	0.0280	0.	92.	0.25
MILE 34.60	840.82	599999.	6.94	86413.	2623.	16.16	0.0280	0.	92.	0.21
MILE 33.60	841.29	599998.	2.96	202439.	5074.	16.01	0.0290	0.	98.	0.08
MILE 31.50	840.29	599998.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE 30.10	840.00	599998.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15
MILE 29.00	839.79	599998.	6.56	91403.	2276.	16.76	0.0200	0.	100.	0.18
MILE 27.30	839.48	599998.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE 25.20	839.25	599998.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15

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Appendix E		Checked	ACM

MILE 23.10 838.74 599998. 6.67 89949. 2383. 17.11 0.0230 0. 109. 0.19

ODATE 10-29-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	9.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL
INFLOW	DEPTH	FROUDE							
MILE	79.80	902.60	600000.	13.07	45920.	1165.	10.85	0.0290	0. 84. 0.37
MILE	77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0. 89. 0.28
MILE	75.60	891.74	600000.	11.61	51670.	3513.	11.04	0.0400	0. 85. 0.53
MILE	73.50	879.94	600000.	13.94	43040.	2649.	11.78	0.0330	0. 81. 0.61
MILE	71.40	877.56	600000.	8.61	69725.	2150.	13.28	0.0400	0. 80. 0.27
MILE	69.30	873.19	600000.	10.34	58025.	2115.	11.96	0.0340	0. 74. 0.35
MILE	67.20	870.99	600000.	6.77	88664.	5797.	11.61	0.0340	0. 80. 0.30
MILE	65.10	866.65	600000.	9.07	66162.	6467.	11.38	0.0320	0. 80. 0.50
MILE	63.00	865.47	600000.	5.13	116888.	3689.	9.84	0.0400	0. 84. 0.16
MILE	60.90	861.18	599999.	7.37	81462.	3453.	9.89	0.0450	0. 85. 0.27
MILE	58.80	853.77	599999.	8.70	68956.	2826.	9.10	0.0400	0. 81. 0.31
MILE	57.00	852.15	599999.	8.22	72972.	2992.	9.02	0.0200	0. 77. 0.29
MILE	55.00	849.56	599999.	9.74	61589.	2946.	8.92	0.0200	0. 76. 0.38
MILE	53.10	848.34	599999.	8.03	74678.	3462.	10.66	0.0200	0. 75. 0.30
MILE	51.00	846.91	599999.	8.46	70950.	4610.	10.96	0.0200	0. 78. 0.38
MILE	48.30	846.35	599999.	6.50	92360.	9485.	14.00	0.0200	0. 77. 0.37
MILE	46.20	845.65	599999.	7.13	84172.	9044.	12.96	0.0200	0. 84. 0.41
MILE	44.10	845.74	599999.	4.19	143238.	3865.	11.76	0.0300	0. 91. 0.12
MILE	43.70	843.60	599999.	11.95	50197.	3827.	15.26	0.0300	0. 91. 0.58
MILE	42.00	844.48	599999.	4.41	135923.	3932.	10.68	0.0300	0. 94. 0.13
MILE	39.10	842.11	599999.	8.50	70583.	3839.	14.41	0.0230	0. 91. 0.35
MILE	37.00	842.35	599999.	4.72	127148.	2526.	14.52	0.0280	0. 91. 0.12
MILE	36.00	841.11	599999.	8.85	67835.	1794.	14.97	0.0280	0. 92. 0.25
MILE	34.60	840.82	599999.	6.94	86413.	2623.	16.16	0.0280	0. 92. 0.21
MILE	33.60	841.29	599999.	2.96	202439.	5074.	16.01	0.0290	0. 98. 0.08
MILE	31.50	840.29	599999.	7.22	83126.	3956.	16.37	0.0250	0. 101. 0.28
MILE	30.10	840.00	599999.	6.53	91870.	1498.	15.54	0.0200	0. 99. 0.15
MILE	29.00	839.79	599999.	6.56	91403.	2276.	16.76	0.0200	0. 100. 0.18
MILE	27.30	839.48	599999.	6.71	89439.	2072.	17.34	0.0230	0. 102. 0.18
MILE	25.20	839.25	599999.	5.99	100225.	1986.	18.65	0.0230	0. 105. 0.15
MILE	23.10	838.74	599999.	6.67	89949.	2383.	17.11	0.0230	0. 109. 0.19

ODATE 10-29-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	10.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL
INFLOW	DEPTH	FROUDE							
MILE	79.80	902.60	600000.	13.07	45920.	1165.	10.85	0.0290	0. 84. 0.37

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 618 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0.	89.	0.28
MILE 75.60	891.74	600000.	11.61	51670.	3513.	11.04	0.0400	0.	85.	0.53
MILE 73.50	879.94	600000.	13.94	43040.	2649.	11.78	0.0330	0.	81.	0.61
MILE 71.40	877.56	600000.	8.61	69725.	2150.	13.28	0.0400	0.	80.	0.27
MILE 69.30	873.19	600000.	10.34	58025.	2115.	11.96	0.0340	0.	74.	0.35
MILE 67.20	870.99	600000.	6.77	88664.	5797.	11.61	0.0340	0.	80.	0.30
MILE 65.10	866.65	600000.	9.07	66162.	6467.	11.38	0.0320	0.	80.	0.50
MILE 63.00	865.47	600000.	5.13	116888.	3689.	9.84	0.0400	0.	84.	0.16
MILE 60.90	861.18	600000.	7.37	81462.	3453.	9.89	0.0450	0.	85.	0.27
MILE 58.80	853.77	600000.	8.70	68956.	2826.	9.10	0.0400	0.	81.	0.31
MILE 57.00	852.15	599999.	8.22	72972.	2992.	9.02	0.0200	0.	77.	0.29
MILE 55.00	849.56	599999.	9.74	61589.	2946.	8.92	0.0200	0.	76.	0.38
MILE 53.10	848.34	599999.	8.03	74678.	3462.	10.66	0.0200	0.	75.	0.30
MILE 51.00	846.91	599999.	8.46	70950.	4610.	10.96	0.0200	0.	78.	0.38
MILE 48.30	846.35	599999.	6.50	92360.	9485.	14.00	0.0200	0.	77.	0.37
MILE 46.20	845.65	599999.	7.13	84172.	9044.	12.96	0.0200	0.	84.	0.41
MILE 44.10	845.74	599999.	4.19	143238.	3865.	11.76	0.0300	0.	91.	0.12
MILE 43.70	843.60	599999.	11.95	50197.	3827.	15.26	0.0300	0.	91.	0.58
MILE 42.00	844.48	599999.	4.41	135923.	3932.	10.68	0.0300	0.	94.	0.13
MILE 39.10	842.11	599999.	8.50	70583.	3839.	14.41	0.0230	0.	91.	0.35
MILE 37.00	842.35	599999.	4.72	127148.	2526.	14.52	0.0280	0.	91.	0.12
MILE 36.00	841.11	599999.	8.85	67835.	1794.	14.97	0.0280	0.	92.	0.25
MILE 34.60	840.82	599999.	6.94	86413.	2623.	16.16	0.0280	0.	92.	0.21
MILE 33.60	841.29	599999.	2.96	202439.	5074.	16.01	0.0290	0.	98.	0.08
MILE 31.50	840.29	599999.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE 30.10	840.00	599999.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15
MILE 29.00	839.79	599999.	6.56	91403.	2276.	16.76	0.0200	0.	100.	0.18
MILE 27.30	839.48	599999.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE 25.20	839.25	599999.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE 23.10	838.74	599999.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

ODATE 10-29-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 11.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	902.60	600000.	13.07	45920.	1165.	10.85	0.0290	0.	84.	0.37
MILE 77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0.	89.	0.28
MILE 75.60	891.74	600000.	11.61	51670.	3513.	11.04	0.0400	0.	85.	0.53
MILE 73.50	879.94	600000.	13.94	43040.	2649.	11.78	0.0330	0.	81.	0.61
MILE 71.40	877.56	600000.	8.61	69725.	2150.	13.28	0.0400	0.	80.	0.27
MILE 69.30	873.19	600000.	10.34	58025.	2115.	11.96	0.0340	0.	74.	0.35
MILE 67.20	870.99	600000.	6.77	88664.	5797.	11.61	0.0340	0.	80.	0.30
MILE 65.10	866.65	600000.	9.07	66162.	6467.	11.38	0.0320	0.	80.	0.50
MILE 63.00	865.47	600000.	5.13	116888.	3689.	9.84	0.0400	0.	84.	0.16
MILE 60.90	861.18	600000.	7.37	81462.	3453.	9.89	0.0450	0.	85.	0.27
MILE 58.80	853.77	600000.	8.70	68956.	2826.	9.10	0.0400	0.	81.	0.31
MILE 57.00	852.15	600000.	8.22	72972.	2992.	9.02	0.0200	0.	77.	0.29

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 619 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	55.00	849.56	600000.	9.74	61589.	2946.	8.92	0.0200	0.	76.	0.38
MILE	53.10	848.34	600000.	8.03	74678.	3462.	10.66	0.0200	0.	75.	0.30
MILE	51.00	846.91	599999.	8.46	70950.	4610.	10.96	0.0200	0.	78.	0.38
MILE	48.30	846.35	599999.	6.50	92360.	9485.	14.00	0.0200	0.	77.	0.37
MILE	46.20	845.65	599999.	7.13	84172.	9044.	12.96	0.0200	0.	84.	0.41
MILE	44.10	845.74	599999.	4.19	143238.	3865.	11.76	0.0300	0.	91.	0.12
MILE	43.70	843.60	599999.	11.95	50197.	3827.	15.26	0.0300	0.	91.	0.58
MILE	42.00	844.48	599999.	4.41	135923.	3932.	10.68	0.0300	0.	94.	0.13
MILE	39.10	842.11	599999.	8.50	70583.	3839.	14.41	0.0230	0.	91.	0.35
MILE	37.00	842.35	599999.	4.72	127148.	2526.	14.52	0.0280	0.	91.	0.12
MILE	36.00	841.11	599999.	8.85	67835.	1794.	14.97	0.0280	0.	92.	0.25
MILE	34.60	840.82	599999.	6.94	86413.	2623.	16.16	0.0280	0.	92.	0.21
MILE	33.60	841.29	599999.	2.96	202439.	5074.	16.01	0.0290	0.	98.	0.08
MILE	31.50	840.29	599999.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE	30.10	840.00	599999.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15
MILE	29.00	839.79	599999.	6.56	91403.	2276.	16.76	0.0200	0.	100.	0.18
MILE	27.30	839.48	599999.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE	25.20	839.25	599999.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE	23.10	838.74	599999.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

0DATE 10-29-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 12.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	902.60	600000.	13.07	45920.	1165.	10.85	0.0290	0.	84.	0.37
MILE	77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0.	89.	0.28
MILE	75.60	891.74	600000.	11.61	51670.	3513.	11.04	0.0400	0.	85.	0.53
MILE	73.50	879.94	600000.	13.94	43040.	2649.	11.78	0.0330	0.	81.	0.61
MILE	71.40	877.56	600000.	8.61	69725.	2150.	13.28	0.0400	0.	80.	0.27
MILE	69.30	873.19	600000.	10.34	58025.	2115.	11.96	0.0340	0.	74.	0.35
MILE	67.20	870.99	600000.	6.77	88664.	5797.	11.61	0.0340	0.	80.	0.30
MILE	65.10	866.65	600000.	9.07	66162.	6467.	11.38	0.0320	0.	80.	0.50
MILE	63.00	865.47	600000.	5.13	116888.	3689.	9.84	0.0400	0.	84.	0.16
MILE	60.90	861.18	600000.	7.37	81462.	3453.	9.89	0.0450	0.	85.	0.27
MILE	58.80	853.77	600000.	8.70	68956.	2826.	9.10	0.0400	0.	81.	0.31
MILE	57.00	852.15	600000.	8.22	72972.	2992.	9.02	0.0200	0.	77.	0.29
MILE	55.00	849.56	600000.	9.74	61589.	2946.	8.92	0.0200	0.	76.	0.38
MILE	53.10	848.34	600000.	8.03	74678.	3462.	10.66	0.0200	0.	75.	0.30
MILE	51.00	846.91	600000.	8.46	70950.	4610.	10.96	0.0200	0.	78.	0.38
MILE	48.30	846.35	599999.	6.50	92360.	9485.	14.00	0.0200	0.	77.	0.37
MILE	46.20	845.65	599999.	7.13	84172.	9044.	12.96	0.0200	0.	84.	0.41
MILE	44.10	845.74	599999.	4.19	143238.	3865.	11.76	0.0300	0.	91.	0.12
MILE	43.70	843.60	599999.	11.95	50197.	3827.	15.26	0.0300	0.	91.	0.58
MILE	42.00	844.48	599999.	4.41	135923.	3932.	10.68	0.0300	0.	94.	0.13
MILE	39.10	842.11	599999.	8.50	70583.	3839.	14.41	0.0230	0.	91.	0.35
MILE	37.00	842.35	599999.	4.72	127148.	2526.	14.52	0.0280	0.	91.	0.12
MILE	36.00	841.11	599999.	8.85	67835.	1794.	14.97	0.0280	0.	92.	0.25

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 620 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	34.60	840.82	599999.	6.94	86413.	2623.	16.16	0.0280	0.	92.	0.21
MILE	33.60	841.29	599999.	2.96	202439.	5074.	16.01	0.0290	0.	98.	0.08
MILE	31.50	840.29	599999.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE	30.10	840.00	599999.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15
MILE	29.00	839.79	599999.	6.56	91403.	2276.	16.76	0.0200	0.	100.	0.18
MILE	27.30	839.48	599999.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE	25.20	839.25	599999.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE	23.10	838.74	599999.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

0DATE 10-29-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 13.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
	INFLOW DEPTH	FROUDE									
MILE	79.80	902.60	600000.	13.07	45920.	1165.	10.85	0.0290	0.	84.	0.37
MILE	77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0.	89.	0.28
MILE	75.60	891.74	600000.	11.61	51670.	3513.	11.04	0.0400	0.	85.	0.53
MILE	73.50	879.94	600000.	13.94	43040.	2649.	11.78	0.0330	0.	81.	0.61
MILE	71.40	877.56	600000.	8.61	69725.	2150.	13.28	0.0400	0.	80.	0.27
MILE	69.30	873.19	600000.	10.34	58025.	2115.	11.96	0.0340	0.	74.	0.35
MILE	67.20	870.99	600000.	6.77	88664.	5797.	11.61	0.0340	0.	80.	0.30
MILE	65.10	866.65	600000.	9.07	66162.	6467.	11.38	0.0320	0.	80.	0.50
MILE	63.00	865.47	600000.	5.13	116888.	3689.	9.84	0.0400	0.	84.	0.16
MILE	60.90	861.18	600000.	7.37	81462.	3453.	9.89	0.0450	0.	85.	0.27
MILE	58.80	853.77	600000.	8.70	68956.	2826.	9.10	0.0400	0.	81.	0.31
MILE	57.00	852.15	600000.	8.22	72972.	2992.	9.02	0.0200	0.	77.	0.29
MILE	55.00	849.56	600000.	9.74	61589.	2946.	8.92	0.0200	0.	76.	0.38
MILE	53.10	848.34	600000.	8.03	74678.	3462.	10.66	0.0200	0.	75.	0.30
MILE	51.00	846.91	600000.	8.46	70950.	4610.	10.96	0.0200	0.	78.	0.38
MILE	48.30	846.35	600000.	6.50	92360.	9485.	14.00	0.0200	0.	77.	0.37
MILE	46.20	845.65	599999.	7.13	84172.	9044.	12.96	0.0200	0.	84.	0.41
MILE	44.10	845.74	599999.	4.19	143238.	3865.	11.76	0.0300	0.	91.	0.12
MILE	43.70	843.60	599999.	11.95	50197.	3827.	15.26	0.0300	0.	91.	0.58
MILE	42.00	844.48	599999.	4.41	135923.	3932.	10.68	0.0300	0.	94.	0.13
MILE	39.10	842.11	599999.	8.50	70583.	3839.	14.41	0.0230	0.	91.	0.35
MILE	37.00	842.35	599999.	4.72	127148.	2526.	14.52	0.0280	0.	91.	0.12
MILE	36.00	841.11	599999.	8.85	67835.	1794.	14.97	0.0280	0.	92.	0.25
MILE	34.60	840.82	599999.	6.94	86413.	2623.	16.16	0.0280	0.	92.	0.21
MILE	33.60	841.29	599999.	2.96	202439.	5074.	16.01	0.0290	0.	98.	0.08
MILE	31.50	840.29	599999.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE	30.10	840.00	599999.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15
MILE	29.00	839.79	599999.	6.56	91403.	2276.	16.76	0.0200	0.	100.	0.18
MILE	27.30	839.48	599999.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE	25.20	839.25	599999.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE	23.10	838.74	599999.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 621 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

0DATE 10-29-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 14.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL
INFLOW DEPTH	FROUDE							
MILE 79.80	902.60	600000.	13.07	45920.	1165.	10.85	0.0290	0. 84. 0.37
MILE 77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0. 89. 0.28
MILE 75.60	891.74	600000.	11.61	51670.	3513.	11.04	0.0400	0. 85. 0.53
MILE 73.50	879.94	600000.	13.94	43040.	2649.	11.78	0.0330	0. 81. 0.61
MILE 71.40	877.56	600000.	8.61	69725.	2150.	13.28	0.0400	0. 80. 0.27
MILE 69.30	873.19	600000.	10.34	58025.	2115.	11.96	0.0340	0. 74. 0.35
MILE 67.20	870.99	600000.	6.77	88664.	5797.	11.61	0.0340	0. 80. 0.30
MILE 65.10	866.65	600000.	9.07	66162.	6467.	11.38	0.0320	0. 80. 0.50
MILE 63.00	865.47	600000.	5.13	116888.	3689.	9.84	0.0400	0. 84. 0.16
MILE 60.90	861.18	600000.	7.37	81462.	3453.	9.89	0.0450	0. 85. 0.27
MILE 58.80	853.77	600000.	8.70	68956.	2826.	9.10	0.0400	0. 81. 0.31
MILE 57.00	852.15	600000.	8.22	72972.	2992.	9.02	0.0200	0. 77. 0.29
MILE 55.00	849.56	600000.	9.74	61589.	2946.	8.92	0.0200	0. 76. 0.38
MILE 53.10	848.34	600000.	8.03	74678.	3462.	10.66	0.0200	0. 75. 0.30
MILE 51.00	846.91	600000.	8.46	70950.	4610.	10.96	0.0200	0. 78. 0.38
MILE 48.30	846.35	600000.	6.50	92360.	9485.	14.00	0.0200	0. 77. 0.37
MILE 46.20	845.65	600000.	7.13	84172.	9044.	12.96	0.0200	0. 84. 0.41
MILE 44.10	845.74	600000.	4.19	143238.	3865.	11.76	0.0300	0. 91. 0.12
MILE 43.70	843.60	600000.	11.95	50197.	3827.	15.26	0.0300	0. 91. 0.58
MILE 42.00	844.48	600000.	4.41	135923.	3932.	10.68	0.0300	0. 94. 0.13
MILE 39.10	842.11	600000.	8.50	70583.	3839.	14.41	0.0230	0. 91. 0.35
MILE 37.00	842.35	599999.	4.72	127148.	2526.	14.52	0.0280	0. 91. 0.12
MILE 36.00	841.11	599999.	8.85	67835.	1794.	14.97	0.0280	0. 92. 0.25
MILE 34.60	840.82	599999.	6.94	86413.	2623.	16.16	0.0280	0. 92. 0.21
MILE 33.60	841.29	599999.	2.96	202439.	5074.	16.01	0.0290	0. 98. 0.08
MILE 31.50	840.29	599999.	7.22	83126.	3956.	16.37	0.0250	0. 101. 0.28
MILE 30.10	840.00	599999.	6.53	91870.	1498.	15.54	0.0200	0. 99. 0.15
MILE 29.00	839.79	599999.	6.56	91403.	2276.	16.76	0.0200	0. 100. 0.18
MILE 27.30	839.48	599999.	6.71	89439.	2072.	17.34	0.0230	0. 102. 0.18
MILE 25.20	839.25	599999.	5.99	100225.	1986.	18.65	0.0230	0. 105. 0.15
MILE 23.10	838.74	599999.	6.67	89949.	2383.	17.11	0.0230	0. 109. 0.19

0DATE 10-29-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 15.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL
INFLOW DEPTH	FROUDE							
MILE 79.80	902.60	600000.	13.07	45920.	1165.	10.85	0.0290	0. 84. 0.37
MILE 77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0. 89. 0.28
MILE 75.60	891.74	600000.	11.61	51670.	3513.	11.04	0.0400	0. 85. 0.53
MILE 73.50	879.94	600000.	13.94	43040.	2649.	11.78	0.0330	0. 81. 0.61
MILE 71.40	877.56	600000.	8.61	69725.	2150.	13.28	0.0400	0. 80. 0.27

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 622 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 69.30	873.19	600000.	10.34	58025.	2115.	11.96	0.0340	0.	74.	0.35
MILE 67.20	870.99	600000.	6.77	88664.	5797.	11.61	0.0340	0.	80.	0.30
MILE 65.10	866.65	600000.	9.07	66162.	6467.	11.38	0.0320	0.	80.	0.50
MILE 63.00	865.47	600000.	5.13	116888.	3689.	9.84	0.0400	0.	84.	0.16
MILE 60.90	861.18	600000.	7.37	81462.	3453.	9.89	0.0450	0.	85.	0.27
MILE 58.80	853.77	600000.	8.70	68956.	2826.	9.10	0.0400	0.	81.	0.31
MILE 57.00	852.15	600000.	8.22	72972.	2992.	9.02	0.0200	0.	77.	0.29
MILE 55.00	849.56	600000.	9.74	61589.	2946.	8.92	0.0200	0.	76.	0.38
MILE 53.10	848.34	600000.	8.03	74678.	3462.	10.66	0.0200	0.	75.	0.30
MILE 51.00	846.91	600000.	8.46	70950.	4610.	10.96	0.0200	0.	78.	0.38
MILE 48.30	846.35	600000.	6.50	92360.	9485.	14.00	0.0200	0.	77.	0.37
MILE 46.20	845.65	600000.	7.13	84172.	9044.	12.96	0.0200	0.	84.	0.41
MILE 44.10	845.74	600000.	4.19	143238.	3865.	11.76	0.0300	0.	91.	0.12
MILE 43.70	843.60	600000.	11.95	50197.	3827.	15.26	0.0300	0.	91.	0.58
MILE 42.00	844.48	600000.	4.41	135923.	3932.	10.68	0.0300	0.	94.	0.13
MILE 39.10	842.11	600000.	8.50	70583.	3839.	14.41	0.0230	0.	91.	0.35
MILE 37.00	842.35	600000.	4.72	127148.	2526.	14.52	0.0280	0.	91.	0.12
MILE 36.00	841.11	600000.	8.85	67835.	1794.	14.97	0.0280	0.	92.	0.25
MILE 34.60	840.82	600000.	6.94	86413.	2623.	16.16	0.0280	0.	92.	0.21
MILE 33.60	841.29	600000.	2.96	202439.	5074.	16.01	0.0290	0.	98.	0.08
MILE 31.50	840.29	600000.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE 30.10	840.00	600000.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15
MILE 29.00	839.79	600000.	6.56	91403.	2276.	16.76	0.0200	0.	100.	0.18
MILE 27.30	839.48	600000.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE 25.20	839.25	600000.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE 23.10	838.74	600000.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

0DATE 10-29-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 16.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL		
INFLOW DEPTH	FROUDE									
MILE 79.80	902.60	600000.	13.07	45920.	1165.	10.85	0.0290	0.	84.	0.37
MILE 77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0.	89.	0.28
MILE 75.60	891.74	600000.	11.61	51670.	3513.	11.04	0.0400	0.	85.	0.53
MILE 73.50	879.94	600000.	13.94	43040.	2649.	11.78	0.0330	0.	81.	0.61
MILE 71.40	877.56	600000.	8.61	69725.	2150.	13.28	0.0400	0.	80.	0.27
MILE 69.30	873.19	600000.	10.34	58025.	2115.	11.96	0.0340	0.	74.	0.35
MILE 67.20	870.99	600000.	6.77	88664.	5797.	11.61	0.0340	0.	80.	0.30
MILE 65.10	866.65	600000.	9.07	66162.	6467.	11.38	0.0320	0.	80.	0.50
MILE 63.00	865.47	600000.	5.13	116888.	3689.	9.84	0.0400	0.	84.	0.16
MILE 60.90	861.18	600000.	7.37	81462.	3453.	9.89	0.0450	0.	85.	0.27
MILE 58.80	853.77	600000.	8.70	68956.	2826.	9.10	0.0400	0.	81.	0.31
MILE 57.00	852.15	600000.	8.22	72972.	2992.	9.02	0.0200	0.	77.	0.29
MILE 55.00	849.56	600000.	9.74	61589.	2946.	8.92	0.0200	0.	76.	0.38
MILE 53.10	848.34	600000.	8.03	74678.	3462.	10.66	0.0200	0.	75.	0.30
MILE 51.00	846.91	600000.	8.46	70950.	4610.	10.96	0.0200	0.	78.	0.38
MILE 48.30	846.35	600000.	6.50	92360.	9485.	14.00	0.0200	0.	77.	0.37

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 623 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 46.20	845.65	600000.	7.13	84172.	9044.	12.96	0.0200	0.	84.	0.41
MILE 44.10	845.74	600000.	4.19	143238.	3865.	11.76	0.0300	0.	91.	0.12
MILE 43.70	843.60	600000.	11.95	50197.	3827.	15.26	0.0300	0.	91.	0.58
MILE 42.00	844.48	600000.	4.41	135923.	3932.	10.68	0.0300	0.	94.	0.13
MILE 39.10	842.11	600000.	8.50	70583.	3839.	14.41	0.0230	0.	91.	0.35
MILE 37.00	842.35	600000.	4.72	127148.	2526.	14.52	0.0280	0.	91.	0.12
MILE 36.00	841.11	600000.	8.85	67835.	1794.	14.97	0.0280	0.	92.	0.25
MILE 34.60	840.82	600000.	6.94	86413.	2623.	16.16	0.0280	0.	92.	0.21
MILE 33.60	841.29	600000.	2.96	202439.	5074.	16.01	0.0290	0.	98.	0.08
MILE 31.50	840.29	600000.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE 30.10	840.00	600000.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15
MILE 29.00	839.79	600000.	6.56	91403.	2276.	16.76	0.0200	0.	100.	0.18
MILE 27.30	839.48	600000.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE 25.20	839.25	600000.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE 23.10	838.74	600000.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

ODATE 10-29-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 17.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	902.60	600000.	13.07	45920.	1165.	10.85	0.0290	0.	84.	0.37
MILE 77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0.	89.	0.28
MILE 75.60	891.74	600000.	11.61	51670.	3513.	11.04	0.0400	0.	85.	0.53
MILE 73.50	879.94	600000.	13.94	43040.	2649.	11.78	0.0330	0.	81.	0.61
MILE 71.40	877.56	600000.	8.61	69725.	2150.	13.28	0.0400	0.	80.	0.27
MILE 69.30	873.19	600000.	10.34	58025.	2115.	11.96	0.0340	0.	74.	0.35
MILE 67.20	870.99	600000.	6.77	88664.	5797.	11.61	0.0340	0.	80.	0.30
MILE 65.10	866.65	600000.	9.07	66162.	6467.	11.38	0.0320	0.	80.	0.50
MILE 63.00	865.47	600000.	5.13	116888.	3689.	9.84	0.0400	0.	84.	0.16
MILE 60.90	861.18	600000.	7.37	81462.	3453.	9.89	0.0450	0.	85.	0.27
MILE 58.80	853.77	600000.	8.70	68956.	2826.	9.10	0.0400	0.	81.	0.31
MILE 57.00	852.15	600000.	8.22	72972.	2992.	9.02	0.0200	0.	77.	0.29
MILE 55.00	849.56	600000.	9.74	61589.	2946.	8.92	0.0200	0.	76.	0.38
MILE 53.10	848.34	600000.	8.03	74678.	3462.	10.66	0.0200	0.	75.	0.30
MILE 51.00	846.91	600000.	8.46	70950.	4610.	10.96	0.0200	0.	78.	0.38
MILE 48.30	846.35	600000.	6.50	92360.	9485.	14.00	0.0200	0.	77.	0.37
MILE 46.20	845.65	600000.	7.13	84172.	9044.	12.96	0.0200	0.	84.	0.41
MILE 44.10	845.74	600000.	4.19	143238.	3865.	11.76	0.0300	0.	91.	0.12
MILE 43.70	843.60	600000.	11.95	50197.	3827.	15.26	0.0300	0.	91.	0.58
MILE 42.00	844.48	600000.	4.41	135923.	3932.	10.68	0.0300	0.	94.	0.13
MILE 39.10	842.11	600000.	8.50	70583.	3839.	14.41	0.0230	0.	91.	0.35
MILE 37.00	842.35	600000.	4.72	127148.	2526.	14.52	0.0280	0.	91.	0.12
MILE 36.00	841.11	600000.	8.85	67835.	1794.	14.97	0.0280	0.	92.	0.25
MILE 34.60	840.82	600000.	6.94	86413.	2623.	16.16	0.0280	0.	92.	0.21
MILE 33.60	841.29	600000.	2.96	202439.	5074.	16.01	0.0290	0.	98.	0.08
MILE 31.50	840.29	600000.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE 30.10	840.00	600000.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	29.00	839.79	600000.	6.56	91403.	2276.	16.76	0.0200	0.	100.	0.18
MILE	27.30	839.48	600000.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE	25.20	839.25	600000.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE	23.10	838.74	600000.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

0DATE 10-29-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 18.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	902.60	600000.	13.07	45920.	1165.	10.85	0.0290	0.	84.	0.37
MILE	77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0.	89.	0.28
MILE	75.60	891.74	600000.	11.61	51670.	3513.	11.04	0.0400	0.	85.	0.53
MILE	73.50	879.94	600000.	13.94	43040.	2649.	11.78	0.0330	0.	81.	0.61
MILE	71.40	877.56	600000.	8.61	69725.	2150.	13.28	0.0400	0.	80.	0.27
MILE	69.30	873.19	600000.	10.34	58025.	2115.	11.96	0.0340	0.	74.	0.35
MILE	67.20	870.99	600000.	6.77	88664.	5797.	11.61	0.0340	0.	80.	0.30
MILE	65.10	866.65	600000.	9.07	66162.	6467.	11.38	0.0320	0.	80.	0.50
MILE	63.00	865.47	600000.	5.13	116888.	3689.	9.84	0.0400	0.	84.	0.16
MILE	60.90	861.18	600000.	7.37	81462.	3453.	9.89	0.0450	0.	85.	0.27
MILE	58.80	853.77	600000.	8.70	68956.	2826.	9.10	0.0400	0.	81.	0.31
MILE	57.00	852.15	600000.	8.22	72972.	2992.	9.02	0.0200	0.	77.	0.29
MILE	55.00	849.56	600000.	9.74	61589.	2946.	8.92	0.0200	0.	76.	0.38
MILE	53.10	848.34	600000.	8.03	74678.	3462.	10.66	0.0200	0.	75.	0.30
MILE	51.00	846.91	600000.	8.46	70950.	4610.	10.96	0.0200	0.	78.	0.38
MILE	48.30	846.35	600000.	6.50	92360.	9485.	14.00	0.0200	0.	77.	0.37
MILE	46.20	845.65	600000.	7.13	84172.	9044.	12.96	0.0200	0.	84.	0.41
MILE	44.10	845.74	600000.	4.19	143238.	3865.	11.76	0.0300	0.	91.	0.12
MILE	43.70	843.60	600000.	11.95	50197.	3827.	15.26	0.0300	0.	91.	0.58
MILE	42.00	844.48	600000.	4.41	135923.	3932.	10.68	0.0300	0.	94.	0.13
MILE	39.10	842.11	600000.	8.50	70583.	3839.	14.41	0.0230	0.	91.	0.35
MILE	37.00	842.35	600000.	4.72	127148.	2526.	14.52	0.0280	0.	91.	0.12
MILE	36.00	841.11	600000.	8.85	67835.	1794.	14.97	0.0280	0.	92.	0.25
MILE	34.60	840.82	600000.	6.94	86413.	2623.	16.16	0.0280	0.	92.	0.21
MILE	33.60	841.29	600000.	2.96	202439.	5074.	16.01	0.0290	0.	98.	0.08
MILE	31.50	840.29	600000.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE	30.10	840.00	600000.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15
MILE	29.00	839.79	600000.	6.56	91403.	2276.	16.76	0.0200	0.	100.	0.18
MILE	27.30	839.48	600000.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE	25.20	839.25	600000.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE	23.10	838.74	600000.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

0DATE 10-29-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 625 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

TIME 19.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL
INFLOW DEPTH	FROUDE							
MILE 79.80	902.60	600000.	13.07	45920.	1165.	10.85	0.0290	0. 84. 0.37
MILE 77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0. 89. 0.28
MILE 75.60	891.74	600000.	11.61	51670.	3513.	11.04	0.0400	0. 85. 0.53
MILE 73.50	879.94	600000.	13.94	43040.	2649.	11.78	0.0330	0. 81. 0.61
MILE 71.40	877.56	600000.	8.61	69725.	2150.	13.28	0.0400	0. 80. 0.27
MILE 69.30	873.19	600000.	10.34	58025.	2115.	11.96	0.0340	0. 74. 0.35
MILE 67.20	870.99	600000.	6.77	88664.	5797.	11.61	0.0340	0. 80. 0.30
MILE 65.10	866.65	600000.	9.07	66162.	6467.	11.38	0.0320	0. 80. 0.50
MILE 63.00	865.47	600000.	5.13	116888.	3689.	9.84	0.0400	0. 84. 0.16
MILE 60.90	861.18	600000.	7.37	81462.	3453.	9.89	0.0450	0. 85. 0.27
MILE 58.80	853.77	600000.	8.70	68956.	2826.	9.10	0.0400	0. 81. 0.31
MILE 57.00	852.15	600000.	8.22	72972.	2992.	9.02	0.0200	0. 77. 0.29
MILE 55.00	849.56	600000.	9.74	61589.	2946.	8.92	0.0200	0. 76. 0.38
MILE 53.10	848.34	600000.	8.03	74678.	3462.	10.66	0.0200	0. 75. 0.30
MILE 51.00	846.91	600000.	8.46	70950.	4610.	10.96	0.0200	0. 78. 0.38
MILE 48.30	846.35	600000.	6.50	92360.	9485.	14.00	0.0200	0. 77. 0.37
MILE 46.20	845.65	600000.	7.13	84172.	9044.	12.96	0.0200	0. 84. 0.41
MILE 44.10	845.74	600000.	4.19	143238.	3865.	11.76	0.0300	0. 91. 0.12
MILE 43.70	843.60	600000.	11.95	50197.	3827.	15.26	0.0300	0. 91. 0.58
MILE 42.00	844.48	600000.	4.41	135923.	3932.	10.68	0.0300	0. 94. 0.13
MILE 39.10	842.11	600000.	8.50	70583.	3839.	14.41	0.0230	0. 91. 0.35
MILE 37.00	842.35	600000.	4.72	127148.	2526.	14.52	0.0280	0. 91. 0.12
MILE 36.00	841.11	600000.	8.85	67835.	1794.	14.97	0.0280	0. 92. 0.25
MILE 34.60	840.82	600000.	6.94	86413.	2623.	16.16	0.0280	0. 92. 0.21
MILE 33.60	841.29	600000.	2.96	202439.	5074.	16.01	0.0290	0. 98. 0.08
MILE 31.50	840.29	600000.	7.22	83126.	3956.	16.37	0.0250	0. 101. 0.28
MILE 30.10	840.00	600000.	6.53	91870.	1498.	15.54	0.0200	0. 99. 0.15
MILE 29.00	839.79	600000.	6.56	91403.	2276.	16.76	0.0200	0. 100. 0.18
MILE 27.30	839.48	600000.	6.71	89439.	2072.	17.34	0.0230	0. 102. 0.18
MILE 25.20	839.25	600000.	5.99	100225.	1986.	18.65	0.0230	0. 105. 0.15
MILE 23.10	838.74	600000.	6.67	89949.	2383.	17.11	0.0230	0. 109. 0.19

0DATE 10-29-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 20.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL
INFLOW DEPTH	FROUDE							
MILE 79.80	902.60	600000.	13.07	45920.	1165.	10.85	0.0290	0. 84. 0.37
MILE 77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0. 89. 0.28
MILE 75.60	891.74	600000.	11.61	51670.	3513.	11.04	0.0400	0. 85. 0.53
MILE 73.50	879.94	600000.	13.94	43040.	2649.	11.78	0.0330	0. 81. 0.61
MILE 71.40	877.56	600000.	8.61	69725.	2150.	13.28	0.0400	0. 80. 0.27
MILE 69.30	873.19	600000.	10.34	58025.	2115.	11.96	0.0340	0. 74. 0.35
MILE 67.20	870.99	600000.	6.77	88664.	5797.	11.61	0.0340	0. 80. 0.30
MILE 65.10	866.65	600000.	9.07	66162.	6467.	11.38	0.0320	0. 80. 0.50

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 626 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	63.00	865.47	600000.	5.13	116888.	3689.	9.84	0.0400	0.	84.	0.16
MILE	60.90	861.18	600000.	7.37	81462.	3453.	9.89	0.0450	0.	85.	0.27
MILE	58.80	853.77	600000.	8.70	68956.	2826.	9.10	0.0400	0.	81.	0.31
MILE	57.00	852.15	600000.	8.22	72972.	2992.	9.02	0.0200	0.	77.	0.29
MILE	55.00	849.56	600000.	9.74	61589.	2946.	8.92	0.0200	0.	76.	0.38
MILE	53.10	848.34	600000.	8.03	74678.	3462.	10.66	0.0200	0.	75.	0.30
MILE	51.00	846.91	600000.	8.46	70950.	4610.	10.96	0.0200	0.	78.	0.38
MILE	48.30	846.35	600000.	6.50	92360.	9485.	14.00	0.0200	0.	77.	0.37
MILE	46.20	845.65	600000.	7.13	84172.	9044.	12.96	0.0200	0.	84.	0.41
MILE	44.10	845.74	600000.	4.19	143238.	3865.	11.76	0.0300	0.	91.	0.12
MILE	43.70	843.60	600000.	11.95	50197.	3827.	15.26	0.0300	0.	91.	0.58
MILE	42.00	844.48	600000.	4.41	135923.	3932.	10.68	0.0300	0.	94.	0.13
MILE	39.10	842.11	600000.	8.50	70583.	3839.	14.41	0.0230	0.	91.	0.35
MILE	37.00	842.35	600000.	4.72	127148.	2526.	14.52	0.0280	0.	91.	0.12
MILE	36.00	841.11	600000.	8.85	67835.	1794.	14.97	0.0280	0.	92.	0.25
MILE	34.60	840.82	600000.	6.94	86413.	2623.	16.16	0.0280	0.	92.	0.21
MILE	33.60	841.29	600000.	2.96	202439.	5074.	16.01	0.0290	0.	98.	0.08
MILE	31.50	840.29	600000.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE	30.10	840.00	600000.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15
MILE	29.00	839.79	600000.	6.56	91403.	2276.	16.76	0.0200	0.	100.	0.18
MILE	27.30	839.48	600000.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE	25.20	839.25	600000.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE	23.10	838.74	600000.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

0DATE 10-29-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 21.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE	79.80	902.60	600000.	13.07	45920.	1165.	10.85	0.0290	0.	84.	0.37
MILE	77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0.	89.	0.28
MILE	75.60	891.74	600000.	11.61	51670.	3513.	11.04	0.0400	0.	85.	0.53
MILE	73.50	879.94	600000.	13.94	43040.	2649.	11.78	0.0330	0.	81.	0.61
MILE	71.40	877.56	600000.	8.61	69725.	2150.	13.28	0.0400	0.	80.	0.27
MILE	69.30	873.19	600000.	10.34	58025.	2115.	11.96	0.0340	0.	74.	0.35
MILE	67.20	870.99	600000.	6.77	88664.	5797.	11.61	0.0340	0.	80.	0.30
MILE	65.10	866.65	600000.	9.07	66162.	6467.	11.38	0.0320	0.	80.	0.50
MILE	63.00	865.47	600000.	5.13	116888.	3689.	9.84	0.0400	0.	84.	0.16
MILE	60.90	861.18	600000.	7.37	81462.	3453.	9.89	0.0450	0.	85.	0.27
MILE	58.80	853.77	600000.	8.70	68956.	2826.	9.10	0.0400	0.	81.	0.31
MILE	57.00	852.15	600000.	8.22	72972.	2992.	9.02	0.0200	0.	77.	0.29
MILE	55.00	849.56	600000.	9.74	61589.	2946.	8.92	0.0200	0.	76.	0.38
MILE	53.10	848.34	600000.	8.03	74678.	3462.	10.66	0.0200	0.	75.	0.30
MILE	51.00	846.91	600000.	8.46	70950.	4610.	10.96	0.0200	0.	78.	0.38
MILE	48.30	846.35	600000.	6.50	92360.	9485.	14.00	0.0200	0.	77.	0.37
MILE	46.20	845.65	600000.	7.13	84172.	9044.	12.96	0.0200	0.	84.	0.41
MILE	44.10	845.74	600000.	4.19	143238.	3865.	11.76	0.0300	0.	91.	0.12
MILE	43.70	843.60	600000.	11.95	50197.	3827.	15.26	0.0300	0.	91.	0.58

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 627 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 42.00	844.48	600000.	4.41	135923.	3932.	10.68	0.0300	0.	94.	0.13
MILE 39.10	842.11	600000.	8.50	70583.	3839.	14.41	0.0230	0.	91.	0.35
MILE 37.00	842.35	600000.	4.72	127148.	2526.	14.52	0.0280	0.	91.	0.12
MILE 36.00	841.11	600000.	8.85	67835.	1794.	14.97	0.0280	0.	92.	0.25
MILE 34.60	840.82	600000.	6.94	86413.	2623.	16.16	0.0280	0.	92.	0.21
MILE 33.60	841.29	600000.	2.96	202439.	5074.	16.01	0.0290	0.	98.	0.08
MILE 31.50	840.29	600000.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE 30.10	840.00	600000.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15
MILE 29.00	839.79	600000.	6.56	91403.	2276.	16.76	0.0200	0.	100.	0.18
MILE 27.30	839.48	600000.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE 25.20	839.25	600000.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE 23.10	838.74	600000.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

0DATE 10-29-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 22.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	902.60	600000.	13.07	45920.	1165.	10.85	0.0290	0.	84.	0.37
MILE 77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0.	89.	0.28
MILE 75.60	891.74	600000.	11.61	51670.	3513.	11.04	0.0400	0.	85.	0.53
MILE 73.50	879.94	600000.	13.94	43040.	2649.	11.78	0.0330	0.	81.	0.61
MILE 71.40	877.56	600000.	8.61	69725.	2150.	13.28	0.0400	0.	80.	0.27
MILE 69.30	873.19	600000.	10.34	58025.	2115.	11.96	0.0340	0.	74.	0.35
MILE 67.20	870.99	600000.	6.77	88664.	5797.	11.61	0.0340	0.	80.	0.30
MILE 65.10	866.65	600000.	9.07	66162.	6467.	11.38	0.0320	0.	80.	0.50
MILE 63.00	865.47	600000.	5.13	116888.	3689.	9.84	0.0400	0.	84.	0.16
MILE 60.90	861.18	600000.	7.37	81462.	3453.	9.89	0.0450	0.	85.	0.27
MILE 58.80	853.77	600000.	8.70	68956.	2826.	9.10	0.0400	0.	81.	0.31
MILE 57.00	852.15	600000.	8.22	72972.	2992.	9.02	0.0200	0.	77.	0.29
MILE 55.00	849.56	600000.	9.74	61589.	2946.	8.92	0.0200	0.	76.	0.38
MILE 53.10	848.34	600000.	8.03	74678.	3462.	10.66	0.0200	0.	75.	0.30
MILE 51.00	846.91	600000.	8.46	70950.	4610.	10.96	0.0200	0.	78.	0.38
MILE 48.30	846.35	600000.	6.50	92360.	9485.	14.00	0.0200	0.	77.	0.37
MILE 46.20	845.65	600000.	7.13	84172.	9044.	12.96	0.0200	0.	84.	0.41
MILE 44.10	845.74	600000.	4.19	143238.	3865.	11.76	0.0300	0.	91.	0.12
MILE 43.70	843.60	600000.	11.95	50197.	3827.	15.26	0.0300	0.	91.	0.58
MILE 42.00	844.48	600000.	4.41	135923.	3932.	10.68	0.0300	0.	94.	0.13
MILE 39.10	842.11	600000.	8.50	70583.	3839.	14.41	0.0230	0.	91.	0.35
MILE 37.00	842.35	600000.	4.72	127148.	2526.	14.52	0.0280	0.	91.	0.12
MILE 36.00	841.11	600000.	8.85	67835.	1794.	14.97	0.0280	0.	92.	0.25
MILE 34.60	840.82	600000.	6.94	86413.	2623.	16.16	0.0280	0.	92.	0.21
MILE 33.60	841.29	600000.	2.96	202439.	5074.	16.01	0.0290	0.	98.	0.08
MILE 31.50	840.29	600000.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE 30.10	840.00	600000.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15
MILE 29.00	839.79	600000.	6.56	91403.	2276.	16.76	0.0200	0.	100.	0.18
MILE 27.30	839.48	600000.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE 25.20	839.25	600000.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 628 of 665
Subject: SOCH Model Calibration, Melton Hill			Prepped
Appendix E			Checked
			JAW
			ACM

MILE 23.10 838.74 600000. 6.67 89949. 2383. 17.11 0.0230 0. 109. 0.19

0DATE 10-29-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 23.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	902.60	600000.	13.07	45920.	1165.	10.85	0.0290	0.	84.	0.37
MILE 77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0.	89.	0.28
MILE 75.60	891.74	600000.	11.61	51670.	3513.	11.04	0.0400	0.	85.	0.53
MILE 73.50	879.94	600000.	13.94	43040.	2649.	11.78	0.0330	0.	81.	0.61
MILE 71.40	877.56	600000.	8.61	69725.	2150.	13.28	0.0400	0.	80.	0.27
MILE 69.30	873.19	600000.	10.34	58025.	2115.	11.96	0.0340	0.	74.	0.35
MILE 67.20	870.99	600000.	6.77	88664.	5797.	11.61	0.0340	0.	80.	0.30
MILE 65.10	866.65	600000.	9.07	66162.	6467.	11.38	0.0320	0.	80.	0.50
MILE 63.00	865.47	600000.	5.13	116888.	3689.	9.84	0.0400	0.	84.	0.16
MILE 60.90	861.18	600000.	7.37	81462.	3453.	9.89	0.0450	0.	85.	0.27
MILE 58.80	853.77	600000.	8.70	68956.	2826.	9.10	0.0400	0.	81.	0.31
MILE 57.00	852.15	600000.	8.22	72972.	2992.	9.02	0.0200	0.	77.	0.29
MILE 55.00	849.56	600000.	9.74	61589.	2946.	8.92	0.0200	0.	76.	0.38
MILE 53.10	848.34	600000.	8.03	74678.	3462.	10.66	0.0200	0.	75.	0.30
MILE 51.00	846.91	600000.	8.46	70950.	4610.	10.96	0.0200	0.	78.	0.38
MILE 48.30	846.35	600000.	6.50	92360.	9485.	14.00	0.0200	0.	77.	0.37
MILE 46.20	845.65	600000.	7.13	84172.	9044.	12.96	0.0200	0.	84.	0.41
MILE 44.10	845.74	600000.	4.19	143238.	3865.	11.76	0.0300	0.	91.	0.12
MILE 43.70	843.60	600000.	11.95	50197.	3827.	15.26	0.0300	0.	91.	0.58
MILE 42.00	844.48	600000.	4.41	135923.	3932.	10.68	0.0300	0.	94.	0.13
MILE 39.10	842.11	600000.	8.50	70583.	3839.	14.41	0.0230	0.	91.	0.35
MILE 37.00	842.35	600000.	4.72	127148.	2526.	14.52	0.0280	0.	91.	0.12
MILE 36.00	841.11	600000.	8.85	67835.	1794.	14.97	0.0280	0.	92.	0.25
MILE 34.60	840.82	600000.	6.94	86413.	2623.	16.16	0.0280	0.	92.	0.21
MILE 33.60	841.29	600000.	2.96	202439.	5074.	16.01	0.0290	0.	98.	0.08
MILE 31.50	840.29	600000.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE 30.10	840.00	600000.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15
MILE 29.00	839.79	600000.	6.56	91403.	2276.	16.76	0.0200	0.	100.	0.18
MILE 27.30	839.48	600000.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE 25.20	839.25	600000.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE 23.10	838.74	600000.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

0DATE 10-30-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 0.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80 902.60 600000. 13.07 45920. 1165. 10.85 0.0290 0. 84. 0.37

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 629 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0.	89.	0.28
MILE 75.60	891.74	600000.	11.61	51670.	3513.	11.04	0.0400	0.	85.	0.53
MILE 73.50	879.94	600000.	13.94	43040.	2649.	11.78	0.0330	0.	81.	0.61
MILE 71.40	877.56	600000.	8.61	69725.	2150.	13.28	0.0400	0.	80.	0.27
MILE 69.30	873.19	600000.	10.34	58025.	2115.	11.96	0.0340	0.	74.	0.35
MILE 67.20	870.99	600000.	6.77	88664.	5797.	11.61	0.0340	0.	80.	0.30
MILE 65.10	866.65	600000.	9.07	66162.	6467.	11.38	0.0320	0.	80.	0.50
MILE 63.00	865.47	600000.	5.13	116888.	3689.	9.84	0.0400	0.	84.	0.16
MILE 60.90	861.18	600000.	7.37	81462.	3453.	9.89	0.0450	0.	85.	0.27
MILE 58.80	853.77	600000.	8.70	68956.	2826.	9.10	0.0400	0.	81.	0.31
MILE 57.00	852.15	600000.	8.22	72972.	2992.	9.02	0.0200	0.	77.	0.29
MILE 55.00	849.56	600000.	9.74	61589.	2946.	8.92	0.0200	0.	76.	0.38
MILE 53.10	848.34	600000.	8.03	74678.	3462.	10.66	0.0200	0.	75.	0.30
MILE 51.00	846.91	600000.	8.46	70950.	4610.	10.96	0.0200	0.	78.	0.38
MILE 48.30	846.35	600000.	6.50	92360.	9485.	14.00	0.0200	0.	77.	0.37
MILE 46.20	845.65	600000.	7.13	84172.	9044.	12.96	0.0200	0.	84.	0.41
MILE 44.10	845.74	600000.	4.19	143238.	3865.	11.76	0.0300	0.	91.	0.12
MILE 43.70	843.60	600000.	11.95	50197.	3827.	15.26	0.0300	0.	91.	0.58
MILE 42.00	844.48	600000.	4.41	135923.	3932.	10.68	0.0300	0.	94.	0.13
MILE 39.10	842.11	600000.	8.50	70583.	3839.	14.41	0.0230	0.	91.	0.35
MILE 37.00	842.35	600000.	4.72	127148.	2526.	14.52	0.0280	0.	91.	0.12
MILE 36.00	841.11	600000.	8.85	67835.	1794.	14.97	0.0280	0.	92.	0.25
MILE 34.60	840.82	600000.	6.94	86413.	2623.	16.16	0.0280	0.	92.	0.21
MILE 33.60	841.29	600000.	2.96	202439.	5074.	16.01	0.0290	0.	98.	0.08
MILE 31.50	840.29	600000.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE 30.10	840.00	600000.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15
MILE 29.00	839.79	600000.	6.56	91403.	2276.	16.76	0.0200	0.	100.	0.18
MILE 27.30	839.48	600000.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE 25.20	839.25	600000.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE 23.10	838.74	600000.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

0DATE 10-30-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 1.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	902.60	600000.	13.07	45920.	1165.	10.85	0.0290	0.	84.	0.37
MILE 77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0.	89.	0.28
MILE 75.60	891.74	600000.	11.61	51670.	3513.	11.04	0.0400	0.	85.	0.53
MILE 73.50	879.94	600000.	13.94	43040.	2649.	11.78	0.0330	0.	81.	0.61
MILE 71.40	877.56	600000.	8.61	69725.	2150.	13.28	0.0400	0.	80.	0.27
MILE 69.30	873.19	600000.	10.34	58025.	2115.	11.96	0.0340	0.	74.	0.35
MILE 67.20	870.99	600000.	6.77	88664.	5797.	11.61	0.0340	0.	80.	0.30
MILE 65.10	866.65	600000.	9.07	66162.	6467.	11.38	0.0320	0.	80.	0.50
MILE 63.00	865.47	600000.	5.13	116888.	3689.	9.84	0.0400	0.	84.	0.16
MILE 60.90	861.18	600000.	7.37	81462.	3453.	9.89	0.0450	0.	85.	0.27
MILE 58.80	853.77	600000.	8.70	68956.	2826.	9.10	0.0400	0.	81.	0.31
MILE 57.00	852.15	600000.	8.22	72972.	2992.	9.02	0.0200	0.	77.	0.29

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 630 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 55.00	849.56	600000.	9.74	61589.	2946.	8.92	0.0200	0.	76.	0.38
MILE 53.10	848.34	600000.	8.03	74678.	3462.	10.66	0.0200	0.	75.	0.30
MILE 51.00	846.91	600000.	8.46	70950.	4610.	10.96	0.0200	0.	78.	0.38
MILE 48.30	846.35	600000.	6.50	92360.	9485.	14.00	0.0200	0.	77.	0.37
MILE 46.20	845.65	600000.	7.13	84172.	9044.	12.96	0.0200	0.	84.	0.41
MILE 44.10	845.74	600000.	4.19	143238.	3865.	11.76	0.0300	0.	91.	0.12
MILE 43.70	843.60	600000.	11.95	50197.	3827.	15.26	0.0300	0.	91.	0.58
MILE 42.00	844.48	600000.	4.41	135923.	3932.	10.68	0.0300	0.	94.	0.13
MILE 39.10	842.11	600000.	8.50	70583.	3839.	14.41	0.0230	0.	91.	0.35
MILE 37.00	842.35	600000.	4.72	127148.	2526.	14.52	0.0280	0.	91.	0.12
MILE 36.00	841.11	600000.	8.85	67835.	1794.	14.97	0.0280	0.	92.	0.25
MILE 34.60	840.82	600000.	6.94	86413.	2623.	16.16	0.0280	0.	92.	0.21
MILE 33.60	841.29	600000.	2.96	202439.	5074.	16.01	0.0290	0.	98.	0.08
MILE 31.50	840.29	600000.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE 30.10	840.00	600000.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15
MILE 29.00	839.79	600000.	6.56	91403.	2276.	16.76	0.0200	0.	100.	0.18
MILE 27.30	839.48	600000.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE 25.20	839.25	600000.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE 23.10	838.74	600000.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

0DATE 10-30-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 2.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	902.60	600000.	13.07	45920.	1165.	10.85	0.0290	0.	84.	0.37
MILE 77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0.	89.	0.28
MILE 75.60	891.74	600000.	11.61	51670.	3513.	11.04	0.0400	0.	85.	0.53
MILE 73.50	879.94	600000.	13.94	43040.	2649.	11.78	0.0330	0.	81.	0.61
MILE 71.40	877.56	600000.	8.61	69725.	2150.	13.28	0.0400	0.	80.	0.27
MILE 69.30	873.19	600000.	10.34	58025.	2115.	11.96	0.0340	0.	74.	0.35
MILE 67.20	870.99	600000.	6.77	88664.	5797.	11.61	0.0340	0.	80.	0.30
MILE 65.10	866.65	600000.	9.07	66162.	6467.	11.38	0.0320	0.	80.	0.50
MILE 63.00	865.47	600000.	5.13	116888.	3689.	9.84	0.0400	0.	84.	0.16
MILE 60.90	861.18	600000.	7.37	81462.	3453.	9.89	0.0450	0.	85.	0.27
MILE 58.80	853.77	600000.	8.70	68956.	2826.	9.10	0.0400	0.	81.	0.31
MILE 57.00	852.15	600000.	8.22	72972.	2992.	9.02	0.0200	0.	77.	0.29
MILE 55.00	849.56	600000.	9.74	61589.	2946.	8.92	0.0200	0.	76.	0.38
MILE 53.10	848.34	600000.	8.03	74678.	3462.	10.66	0.0200	0.	75.	0.30
MILE 51.00	846.91	600000.	8.46	70950.	4610.	10.96	0.0200	0.	78.	0.38
MILE 48.30	846.35	600000.	6.50	92360.	9485.	14.00	0.0200	0.	77.	0.37
MILE 46.20	845.65	600000.	7.13	84172.	9044.	12.96	0.0200	0.	84.	0.41
MILE 44.10	845.74	600000.	4.19	143238.	3865.	11.76	0.0300	0.	91.	0.12
MILE 43.70	843.60	600000.	11.95	50197.	3827.	15.26	0.0300	0.	91.	0.58
MILE 42.00	844.48	600000.	4.41	135923.	3932.	10.68	0.0300	0.	94.	0.13
MILE 39.10	842.11	600000.	8.50	70583.	3839.	14.41	0.0230	0.	91.	0.35
MILE 37.00	842.35	600000.	4.72	127148.	2526.	14.52	0.0280	0.	91.	0.12
MILE 36.00	841.11	600000.	8.85	67835.	1794.	14.97	0.0280	0.	92.	0.25

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 631 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	34.60	840.82	600000.	6.94	86413.	2623.	16.16	0.0280	0.	92.	0.21
MILE	33.60	841.29	600000.	2.96	202439.	5074.	16.01	0.0290	0.	98.	0.08
MILE	31.50	840.29	600000.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE	30.10	840.00	600000.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15
MILE	29.00	839.79	600000.	6.56	91403.	2276.	16.76	0.0200	0.	100.	0.18
MILE	27.30	839.48	600000.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE	25.20	839.25	600000.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE	23.10	838.74	600000.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

0DATE 10-30-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	3.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL	
INFLOW	DEPTH	FROUDE									
MILE	79.80	902.60	600000.	13.07	45920.	1165.	10.85	0.0290	0.	84.	0.37
MILE	77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0.	89.	0.28
MILE	75.60	891.74	600000.	11.61	51670.	3513.	11.04	0.0400	0.	85.	0.53
MILE	73.50	879.94	600000.	13.94	43040.	2649.	11.78	0.0330	0.	81.	0.61
MILE	71.40	877.56	600000.	8.61	69725.	2150.	13.28	0.0400	0.	80.	0.27
MILE	69.30	873.19	600000.	10.34	58025.	2115.	11.96	0.0340	0.	74.	0.35
MILE	67.20	870.99	600000.	6.77	88664.	5797.	11.61	0.0340	0.	80.	0.30
MILE	65.10	866.65	600000.	9.07	66162.	6467.	11.38	0.0320	0.	80.	0.50
MILE	63.00	865.47	600000.	5.13	116888.	3689.	9.84	0.0400	0.	84.	0.16
MILE	60.90	861.18	600000.	7.37	81462.	3453.	9.89	0.0450	0.	85.	0.27
MILE	58.80	853.77	600000.	8.70	68956.	2826.	9.10	0.0400	0.	81.	0.31
MILE	57.00	852.15	600000.	8.22	72972.	2992.	9.02	0.0200	0.	77.	0.29
MILE	55.00	849.56	600000.	9.74	61589.	2946.	8.92	0.0200	0.	76.	0.38
MILE	53.10	848.34	600000.	8.03	74678.	3462.	10.66	0.0200	0.	75.	0.30
MILE	51.00	846.91	600000.	8.46	70950.	4610.	10.96	0.0200	0.	78.	0.38
MILE	48.30	846.35	600000.	6.50	92360.	9485.	14.00	0.0200	0.	77.	0.37
MILE	46.20	845.65	600000.	7.13	84172.	9044.	12.96	0.0200	0.	84.	0.41
MILE	44.10	845.74	600000.	4.19	143238.	3865.	11.76	0.0300	0.	91.	0.12
MILE	43.70	843.60	600000.	11.95	50197.	3827.	15.26	0.0300	0.	91.	0.58
MILE	42.00	844.48	600000.	4.41	135923.	3932.	10.68	0.0300	0.	94.	0.13
MILE	39.10	842.11	600000.	8.50	70583.	3839.	14.41	0.0230	0.	91.	0.35
MILE	37.00	842.35	600000.	4.72	127148.	2526.	14.52	0.0280	0.	91.	0.12
MILE	36.00	841.11	600000.	8.85	67835.	1794.	14.97	0.0280	0.	92.	0.25
MILE	34.60	840.82	600000.	6.94	86413.	2623.	16.16	0.0280	0.	92.	0.21
MILE	33.60	841.29	600000.	2.96	202439.	5074.	16.01	0.0290	0.	98.	0.08
MILE	31.50	840.29	600000.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE	30.10	840.00	600000.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15
MILE	29.00	839.79	600000.	6.56	91403.	2276.	16.76	0.0200	0.	100.	0.18
MILE	27.30	839.48	600000.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE	25.20	839.25	600000.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE	23.10	838.74	600000.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

0DATE 10-30-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	4.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL
INFLOW	DEPTH	FROUDE								
MILE	79.80	902.60	600000.	13.07	45920.	1165.	10.85	0.0290	0.	84. 0.37
MILE	77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0.	89. 0.28
MILE	75.60	891.74	600000.	11.61	51670.	3513.	11.04	0.0400	0.	85. 0.53
MILE	73.50	879.94	600000.	13.94	43040.	2649.	11.78	0.0330	0.	81. 0.61
MILE	71.40	877.56	600000.	8.61	69725.	2150.	13.28	0.0400	0.	80. 0.27
MILE	69.30	873.19	600000.	10.34	58025.	2115.	11.96	0.0340	0.	74. 0.35
MILE	67.20	870.99	600000.	6.77	88664.	5797.	11.61	0.0340	0.	80. 0.30
MILE	65.10	866.65	600000.	9.07	66162.	6467.	11.38	0.0320	0.	80. 0.50
MILE	63.00	865.47	600000.	5.13	116888.	3689.	9.84	0.0400	0.	84. 0.16
MILE	60.90	861.18	600000.	7.37	81462.	3453.	9.89	0.0450	0.	85. 0.27
MILE	58.80	853.77	600000.	8.70	68956.	2826.	9.10	0.0400	0.	81. 0.31
MILE	57.00	852.15	600000.	8.22	72972.	2992.	9.02	0.0200	0.	77. 0.29
MILE	55.00	849.56	600000.	9.74	61589.	2946.	8.92	0.0200	0.	76. 0.38
MILE	53.10	848.34	600000.	8.03	74678.	3462.	10.66	0.0200	0.	75. 0.30
MILE	51.00	846.91	600000.	8.46	70950.	4610.	10.96	0.0200	0.	78. 0.38
MILE	48.30	846.35	600000.	6.50	92360.	9485.	14.00	0.0200	0.	77. 0.37
MILE	46.20	845.65	600000.	7.13	84172.	9044.	12.96	0.0200	0.	84. 0.41
MILE	44.10	845.74	600000.	4.19	143238.	3865.	11.76	0.0300	0.	91. 0.12
MILE	43.70	843.60	600000.	11.95	50197.	3827.	15.26	0.0300	0.	91. 0.58
MILE	42.00	844.48	600000.	4.41	135923.	3932.	10.68	0.0300	0.	94. 0.13
MILE	39.10	842.11	600000.	8.50	70583.	3839.	14.41	0.0230	0.	91. 0.35
MILE	37.00	842.35	600000.	4.72	127148.	2526.	14.52	0.0280	0.	91. 0.12
MILE	36.00	841.11	600000.	8.85	67835.	1794.	14.97	0.0280	0.	92. 0.25
MILE	34.60	840.82	600000.	6.94	86413.	2623.	16.16	0.0280	0.	92. 0.21
MILE	33.60	841.29	600000.	2.96	202439.	5074.	16.01	0.0290	0.	98. 0.08
MILE	31.50	840.29	600000.	7.22	83126.	3956.	16.37	0.0250	0.	101. 0.28
MILE	30.10	840.00	600000.	6.53	91870.	1498.	15.54	0.0200	0.	99. 0.15
MILE	29.00	839.79	600000.	6.56	91403.	2276.	16.76	0.0200	0.	100. 0.18
MILE	27.30	839.48	600000.	6.71	89439.	2072.	17.34	0.0230	0.	102. 0.18
MILE	25.20	839.25	600000.	5.99	100225.	1986.	18.65	0.0230	0.	105. 0.15
MILE	23.10	838.74	600000.	6.67	89949.	2383.	17.11	0.0230	0.	109. 0.19

0DATE 10-30-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	5.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL
INFLOW	DEPTH	FROUDE								
MILE	79.80	902.60	600000.	13.07	45920.	1165.	10.85	0.0290	0.	84. 0.37
MILE	77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0.	89. 0.28
MILE	75.60	891.74	600000.	11.61	51670.	3513.	11.04	0.0400	0.	85. 0.53
MILE	73.50	879.94	600000.	13.94	43040.	2649.	11.78	0.0330	0.	81. 0.61
MILE	71.40	877.56	600000.	8.61	69725.	2150.	13.28	0.0400	0.	80. 0.27

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MILE	69.30	873.19	600000.	10.34	58025.	2115.	11.96	0.0340	0.	74.	0.35
MILE	67.20	870.99	600000.	6.77	88664.	5797.	11.61	0.0340	0.	80.	0.30
MILE	65.10	866.65	600000.	9.07	66162.	6467.	11.38	0.0320	0.	80.	0.50
MILE	63.00	865.47	600000.	5.13	116888.	3689.	9.84	0.0400	0.	84.	0.16
MILE	60.90	861.18	600000.	7.37	81462.	3453.	9.89	0.0450	0.	85.	0.27
MILE	58.80	853.77	600000.	8.70	68956.	2826.	9.10	0.0400	0.	81.	0.31
MILE	57.00	852.15	600000.	8.22	72972.	2992.	9.02	0.0200	0.	77.	0.29
MILE	55.00	849.56	600000.	9.74	61589.	2946.	8.92	0.0200	0.	76.	0.38
MILE	53.10	848.34	600000.	8.03	74678.	3462.	10.66	0.0200	0.	75.	0.30
MILE	51.00	846.91	600000.	8.46	70950.	4610.	10.96	0.0200	0.	78.	0.38
MILE	48.30	846.35	600000.	6.50	92360.	9485.	14.00	0.0200	0.	77.	0.37
MILE	46.20	845.65	600000.	7.13	84172.	9044.	12.96	0.0200	0.	84.	0.41
MILE	44.10	845.74	600000.	4.19	143238.	3865.	11.76	0.0300	0.	91.	0.12
MILE	43.70	843.60	600000.	11.95	50197.	3827.	15.26	0.0300	0.	91.	0.58
MILE	42.00	844.48	600000.	4.41	135923.	3932.	10.68	0.0300	0.	94.	0.13
MILE	39.10	842.11	600000.	8.50	70583.	3839.	14.41	0.0230	0.	91.	0.35
MILE	37.00	842.35	600000.	4.72	127148.	2526.	14.52	0.0280	0.	91.	0.12
MILE	36.00	841.11	600000.	8.85	67835.	1794.	14.97	0.0280	0.	92.	0.25
MILE	34.60	840.82	600000.	6.94	86413.	2623.	16.16	0.0280	0.	92.	0.21
MILE	33.60	841.29	600000.	2.96	202439.	5074.	16.01	0.0290	0.	98.	0.08
MILE	31.50	840.29	600000.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE	30.10	840.00	600000.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15
MILE	29.00	839.79	600000.	6.56	91403.	2276.	16.76	0.0200	0.	100.	0.18
MILE	27.30	839.48	600000.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE	25.20	839.25	600000.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE	23.10	838.74	600000.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

0DATE 10-30-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL	
	6.0000										
	INFLOW	DEPTH	FROUDE								
MILE	79.80	902.60	600000.	13.07	45920.	1165.	10.85	0.0290	0.	84.	0.37
MILE	77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0.	89.	0.28
MILE	75.60	891.74	600000.	11.61	51670.	3513.	11.04	0.0400	0.	85.	0.53
MILE	73.50	879.94	600000.	13.94	43040.	2649.	11.78	0.0330	0.	81.	0.61
MILE	71.40	877.56	600000.	8.61	69725.	2150.	13.28	0.0400	0.	80.	0.27
MILE	69.30	873.19	600000.	10.34	58025.	2115.	11.96	0.0340	0.	74.	0.35
MILE	67.20	870.99	600000.	6.77	88664.	5797.	11.61	0.0340	0.	80.	0.30
MILE	65.10	866.65	600000.	9.07	66162.	6467.	11.38	0.0320	0.	80.	0.50
MILE	63.00	865.47	600000.	5.13	116888.	3689.	9.84	0.0400	0.	84.	0.16
MILE	60.90	861.18	600000.	7.37	81462.	3453.	9.89	0.0450	0.	85.	0.27
MILE	58.80	853.77	600000.	8.70	68956.	2826.	9.10	0.0400	0.	81.	0.31
MILE	57.00	852.15	600000.	8.22	72972.	2992.	9.02	0.0200	0.	77.	0.29
MILE	55.00	849.56	600000.	9.74	61589.	2946.	8.92	0.0200	0.	76.	0.38
MILE	53.10	848.34	600000.	8.03	74678.	3462.	10.66	0.0200	0.	75.	0.30
MILE	51.00	846.91	600000.	8.46	70950.	4610.	10.96	0.0200	0.	78.	0.38
MILE	48.30	846.35	600000.	6.50	92360.	9485.	14.00	0.0200	0.	77.	0.37

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MILE 46.20	845.65	600000.	7.13	84172.	9044.	12.96	0.0200	0.	84.	0.41
MILE 44.10	845.74	600000.	4.19	143238.	3865.	11.76	0.0300	0.	91.	0.12
MILE 43.70	843.60	600000.	11.95	50197.	3827.	15.26	0.0300	0.	91.	0.58
MILE 42.00	844.48	600000.	4.41	135923.	3932.	10.68	0.0300	0.	94.	0.13
MILE 39.10	842.11	600000.	8.50	70583.	3839.	14.41	0.0230	0.	91.	0.35
MILE 37.00	842.35	600000.	4.72	127148.	2526.	14.52	0.0280	0.	91.	0.12
MILE 36.00	841.11	600000.	8.85	67835.	1794.	14.97	0.0280	0.	92.	0.25
MILE 34.60	840.82	600000.	6.94	86413.	2623.	16.16	0.0280	0.	92.	0.21
MILE 33.60	841.29	600000.	2.96	202439.	5074.	16.01	0.0290	0.	98.	0.08
MILE 31.50	840.29	600000.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE 30.10	840.00	600000.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15
MILE 29.00	839.79	600000.	6.56	91403.	2276.	16.76	0.0200	0.	100.	0.18
MILE 27.30	839.48	600000.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE 25.20	839.25	600000.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE 23.10	838.74	600000.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

0DATE 10-30-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	7.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN	N	LOCAL
INFLOW	DEPTH	FROUDE								
MILE 79.80	902.60	600000.	13.07	45920.	1165.	10.85	0.0290	0.	84.	0.37
MILE 77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0.	89.	0.28
MILE 75.60	891.74	600000.	11.61	51670.	3513.	11.04	0.0400	0.	85.	0.53
MILE 73.50	879.94	600000.	13.94	43040.	2649.	11.78	0.0330	0.	81.	0.61
MILE 71.40	877.56	600000.	8.61	69725.	2150.	13.28	0.0400	0.	80.	0.27
MILE 69.30	873.19	600000.	10.34	58025.	2115.	11.96	0.0340	0.	74.	0.35
MILE 67.20	870.99	600000.	6.77	88664.	5797.	11.61	0.0340	0.	80.	0.30
MILE 65.10	866.65	600000.	9.07	66162.	6467.	11.38	0.0320	0.	80.	0.50
MILE 63.00	865.47	600000.	5.13	116888.	3689.	9.84	0.0400	0.	84.	0.16
MILE 60.90	861.18	600000.	7.37	81462.	3453.	9.89	0.0450	0.	85.	0.27
MILE 58.80	853.77	600000.	8.70	68956.	2826.	9.10	0.0400	0.	81.	0.31
MILE 57.00	852.15	600000.	8.22	72972.	2992.	9.02	0.0200	0.	77.	0.29
MILE 55.00	849.56	600000.	9.74	61589.	2946.	8.92	0.0200	0.	76.	0.38
MILE 53.10	848.34	600000.	8.03	74678.	3462.	10.66	0.0200	0.	75.	0.30
MILE 51.00	846.91	600000.	8.46	70950.	4610.	10.96	0.0200	0.	78.	0.38
MILE 48.30	846.35	600000.	6.50	92360.	9485.	14.00	0.0200	0.	77.	0.37
MILE 46.20	845.65	600000.	7.13	84172.	9044.	12.96	0.0200	0.	84.	0.41
MILE 44.10	845.74	600000.	4.19	143238.	3865.	11.76	0.0300	0.	91.	0.12
MILE 43.70	843.60	600000.	11.95	50197.	3827.	15.26	0.0300	0.	91.	0.58
MILE 42.00	844.48	600000.	4.41	135923.	3932.	10.68	0.0300	0.	94.	0.13
MILE 39.10	842.11	600000.	8.50	70583.	3839.	14.41	0.0230	0.	91.	0.35
MILE 37.00	842.35	600000.	4.72	127148.	2526.	14.52	0.0280	0.	91.	0.12
MILE 36.00	841.11	600000.	8.85	67835.	1794.	14.97	0.0280	0.	92.	0.25
MILE 34.60	840.82	600000.	6.94	86413.	2623.	16.16	0.0280	0.	92.	0.21
MILE 33.60	841.29	600000.	2.96	202439.	5074.	16.01	0.0290	0.	98.	0.08
MILE 31.50	840.29	600000.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE 30.10	840.00	600000.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	29.00	839.79	600000.	6.56	91403.	2276.	16.76	0.0200	0.	100.	0.18
MILE	27.30	839.48	600000.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE	25.20	839.25	600000.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE	23.10	838.74	600000.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

0DATE 10-30-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 8.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	902.60	600000.	13.07	45920.	1165.	10.85	0.0290	0.	84.	0.37
MILE	77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0.	89.	0.28
MILE	75.60	891.74	600000.	11.61	51670.	3513.	11.04	0.0400	0.	85.	0.53
MILE	73.50	879.94	600000.	13.94	43040.	2649.	11.78	0.0330	0.	81.	0.61
MILE	71.40	877.56	600000.	8.61	69725.	2150.	13.28	0.0400	0.	80.	0.27
MILE	69.30	873.19	600000.	10.34	58025.	2115.	11.96	0.0340	0.	74.	0.35
MILE	67.20	870.99	600000.	6.77	88664.	5797.	11.61	0.0340	0.	80.	0.30
MILE	65.10	866.65	600000.	9.07	66162.	6467.	11.38	0.0320	0.	80.	0.50
MILE	63.00	865.47	600000.	5.13	116888.	3689.	9.84	0.0400	0.	84.	0.16
MILE	60.90	861.18	600000.	7.37	81462.	3453.	9.89	0.0450	0.	85.	0.27
MILE	58.80	853.77	600000.	8.70	68956.	2826.	9.10	0.0400	0.	81.	0.31
MILE	57.00	852.15	600000.	8.22	72972.	2992.	9.02	0.0200	0.	77.	0.29
MILE	55.00	849.56	600000.	9.74	61589.	2946.	8.92	0.0200	0.	76.	0.38
MILE	53.10	848.34	600000.	8.03	74678.	3462.	10.66	0.0200	0.	75.	0.30
MILE	51.00	846.91	600000.	8.46	70950.	4610.	10.96	0.0200	0.	78.	0.38
MILE	48.30	846.35	600000.	6.50	92360.	9485.	14.00	0.0200	0.	77.	0.37
MILE	46.20	845.65	600000.	7.13	84172.	9044.	12.96	0.0200	0.	84.	0.41
MILE	44.10	845.74	600000.	4.19	143238.	3865.	11.76	0.0300	0.	91.	0.12
MILE	43.70	843.60	600000.	11.95	50197.	3827.	15.26	0.0300	0.	91.	0.58
MILE	42.00	844.48	600000.	4.41	135923.	3932.	10.68	0.0300	0.	94.	0.13
MILE	39.10	842.11	600000.	8.50	70583.	3839.	14.41	0.0230	0.	91.	0.35
MILE	37.00	842.35	600000.	4.72	127148.	2526.	14.52	0.0280	0.	91.	0.12
MILE	36.00	841.11	600000.	8.85	67835.	1794.	14.97	0.0280	0.	92.	0.25
MILE	34.60	840.82	600000.	6.94	86413.	2623.	16.16	0.0280	0.	92.	0.21
MILE	33.60	841.29	600000.	2.96	202439.	5074.	16.01	0.0290	0.	98.	0.08
MILE	31.50	840.29	600000.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE	30.10	840.00	600000.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15
MILE	29.00	839.79	600000.	6.56	91403.	2276.	16.76	0.0200	0.	100.	0.18
MILE	27.30	839.48	600000.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE	25.20	839.25	600000.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE	23.10	838.74	600000.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

0DATE 10-30-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 636 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

	TIME 9.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL
	INFLOW DEPTH	FROUDE							
MILE 79.80	79.80	902.60	600000.	13.07	45920.	1165.	10.85	0.0290	0. 84. 0.37
MILE 77.70	77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0. 89. 0.28
MILE 75.60	75.60	891.74	600000.	11.61	51670.	3513.	11.04	0.0400	0. 85. 0.53
MILE 73.50	73.50	879.94	600000.	13.94	43040.	2649.	11.78	0.0330	0. 81. 0.61
MILE 71.40	71.40	877.56	600000.	8.61	69725.	2150.	13.28	0.0400	0. 80. 0.27
MILE 69.30	69.30	873.19	600000.	10.34	58025.	2115.	11.96	0.0340	0. 74. 0.35
MILE 67.20	67.20	870.99	600000.	6.77	88664.	5797.	11.61	0.0340	0. 80. 0.30
MILE 65.10	65.10	866.65	600000.	9.07	66162.	6467.	11.38	0.0320	0. 80. 0.50
MILE 63.00	63.00	865.47	600000.	5.13	116888.	3689.	9.84	0.0400	0. 84. 0.16
MILE 60.90	60.90	861.18	600000.	7.37	81462.	3453.	9.89	0.0450	0. 85. 0.27
MILE 58.80	58.80	853.77	600000.	8.70	68956.	2826.	9.10	0.0400	0. 81. 0.31
MILE 57.00	57.00	852.15	600000.	8.22	72972.	2992.	9.02	0.0200	0. 77. 0.29
MILE 55.00	55.00	849.56	600000.	9.74	61589.	2946.	8.92	0.0200	0. 76. 0.38
MILE 53.10	53.10	848.34	600000.	8.03	74678.	3462.	10.66	0.0200	0. 75. 0.30
MILE 51.00	51.00	846.91	600000.	8.46	70950.	4610.	10.96	0.0200	0. 78. 0.38
MILE 48.30	48.30	846.35	600000.	6.50	92360.	9485.	14.00	0.0200	0. 77. 0.37
MILE 46.20	46.20	845.65	600000.	7.13	84172.	9044.	12.96	0.0200	0. 84. 0.41
MILE 44.10	44.10	845.74	600000.	4.19	143238.	3865.	11.76	0.0300	0. 91. 0.12
MILE 43.70	43.70	843.60	600000.	11.95	50197.	3827.	15.26	0.0300	0. 91. 0.58
MILE 42.00	42.00	844.48	600000.	4.41	135923.	3932.	10.68	0.0300	0. 94. 0.13
MILE 39.10	39.10	842.11	600000.	8.50	70583.	3839.	14.41	0.0230	0. 91. 0.35
MILE 37.00	37.00	842.35	600000.	4.72	127148.	2526.	14.52	0.0280	0. 91. 0.12
MILE 36.00	36.00	841.11	600000.	8.85	67835.	1794.	14.97	0.0280	0. 92. 0.25
MILE 34.60	34.60	840.82	600000.	6.94	86413.	2623.	16.16	0.0280	0. 92. 0.21
MILE 33.60	33.60	841.29	600000.	2.96	202439.	5074.	16.01	0.0290	0. 98. 0.08
MILE 31.50	31.50	840.29	600000.	7.22	83126.	3956.	16.37	0.0250	0. 101. 0.28
MILE 30.10	30.10	840.00	600000.	6.53	91870.	1498.	15.54	0.0200	0. 99. 0.15
MILE 29.00	29.00	839.79	600000.	6.56	91403.	2276.	16.76	0.0200	0. 100. 0.18
MILE 27.30	27.30	839.48	600000.	6.71	89439.	2072.	17.34	0.0230	0. 102. 0.18
MILE 25.20	25.20	839.25	600000.	5.99	100225.	1986.	18.65	0.0230	0. 105. 0.15
MILE 23.10	23.10	838.74	600000.	6.67	89949.	2383.	17.11	0.0230	0. 109. 0.19

0DATE 10-30-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

	TIME 10.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL
	INFLOW DEPTH	FROUDE							
MILE 79.80	79.80	902.60	600000.	13.07	45920.	1165.	10.85	0.0290	0. 84. 0.37
MILE 77.70	77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0. 89. 0.28
MILE 75.60	75.60	891.74	600000.	11.61	51670.	3513.	11.04	0.0400	0. 85. 0.53
MILE 73.50	73.50	879.94	600000.	13.94	43040.	2649.	11.78	0.0330	0. 81. 0.61
MILE 71.40	71.40	877.56	600000.	8.61	69725.	2150.	13.28	0.0400	0. 80. 0.27
MILE 69.30	69.30	873.19	600000.	10.34	58025.	2115.	11.96	0.0340	0. 74. 0.35
MILE 67.20	67.20	870.99	600000.	6.77	88664.	5797.	11.61	0.0340	0. 80. 0.30
MILE 65.10	65.10	866.65	600000.	9.07	66162.	6467.	11.38	0.0320	0. 80. 0.50

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 637 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	63.00	865.47	600000.	5.13	116888.	3689.	9.84	0.0400	0.	84.	0.16
MILE	60.90	861.18	600000.	7.37	81462.	3453.	9.89	0.0450	0.	85.	0.27
MILE	58.80	853.77	600000.	8.70	68956.	2826.	9.10	0.0400	0.	81.	0.31
MILE	57.00	852.15	600000.	8.22	72972.	2992.	9.02	0.0200	0.	77.	0.29
MILE	55.00	849.56	600000.	9.74	61589.	2946.	8.92	0.0200	0.	76.	0.38
MILE	53.10	848.34	600000.	8.03	74678.	3462.	10.66	0.0200	0.	75.	0.30
MILE	51.00	846.91	600000.	8.46	70950.	4610.	10.96	0.0200	0.	78.	0.38
MILE	48.30	846.35	600000.	6.50	92360.	9485.	14.00	0.0200	0.	77.	0.37
MILE	46.20	845.65	600000.	7.13	84172.	9044.	12.96	0.0200	0.	84.	0.41
MILE	44.10	845.74	600000.	4.19	143238.	3865.	11.76	0.0300	0.	91.	0.12
MILE	43.70	843.60	600000.	11.95	50197.	3827.	15.26	0.0300	0.	91.	0.58
MILE	42.00	844.48	600000.	4.41	135923.	3932.	10.68	0.0300	0.	94.	0.13
MILE	39.10	842.11	600000.	8.50	70583.	3839.	14.41	0.0230	0.	91.	0.35
MILE	37.00	842.35	600000.	4.72	127148.	2526.	14.52	0.0280	0.	91.	0.12
MILE	36.00	841.11	600000.	8.85	67835.	1794.	14.97	0.0280	0.	92.	0.25
MILE	34.60	840.82	600000.	6.94	86413.	2623.	16.16	0.0280	0.	92.	0.21
MILE	33.60	841.29	600000.	2.96	202439.	5074.	16.01	0.0290	0.	98.	0.08
MILE	31.50	840.29	600000.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE	30.10	840.00	600000.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15
MILE	29.00	839.79	600000.	6.56	91403.	2276.	16.76	0.0200	0.	100.	0.18
MILE	27.30	839.48	600000.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE	25.20	839.25	600000.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE	23.10	838.74	600000.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

ODATE 10-30-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 11.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE	79.80	902.60	600000.	13.07	45920.	1165.	10.85	0.0290	0.	84.	0.37
MILE	77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0.	89.	0.28
MILE	75.60	891.74	600000.	11.61	51670.	3513.	11.04	0.0400	0.	85.	0.53
MILE	73.50	879.94	600000.	13.94	43040.	2649.	11.78	0.0330	0.	81.	0.61
MILE	71.40	877.56	600000.	8.61	69725.	2150.	13.28	0.0400	0.	80.	0.27
MILE	69.30	873.19	600000.	10.34	58025.	2115.	11.96	0.0340	0.	74.	0.35
MILE	67.20	870.99	600000.	6.77	88664.	5797.	11.61	0.0340	0.	80.	0.30
MILE	65.10	866.65	600000.	9.07	66162.	6467.	11.38	0.0320	0.	80.	0.50
MILE	63.00	865.47	600000.	5.13	116888.	3689.	9.84	0.0400	0.	84.	0.16
MILE	60.90	861.18	600000.	7.37	81462.	3453.	9.89	0.0450	0.	85.	0.27
MILE	58.80	853.77	600000.	8.70	68956.	2826.	9.10	0.0400	0.	81.	0.31
MILE	57.00	852.15	600000.	8.22	72972.	2992.	9.02	0.0200	0.	77.	0.29
MILE	55.00	849.56	600000.	9.74	61589.	2946.	8.92	0.0200	0.	76.	0.38
MILE	53.10	848.34	600000.	8.03	74678.	3462.	10.66	0.0200	0.	75.	0.30
MILE	51.00	846.91	600000.	8.46	70950.	4610.	10.96	0.0200	0.	78.	0.38
MILE	48.30	846.35	600000.	6.50	92360.	9485.	14.00	0.0200	0.	77.	0.37
MILE	46.20	845.65	600000.	7.13	84172.	9044.	12.96	0.0200	0.	84.	0.41
MILE	44.10	845.74	600000.	4.19	143238.	3865.	11.76	0.0300	0.	91.	0.12
MILE	43.70	843.60	600000.	11.95	50197.	3827.	15.26	0.0300	0.	91.	0.58

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 638 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	42.00	844.48	600000.	4.41	135923.	3932.	10.68	0.0300	0.	94.	0.13
MILE	39.10	842.11	600000.	8.50	70583.	3839.	14.41	0.0230	0.	91.	0.35
MILE	37.00	842.35	600000.	4.72	127148.	2526.	14.52	0.0280	0.	91.	0.12
MILE	36.00	841.11	600000.	8.85	67835.	1794.	14.97	0.0280	0.	92.	0.25
MILE	34.60	840.82	600000.	6.94	86413.	2623.	16.16	0.0280	0.	92.	0.21
MILE	33.60	841.29	600000.	2.96	202439.	5074.	16.01	0.0290	0.	98.	0.08
MILE	31.50	840.29	600000.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE	30.10	840.00	600000.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15
MILE	29.00	839.79	600000.	6.56	91403.	2276.	16.76	0.0200	0.	100.	0.18
MILE	27.30	839.48	600000.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE	25.20	839.25	600000.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE	23.10	838.74	600000.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

0DATE 10-30-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 12.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	902.60	600000.	13.07	45920.	1165.	10.85	0.0290	0.	84.	0.37
MILE	77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0.	89.	0.28
MILE	75.60	891.74	600000.	11.61	51670.	3513.	11.04	0.0400	0.	85.	0.53
MILE	73.50	879.94	600000.	13.94	43040.	2649.	11.78	0.0330	0.	81.	0.61
MILE	71.40	877.56	600000.	8.61	69725.	2150.	13.28	0.0400	0.	80.	0.27
MILE	69.30	873.19	600000.	10.34	58025.	2115.	11.96	0.0340	0.	74.	0.35
MILE	67.20	870.99	600000.	6.77	88664.	5797.	11.61	0.0340	0.	80.	0.30
MILE	65.10	866.65	600000.	9.07	66162.	6467.	11.38	0.0320	0.	80.	0.50
MILE	63.00	865.47	600000.	5.13	116888.	3689.	9.84	0.0400	0.	84.	0.16
MILE	60.90	861.18	600000.	7.37	81462.	3453.	9.89	0.0450	0.	85.	0.27
MILE	58.80	853.77	600000.	8.70	68956.	2826.	9.10	0.0400	0.	81.	0.31
MILE	57.00	852.15	600000.	8.22	72972.	2992.	9.02	0.0200	0.	77.	0.29
MILE	55.00	849.56	600000.	9.74	61589.	2946.	8.92	0.0200	0.	76.	0.38
MILE	53.10	848.34	600000.	8.03	74678.	3462.	10.66	0.0200	0.	75.	0.30
MILE	51.00	846.91	600000.	8.46	70950.	4610.	10.96	0.0200	0.	78.	0.38
MILE	48.30	846.35	600000.	6.50	92360.	9485.	14.00	0.0200	0.	77.	0.37
MILE	46.20	845.65	600000.	7.13	84172.	9044.	12.96	0.0200	0.	84.	0.41
MILE	44.10	845.74	600000.	4.19	143238.	3865.	11.76	0.0300	0.	91.	0.12
MILE	43.70	843.60	600000.	11.95	50197.	3827.	15.26	0.0300	0.	91.	0.58
MILE	42.00	844.48	600000.	4.41	135923.	3932.	10.68	0.0300	0.	94.	0.13
MILE	39.10	842.11	600000.	8.50	70583.	3839.	14.41	0.0230	0.	91.	0.35
MILE	37.00	842.35	600000.	4.72	127148.	2526.	14.52	0.0280	0.	91.	0.12
MILE	36.00	841.11	600000.	8.85	67835.	1794.	14.97	0.0280	0.	92.	0.25
MILE	34.60	840.82	600000.	6.94	86413.	2623.	16.16	0.0280	0.	92.	0.21
MILE	33.60	841.29	600000.	2.96	202439.	5074.	16.01	0.0290	0.	98.	0.08
MILE	31.50	840.29	600000.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE	30.10	840.00	600000.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15
MILE	29.00	839.79	600000.	6.56	91403.	2276.	16.76	0.0200	0.	100.	0.18
MILE	27.30	839.48	600000.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE	25.20	839.25	600000.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 639 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 23.10 838.74 600000. 6.67 89949. 2383. 17.11 0.0230 0. 109. 0.19

0DATE 10-30-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 13.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80	902.60	600000.	13.07	45920.	1165.	10.85	0.0290	0.	84.	0.37
MILE 77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0.	89.	0.28
MILE 75.60	891.74	600000.	11.61	51670.	3513.	11.04	0.0400	0.	85.	0.53
MILE 73.50	879.94	600000.	13.94	43040.	2649.	11.78	0.0330	0.	81.	0.61
MILE 71.40	877.56	600000.	8.61	69725.	2150.	13.28	0.0400	0.	80.	0.27
MILE 69.30	873.19	600000.	10.34	58025.	2115.	11.96	0.0340	0.	74.	0.35
MILE 67.20	870.99	600000.	6.77	88664.	5797.	11.61	0.0340	0.	80.	0.30
MILE 65.10	866.65	600000.	9.07	66162.	6467.	11.38	0.0320	0.	80.	0.50
MILE 63.00	865.47	600000.	5.13	116888.	3689.	9.84	0.0400	0.	84.	0.16
MILE 60.90	861.18	600000.	7.37	81462.	3453.	9.89	0.0450	0.	85.	0.27
MILE 58.80	853.77	600000.	8.70	68956.	2826.	9.10	0.0400	0.	81.	0.31
MILE 57.00	852.15	600000.	8.22	72972.	2992.	9.02	0.0200	0.	77.	0.29
MILE 55.00	849.56	600000.	9.74	61589.	2946.	8.92	0.0200	0.	76.	0.38
MILE 53.10	848.34	600000.	8.03	74678.	3462.	10.66	0.0200	0.	75.	0.30
MILE 51.00	846.91	600000.	8.46	70950.	4610.	10.96	0.0200	0.	78.	0.38
MILE 48.30	846.35	600000.	6.50	92360.	9485.	14.00	0.0200	0.	77.	0.37
MILE 46.20	845.65	600000.	7.13	84172.	9044.	12.96	0.0200	0.	84.	0.41
MILE 44.10	845.74	600000.	4.19	143238.	3865.	11.76	0.0300	0.	91.	0.12
MILE 43.70	843.60	600000.	11.95	50197.	3827.	15.26	0.0300	0.	91.	0.58
MILE 42.00	844.48	600000.	4.41	135923.	3932.	10.68	0.0300	0.	94.	0.13
MILE 39.10	842.11	600000.	8.50	70583.	3839.	14.41	0.0230	0.	91.	0.35
MILE 37.00	842.35	600000.	4.72	127148.	2526.	14.52	0.0280	0.	91.	0.12
MILE 36.00	841.11	600000.	8.85	67835.	1794.	14.97	0.0280	0.	92.	0.25
MILE 34.60	840.82	600000.	6.94	86413.	2623.	16.16	0.0280	0.	92.	0.21
MILE 33.60	841.29	600000.	2.96	202439.	5074.	16.01	0.0290	0.	98.	0.08
MILE 31.50	840.29	600000.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE 30.10	840.00	600000.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15
MILE 29.00	839.79	600000.	6.56	91403.	2276.	16.76	0.0200	0.	100.	0.18
MILE 27.30	839.48	600000.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE 25.20	839.25	600000.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE 23.10	838.74	600000.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

0DATE 10-30-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 14.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE 79.80 902.60 600000. 13.07 45920. 1165. 10.85 0.0290 0. 84. 0.37

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 640 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE 77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0.	89.	0.28
MILE 75.60	891.74	600000.	11.61	51670.	3513.	11.04	0.0400	0.	85.	0.53
MILE 73.50	879.94	600000.	13.94	43040.	2649.	11.78	0.0330	0.	81.	0.61
MILE 71.40	877.56	600000.	8.61	69725.	2150.	13.28	0.0400	0.	80.	0.27
MILE 69.30	873.19	600000.	10.34	58025.	2115.	11.96	0.0340	0.	74.	0.35
MILE 67.20	870.99	600000.	6.77	88664.	5797.	11.61	0.0340	0.	80.	0.30
MILE 65.10	866.65	600000.	9.07	66162.	6467.	11.38	0.0320	0.	80.	0.50
MILE 63.00	865.47	600000.	5.13	116888.	3689.	9.84	0.0400	0.	84.	0.16
MILE 60.90	861.18	600000.	7.37	81462.	3453.	9.89	0.0450	0.	85.	0.27
MILE 58.80	853.77	600000.	8.70	68956.	2826.	9.10	0.0400	0.	81.	0.31
MILE 57.00	852.15	600000.	8.22	72972.	2992.	9.02	0.0200	0.	77.	0.29
MILE 55.00	849.56	600000.	9.74	61589.	2946.	8.92	0.0200	0.	76.	0.38
MILE 53.10	848.34	600000.	8.03	74678.	3462.	10.66	0.0200	0.	75.	0.30
MILE 51.00	846.91	600000.	8.46	70950.	4610.	10.96	0.0200	0.	78.	0.38
MILE 48.30	846.35	600000.	6.50	92360.	9485.	14.00	0.0200	0.	77.	0.37
MILE 46.20	845.65	600000.	7.13	84172.	9044.	12.96	0.0200	0.	84.	0.41
MILE 44.10	845.74	600000.	4.19	143238.	3865.	11.76	0.0300	0.	91.	0.12
MILE 43.70	843.60	600000.	11.95	50197.	3827.	15.26	0.0300	0.	91.	0.58
MILE 42.00	844.48	600000.	4.41	135923.	3932.	10.68	0.0300	0.	94.	0.13
MILE 39.10	842.11	600000.	8.50	70583.	3839.	14.41	0.0230	0.	91.	0.35
MILE 37.00	842.35	600000.	4.72	127148.	2526.	14.52	0.0280	0.	91.	0.12
MILE 36.00	841.11	600000.	8.85	67835.	1794.	14.97	0.0280	0.	92.	0.25
MILE 34.60	840.82	600000.	6.94	86413.	2623.	16.16	0.0280	0.	92.	0.21
MILE 33.60	841.29	600000.	2.96	202439.	5074.	16.01	0.0290	0.	98.	0.08
MILE 31.50	840.29	600000.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE 30.10	840.00	600000.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15
MILE 29.00	839.79	600000.	6.56	91403.	2276.	16.76	0.0200	0.	100.	0.18
MILE 27.30	839.48	600000.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE 25.20	839.25	600000.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE 23.10	838.74	600000.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

ODATE 10-30-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME	15.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL	
INFLOW	DEPTH	FROUDE								
MILE 79.80	902.60	600000.	13.07	45920.	1165.	10.85	0.0290	0.	84.	0.37
MILE 77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0.	89.	0.28
MILE 75.60	891.74	600000.	11.61	51670.	3513.	11.04	0.0400	0.	85.	0.53
MILE 73.50	879.94	600000.	13.94	43040.	2649.	11.78	0.0330	0.	81.	0.61
MILE 71.40	877.56	600000.	8.61	69725.	2150.	13.28	0.0400	0.	80.	0.27
MILE 69.30	873.19	600000.	10.34	58025.	2115.	11.96	0.0340	0.	74.	0.35
MILE 67.20	870.99	600000.	6.77	88664.	5797.	11.61	0.0340	0.	80.	0.30
MILE 65.10	866.65	600000.	9.07	66162.	6467.	11.38	0.0320	0.	80.	0.50
MILE 63.00	865.47	600000.	5.13	116888.	3689.	9.84	0.0400	0.	84.	0.16
MILE 60.90	861.18	600000.	7.37	81462.	3453.	9.89	0.0450	0.	85.	0.27
MILE 58.80	853.77	600000.	8.70	68956.	2826.	9.10	0.0400	0.	81.	0.31
MILE 57.00	852.15	600000.	8.22	72972.	2992.	9.02	0.0200	0.	77.	0.29

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 641 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	55.00	849.56	600000.	9.74	61589.	2946.	8.92	0.0200	0.	76.	0.38
MILE	53.10	848.34	600000.	8.03	74678.	3462.	10.66	0.0200	0.	75.	0.30
MILE	51.00	846.91	600000.	8.46	70950.	4610.	10.96	0.0200	0.	78.	0.38
MILE	48.30	846.35	600000.	6.50	92360.	9485.	14.00	0.0200	0.	77.	0.37
MILE	46.20	845.65	600000.	7.13	84172.	9044.	12.96	0.0200	0.	84.	0.41
MILE	44.10	845.74	600000.	4.19	143238.	3865.	11.76	0.0300	0.	91.	0.12
MILE	43.70	843.60	600000.	11.95	50197.	3827.	15.26	0.0300	0.	91.	0.58
MILE	42.00	844.48	600000.	4.41	135923.	3932.	10.68	0.0300	0.	94.	0.13
MILE	39.10	842.11	600000.	8.50	70583.	3839.	14.41	0.0230	0.	91.	0.35
MILE	37.00	842.35	600000.	4.72	127148.	2526.	14.52	0.0280	0.	91.	0.12
MILE	36.00	841.11	600000.	8.85	67835.	1794.	14.97	0.0280	0.	92.	0.25
MILE	34.60	840.82	600000.	6.94	86413.	2623.	16.16	0.0280	0.	92.	0.21
MILE	33.60	841.29	600000.	2.96	202439.	5074.	16.01	0.0290	0.	98.	0.08
MILE	31.50	840.29	600000.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE	30.10	840.00	600000.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15
MILE	29.00	839.79	600000.	6.56	91403.	2276.	16.76	0.0200	0.	100.	0.18
MILE	27.30	839.48	600000.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE	25.20	839.25	600000.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE	23.10	838.74	600000.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

0DATE 10-30-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 16.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	902.60	600000.	13.07	45920.	1165.	10.85	0.0290	0.	84.	0.37
MILE	77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0.	89.	0.28
MILE	75.60	891.74	600000.	11.61	51670.	3513.	11.04	0.0400	0.	85.	0.53
MILE	73.50	879.94	600000.	13.94	43040.	2649.	11.78	0.0330	0.	81.	0.61
MILE	71.40	877.56	600000.	8.61	69725.	2150.	13.28	0.0400	0.	80.	0.27
MILE	69.30	873.19	600000.	10.34	58025.	2115.	11.96	0.0340	0.	74.	0.35
MILE	67.20	870.99	600000.	6.77	88664.	5797.	11.61	0.0340	0.	80.	0.30
MILE	65.10	866.65	600000.	9.07	66162.	6467.	11.38	0.0320	0.	80.	0.50
MILE	63.00	865.47	600000.	5.13	116888.	3689.	9.84	0.0400	0.	84.	0.16
MILE	60.90	861.18	600000.	7.37	81462.	3453.	9.89	0.0450	0.	85.	0.27
MILE	58.80	853.77	600000.	8.70	68956.	2826.	9.10	0.0400	0.	81.	0.31
MILE	57.00	852.15	600000.	8.22	72972.	2992.	9.02	0.0200	0.	77.	0.29
MILE	55.00	849.56	600000.	9.74	61589.	2946.	8.92	0.0200	0.	76.	0.38
MILE	53.10	848.34	600000.	8.03	74678.	3462.	10.66	0.0200	0.	75.	0.30
MILE	51.00	846.91	600000.	8.46	70950.	4610.	10.96	0.0200	0.	78.	0.38
MILE	48.30	846.35	600000.	6.50	92360.	9485.	14.00	0.0200	0.	77.	0.37
MILE	46.20	845.65	600000.	7.13	84172.	9044.	12.96	0.0200	0.	84.	0.41
MILE	44.10	845.74	600000.	4.19	143238.	3865.	11.76	0.0300	0.	91.	0.12
MILE	43.70	843.60	600000.	11.95	50197.	3827.	15.26	0.0300	0.	91.	0.58
MILE	42.00	844.48	600000.	4.41	135923.	3932.	10.68	0.0300	0.	94.	0.13
MILE	39.10	842.11	600000.	8.50	70583.	3839.	14.41	0.0230	0.	91.	0.35
MILE	37.00	842.35	600000.	4.72	127148.	2526.	14.52	0.0280	0.	91.	0.12
MILE	36.00	841.11	600000.	8.85	67835.	1794.	14.97	0.0280	0.	92.	0.25

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 642 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	34.60	840.82	600000.	6.94	86413.	2623.	16.16	0.0280	0.	92.	0.21
MILE	33.60	841.29	600000.	2.96	202439.	5074.	16.01	0.0290	0.	98.	0.08
MILE	31.50	840.29	600000.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE	30.10	840.00	600000.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15
MILE	29.00	839.79	600000.	6.56	91403.	2276.	16.76	0.0200	0.	100.	0.18
MILE	27.30	839.48	600000.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE	25.20	839.25	600000.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE	23.10	838.74	600000.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

0DATE 10-30-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 17.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	902.60	600000.	13.07	45920.	1165.	10.85	0.0290	0.	84.	0.37
MILE	77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0.	89.	0.28
MILE	75.60	891.74	600000.	11.61	51670.	3513.	11.04	0.0400	0.	85.	0.53
MILE	73.50	879.94	600000.	13.94	43040.	2649.	11.78	0.0330	0.	81.	0.61
MILE	71.40	877.56	600000.	8.61	69725.	2150.	13.28	0.0400	0.	80.	0.27
MILE	69.30	873.19	600000.	10.34	58025.	2115.	11.96	0.0340	0.	74.	0.35
MILE	67.20	870.99	600000.	6.77	88664.	5797.	11.61	0.0340	0.	80.	0.30
MILE	65.10	866.65	600000.	9.07	66162.	6467.	11.38	0.0320	0.	80.	0.50
MILE	63.00	865.47	600000.	5.13	116888.	3689.	9.84	0.0400	0.	84.	0.16
MILE	60.90	861.18	600000.	7.37	81462.	3453.	9.89	0.0450	0.	85.	0.27
MILE	58.80	853.77	600000.	8.70	68956.	2826.	9.10	0.0400	0.	81.	0.31
MILE	57.00	852.15	600000.	8.22	72972.	2992.	9.02	0.0200	0.	77.	0.29
MILE	55.00	849.56	600000.	9.74	61589.	2946.	8.92	0.0200	0.	76.	0.38
MILE	53.10	848.34	600000.	8.03	74678.	3462.	10.66	0.0200	0.	75.	0.30
MILE	51.00	846.91	600000.	8.46	70950.	4610.	10.96	0.0200	0.	78.	0.38
MILE	48.30	846.35	600000.	6.50	92360.	9485.	14.00	0.0200	0.	77.	0.37
MILE	46.20	845.65	600000.	7.13	84172.	9044.	12.96	0.0200	0.	84.	0.41
MILE	44.10	845.74	600000.	4.19	143238.	3865.	11.76	0.0300	0.	91.	0.12
MILE	43.70	843.60	600000.	11.95	50197.	3827.	15.26	0.0300	0.	91.	0.58
MILE	42.00	844.48	600000.	4.41	135923.	3932.	10.68	0.0300	0.	94.	0.13
MILE	39.10	842.11	600000.	8.50	70583.	3839.	14.41	0.0230	0.	91.	0.35
MILE	37.00	842.35	600000.	4.72	127148.	2526.	14.52	0.0280	0.	91.	0.12
MILE	36.00	841.11	600000.	8.85	67835.	1794.	14.97	0.0280	0.	92.	0.25
MILE	34.60	840.82	600000.	6.94	86413.	2623.	16.16	0.0280	0.	92.	0.21
MILE	33.60	841.29	600000.	2.96	202439.	5074.	16.01	0.0290	0.	98.	0.08
MILE	31.50	840.29	600000.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE	30.10	840.00	600000.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15
MILE	29.00	839.79	600000.	6.56	91403.	2276.	16.76	0.0200	0.	100.	0.18
MILE	27.30	839.48	600000.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE	25.20	839.25	600000.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE	23.10	838.74	600000.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 643 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

0DATE 10-30-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 18.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL
INFLOW DEPTH	FROUDE							
MILE 79.80	902.60	600000.	13.07	45920.	1165.	10.85	0.0290	0. 84. 0.37
MILE 77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0. 89. 0.28
MILE 75.60	891.74	600000.	11.61	51670.	3513.	11.04	0.0400	0. 85. 0.53
MILE 73.50	879.94	600000.	13.94	43040.	2649.	11.78	0.0330	0. 81. 0.61
MILE 71.40	877.56	600000.	8.61	69725.	2150.	13.28	0.0400	0. 80. 0.27
MILE 69.30	873.19	600000.	10.34	58025.	2115.	11.96	0.0340	0. 74. 0.35
MILE 67.20	870.99	600000.	6.77	88664.	5797.	11.61	0.0340	0. 80. 0.30
MILE 65.10	866.65	600000.	9.07	66162.	6467.	11.38	0.0320	0. 80. 0.50
MILE 63.00	865.47	600000.	5.13	116888.	3689.	9.84	0.0400	0. 84. 0.16
MILE 60.90	861.18	600000.	7.37	81462.	3453.	9.89	0.0450	0. 85. 0.27
MILE 58.80	853.77	600000.	8.70	68956.	2826.	9.10	0.0400	0. 81. 0.31
MILE 57.00	852.15	600000.	8.22	72972.	2992.	9.02	0.0200	0. 77. 0.29
MILE 55.00	849.56	600000.	9.74	61589.	2946.	8.92	0.0200	0. 76. 0.38
MILE 53.10	848.34	600000.	8.03	74678.	3462.	10.66	0.0200	0. 75. 0.30
MILE 51.00	846.91	600000.	8.46	70950.	4610.	10.96	0.0200	0. 78. 0.38
MILE 48.30	846.35	600000.	6.50	92360.	9485.	14.00	0.0200	0. 77. 0.37
MILE 46.20	845.65	600000.	7.13	84172.	9044.	12.96	0.0200	0. 84. 0.41
MILE 44.10	845.74	600000.	4.19	143238.	3865.	11.76	0.0300	0. 91. 0.12
MILE 43.70	843.60	600000.	11.95	50197.	3827.	15.26	0.0300	0. 91. 0.58
MILE 42.00	844.48	600000.	4.41	135923.	3932.	10.68	0.0300	0. 94. 0.13
MILE 39.10	842.11	600000.	8.50	70583.	3839.	14.41	0.0230	0. 91. 0.35
MILE 37.00	842.35	600000.	4.72	127148.	2526.	14.52	0.0280	0. 91. 0.12
MILE 36.00	841.11	600000.	8.85	67835.	1794.	14.97	0.0280	0. 92. 0.25
MILE 34.60	840.82	600000.	6.94	86413.	2623.	16.16	0.0280	0. 92. 0.21
MILE 33.60	841.29	600000.	2.96	202439.	5074.	16.01	0.0290	0. 98. 0.08
MILE 31.50	840.29	600000.	7.22	83126.	3956.	16.37	0.0250	0. 101. 0.28
MILE 30.10	840.00	600000.	6.53	91870.	1498.	15.54	0.0200	0. 99. 0.15
MILE 29.00	839.79	600000.	6.56	91403.	2276.	16.76	0.0200	0. 100. 0.18
MILE 27.30	839.48	600000.	6.71	89439.	2072.	17.34	0.0230	0. 102. 0.18
MILE 25.20	839.25	600000.	5.99	100225.	1986.	18.65	0.0230	0. 105. 0.15
MILE 23.10	838.74	600000.	6.67	89949.	2383.	17.11	0.0230	0. 109. 0.19

0DATE 10-30-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 19.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL
INFLOW DEPTH	FROUDE							
MILE 79.80	902.60	600000.	13.07	45920.	1165.	10.85	0.0290	0. 84. 0.37
MILE 77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0. 89. 0.28
MILE 75.60	891.74	600000.	11.61	51670.	3513.	11.04	0.0400	0. 85. 0.53
MILE 73.50	879.94	600000.	13.94	43040.	2649.	11.78	0.0330	0. 81. 0.61
MILE 71.40	877.56	600000.	8.61	69725.	2150.	13.28	0.0400	0. 80. 0.27

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 644 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	69.30	873.19	600000.	10.34	58025.	2115.	11.96	0.0340	0.	74.	0.35
MILE	67.20	870.99	600000.	6.77	88664.	5797.	11.61	0.0340	0.	80.	0.30
MILE	65.10	866.65	600000.	9.07	66162.	6467.	11.38	0.0320	0.	80.	0.50
MILE	63.00	865.47	600000.	5.13	116888.	3689.	9.84	0.0400	0.	84.	0.16
MILE	60.90	861.18	600000.	7.37	81462.	3453.	9.89	0.0450	0.	85.	0.27
MILE	58.80	853.77	600000.	8.70	68956.	2826.	9.10	0.0400	0.	81.	0.31
MILE	57.00	852.15	600000.	8.22	72972.	2992.	9.02	0.0200	0.	77.	0.29
MILE	55.00	849.56	600000.	9.74	61589.	2946.	8.92	0.0200	0.	76.	0.38
MILE	53.10	848.34	600000.	8.03	74678.	3462.	10.66	0.0200	0.	75.	0.30
MILE	51.00	846.91	600000.	8.46	70950.	4610.	10.96	0.0200	0.	78.	0.38
MILE	48.30	846.35	600000.	6.50	92360.	9485.	14.00	0.0200	0.	77.	0.37
MILE	46.20	845.65	600000.	7.13	84172.	9044.	12.96	0.0200	0.	84.	0.41
MILE	44.10	845.74	600000.	4.19	143238.	3865.	11.76	0.0300	0.	91.	0.12
MILE	43.70	843.60	600000.	11.95	50197.	3827.	15.26	0.0300	0.	91.	0.58
MILE	42.00	844.48	600000.	4.41	135923.	3932.	10.68	0.0300	0.	94.	0.13
MILE	39.10	842.11	600000.	8.50	70583.	3839.	14.41	0.0230	0.	91.	0.35
MILE	37.00	842.35	600000.	4.72	127148.	2526.	14.52	0.0280	0.	91.	0.12
MILE	36.00	841.11	600000.	8.85	67835.	1794.	14.97	0.0280	0.	92.	0.25
MILE	34.60	840.82	600000.	6.94	86413.	2623.	16.16	0.0280	0.	92.	0.21
MILE	33.60	841.29	600000.	2.96	202439.	5074.	16.01	0.0290	0.	98.	0.08
MILE	31.50	840.29	600000.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE	30.10	840.00	600000.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15
MILE	29.00	839.79	600000.	6.56	91403.	2276.	16.76	0.0200	0.	100.	0.18
MILE	27.30	839.48	600000.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE	25.20	839.25	600000.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE	23.10	838.74	600000.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

0DATE 10-30-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 20.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	902.60	600000.	13.07	45920.	1165.	10.85	0.0290	0.	84.	0.37
MILE	77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0.	89.	0.28
MILE	75.60	891.74	600000.	11.61	51670.	3513.	11.04	0.0400	0.	85.	0.53
MILE	73.50	879.94	600000.	13.94	43040.	2649.	11.78	0.0330	0.	81.	0.61
MILE	71.40	877.56	600000.	8.61	69725.	2150.	13.28	0.0400	0.	80.	0.27
MILE	69.30	873.19	600000.	10.34	58025.	2115.	11.96	0.0340	0.	74.	0.35
MILE	67.20	870.99	600000.	6.77	88664.	5797.	11.61	0.0340	0.	80.	0.30
MILE	65.10	866.65	600000.	9.07	66162.	6467.	11.38	0.0320	0.	80.	0.50
MILE	63.00	865.47	600000.	5.13	116888.	3689.	9.84	0.0400	0.	84.	0.16
MILE	60.90	861.18	600000.	7.37	81462.	3453.	9.89	0.0450	0.	85.	0.27
MILE	58.80	853.77	600000.	8.70	68956.	2826.	9.10	0.0400	0.	81.	0.31
MILE	57.00	852.15	600000.	8.22	72972.	2992.	9.02	0.0200	0.	77.	0.29
MILE	55.00	849.56	600000.	9.74	61589.	2946.	8.92	0.0200	0.	76.	0.38
MILE	53.10	848.34	600000.	8.03	74678.	3462.	10.66	0.0200	0.	75.	0.30
MILE	51.00	846.91	600000.	8.46	70950.	4610.	10.96	0.0200	0.	78.	0.38
MILE	48.30	846.35	600000.	6.50	92360.	9485.	14.00	0.0200	0.	77.	0.37

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 645 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	46.20	845.65	600000.	7.13	84172.	9044.	12.96	0.0200	0.	84.	0.41
MILE	44.10	845.74	600000.	4.19	143238.	3865.	11.76	0.0300	0.	91.	0.12
MILE	43.70	843.60	600000.	11.95	50197.	3827.	15.26	0.0300	0.	91.	0.58
MILE	42.00	844.48	600000.	4.41	135923.	3932.	10.68	0.0300	0.	94.	0.13
MILE	39.10	842.11	600000.	8.50	70583.	3839.	14.41	0.0230	0.	91.	0.35
MILE	37.00	842.35	600000.	4.72	127148.	2526.	14.52	0.0280	0.	91.	0.12
MILE	36.00	841.11	600000.	8.85	67835.	1794.	14.97	0.0280	0.	92.	0.25
MILE	34.60	840.82	600000.	6.94	86413.	2623.	16.16	0.0280	0.	92.	0.21
MILE	33.60	841.29	600000.	2.96	202439.	5074.	16.01	0.0290	0.	98.	0.08
MILE	31.50	840.29	600000.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE	30.10	840.00	600000.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15
MILE	29.00	839.79	600000.	6.56	91403.	2276.	16.76	0.0200	0.	100.	0.18
MILE	27.30	839.48	600000.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE	25.20	839.25	600000.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE	23.10	838.74	600000.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

0DATE 10-30-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 21.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE	79.80	902.60	600000.	13.07	45920.	1165.	10.85	0.0290	0.	84.	0.37
MILE	77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0.	89.	0.28
MILE	75.60	891.74	600000.	11.61	51670.	3513.	11.04	0.0400	0.	85.	0.53
MILE	73.50	879.94	600000.	13.94	43040.	2649.	11.78	0.0330	0.	81.	0.61
MILE	71.40	877.56	600000.	8.61	69725.	2150.	13.28	0.0400	0.	80.	0.27
MILE	69.30	873.19	600000.	10.34	58025.	2115.	11.96	0.0340	0.	74.	0.35
MILE	67.20	870.99	600000.	6.77	88664.	5797.	11.61	0.0340	0.	80.	0.30
MILE	65.10	866.65	600000.	9.07	66162.	6467.	11.38	0.0320	0.	80.	0.50
MILE	63.00	865.47	600000.	5.13	116888.	3689.	9.84	0.0400	0.	84.	0.16
MILE	60.90	861.18	600000.	7.37	81462.	3453.	9.89	0.0450	0.	85.	0.27
MILE	58.80	853.77	600000.	8.70	68956.	2826.	9.10	0.0400	0.	81.	0.31
MILE	57.00	852.15	600000.	8.22	72972.	2992.	9.02	0.0200	0.	77.	0.29
MILE	55.00	849.56	600000.	9.74	61589.	2946.	8.92	0.0200	0.	76.	0.38
MILE	53.10	848.34	600000.	8.03	74678.	3462.	10.66	0.0200	0.	75.	0.30
MILE	51.00	846.91	600000.	8.46	70950.	4610.	10.96	0.0200	0.	78.	0.38
MILE	48.30	846.35	600000.	6.50	92360.	9485.	14.00	0.0200	0.	77.	0.37
MILE	46.20	845.65	600000.	7.13	84172.	9044.	12.96	0.0200	0.	84.	0.41
MILE	44.10	845.74	600000.	4.19	143238.	3865.	11.76	0.0300	0.	91.	0.12
MILE	43.70	843.60	600000.	11.95	50197.	3827.	15.26	0.0300	0.	91.	0.58
MILE	42.00	844.48	600000.	4.41	135923.	3932.	10.68	0.0300	0.	94.	0.13
MILE	39.10	842.11	600000.	8.50	70583.	3839.	14.41	0.0230	0.	91.	0.35
MILE	37.00	842.35	600000.	4.72	127148.	2526.	14.52	0.0280	0.	91.	0.12
MILE	36.00	841.11	600000.	8.85	67835.	1794.	14.97	0.0280	0.	92.	0.25
MILE	34.60	840.82	600000.	6.94	86413.	2623.	16.16	0.0280	0.	92.	0.21
MILE	33.60	841.29	600000.	2.96	202439.	5074.	16.01	0.0290	0.	98.	0.08
MILE	31.50	840.29	600000.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE	30.10	840.00	600000.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 646 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	29.00	839.79	600000.	6.56	91403.	2276.	16.76	0.0200	0.	100.	0.18
MILE	27.30	839.48	600000.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE	25.20	839.25	600000.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE	23.10	838.74	600000.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

0DATE 10-30-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 22.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
INFLOW DEPTH FROUDE

MILE	79.80	902.60	600000.	13.07	45920.	1165.	10.85	0.0290	0.	84.	0.37
MILE	77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0.	89.	0.28
MILE	75.60	891.74	600000.	11.61	51670.	3513.	11.04	0.0400	0.	85.	0.53
MILE	73.50	879.94	600000.	13.94	43040.	2649.	11.78	0.0330	0.	81.	0.61
MILE	71.40	877.56	600000.	8.61	69725.	2150.	13.28	0.0400	0.	80.	0.27
MILE	69.30	873.19	600000.	10.34	58025.	2115.	11.96	0.0340	0.	74.	0.35
MILE	67.20	870.99	600000.	6.77	88664.	5797.	11.61	0.0340	0.	80.	0.30
MILE	65.10	866.65	600000.	9.07	66162.	6467.	11.38	0.0320	0.	80.	0.50
MILE	63.00	865.47	600000.	5.13	116888.	3689.	9.84	0.0400	0.	84.	0.16
MILE	60.90	861.18	600000.	7.37	81462.	3453.	9.89	0.0450	0.	85.	0.27
MILE	58.80	853.77	600000.	8.70	68956.	2826.	9.10	0.0400	0.	81.	0.31
MILE	57.00	852.15	600000.	8.22	72972.	2992.	9.02	0.0200	0.	77.	0.29
MILE	55.00	849.56	600000.	9.74	61589.	2946.	8.92	0.0200	0.	76.	0.38
MILE	53.10	848.34	600000.	8.03	74678.	3462.	10.66	0.0200	0.	75.	0.30
MILE	51.00	846.91	600000.	8.46	70950.	4610.	10.96	0.0200	0.	78.	0.38
MILE	48.30	846.35	600000.	6.50	92360.	9485.	14.00	0.0200	0.	77.	0.37
MILE	46.20	845.65	600000.	7.13	84172.	9044.	12.96	0.0200	0.	84.	0.41
MILE	44.10	845.74	600000.	4.19	143238.	3865.	11.76	0.0300	0.	91.	0.12
MILE	43.70	843.60	600000.	11.95	50197.	3827.	15.26	0.0300	0.	91.	0.58
MILE	42.00	844.48	600000.	4.41	135923.	3932.	10.68	0.0300	0.	94.	0.13
MILE	39.10	842.11	600000.	8.50	70583.	3839.	14.41	0.0230	0.	91.	0.35
MILE	37.00	842.35	600000.	4.72	127148.	2526.	14.52	0.0280	0.	91.	0.12
MILE	36.00	841.11	600000.	8.85	67835.	1794.	14.97	0.0280	0.	92.	0.25
MILE	34.60	840.82	600000.	6.94	86413.	2623.	16.16	0.0280	0.	92.	0.21
MILE	33.60	841.29	600000.	2.96	202439.	5074.	16.01	0.0290	0.	98.	0.08
MILE	31.50	840.29	600000.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE	30.10	840.00	600000.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15
MILE	29.00	839.79	600000.	6.56	91403.	2276.	16.76	0.0200	0.	100.	0.18
MILE	27.30	839.48	600000.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE	25.20	839.25	600000.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE	23.10	838.74	600000.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

0DATE 10-30-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 647 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

TIME 23.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	902.60	600000.	13.07	45920.	1165.	10.85	0.0290	0.	84.	0.37
MILE 77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0.	89.	0.28
MILE 75.60	891.74	600000.	11.61	51670.	3513.	11.04	0.0400	0.	85.	0.53
MILE 73.50	879.94	600000.	13.94	43040.	2649.	11.78	0.0330	0.	81.	0.61
MILE 71.40	877.56	600000.	8.61	69725.	2150.	13.28	0.0400	0.	80.	0.27
MILE 69.30	873.19	600000.	10.34	58025.	2115.	11.96	0.0340	0.	74.	0.35
MILE 67.20	870.99	600000.	6.77	88664.	5797.	11.61	0.0340	0.	80.	0.30
MILE 65.10	866.65	600000.	9.07	66162.	6467.	11.38	0.0320	0.	80.	0.50
MILE 63.00	865.47	600000.	5.13	116888.	3689.	9.84	0.0400	0.	84.	0.16
MILE 60.90	861.18	600000.	7.37	81462.	3453.	9.89	0.0450	0.	85.	0.27
MILE 58.80	853.77	600000.	8.70	68956.	2826.	9.10	0.0400	0.	81.	0.31
MILE 57.00	852.15	600000.	8.22	72972.	2992.	9.02	0.0200	0.	77.	0.29
MILE 55.00	849.56	600000.	9.74	61589.	2946.	8.92	0.0200	0.	76.	0.38
MILE 53.10	848.34	600000.	8.03	74678.	3462.	10.66	0.0200	0.	75.	0.30
MILE 51.00	846.91	600000.	8.46	70950.	4610.	10.96	0.0200	0.	78.	0.38
MILE 48.30	846.35	600000.	6.50	92360.	9485.	14.00	0.0200	0.	77.	0.37
MILE 46.20	845.65	600000.	7.13	84172.	9044.	12.96	0.0200	0.	84.	0.41
MILE 44.10	845.74	600000.	4.19	143238.	3865.	11.76	0.0300	0.	91.	0.12
MILE 43.70	843.60	600000.	11.95	50197.	3827.	15.26	0.0300	0.	91.	0.58
MILE 42.00	844.48	600000.	4.41	135923.	3932.	10.68	0.0300	0.	94.	0.13
MILE 39.10	842.11	600000.	8.50	70583.	3839.	14.41	0.0230	0.	91.	0.35
MILE 37.00	842.35	600000.	4.72	127148.	2526.	14.52	0.0280	0.	91.	0.12
MILE 36.00	841.11	600000.	8.85	67835.	1794.	14.97	0.0280	0.	92.	0.25
MILE 34.60	840.82	600000.	6.94	86413.	2623.	16.16	0.0280	0.	92.	0.21
MILE 33.60	841.29	600000.	2.96	202439.	5074.	16.01	0.0290	0.	98.	0.08
MILE 31.50	840.29	600000.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE 30.10	840.00	600000.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15
MILE 29.00	839.79	600000.	6.56	91403.	2276.	16.76	0.0200	0.	100.	0.18
MILE 27.30	839.48	600000.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE 25.20	839.25	600000.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE 23.10	838.74	600000.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

0DATE 10-31-08 Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

TIME 0.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL
 INFLOW DEPTH FROUDE

MILE 79.80	902.60	600000.	13.07	45920.	1165.	10.85	0.0290	0.	84.	0.37
MILE 77.70	900.12	600000.	10.18	58944.	1422.	12.03	0.0400	0.	89.	0.28
MILE 75.60	891.74	600000.	11.61	51670.	3513.	11.04	0.0400	0.	85.	0.53
MILE 73.50	879.94	600000.	13.94	43040.	2649.	11.78	0.0330	0.	81.	0.61
MILE 71.40	877.56	600000.	8.61	69725.	2150.	13.28	0.0400	0.	80.	0.27
MILE 69.30	873.19	600000.	10.34	58025.	2115.	11.96	0.0340	0.	74.	0.35
MILE 67.20	870.99	600000.	6.77	88664.	5797.	11.61	0.0340	0.	80.	0.30
MILE 65.10	866.65	600000.	9.07	66162.	6467.	11.38	0.0320	0.	80.	0.50

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 648 of 665
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MILE 63.00	865.47	600000.	5.13	116888.	3689.	9.84	0.0400	0.	84.	0.16
MILE 60.90	861.18	600000.	7.37	81462.	3453.	9.89	0.0450	0.	85.	0.27
MILE 58.80	853.77	600000.	8.70	68956.	2826.	9.10	0.0400	0.	81.	0.31
MILE 57.00	852.15	600000.	8.22	72972.	2992.	9.02	0.0200	0.	77.	0.29
MILE 55.00	849.56	600000.	9.74	61589.	2946.	8.92	0.0200	0.	76.	0.38
MILE 53.10	848.34	600000.	8.03	74678.	3462.	10.66	0.0200	0.	75.	0.30
MILE 51.00	846.91	600000.	8.46	70950.	4610.	10.96	0.0200	0.	78.	0.38
MILE 48.30	846.35	600000.	6.50	92360.	9485.	14.00	0.0200	0.	77.	0.37
MILE 46.20	845.65	600000.	7.13	84172.	9044.	12.96	0.0200	0.	84.	0.41
MILE 44.10	845.74	600000.	4.19	143238.	3865.	11.76	0.0300	0.	91.	0.12
MILE 43.70	843.60	600000.	11.95	50197.	3827.	15.26	0.0300	0.	91.	0.58
MILE 42.00	844.48	600000.	4.41	135923.	3932.	10.68	0.0300	0.	94.	0.13
MILE 39.10	842.11	600000.	8.50	70583.	3839.	14.41	0.0230	0.	91.	0.35
MILE 37.00	842.35	600000.	4.72	127148.	2526.	14.52	0.0280	0.	91.	0.12
MILE 36.00	841.11	600000.	8.85	67835.	1794.	14.97	0.0280	0.	92.	0.25
MILE 34.60	840.82	600000.	6.94	86413.	2623.	16.16	0.0280	0.	92.	0.21
MILE 33.60	841.29	600000.	2.96	202439.	5074.	16.01	0.0290	0.	98.	0.08
MILE 31.50	840.29	600000.	7.22	83126.	3956.	16.37	0.0250	0.	101.	0.28
MILE 30.10	840.00	600000.	6.53	91870.	1498.	15.54	0.0200	0.	99.	0.15
MILE 29.00	839.79	600000.	6.56	91403.	2276.	16.76	0.0200	0.	100.	0.18
MILE 27.30	839.48	600000.	6.71	89439.	2072.	17.34	0.0230	0.	102.	0.18
MILE 25.20	839.25	600000.	5.99	100225.	1986.	18.65	0.0230	0.	105.	0.15
MILE 23.10	838.74	600000.	6.67	89949.	2383.	17.11	0.0230	0.	109.	0.19

1

Steady State - 100K to 600K Melton Hill-61SOCH Interpolated-Final

THE COMPUTATION STARTED ON 9-27-08 AT TIME 0.00 AND TERMINATED ON 10-31-08 AT TIME 0.00

THE MAXIMUM ELEVATIONS, DISCHARGES, VELOCITIES ARE:

EL(FT)	DAY	TIME	Q(CFS)	DAY	TIME	V(FPS)	DAY	TIME
MILE 79.80	902.60	31 0.00	600000.	27	0.00	13.20	27	0.00
MILE 77.70	900.12	31 0.00	600000.	31	0.00	10.28	27	0.04
MILE 75.60	891.74	31 0.00	600000.	31	0.00	11.73	27	0.16
MILE 73.50	879.94	31 0.00	600000.	31	0.00	14.09	27	0.46
MILE 71.40	877.56	31 0.00	600000.	31	0.00	8.71	27	0.51
MILE 69.30	873.19	31 0.00	600000.	31	0.00	10.44	27	0.85
MILE 67.20	870.99	31 0.00	600000.	31	0.00	6.81	27	1.07
MILE 65.10	866.65	31 0.00	600000.	31	0.00	9.08	27	1.59
MILE 63.00	865.47	31 0.00	600000.	31	0.00	5.58	6	5.04
MILE 60.90	861.18	31 0.00	600000.	31	0.00	7.62	16	3.04
MILE 58.80	853.77	31 0.00	600000.	31	0.00	8.70	31	0.00
MILE 57.00	852.15	31 0.00	600000.	31	0.00	8.56	27	1.41
MILE 55.00	849.56	31 0.00	600000.	31	0.00	10.00	27	1.27
MILE 53.10	848.34	31 0.00	600000.	31	0.00	8.03	31	0.00
MILE 51.00	846.91	31 0.00	600000.	31	0.00	8.46	31	0.00
MILE 48.30	846.35	31 0.00	600000.	31	0.00	6.50	31	0.00
MILE 46.20	845.65	31 0.00	600000.	31	0.00	7.13	31	0.00

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

MILE	44.10	845.74	31	0.00	600000.	31	0.00	4.19	31	0.00
MILE	43.70	843.60	31	0.00	600000.	31	0.00	11.95	31	0.00
MILE	42.00	844.48	31	0.00	600000.	31	0.00	5.05	27	0.52
MILE	39.10	842.11	31	0.00	600000.	31	0.00	8.50	31	0.00
MILE	37.00	842.35	31	0.00	600000.	31	0.00	4.72	31	0.00
MILE	36.00	841.11	31	0.00	600000.	31	0.00	8.85	31	0.00
MILE	34.60	840.82	31	0.00	600000.	31	0.00	6.94	31	0.00
MILE	33.60	841.29	31	0.00	600000.	31	0.00	2.96	31	0.00
MILE	31.50	840.29	31	0.00	600000.	31	0.00	7.22	31	0.00
MILE	30.10	840.00	31	0.00	600000.	31	0.00	6.53	31	0.00
MILE	29.00	839.79	31	0.00	600000.	31	0.00	6.56	31	0.00
MILE	27.30	839.48	31	0.00	600000.	31	0.00	6.71	31	0.00
MILE	25.20	839.25	31	0.00	600000.	31	0.00	5.99	31	0.00
MILE	23.10	838.74	27	0.00	600000.	31	0.00	6.67	31	0.00

31 LOCATIONS LISTED

1 DISCHARGES AT DOWNSTREAM END OF CHANNEL 1; RM = 23.10

DATE TIME DISCHARGE

9-27-08	0.0	100000.
	1.0	125003.
	2.0	142978.
	3.0	141626.
	4.0	140531.
	5.0	138336.
	6.0	134648.
	7.0	130349.
	8.0	125994.
	9.0	121908.
	10.0	118246.
	11.0	115078.
	12.0	112396.
	13.0	110155.
	14.0	108305.
	15.0	106780.
	16.0	105532.
	17.0	104514.
	18.0	103683.
	19.0	103005.
	20.0	102452.
	21.0	102002.
	22.0	101635.
	23.0	101336.
	24.0	101092.
9-28-08	1.0	100893.
	2.0	100731.
	3.0	100599.

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 650 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
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4.0	100490.
5.0	100402.
6.0	100330.
7.0	100271.
8.0	100222.
9.0	100182.
10.0	100150.
11.0	100123.
12.0	100101.
13.0	100083.
14.0	100068.
15.0	100056.
16.0	100046.
17.0	100038.
18.0	100031.
19.0	100026.
20.0	100021.
21.0	100017.
22.0	100014.
23.0	100012.
24.0	100010.
9-29-08	1.0 100008.
2.0	100007.
3.0	100005.
4.0	100004.
5.0	100004.
6.0	100003.
7.0	100002.
8.0	100002.
9.0	100002.
10.0	100001.
11.0	100001.
12.0	100001.
13.0	100001.
14.0	100001.
15.0	100001.
16.0	100000.
17.0	100000.
18.0	100000.
19.0	100000.
20.0	100000.
21.0	100000.
22.0	100000.
23.0	100000.
24.0	100000.
9-30-08	1.0 100000.
2.0	100000.
3.0	100000.
4.0	100000.
5.0	100000.
6.0	100000.

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 651 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

7.0	100000.
8.0	100000.
9.0	100000.
10.0	100000.
11.0	100000.
12.0	100000.
13.0	100000.
14.0	100000.
15.0	100000.
16.0	100000.
17.0	100000.
18.0	100000.
19.0	100000.
20.0	100000.
21.0	100000.
22.0	100000.
23.0	100000.
24.0	100000.
10-01-08	1.0 100000.
2.0	100000.
3.0	100000.
4.0	100000.
5.0	100000.
6.0	100000.
7.0	100000.
8.0	100000.
9.0	100000.
10.0	100000.
11.0	100000.
12.0	100000.
13.0	100000.
14.0	100000.
15.0	100000.
16.0	100000.
17.0	100000.
18.0	100000.
19.0	100000.
20.0	100000.
21.0	100000.
22.0	100000.
23.0	100000.
24.0	100000.
10-02-08	1.0 100000.
2.0	100000.
3.0	100000.
4.0	100000.
5.0	100000.
6.0	100000.
7.0	100000.
8.0	100000.
9.0	100000.

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 652 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

10.0	100000.
11.0	100000.
12.0	100000.
13.0	100000.
14.0	100000.
15.0	100000.
16.0	100000.
17.0	100000.
18.0	100000.
19.0	100000.
20.0	100000.
21.0	100000.
22.0	100000.
23.0	100000.
24.0	100000.
10-03-08	1.0 100000.
2.0	100000.
3.0	100000.
4.0	100000.
5.0	100000.
6.0	100000.
7.0	100000.
8.0	100000.
9.0	100000.
10.0	100000.
11.0	100000.
12.0	100000.
13.0	100000.
14.0	100000.
15.0	100000.
16.0	100000.
17.0	100000.
18.0	100000.
19.0	100000.
20.0	100000.
21.0	100000.
22.0	100000.
23.0	100000.
24.0	100000.
10-04-08	1.0 100000.
2.0	100000.
3.0	100000.
4.0	100000.
5.0	100000.
6.0	100000.
7.0	100000.
8.0	100000.
9.0	100000.
10.0	100000.
11.0	100000.
12.0	100000.

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 653 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

13.0	100000.
14.0	100000.
15.0	100000.
16.0	100000.
17.0	100000.
18.0	100000.
19.0	100000.
20.0	100000.
21.0	100000.
22.0	100000.
23.0	100000.
24.0	100000.
10-05-08	1.0 100000.
2.0	100000.
3.0	100000.
4.0	100000.
5.0	100000.
6.0	100000.
7.0	100000.
8.0	100000.
9.0	100000.
10.0	100000.
11.0	100000.
12.0	100000.
13.0	100000.
14.0	100000.
15.0	100000.
16.0	100000.
17.0	100000.
18.0	100000.
19.0	100000.
20.0	100000.
21.0	100000.
22.0	100000.
23.0	100000.
24.0	100000.
10-06-08	1.0 81073.
2.0	74156.
3.0	73407.
4.0	70655.
5.0	68088.
6.0	66616.
7.0	65824.
8.0	65672.
9.0	66188.
10.0	67297.
11.0	68876.
12.0	70854.
13.0	73140.
14.0	75646.
15.0	78237.

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 654 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

	16.0	80944.
	17.0	83764.
	18.0	86713.
	19.0	89663.
	20.0	92665.
	21.0	95685.
	22.0	98677.
	23.0	101648.
	24.0	104539.
10-07-08	1.0	137897.
	2.0	155258.
	3.0	164902.
	4.0	172899.
	5.0	178473.
	6.0	182868.
	7.0	186347.
	8.0	189097.
	9.0	191282.
	10.0	193027.
	11.0	194422.
	12.0	195538.
	13.0	196433.
	14.0	197149.
	15.0	197722.
	16.0	198181.
	17.0	198548.
	18.0	198841.
	19.0	199075.
	20.0	199262.
	21.0	199411.
	22.0	199530.
	23.0	199625.
	24.0	199701.
10-08-08	1.0	199761.
	2.0	199809.
	3.0	199847.
	4.0	199878.
	5.0	199903.
	6.0	199922.
	7.0	199938.
	8.0	199950.
	9.0	199960.
	10.0	199968.
	11.0	199974.
	12.0	199979.
	13.0	199983.
	14.0	199987.
	15.0	199989.
	16.0	199991.
	17.0	199993.
	18.0	199994.

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 655 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

	19.0	199996.
	20.0	199996.
	21.0	199997.
	22.0	199998.
	23.0	199998.
	24.0	199998.
10-09-08	1.0	199999.
	2.0	199999.
	3.0	199999.
	4.0	199999.
	5.0	199999.
	6.0	200000.
	7.0	200000.
	8.0	200000.
	9.0	200000.
	10.0	200000.
	11.0	200000.
	12.0	200000.
	13.0	200000.
	14.0	200000.
	15.0	200000.
	16.0	200000.
	17.0	200000.
	18.0	200000.
	19.0	200000.
	20.0	200000.
	21.0	200000.
	22.0	200000.
	23.0	200000.
	24.0	200000.
10-10-08	1.0	200000.
	2.0	200000.
	3.0	200000.
	4.0	200000.
	5.0	200000.
	6.0	200000.
	7.0	200000.
	8.0	200000.
	9.0	200000.
	10.0	200000.
	11.0	200000.
	12.0	200000.
	13.0	200000.
	14.0	200000.
	15.0	200000.
	16.0	200000.
	17.0	200000.
	18.0	200000.
	19.0	200000.
	20.0	200000.
	21.0	200000.

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Appendix E		Checked	ACM

22.0	200000.
23.0	200000.
24.0	200000.
10-11-08	1.0 184251.
2.0	176916.
3.0	173284.
4.0	169961.
5.0	168142.
6.0	167440.
7.0	167660.
8.0	168654.
9.0	170260.
10.0	172364.
11.0	174851.
12.0	177666.
13.0	180704.
14.0	183865.
15.0	187174.
16.0	190569.
17.0	193997.
18.0	197461.
19.0	200998.
20.0	204553.
21.0	208003.
22.0	211453.
23.0	214957.
24.0	218536.
10-12-08	1.0 241704.
2.0	255237.
3.0	264714.
4.0	272315.
5.0	277848.
6.0	282217.
7.0	285685.
8.0	288445.
9.0	290662.
10.0	292447.
11.0	293886.
12.0	295047.
13.0	295986.
14.0	296745.
15.0	297359.
16.0	297855.
17.0	298258.
18.0	298584.
19.0	298848.
20.0	299062.
21.0	299236.
22.0	299377.
23.0	299492.
24.0	299585.

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 657 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

10-13-08 1.0 299661.
 2.0 299723.
 3.0 299774.
 4.0 299815.
 5.0 299848.
 6.0 299876.
 7.0 299898.
 8.0 299916.
 9.0 299931.
 10.0 299944.
 11.0 299954.
 12.0 299962.
 13.0 299969.
 14.0 299974.
 15.0 299979.
 16.0 299983.
 17.0 299986.
 18.0 299988.
 19.0 299990.
 20.0 299992.
 21.0 299993.
 22.0 299995.
 23.0 299996.
 24.0 299996.
 10-14-08 1.0 299997.
 2.0 299997.
 3.0 299998.
 4.0 299998.
 5.0 299999.
 6.0 299999.
 7.0 299999.
 8.0 299999.
 9.0 299999.
 10.0 299999.
 11.0 300000.
 12.0 300000.
 13.0 300000.
 14.0 300000.
 15.0 300000.
 16.0 300000.
 17.0 300000.
 18.0 300000.
 19.0 300000.
 20.0 300000.
 21.0 300000.
 22.0 300000.
 23.0 300000.
 24.0 300000.
 10-15-08 1.0 300000.
 2.0 300000.
 3.0 300000.

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 658 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

4.0	300000.
5.0	300000.
6.0	300000.
7.0	300000.
8.0	300000.
9.0	300000.
10.0	300000.
11.0	300000.
12.0	300000.
13.0	300000.
14.0	300000.
15.0	300000.
16.0	300000.
17.0	300000.
18.0	300000.
19.0	300000.
20.0	300000.
21.0	300000.
22.0	300000.
23.0	300000.
24.0	300000.
10-16-08	1.0 287990.
2.0	281974.
3.0	278307.
4.0	275519.
5.0	274151.
6.0	273769.
7.0	274228.
8.0	275396.
9.0	277136.
10.0	279308.
11.0	281874.
12.0	284760.
13.0	287883.
14.0	291214.
15.0	294711.
16.0	298301.
17.0	301982.
18.0	305749.
19.0	309584.
20.0	313477.
21.0	317409.
22.0	321369.
23.0	325350.
24.0	329328.
10-17-08	1.0 347050.
2.0	358162.
3.0	366555.
4.0	373521.
5.0	378849.
6.0	383086.

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 659 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

7.0	386457.
8.0	389135.
9.0	391268.
10.0	392970.
11.0	394330.
12.0	395418.
13.0	396290.
14.0	396991.
15.0	397554.
16.0	398008.
17.0	398375.
18.0	398670.
19.0	398910.
20.0	399104.
21.0	399263.
22.0	399392.
23.0	399498.
24.0	399585.
10-18-08	1.0 399657.
2.0	399716.
3.0	399764.
4.0	399804.
5.0	399838.
6.0	399865.
7.0	399888.
8.0	399907.
9.0	399923.
10.0	399936.
11.0	399947.
12.0	399956.
13.0	399963.
14.0	399969.
15.0	399975.
16.0	399979.
17.0	399983.
18.0	399985.
19.0	399988.
20.0	399990.
21.0	399992.
22.0	399993.
23.0	399994.
24.0	399995.
10-19-08	1.0 399996.
2.0	399997.
3.0	399997.
4.0	399998.
5.0	399998.
6.0	399998.
7.0	399999.
8.0	399999.
9.0	399999.

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 660 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

10.0	399999.
11.0	399999.
12.0	399999.
13.0	400000.
14.0	400000.
15.0	400000.
16.0	400000.
17.0	400000.
18.0	400000.
19.0	400000.
20.0	400000.
21.0	400000.
22.0	400000.
23.0	400000.
24.0	400000.
10-20-08	1.0 400000.
2.0	400000.
3.0	400000.
4.0	400000.
5.0	400000.
6.0	400000.
7.0	400000.
8.0	400000.
9.0	400000.
10.0	400000.
11.0	400000.
12.0	400000.
13.0	400000.
14.0	400000.
15.0	400000.
16.0	400000.
17.0	400000.
18.0	400000.
19.0	400000.
20.0	400000.
21.0	400000.
22.0	400000.
23.0	400000.
24.0	400000.
10-21-08	1.0 387016.
2.0	380242.
3.0	375874.
4.0	372608.
5.0	370903.
6.0	370325.
7.0	370672.
8.0	371770.
9.0	373470.
10.0	375650.
11.0	378209.
12.0	381063.

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 661 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

	13.0	384134.
	14.0	387386.
	15.0	390728.
	16.0	394170.
	17.0	397713.
	18.0	401351.
	19.0	405038.
	20.0	408771.
	21.0	412575.
	22.0	416407.
	23.0	420283.
	24.0	424186.
10-22-08	1.0	442924.
	2.0	454817.
	3.0	463985.
	4.0	471449.
	5.0	477124.
	6.0	481625.
	7.0	485195.
	8.0	488039.
	9.0	490313.
	10.0	492141.
	11.0	493615.
	12.0	494805.
	13.0	495769.
	14.0	496550.
	15.0	497184.
	16.0	497700.
	17.0	498120.
	18.0	498462.
	19.0	498740.
	20.0	498968.
	21.0	499153.
	22.0	499305.
	23.0	499429.
	24.0	499531.
10-23-08	1.0	499614.
	2.0	499683.
	3.0	499739.
	4.0	499785.
	5.0	499823.
	6.0	499854.
	7.0	499879.
	8.0	499900.
	9.0	499918.
	10.0	499932.
	11.0	499944.
	12.0	499953.
	13.0	499961.
	14.0	499968.
	15.0	499974.

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 662 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

16.0	499978.
17.0	499982.
18.0	499985.
19.0	499988.
20.0	499990.
21.0	499991.
22.0	499993.
23.0	499994.
24.0	499995.
10-24-08	1.0 499996.
2.0	499997.
3.0	499997.
4.0	499998.
5.0	499998.
6.0	499998.
7.0	499999.
8.0	499999.
9.0	499999.
10.0	499999.
11.0	499999.
12.0	499999.
13.0	500000.
14.0	500000.
15.0	500000.
16.0	500000.
17.0	500000.
18.0	500000.
19.0	500000.
20.0	500000.
21.0	500000.
22.0	500000.
23.0	500000.
24.0	500000.
10-25-08	1.0 500000.
2.0	500000.
3.0	500000.
4.0	500000.
5.0	500000.
6.0	500000.
7.0	500000.
8.0	500000.
9.0	500000.
10.0	500000.
11.0	500000.
12.0	500000.
13.0	500000.
14.0	500000.
15.0	500000.
16.0	500000.
17.0	500000.
18.0	500000.

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 663 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

19.0	500000.
20.0	500000.
21.0	500000.
22.0	500000.
23.0	500000.
24.0	500000.
10-26-08	1.0 485832.
2.0	478144.
3.0	472941.
4.0	469119.
5.0	467034.
6.0	466186.
7.0	466353.
8.0	467320.
9.0	468906.
10.0	470980.
11.0	473435.
12.0	476171.
13.0	479142.
14.0	482304.
15.0	485616.
16.0	489047.
17.0	492551.
18.0	496102.
19.0	499698.
20.0	503358.
21.0	507073.
22.0	510857.
23.0	514686.
24.0	518533.
10-27-08	1.0 538547.
2.0	551444.
3.0	561553.
4.0	569568.
5.0	575597.
6.0	580358.
7.0	584121.
8.0	587115.
9.0	589520.
10.0	591461.
11.0	593031.
12.0	594306.
13.0	595342.
14.0	596186.
15.0	596873.
16.0	597435.
17.0	597893.
18.0	598269.
19.0	598576.
20.0	598827.
21.0	599034.

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 664 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

22.0	599203.
23.0	599342.
24.0	599457.
10-28-08	1.0 599551.
2.0	599628.
3.0	599692.
4.0	599745.
5.0	599789.
6.0	599825.
7.0	599855.
8.0	599879.
9.0	599900.
10.0	599917.
11.0	599931.
12.0	599942.
13.0	599952.
14.0	599960.
15.0	599967.
16.0	599972.
17.0	599977.
18.0	599981.
19.0	599984.
20.0	599987.
21.0	599989.
22.0	599991.
23.0	599992.
24.0	599994.
10-29-08	1.0 599995.
2.0	599995.
3.0	599996.
4.0	599997.
5.0	599997.
6.0	599998.
7.0	599998.
8.0	599998.
9.0	599999.
10.0	599999.
11.0	599999.
12.0	599999.
13.0	599999.
14.0	599999.
15.0	600000.
16.0	600000.
17.0	600000.
18.0	600000.
19.0	600000.
20.0	600000.
21.0	600000.
22.0	600000.
23.0	600000.
24.0	600000.

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 665 of 665
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix E		Checked	ACM

10-30-08 1.0 600000.
2.0 600000.
3.0 600000.
4.0 600000.
5.0 600000.
6.0 600000.
7.0 600000.
8.0 600000.
9.0 600000.
10.0 600000.
11.0 600000.
12.0 600000.
13.0 600000.
14.0 600000.
15.0 600000.
16.0 600000.
17.0 600000.
18.0 600000.
19.0 600000.
20.0 600000.
21.0 600000.
22.0 600000.
23.0 600000.
24.0 600000.

RUN BEGINS ON AUG 6, 2009, 7:23:04.38 AM
RUN ENDS ON AUG 6, 2009, 7:23:22.47 AM

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 1 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

SOCH Input Files, Unsteady State

Melton Hill_Calibrate_Mar1973-61sections.out

SOCH - QA REV1.0 - 03/24/2009

1-----
Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

THIS RUN STARTS ON 3-10-1973 AT TIME 0.000

IT ENDS ON 3-21-1973 AT TIME 0.000

ALL THE HYDROGRAPHS

START ON 3-10-1973 AT TIME 0.000

THE COMPUTATION TIME STEP IS 5. SECONDS

THE PRINT INTERVAL IS 60. MINUTES

THE COMPLETE RUN LASTS 11.0 DAY(S)

+ THE NON-BOUNDARY LINE POINTS ARE NOT PRINTED

SOCH INPUT DATA ARE READ FROM FILE F:\34\34107\3410702\SOCH Calibrations\Melton Hill SOCH Calibration\Calibration-05-06-09\March 1973\Melton Hill_Calibrate_Mar1973-61sections.dat

SOCH OUTPUT LISTING IS WRITTEN TO FILE F:\34\34107\3410702\SOCH Calibrations\Melton Hill SOCH Calibration\Calibration-05-06-09\March 1973\Melton Hill_Calibrate_Mar1973-61sections.out

ALL LOCAL INFLOWS ARE READ FROM FILE F:\34\34107\3410702\SOCH Calibrations\Melton Hill SOCH Calibration\Calibration-05-06-09\March 1973\Mar1973LocalInflowHydrograph_Melton Hill-61 sections.loc

THE MOST D.S. HYDROGRAPH IS SAVED TO FILE F:\34\34107\3410702\SOCH Calibrations\Melton Hill SOCH Calibration\Calibration-05-06-09\March 1973\Melton Hill_Calibrate_Mar1973-61sections.sto

THE GEOMETRY IS READ FROM FILE F:\34\34107\3410702\SOCH Calibrations\Melton Hill SOCH Calibration\Calibration-05-06-09\March 1973\Melton Hill Rev4.geo

NUMBER OF CHANNEL(S): 1 NUMBER OF JUNCTION(S): 0

+ _____

31 CROSS SECTIONS IN GEOMETRY FILE, EACH WITH 21 ENTRIES

THE COMPUTED ELEVATION FIRST ESTIMATED ABOVE ENTRY 0

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 2 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

CHANNEL 1 HAS 61 NODES, IT IS CHARACTERIZED BY:

+ _____

BOUNDARY CONDITIONS PRESCRIBED (AT THE BEGINNING OF RUN):

UPSTREAM: KUBC= 1 (0:ELEVATION; 1:DISCHARGE; 2:RATING TABLE; 3:JUNCTION)

DOWNSTRM: KDBC= 0 (IF A TABLE IS USED, IT IS TABLE NO. 0)

KRULE= 0 (0:NO FIXED RULE OPERATION; 1:FIXED RULE REGULAR; 2:FIXED RULE PMF)

IF A FAILURE OCCURS ,IT IS OF TYPE KTOTFL= 0 (0:FOR PARTIAL FAILURE THEN USE TABLE 4, IF NOT PRESENT, THE RUN WILL STOP;

1:FOR TOTAL FAILURE, DOWNSTREAM CHANNEL NEEDED)

KODEN= 0 (0:MANNING N CONSTANT; 1:VARY WITH ELEVATION; 2:VARY WITH DISCHARGE)

NUTP= 0 (NUMBER OF POINTS IN THE UPSTREAM RATING TABLE)

NDTP= 0 (NUMBER OF POINTS IN THE DOWNSTRM RATING TABLE)

NDTP2= 0 (NO. OF PTS IN THE 2 ND DOWNSTRM RATING TABLE)

NDTP3= 0 (NO. OF PTS IN THE 3 RD DOWNSTRM RATING TABLE)

NDTP4= 0 (NO. OF PTS IN THE 4 TH DOWNSTRM RATING TABLE)

KUFAX= 1 KDFAX= 0 (HOURLY FAX SHEETS DISCHARGES USED RESPECTIVELY US & DS IF KUFAX=1 & KDFAX=1)

KSTRT= 0 (0:STARTING LINES READ WITH DATA; 1:READ FROM FILE NA)

KEND= 0 (0:ENDING LINE NOT SAVED; 1:SAVED IN FILE NA)

THE MODEL HAS A TOTAL NUMBER OF 61 COMPUTATION NODES

+ _____

CHANNEL 1 UPSTREAM MILE: 79.80

REACH LENGTH US TO DS IN FEET

REACH DX

- 1 5544.00
- 2 5544.00
- 3 5544.00
- 4 5544.00
- 5 5544.00
- 6 5544.00
- 7 5544.00
- 8 5544.00
- 9 5544.00
- 10 5544.00
- 11 5544.00

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 3 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

12 5544.00
13 5544.00
14 5544.00
15 5544.00
16 5544.00
17 5544.00
18 5544.00
19 5544.00
20 5544.00
21 4752.00
22 4752.00
23 5280.00
24 5280.00
25 5016.00
26 5016.00
27 5544.00
28 5544.00
29 7128.00
30 7128.00
31 5544.00
32 5544.00
33 5544.00
34 5544.00
35 1056.00
36 1056.00
37 4488.00
38 4488.00
39 7656.00
40 7656.00
41 5544.00
42 5544.00
43 2640.00
44 2640.00
45 3696.00
46 3696.00
47 2640.00
48 2640.00
49 5544.00
50 5544.00
51 3696.00
52 3696.00
53 2904.00
54 2904.00
55 4488.00
56 4488.00
57 5544.00
58 5544.00
59 5544.00
60 5544.00

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 4 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

- 1 INTERPOLATED SECTIONS INSERTED BETWEEN GEOMETRY SECTIONS 1 & 2
- 1 INTERPOLATED SECTIONS INSERTED BETWEEN GEOMETRY SECTIONS 2 & 3
- 1 INTERPOLATED SECTIONS INSERTED BETWEEN GEOMETRY SECTIONS 3 & 4
- 1 INTERPOLATED SECTIONS INSERTED BETWEEN GEOMETRY SECTIONS 4 & 5
- 1 INTERPOLATED SECTIONS INSERTED BETWEEN GEOMETRY SECTIONS 5 & 6
- 1 INTERPOLATED SECTIONS INSERTED BETWEEN GEOMETRY SECTIONS 6 & 7
- 1 INTERPOLATED SECTIONS INSERTED BETWEEN GEOMETRY SECTIONS 7 & 8
- 1 INTERPOLATED SECTIONS INSERTED BETWEEN GEOMETRY SECTIONS 8 & 9
- 1 INTERPOLATED SECTIONS INSERTED BETWEEN GEOMETRY SECTIONS 9 & 10
- 1 INTERPOLATED SECTIONS INSERTED BETWEEN GEOMETRY SECTIONS 10 & 11
- 1 INTERPOLATED SECTIONS INSERTED BETWEEN GEOMETRY SECTIONS 11 & 12
- 1 INTERPOLATED SECTIONS INSERTED BETWEEN GEOMETRY SECTIONS 12 & 13
- 1 INTERPOLATED SECTIONS INSERTED BETWEEN GEOMETRY SECTIONS 13 & 14
- 1 INTERPOLATED SECTIONS INSERTED BETWEEN GEOMETRY SECTIONS 14 & 15
- 1 INTERPOLATED SECTIONS INSERTED BETWEEN GEOMETRY SECTIONS 15 & 16
- 1 INTERPOLATED SECTIONS INSERTED BETWEEN GEOMETRY SECTIONS 16 & 17
- 1 INTERPOLATED SECTIONS INSERTED BETWEEN GEOMETRY SECTIONS 17 & 18
- 1 INTERPOLATED SECTIONS INSERTED BETWEEN GEOMETRY SECTIONS 18 & 19
- 1 INTERPOLATED SECTIONS INSERTED BETWEEN GEOMETRY SECTIONS 19 & 20
- 1 INTERPOLATED SECTIONS INSERTED BETWEEN GEOMETRY SECTIONS 20 & 21
- 1 INTERPOLATED SECTIONS INSERTED BETWEEN GEOMETRY SECTIONS 21 & 22
- 1 INTERPOLATED SECTIONS INSERTED BETWEEN GEOMETRY SECTIONS 22 & 23
- 1 INTERPOLATED SECTIONS INSERTED BETWEEN GEOMETRY SECTIONS 23 & 24
- 1 INTERPOLATED SECTIONS INSERTED BETWEEN GEOMETRY SECTIONS 24 & 25
- 1 INTERPOLATED SECTIONS INSERTED BETWEEN GEOMETRY SECTIONS 25 & 26
- 1 INTERPOLATED SECTIONS INSERTED BETWEEN GEOMETRY SECTIONS 26 & 27
- 1 INTERPOLATED SECTIONS INSERTED BETWEEN GEOMETRY SECTIONS 27 & 28
- 1 INTERPOLATED SECTIONS INSERTED BETWEEN GEOMETRY SECTIONS 28 & 29
- 1 INTERPOLATED SECTIONS INSERTED BETWEEN GEOMETRY SECTIONS 29 & 30
- 1 INTERPOLATED SECTIONS INSERTED BETWEEN GEOMETRY SECTIONS 30 & 31

A TOTAL OF 30 INTERPOLATED SECTIONS ARE ADDED AS SHOWN ABOVE AND ARE PART OF 61 NODES

SELECTED HYDROGRAPH FILES ARE SAVED TO FILE F:\34\34107\3410702\SOCH Calibrations\Melton Hill SOCH Calibration\Calibration-05-06-09\March 1973\Melton Hill_Calibrate_Mar1973-61sections.prt

ALL THE HYDROGRAPHS START ON 3-10-1973 AT TIME 0.000 SKIP 0.0 HOURS

+ _____

UPSTREAM BOUNDARY DISCHARGES OF CHANNEL 1 GIVEN AS HOURLY AVERAGES FOR 11 DAYS:

DAY HOUR1 HOUR2 HOUR3 HOUR4 HOUR5 HOUR6 HOUR7 HOUR8 HOUR9 HOUR10 HOUR11
 HOUR12

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 5 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

1	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.
2	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.
3	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.
4	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.
5	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.	3330.	2000.	2000.
6	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.
7	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.
8	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.
9	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.
10	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.	2000.
								6280.	10440.	10780.	10890.	10890.	
11	10890.	10890.	10890.	10890.	10890.	10760.	10770.	10720.	10660.	10660.	10720.	10720.	10660.
	10660.	10720.	11160.	10720.	10660.	10720.	10720.	10780.	10660.	10780.	10780.	10780.	10780.

PRESCRIBED DOWNSTREAM BOUNDARY, CHANNEL 1

ELEVATION HOURS DAY TIME

794.00	0.00	10	0.00
794.00	96.00	13	24.00
794.00	97.00	14	1.00
794.00	98.00	14	2.00
794.04	99.00	14	3.00
794.05	100.00	14	4.00
794.05	101.00	14	5.00
794.05	102.00	14	6.00
794.06	103.00	14	7.00
794.09	104.00	14	8.00
794.10	105.00	14	9.00
794.10	106.00	14	10.00
794.10	107.00	14	11.00
794.11	108.00	14	12.00

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 6 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

794.11	109.00	14	13.00
794.14	110.00	14	14.00
794.16	111.00	14	15.00
794.21	112.00	14	16.00
794.19	113.00	14	17.00
793.90	114.00	14	18.00
793.90	115.00	14	19.00
793.90	116.00	14	20.00
793.99	117.00	14	21.00
794.01	118.00	14	22.00
793.87	119.00	14	23.00
793.88	120.00	14	24.00
793.84	121.00	15	1.00
793.97	122.00	15	2.00
794.00	123.00	15	3.00
793.91	124.00	15	4.00
794.01	125.00	15	5.00
794.01	126.00	15	6.00
794.15	127.00	15	7.00
794.03	128.00	15	8.00
794.05	129.00	15	9.00
794.14	130.00	15	10.00
794.08	131.00	15	11.00
794.08	132.00	15	12.00
794.27	133.00	15	13.00
794.19	134.00	15	14.00
794.26	135.00	15	15.00
794.33	136.00	15	16.00
794.38	137.00	15	17.00
794.25	138.00	15	18.00
794.30	139.00	15	19.00
794.54	140.00	15	20.00
794.58	141.00	15	21.00
794.68	142.00	15	22.00
794.76	143.00	15	23.00
794.73	144.00	15	24.00
794.75	145.00	16	1.00
794.83	146.00	16	2.00
794.93	147.00	16	3.00
794.76	148.00	16	4.00
794.78	149.00	16	5.00
794.73	150.00	16	6.00
794.87	151.00	16	7.00
795.00	152.00	16	8.00
795.04	153.00	16	9.00
795.13	154.00	16	10.00
795.20	155.00	16	11.00
795.25	156.00	16	12.00
795.34	157.00	16	13.00
795.55	158.00	16	14.00
795.87	159.00	16	15.00

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 7 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

796.15	160.00	16	16.00
796.20	161.00	16	17.00
796.33	162.00	16	18.00
796.30	163.00	16	19.00
796.26	164.00	16	20.00
796.01	165.00	16	21.00
795.90	166.00	16	22.00
795.71	167.00	16	23.00
795.58	168.00	16	24.00
795.40	169.00	17	1.00
795.20	170.00	17	2.00
795.29	171.00	17	3.00
795.10	172.00	17	4.00
795.01	173.00	17	5.00
794.90	174.00	17	6.00
794.74	175.00	17	7.00
794.63	176.00	17	8.00
794.40	177.00	17	9.00
794.40	178.00	17	10.00
794.54	179.00	17	11.00
794.30	180.00	17	12.00
794.10	181.00	17	13.00
794.14	182.00	17	14.00
793.97	183.00	17	15.00
793.95	184.00	17	16.00
793.98	185.00	17	17.00
794.05	186.00	17	18.00
794.03	187.00	17	19.00
794.04	188.00	17	20.00
794.04	189.00	17	21.00
794.03	190.00	17	22.00
794.00	191.00	17	23.00
794.25	192.00	17	24.00
794.36	193.00	18	1.00
794.43	194.00	18	2.00
794.59	195.00	18	3.00
794.68	196.00	18	4.00
794.78	197.00	18	5.00
794.74	198.00	18	6.00
794.66	199.00	18	7.00
794.71	200.00	18	8.00
794.75	201.00	18	9.00
794.68	202.00	18	10.00
794.55	203.00	18	11.00
794.44	204.00	18	12.00
794.40	205.00	18	13.00
794.37	206.00	18	14.00
794.28	207.00	18	15.00
794.20	208.00	18	16.00
794.11	209.00	18	17.00
794.03	210.00	18	18.00

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 8 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

793.97	211.00	18	19.00
793.59	212.00	18	20.00
793.34	213.00	18	21.00
793.48	214.00	18	22.00
793.24	215.00	18	23.00
793.45	216.00	18	24.00
793.36	217.00	19	1.00
793.36	218.00	19	2.00
793.50	219.00	19	3.00
793.60	220.00	19	4.00
793.31	221.00	19	5.00
793.27	222.00	19	6.00
792.96	223.00	19	7.00
792.80	224.00	19	8.00
792.69	225.00	19	9.00
792.75	226.00	19	10.00
792.84	227.00	19	11.00
792.80	228.00	19	12.00
792.67	229.00	19	13.00
792.55	230.00	19	14.00
792.65	231.00	19	15.00
792.80	232.00	19	16.00
792.79	233.00	19	17.00
792.85	234.00	19	18.00
792.87	235.00	19	19.00
793.00	236.00	19	20.00
793.04	237.00	19	21.00
793.05	238.00	19	22.00
793.09	239.00	19	23.00
793.13	240.00	19	24.00
793.26	241.00	20	1.00
793.27	242.00	20	2.00
793.54	243.00	20	3.00
793.71	244.00	20	4.00
793.57	245.00	20	5.00
793.70	246.00	20	6.00
793.66	247.00	20	7.00
793.60	248.00	20	8.00
793.45	249.00	20	9.00
793.47	250.00	20	10.00
793.53	251.00	20	11.00
793.50	252.00	20	12.00
793.65	253.00	20	13.00
793.65	254.00	20	14.00
793.68	255.00	20	15.00
793.70	256.00	20	16.00
793.72	257.00	20	17.00
793.61	258.00	20	18.00
793.77	259.00	20	19.00
793.80	260.00	20	20.00
793.83	261.00	20	21.00

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 9 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

793.86 262.00 20 22.00
 793.90 263.00 20 23.00
 793.94 264.00 20 24.00

ROUGHNESS FACTORS IN CHANNEL 1

0.0290 0.0250 0.0400 0.0400 0.0400 0.0400 0.0330 0.0330
 0.0400 0.0360 0.0340 0.0340 0.0340 0.0400 0.0320 0.0320
 0.0400 0.0450 0.0450 0.0450 0.0400 0.0200 0.0200 0.0200
 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200
 0.0200 0.0200 0.0300 0.0300 0.0300 0.0300 0.0300 0.0300
 0.0230 0.0230 0.0280 0.0280 0.0280 0.0280 0.0280 0.0280
 0.0290 0.0290 0.0250 0.0250 0.0200 0.0200 0.0200 0.0200
 0.0230 0.0230 0.0230 0.0230 0.0230 0.0000

NUMBER OF CONCENTRATED LOCALS: 1; NUMBER OF DISTRIBUTED LOCALS: 2

CONCENTRATED LOCAL NO. 1 COMES IN CHANNEL 1 AT MILE 58.900

DISTRIBUTED LOCAL NO. 1 COMES IN CHANNEL 1 BETWEEN MILES 79.800 & 23.100

DISTRIBUTED LOCAL NO. 2 COMES IN CHANNEL 1 BETWEEN MILES 68.000 & 23.100

CONCENTRATED LOCAL INFLOW NO. 1 THIS LOCAL INFLOW OCCURS IN REACH 20

DISCHARGE HOURS DAY TIME

-2000. 0.00 10 0.00
 -2000. 1.00 10 1.00
 -2000. 2.00 10 2.00
 -2000. 3.00 10 3.00
 -2000. 4.00 10 4.00
 -2000. 5.00 10 5.00
 -2000. 6.00 10 6.00
 -2000. 7.00 10 7.00
 -2000. 8.00 10 8.00
 -2000. 9.00 10 9.00
 -2000. 10.00 10 10.00
 -2000. 11.00 10 11.00
 -2000. 12.00 10 12.00
 -2000. 13.00 10 13.00
 -2000. 14.00 10 14.00
 -2000. 15.00 10 15.00
 -2000. 16.00 10 16.00
 -2000. 17.00 10 17.00
 -2000. 18.00 10 18.00
 -2000. 19.00 10 19.00
 -2000. 20.00 10 20.00
 -2000. 21.00 10 21.00

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 10 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

-2000. 22.00 10 22.00
 -2000. 23.00 10 23.00
 -2000. 24.00 10 24.00
 -2000. 25.00 11 1.00
 -2000. 26.00 11 2.00
 -2000. 27.00 11 3.00
 -2000. 28.00 11 4.00
 -2000. 29.00 11 5.00
 -2000. 30.00 11 6.00
 -2000. 31.00 11 7.00
 -2000. 32.00 11 8.00
 -2000. 33.00 11 9.00
 -2000. 34.00 11 10.00
 -2000. 35.00 11 11.00
 -2000. 36.00 11 12.00
 -2000. 37.00 11 13.00
 -2000. 38.00 11 14.00
 -2000. 39.00 11 15.00
 -2000. 40.00 11 16.00
 -2000. 41.00 11 17.00
 -2000. 42.00 11 18.00
 -2000. 43.00 11 19.00
 -2000. 44.00 11 20.00
 -2000. 45.00 11 21.00
 -2000. 46.00 11 22.00
 -2000. 47.00 11 23.00
 -2000. 48.00 11 24.00
 -2000. 49.00 12 1.00
 -2000. 50.00 12 2.00
 -2000. 51.00 12 3.00
 -2000. 52.00 12 4.00
 -2000. 53.00 12 5.00
 -2000. 54.00 12 6.00
 -2000. 55.00 12 7.00
 -2000. 56.00 12 8.00
 -2000. 57.00 12 9.00
 -2000. 58.00 12 10.00
 -2000. 59.00 12 11.00
 -2000. 60.00 12 12.00
 -2000. 61.00 12 13.00
 -2000. 62.00 12 14.00
 -2000. 63.00 12 15.00
 -2000. 64.00 12 16.00
 -2000. 65.00 12 17.00
 -2000. 66.00 12 18.00
 -2000. 67.00 12 19.00
 -2000. 68.00 12 20.00
 -2000. 69.00 12 21.00
 -2000. 70.00 12 22.00
 -2000. 71.00 12 23.00
 -2000. 72.00 12 24.00

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 11 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

-2000. 73.00 13 1.00
 -2000. 74.00 13 2.00
 -2000. 75.00 13 3.00
 -2000. 76.00 13 4.00
 -2000. 77.00 13 5.00
 -2000. 78.00 13 6.00
 -2000. 79.00 13 7.00
 -2000. 80.00 13 8.00
 -2000. 81.00 13 9.00
 -2000. 82.00 13 10.00
 -2000. 83.00 13 11.00
 -2000. 84.00 13 12.00
 -2000. 85.00 13 13.00
 -2000. 86.00 13 14.00
 -2000. 87.00 13 15.00
 -2000. 88.00 13 16.00
 -2000. 89.00 13 17.00
 -2000. 90.00 13 18.00
 -2000. 91.00 13 19.00
 -2000. 92.00 13 20.00
 -2000. 93.00 13 21.00
 -2000. 94.00 13 22.00
 -2000. 95.00 13 23.00
 -2000. 96.00 13 24.00
 -2000. 97.00 14 1.00
 -2000. 98.00 14 2.00
 -2000. 99.00 14 3.00
 -2000. 100.00 14 4.00
 -2000. 101.00 14 5.00
 -2000. 102.00 14 6.00
 -2000. 103.00 14 7.00
 -2000. 104.00 14 8.00
 -2000. 105.00 14 9.00
 -2000. 106.00 14 10.00
 -2000. 107.00 14 11.00
 -2000. 108.00 14 12.00
 -2000. 109.00 14 13.00
 -2000. 110.00 14 14.00
 -2000. 111.00 14 15.00
 -2000. 112.00 14 16.00
 -2000. 113.00 14 17.00
 -2000. 114.00 14 18.00
 -2000. 115.00 14 19.00
 -2000. 116.00 14 20.00
 -2000. 117.00 14 21.00
 -2000. 118.00 14 22.00
 -2000. 119.00 14 23.00
 -2000. 120.00 14 24.00
 -2000. 121.00 15 1.00
 -2000. 122.00 15 2.00
 -2000. 123.00 15 3.00

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 12 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

-2000. 124.00 15 4.00
 -2000. 125.00 15 5.00
 -2000. 126.00 15 6.00
 -2000. 127.00 15 7.00
 -2000. 128.00 15 8.00
 -2000. 129.00 15 9.00
 -2000. 130.00 15 10.00
 -2000. 131.00 15 11.00
 -2000. 132.00 15 12.00
 -2000. 133.00 15 13.00
 -2000. 134.00 15 14.00
 -2000. 135.00 15 15.00
 -2000. 136.00 15 16.00
 -2000. 137.00 15 17.00
 -2000. 138.00 15 18.00
 -2000. 139.00 15 19.00
 -2000. 140.00 15 20.00
 -2000. 141.00 15 21.00
 -2000. 142.00 15 22.00
 -2000. 143.00 15 23.00
 -2000. 144.00 15 24.00
 -2000. 145.00 16 1.00
 -2000. 146.00 16 2.00
 -2000. 147.00 16 3.00
 -2000. 148.00 16 4.00
 -2000. 149.00 16 5.00
 -2000. 150.00 16 6.00
 -2000. 151.00 16 7.00
 -2000. 152.00 16 8.00
 -2000. 153.00 16 9.00
 -2000. 154.00 16 10.00
 -2000. 155.00 16 11.00
 -2000. 156.00 16 12.00
 -2000. 157.00 16 13.00
 -2000. 158.00 16 14.00
 -2000. 159.00 16 15.00
 -2000. 160.00 16 16.00
 -2000. 161.00 16 17.00
 -2000. 162.00 16 18.00
 -2000. 163.00 16 19.00
 -2000. 164.00 16 20.00
 -2000. 165.00 16 21.00
 -2000. 166.00 16 22.00
 -2000. 167.00 16 23.00
 -2000. 168.00 16 24.00
 -2000. 169.00 17 1.00
 -2000. 170.00 17 2.00
 -2000. 171.00 17 3.00
 -2000. 172.00 17 4.00
 -2000. 173.00 17 5.00
 -2000. 174.00 17 6.00

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 13 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

-2000. 175.00 17 7.00
 -2000. 176.00 17 8.00
 -2000. 177.00 17 9.00
 -2000. 178.00 17 10.00
 -2000. 179.00 17 11.00
 -2000. 180.00 17 12.00
 -2000. 181.00 17 13.00
 -2000. 182.00 17 14.00
 -2000. 183.00 17 15.00
 -2000. 184.00 17 16.00
 -2000. 185.00 17 17.00
 -2000. 186.00 17 18.00
 -2000. 187.00 17 19.00
 -2000. 188.00 17 20.00
 -2000. 189.00 17 21.00
 -2000. 190.00 17 22.00
 -2000. 191.00 17 23.00
 -2000. 192.00 17 24.00
 -2000. 193.00 18 1.00
 -2000. 194.00 18 2.00
 -2000. 195.00 18 3.00
 -2000. 196.00 18 4.00
 -2000. 197.00 18 5.00
 -2000. 198.00 18 6.00
 -2000. 199.00 18 7.00
 -2000. 200.00 18 8.00
 -2000. 201.00 18 9.00
 -2000. 202.00 18 10.00
 -2000. 203.00 18 11.00
 -2000. 204.00 18 12.00
 -2000. 205.00 18 13.00
 -2000. 206.00 18 14.00
 -2000. 207.00 18 15.00
 -2000. 208.00 18 16.00
 -2000. 209.00 18 17.00
 -2000. 210.00 18 18.00
 -2000. 211.00 18 19.00
 -2000. 212.00 18 20.00
 -2000. 213.00 18 21.00
 -2000. 214.00 18 22.00
 -2000. 215.00 18 23.00
 -2000. 216.00 18 24.00
 -2000. 217.00 19 1.00
 -2000. 218.00 19 2.00
 -2000. 219.00 19 3.00
 -2000. 220.00 19 4.00
 -2000. 221.00 19 5.00
 -2000. 222.00 19 6.00
 -2000. 223.00 19 7.00
 -2000. 224.00 19 8.00
 -2000. 225.00 19 9.00

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 14 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

-2000. 226.00 19 10.00
 -2000. 227.00 19 11.00
 -2000. 228.00 19 12.00
 -2000. 229.00 19 13.00
 -2000. 230.00 19 14.00
 -2000. 231.00 19 15.00
 -2000. 232.00 19 16.00
 -2000. 233.00 19 17.00
 -2000. 234.00 19 18.00
 -2000. 235.00 19 19.00
 -2000. 236.00 19 20.00
 -2000. 237.00 19 21.00
 -2000. 238.00 19 22.00
 -2000. 239.00 19 23.00
 -2000. 240.00 19 24.00
 -2000. 241.00 20 1.00
 -2000. 242.00 20 2.00
 -2000. 243.00 20 3.00
 -2000. 244.00 20 4.00
 -2000. 245.00 20 5.00
 -2000. 246.00 20 6.00
 -2000. 247.00 20 7.00
 -2000. 248.00 20 8.00
 -2000. 249.00 20 9.00
 -2000. 250.00 20 10.00
 -2000. 251.00 20 11.00
 -2000. 252.00 20 12.00
 -2000. 253.00 20 13.00
 -2000. 254.00 20 14.00
 -2000. 255.00 20 15.00
 -2000. 256.00 20 16.00
 -2000. 257.00 20 17.00
 -2000. 258.00 20 18.00
 -2000. 259.00 20 19.00
 -2000. 260.00 20 20.00
 -2000. 261.00 20 21.00
 -2000. 262.00 20 22.00
 -2000. 263.00 20 23.00
 -2000. 264.00 20 24.00

DISTRIBUTED LOCAL INFLOW NO. 1 THIS LOCAL INFLOW OCCURS IN 60 REACHES: 1 THRU 60, 56.70 MILES

DISCHARGE HOURS DAY TIME

533. 0.00 10 0.00
 533. 2.00 10 2.00
 533. 4.00 10 4.00
 533. 6.00 10 6.00
 533. 8.00 10 8.00
 533. 10.00 10 10.00

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 15 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

533. 12.00 10 12.00
 533. 14.00 10 14.00
 533. 16.00 10 16.00
 533. 18.00 10 18.00
 533. 20.00 10 20.00
 533. 22.00 10 22.00
 533. 24.00 10 24.00
 533. 26.00 11 2.00
 533. 28.00 11 4.00
 533. 30.00 11 6.00
 533. 32.00 11 8.00
 533. 34.00 11 10.00
 533. 36.00 11 12.00
 533. 38.00 11 14.00
 533. 40.00 11 16.00
 533. 42.00 11 18.00
 533. 44.00 11 20.00
 533. 46.00 11 22.00
 533. 48.00 11 24.00
 533. 50.00 12 2.00
 533. 52.00 12 4.00
 533. 54.00 12 6.00
 533. 56.00 12 8.00
 533. 58.00 12 10.00
 533. 60.00 12 12.00
 533. 62.00 12 14.00
 533. 64.00 12 16.00
 533. 66.00 12 18.00
 533. 68.00 12 20.00
 533. 70.00 12 22.00
 533. 72.00 12 24.00
 533. 74.00 13 2.00
 533. 76.00 13 4.00
 533. 78.00 13 6.00
 533. 80.00 13 8.00
 533. 82.00 13 10.00
 533. 84.00 13 12.00
 533. 86.00 13 14.00
 533. 88.00 13 16.00
 533. 90.00 13 18.00
 533. 92.00 13 20.00
 533. 94.00 13 22.00
 533. 96.00 13 24.00
 561. 98.00 14 2.00
 589. 100.00 14 4.00
 617. 102.00 14 6.00
 644. 104.00 14 8.00
 672. 106.00 14 10.00
 700. 108.00 14 12.00
 728. 110.00 14 14.00
 756. 112.00 14 16.00

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 16 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

784. 114.00 14 18.00
812. 116.00 14 20.00
839. 118.00 14 22.00
867. 120.00 14 24.00
895. 122.00 15 2.00
923. 124.00 15 4.00
2016. 126.00 15 6.00
7843. 128.00 15 8.00
8126. 130.00 15 10.00
7833. 132.00 15 12.00
7533. 134.00 15 14.00
7501. 136.00 15 16.00
7855. 138.00 15 18.00
9225. 140.00 15 20.00
12604. 142.00 15 22.00
16818. 144.00 15 24.00
19976. 146.00 16 2.00
23968. 148.00 16 4.00
30914. 150.00 16 6.00
33656. 152.00 16 8.00
32679. 154.00 16 10.00
31937. 156.00 16 12.00
38647. 158.00 16 14.00
43533. 160.00 16 16.00
40412. 162.00 16 18.00
37551. 164.00 16 20.00
35080. 166.00 16 22.00
31841. 168.00 16 24.00
28603. 170.00 17 2.00
25344. 172.00 17 4.00
22398. 174.00 17 6.00
20135. 176.00 17 8.00
18179. 178.00 17 10.00
16009. 180.00 17 12.00
13961. 182.00 17 14.00
12529. 184.00 17 16.00
11409. 186.00 17 18.00
10373. 188.00 17 20.00
9545. 190.00 17 22.00
8801. 192.00 17 24.00
8015. 194.00 18 2.00
7249. 196.00 18 4.00
6605. 198.00 18 6.00
6129. 200.00 18 8.00
5715. 202.00 18 10.00
5235. 204.00 18 12.00
4773. 206.00 18 14.00
4478. 208.00 18 16.00
4275. 210.00 18 18.00
4090. 212.00 18 20.00
3948. 214.00 18 22.00

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 17 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

3822. 216.00 18 24.00
 3686. 218.00 19 2.00
 3539. 220.00 19 4.00
 3394. 222.00 19 6.00
 3247. 224.00 19 8.00
 3101. 226.00 19 10.00
 2955. 228.00 19 12.00
 2814. 230.00 19 14.00
 2688. 232.00 19 16.00
 2580. 234.00 19 18.00
 2480. 236.00 19 20.00
 2397. 238.00 19 22.00
 2349. 240.00 19 24.00
 2302. 242.00 20 2.00
 2244. 244.00 20 4.00
 2192. 246.00 20 6.00
 2191. 248.00 20 8.00
 2207. 250.00 20 10.00
 2202. 252.00 20 12.00
 2201. 254.00 20 14.00
 2204. 256.00 20 16.00
 2204. 258.00 20 18.00
 2204. 260.00 20 20.00
 2204. 262.00 20 22.00
 2204. 264.00 20 24.00

DISTRIBUTED LOCAL INFLOW NO. 2 THIS LOCAL INFLOW OCCURS IN 49 REACHES: 12 THRU 60, 44.90 MILES

DISCHARGE HOURS DAY TIME

0. 0.00 10 0.00
 0. 2.00 10 2.00
 0. 4.00 10 4.00
 0. 6.00 10 6.00
 0. 8.00 10 8.00
 0. 10.00 10 10.00
 0. 12.00 10 12.00
 0. 14.00 10 14.00
 0. 16.00 10 16.00
 0. 18.00 10 18.00
 0. 20.00 10 20.00
 0. 22.00 10 22.00
 0. 24.00 10 24.00
 0. 26.00 11 2.00
 0. 28.00 11 4.00
 0. 30.00 11 6.00
 0. 32.00 11 8.00
 0. 34.00 11 10.00
 0. 36.00 11 12.00
 0. 38.00 11 14.00

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 18 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

0. 40.00 11 16.00
 0. 42.00 11 18.00
 0. 44.00 11 20.00
 0. 46.00 11 22.00
 0. 48.00 11 24.00
 0. 50.00 12 2.00
 0. 52.00 12 4.00
 0. 54.00 12 6.00
 0. 56.00 12 8.00
 0. 58.00 12 10.00
 0. 60.00 12 12.00
 0. 62.00 12 14.00
 0. 64.00 12 16.00
 0. 66.00 12 18.00
 0. 68.00 12 20.00
 0. 70.00 12 22.00
 0. 72.00 12 24.00
 0. 74.00 13 2.00
 0. 76.00 13 4.00
 0. 78.00 13 6.00
 0. 80.00 13 8.00
 0. 82.00 13 10.00
 0. 84.00 13 12.00
 0. 86.00 13 14.00
 0. 88.00 13 16.00
 0. 90.00 13 18.00
 0. 92.00 13 20.00
 0. 94.00 13 22.00
 0. 96.00 13 24.00
 0. 98.00 14 2.00
 0. 100.00 14 4.00
 0. 102.00 14 6.00
 0. 104.00 14 8.00
 0. 106.00 14 10.00
 0. 108.00 14 12.00
 0. 110.00 14 14.00
 0. 112.00 14 16.00
 0. 114.00 14 18.00
 0. 116.00 14 20.00
 0. 118.00 14 22.00
 0. 120.00 14 24.00
 0. 122.00 15 2.00
 0. 124.00 15 4.00
 959. 126.00 15 6.00
 959. 128.00 15 8.00
 226. 130.00 15 10.00
 28. 132.00 15 12.00
 28. 134.00 15 14.00
 0. 136.00 15 16.00
 113. 138.00 15 18.00
 113. 140.00 15 20.00

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 19 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

395. 142.00 15 22.00
 479. 144.00 15 24.00
 141. 146.00 16 2.00
 226. 148.00 16 4.00
 367. 150.00 16 6.00
 197. 152.00 16 8.00
 28. 154.00 16 10.00
 28. 156.00 16 12.00
 56. 158.00 16 14.00
 85. 160.00 16 16.00
 0. 162.00 16 18.00
 28. 164.00 16 20.00
 0. 166.00 16 22.00
 0. 168.00 16 24.00
 0. 170.00 17 2.00
 0. 172.00 17 4.00
 0. 174.00 17 6.00
 0. 176.00 17 8.00
 0. 178.00 17 10.00
 0. 180.00 17 12.00
 0. 182.00 17 14.00
 0. 184.00 17 16.00
 0. 186.00 17 18.00
 0. 188.00 17 20.00
 0. 190.00 17 22.00
 0. 192.00 17 24.00
 0. 194.00 18 2.00
 0. 196.00 18 4.00
 0. 198.00 18 6.00
 0. 200.00 18 8.00
 0. 202.00 18 10.00
 0. 204.00 18 12.00
 0. 206.00 18 14.00
 0. 208.00 18 16.00
 0. 210.00 18 18.00
 0. 212.00 18 20.00
 0. 214.00 18 22.00
 0. 216.00 18 24.00
 0. 218.00 19 2.00
 0. 220.00 19 4.00
 0. 222.00 19 6.00
 0. 224.00 19 8.00
 0. 226.00 19 10.00
 0. 228.00 19 12.00
 0. 230.00 19 14.00
 0. 232.00 19 16.00
 0. 234.00 19 18.00
 0. 236.00 19 20.00
 0. 238.00 19 22.00
 0. 240.00 19 24.00
 0. 242.00 20 2.00

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 20 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

0. 244.00 20 4.00
 0. 246.00 20 6.00
 0. 248.00 20 8.00
 0. 250.00 20 10.00
 0. 252.00 20 12.00
 0. 254.00 20 14.00
 0. 256.00 20 16.00
 0. 258.00 20 18.00
 0. 260.00 20 20.00
 0. 262.00 20 22.00
 0. 264.00 20 24.00

OTHRD LINE LOCAL INFLOWS

9.87 9.87 9.87 9.87 9.87 9.87 9.87 9.87
 9.87 9.87 9.87 9.87 9.87 9.87 9.87 9.87
 9.87 9.87 9.87 -1990.13 8.46 8.46 9.40 9.40
 8.93 8.93 9.87 9.87 12.69 12.69 9.87 9.87
 9.87 9.87 1.88 1.88 7.99 7.99 13.63 13.63
 9.87 9.87 4.70 4.70 6.58 6.58 4.70 4.70
 9.87 9.87 6.58 6.58 5.17 5.17 7.99 7.99
 9.87 9.87 9.87 9.87

THE INITIAL CONDITIONS ARE:

+ _____

ODATE 3-10-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)
MILE 79.80	822.92	2000.	2.43	823.	279.	2.32
MILE 77.70	816.02	2020.	2.61	773.	155.	2.22
MILE 75.60	809.69	2039.	2.80	730.	132.	2.03
MILE 73.50	806.27	2059.	2.14	963.	132.	2.50
MILE 71.40	804.75	2079.	1.71	1219.	209.	2.21
MILE 69.30	801.88	2099.	2.24	939.	245.	1.94
MILE 67.20	796.68	2118.	2.56	828.	236.	2.08
MILE 65.10	794.33	2138.	1.02	2105.	328.	3.13
MILE 63.00	794.14	2158.	0.62	3479.	342.	4.63
MILE 60.90	794.03	2178.	0.47	4616.	356.	5.72
MILE 58.80	794.00	197.	0.03	5742.	354.	6.14
MILE 57.00	794.00	214.	0.03	6366.	396.	6.02
MILE 55.00	794.00	233.	0.04	6476.	458.	6.50
MILE 53.10	794.00	251.	0.03	8918.	565.	5.99
MILE 51.00	794.00	271.	0.03	9637.	918.	6.11
MILE 48.30	794.00	296.	0.02	13003.	1621.	4.91
MILE 46.20	794.00	316.	0.02	15542.	1814.	6.73
MILE 44.10	794.00	336.	0.01	27609.	1506.	8.04
MILE 43.70	794.00	339.	0.02	14298.	1363.	8.23
MILE 42.00	794.00	355.	0.02	18727.	1330.	6.16

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 21 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE	39.10	794.00	383.	0.02	18080.	1353.	7.86
MILE	37.00	794.00	402.	0.01	31817.	1120.	7.26
MILE	36.00	794.00	412.	0.02	19708.	901.	8.34
MILE	34.60	794.00	425.	0.01	29986.	1226.	9.63
MILE	33.60	794.00	434.	0.01	61919.	2141.	8.11
MILE	31.50	794.00	454.	0.01	30458.	1757.	10.37
MILE	30.10	794.00	467.	0.01	32069.	883.	9.91
MILE	29.00	794.00	478.	0.01	35754.	1054.	10.78
MILE	27.30	794.00	494.	0.01	37104.	1054.	11.17
MILE	25.20	794.00	513.	0.01	45971.	1052.	12.00
MILE	23.10	794.00	533.	0.01	37830.	1083.	11.43

TIME 0.0014 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3)

MILE	78.75	818.40	2010.	3.66	550.	195.	1.83
MILE	76.65	812.85	2030.	2.67	761.	143.	2.16
MILE	74.55	807.63	2049.	2.20	931.	133.	2.28
MILE	72.45	805.49	2069.	1.82	1138.	171.	2.33
MILE	70.35	803.55	2089.	1.70	1229.	236.	2.28
MILE	68.25	799.53	2109.	2.18	966.	251.	2.12
MILE	66.15	794.94	2128.	1.69	1262.	266.	2.41
MILE	64.05	794.20	2148.	0.75	2860.	369.	4.02
MILE	61.95	794.08	2168.	0.53	4078.	379.	5.12
MILE	59.85	794.00	2188.	0.42	5160.	376.	6.06
MILE	57.90	794.00	206.	0.03	6053.	375.	6.08
MILE	56.00	794.00	224.	0.03	6420.	427.	6.26
MILE	54.05	794.00	242.	0.03	7696.	512.	6.25
MILE	52.05	794.00	261.	0.03	9435.	747.	6.17
MILE	49.65	794.00	283.	0.02	11341.	1269.	5.53
MILE	47.25	794.00	306.	0.02	14762.	1766.	5.82
MILE	45.15	794.00	326.	0.02	21251.	1723.	7.43
MILE	43.90	794.00	337.	0.02	21888.	1436.	8.51
MILE	42.85	794.00	347.	0.02	16522.	1347.	7.19
MILE	40.55	794.00	369.	0.02	18416.	1341.	7.01
MILE	38.05	794.00	392.	0.02	24934.	1236.	7.56
MILE	36.50	794.00	407.	0.02	26818.	1012.	7.98
MILE	35.30	794.00	418.	0.02	24847.	1064.	8.99
MILE	34.10	794.00	430.	0.01	43910.	1635.	8.84
MILE	32.55	794.00	444.	0.01	48436.	1949.	9.33
MILE	30.80	794.00	461.	0.01	31498.	1269.	10.19
MILE	29.55	794.00	472.	0.01	34019.	948.	10.36
MILE	28.15	794.00	486.	0.01	36429.	1054.	10.98
MILE	26.25	794.00	503.	0.01	41425.	1039.	11.62
MILE	24.15	794.00	523.	0.01	41901.	1068.	11.71

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 22 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

TIME 1.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	823.64	2000.	1.97	1016.	293.	2.54	0.0290	20.	5.	0.19
MILE 77.70	816.60	1850.	2.02	914.	173.	2.39	0.0400	20.	6.	0.16
MILE 75.60	810.23	1634.	1.88	870.	149.	2.25	0.0400	20.	4.	0.14
MILE 73.50	806.07	1361.	1.49	915.	128.	2.43	0.0330	20.	7.	0.10
MILE 71.40	804.45	1291.	1.16	1116.	200.	2.14	0.0400	20.	7.	0.09
MILE 69.30	801.83	1478.	1.61	919.	244.	1.92	0.0340	20.	3.	0.15
MILE 67.20	796.98	1811.	1.92	941.	250.	2.15	0.0340	20.	6.	0.17
MILE 65.10	794.13	1875.	0.92	2029.	321.	3.06	0.0320	20.	7.	0.06
MILE 63.00	794.03	1955.	0.57	3444.	340.	4.61	0.0400	20.	13.	0.03
MILE 60.90	793.97	2021.	0.44	4595.	355.	5.71	0.0450	20.	17.	0.02
MILE 58.80	793.95	100.	0.02	5724.	353.	6.13	0.0400	-1982.	21.	0.00
MILE 57.00	793.96	173.	0.03	6349.	396.	6.01	0.0200	18.	19.	0.00
MILE 55.00	793.98	256.	0.04	6467.	458.	6.50	0.0200	18.	20.	0.00
MILE 53.10	793.99	287.	0.03	8912.	564.	5.99	0.0200	19.	21.	0.00
MILE 51.00	794.00	335.	0.03	9634.	917.	6.11	0.0200	23.	25.	0.00
MILE 48.30	794.00	354.	0.03	13001.	1621.	4.91	0.0200	23.	25.	0.00
MILE 46.20	794.00	340.	0.02	15541.	1814.	6.73	0.0200	20.	32.	0.00
MILE 44.10	794.00	345.	0.01	27609.	1506.	8.04	0.0300	12.	39.	0.00
MILE 43.70	794.00	347.	0.02	14298.	1363.	8.23	0.0300	10.	41.	0.00
MILE 42.00	794.00	360.	0.02	18727.	1330.	6.16	0.0300	22.	44.	0.00
MILE 39.10	794.00	388.	0.02	18080.	1353.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.00	407.	0.01	31817.	1120.	7.26	0.0280	15.	43.	0.00
MILE 36.00	794.00	417.	0.02	19708.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.00	430.	0.01	29986.	1226.	9.63	0.0280	11.	46.	0.00
MILE 33.60	794.00	439.	0.01	61919.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	459.	0.02	30458.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	472.	0.01	32069.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	483.	0.01	35754.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	499.	0.01	37104.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	519.	0.01	45971.	1052.	12.00	0.0230	20.	60.	0.00
MILE 23.10	794.00	539.	0.01	37830.	1083.	11.43	0.0230	20.	64.	0.00

0DATE 3-10-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 2.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	823.39	2000.	2.11	949.	289.	2.47	0.0290	20.	5.	0.20
MILE 77.70	816.94	2041.	2.04	1000.	183.	2.48	0.0400	20.	6.	0.15
MILE 75.60	810.68	1955.	1.98	987.	160.	2.44	0.0400	20.	4.	0.14
MILE 73.50	806.43	1728.	1.72	1003.	135.	2.56	0.0330	20.	7.	0.11
MILE 71.40	804.72	1568.	1.30	1207.	208.	2.20	0.0400	20.	7.	0.10
MILE 69.30	801.99	1646.	1.68	981.	249.	1.99	0.0340	20.	3.	0.15
MILE 67.20	796.89	1694.	1.87	907.	246.	2.13	0.0340	20.	6.	0.17
MILE 65.10	794.11	1781.	0.88	2020.	320.	3.05	0.0320	20.	7.	0.06

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 23 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE	63.00	794.03	1828.	0.53	3442.	340.	4.61	0.0400	20.	13.	0.03
MILE	60.90	793.98	1843.	0.40	4598.	355.	5.71	0.0450	20.	17.	0.02
MILE	58.80	793.96	-141.	-0.02	5729.	353.	6.13	0.0400	-1982.	21.	0.00
MILE	57.00	793.97	-121.	-0.02	6351.	396.	6.01	0.0200	18.	19.	0.00
MILE	55.00	793.97	-123.	-0.02	6464.	458.	6.50	0.0200	18.	20.	0.00
MILE	53.10	793.97	-119.	-0.01	8902.	564.	5.99	0.0200	19.	21.	0.00
MILE	51.00	793.98	-79.	-0.01	9624.	917.	6.11	0.0200	23.	25.	0.00
MILE	48.30	793.97	-48.	0.00	12973.	1619.	4.91	0.0200	23.	25.	0.00
MILE	46.20	793.97	117.	0.01	15519.	1812.	6.73	0.0200	20.	32.	0.00
MILE	44.10	793.98	266.	0.01	27585.	1505.	8.04	0.0300	12.	39.	0.00
MILE	43.70	793.98	288.	0.02	14288.	1362.	8.23	0.0300	10.	41.	0.00
MILE	42.00	793.99	361.	0.02	18712.	1329.	6.16	0.0300	22.	44.	0.00
MILE	39.10	793.99	451.	0.02	18076.	1352.	7.86	0.0230	24.	43.	0.00
MILE	37.00	794.00	479.	0.02	31811.	1119.	7.26	0.0280	15.	43.	0.00
MILE	36.00	794.00	489.	0.02	19706.	901.	8.34	0.0280	11.	45.	0.00
MILE	34.60	794.00	496.	0.02	29984.	1226.	9.63	0.0280	11.	45.	0.00
MILE	33.60	794.00	496.	0.01	61915.	2141.	8.11	0.0290	15.	51.	0.00
MILE	31.50	794.00	491.	0.02	30457.	1757.	10.37	0.0250	16.	55.	0.00
MILE	30.10	794.00	495.	0.02	32068.	883.	9.91	0.0200	12.	53.	0.00
MILE	29.00	794.00	501.	0.01	35754.	1054.	10.78	0.0200	13.	54.	0.00
MILE	27.30	794.00	511.	0.01	37103.	1054.	11.17	0.0230	18.	57.	0.00
MILE	25.20	794.00	526.	0.01	45971.	1052.	12.00	0.0230	20.	59.	0.00
MILE	23.10	794.00	542.	0.01	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-10-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 3.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	823.39	2000.	2.11	947.	288.	2.46	0.0290	20.	5.	0.21
MILE	77.70	816.92	2020.	2.03	997.	182.	2.48	0.0400	20.	6.	0.15
MILE	75.60	810.86	2068.	2.00	1036.	165.	2.51	0.0400	20.	4.	0.14
MILE	73.50	806.89	2064.	1.85	1117.	145.	2.72	0.0330	20.	8.	0.12
MILE	71.40	805.25	2018.	1.43	1406.	222.	2.37	0.0400	20.	7.	0.10
MILE	69.30	802.19	1856.	1.74	1064.	255.	2.08	0.0340	20.	3.	0.15
MILE	67.20	796.88	1711.	1.90	902.	245.	2.12	0.0340	20.	6.	0.17
MILE	65.10	794.13	1707.	0.84	2028.	321.	3.06	0.0320	20.	7.	0.06
MILE	63.00	794.05	1713.	0.50	3449.	340.	4.61	0.0400	20.	13.	0.03
MILE	60.90	794.00	1726.	0.37	4603.	355.	5.71	0.0450	20.	17.	0.02
MILE	58.80	793.98	-273.	-0.05	5734.	354.	6.13	0.0400	-1982.	21.	0.00
MILE	57.00	793.98	-259.	-0.04	6357.	396.	6.01	0.0200	18.	19.	0.00
MILE	55.00	793.98	-230.	-0.04	6467.	458.	6.50	0.0200	18.	20.	0.00
MILE	53.10	793.97	-207.	-0.02	8902.	564.	5.99	0.0200	19.	21.	0.00
MILE	51.00	793.97	-185.	-0.02	9623.	917.	6.11	0.0200	23.	25.	0.00
MILE	48.30	793.97	-133.	-0.01	12975.	1619.	4.91	0.0200	23.	25.	0.00
MILE	46.20	793.98	-124.	-0.01	15520.	1813.	6.73	0.0200	20.	32.	0.00
MILE	44.10	793.98	-76.	0.00	27581.	1505.	8.04	0.0300	12.	39.	0.00
MILE	43.70	793.98	-69.	0.00	14286.	1362.	8.23	0.0300	10.	41.	0.00

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 24 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 42.00	793.98	-54.	0.00	18699.	1329.	6.16	0.0300	22.	44.	0.00
MILE 39.10	793.98	-79.	0.00	18064.	1352.	7.85	0.0230	24.	43.	0.00
MILE 37.00	793.98	-69.	0.00	31784.	1119.	7.26	0.0280	15.	43.	0.00
MILE 36.00	793.98	-56.	0.00	19691.	900.	8.34	0.0280	11.	45.	0.00
MILE 34.60	793.98	-27.	0.00	29964.	1225.	9.63	0.0280	11.	45.	0.00
MILE 33.60	793.98	8.	0.00	61859.	2140.	8.10	0.0290	15.	51.	0.00
MILE 31.50	793.98	99.	0.00	30438.	1756.	10.37	0.0250	16.	55.	0.00
MILE 30.10	793.98	134.	0.00	32049.	882.	9.90	0.0200	12.	53.	0.00
MILE 29.00	793.98	150.	0.00	35738.	1053.	10.78	0.0200	13.	54.	0.00
MILE 27.30	793.99	163.	0.00	37092.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	793.99	151.	0.00	45964.	1052.	12.00	0.0230	20.	59.	0.00
MILE 23.10	794.00	108.	0.00	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-10-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 4.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	823.28	2000.	2.18	917.	286.	2.43	0.0290	20.	5.	0.21
MILE 77.70	816.97	2067.	2.05	1009.	184.	2.49	0.0400	20.	6.	0.15
MILE 75.60	810.96	2147.	2.02	1063.	167.	2.55	0.0400	20.	4.	0.14
MILE 73.50	807.15	2208.	1.87	1182.	150.	2.81	0.0330	20.	8.	0.12
MILE 71.40	805.54	2212.	1.46	1520.	227.	2.48	0.0400	20.	8.	0.10
MILE 69.30	802.40	2090.	1.82	1150.	262.	2.16	0.0340	20.	4.	0.15
MILE 67.20	797.09	1941.	1.97	984.	255.	2.17	0.0340	20.	6.	0.18
MILE 65.10	794.15	1844.	0.91	2037.	322.	3.07	0.0320	20.	7.	0.06
MILE 63.00	794.06	1808.	0.52	3453.	341.	4.61	0.0400	20.	13.	0.03
MILE 60.90	794.01	1793.	0.39	4606.	355.	5.71	0.0450	20.	17.	0.02
MILE 58.80	793.99	-203.	-0.04	5737.	354.	6.13	0.0400	-1982.	21.	0.00
MILE 57.00	793.99	-209.	-0.03	6360.	396.	6.01	0.0200	18.	19.	0.00
MILE 55.00	793.99	-212.	-0.03	6471.	458.	6.50	0.0200	18.	20.	0.00
MILE 53.10	793.99	-212.	-0.02	8909.	564.	5.99	0.0200	19.	21.	0.00
MILE 51.00	793.99	-227.	-0.02	9629.	917.	6.11	0.0200	23.	25.	0.00
MILE 48.30	793.99	-287.	-0.02	12986.	1620.	4.91	0.0200	23.	25.	0.00
MILE 46.20	793.98	-327.	-0.02	15528.	1813.	6.73	0.0200	20.	32.	0.00
MILE 44.10	793.99	-417.	-0.02	27594.	1506.	8.04	0.0300	12.	39.	0.00
MILE 43.70	793.99	-435.	-0.03	14292.	1362.	8.23	0.0300	10.	41.	0.00
MILE 42.00	793.99	-529.	-0.03	18718.	1330.	6.16	0.0300	22.	44.	0.00
MILE 39.10	794.00	-738.	-0.04	18081.	1353.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.00	-843.	-0.03	31823.	1120.	7.26	0.0280	15.	43.	0.00
MILE 36.00	794.00	-869.	-0.04	19712.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.00	-878.	-0.03	29990.	1226.	9.63	0.0280	11.	46.	0.00
MILE 33.60	794.00	-875.	-0.01	61930.	2142.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	-846.	-0.03	30460.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	-834.	-0.03	32070.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	-828.	-0.02	35754.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	-827.	-0.02	37103.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	-833.	-0.02	45970.	1052.	12.00	0.0230	20.	59.	0.00

TVA

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 23.10 794.00 -837. -0.02 37830. 1083. 11.43 0.0230 20. 64. 0.00

ODATE 3-10-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 5.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	823.05	2000.	2.34	856.	282.	2.36	0.0290	20.	4.	0.24
MILE 77.70	817.00	2092.	2.06	1017.	185.	2.50	0.0400	20.	6.	0.15
MILE 75.60	811.00	2172.	2.02	1073.	169.	2.57	0.0400	20.	5.	0.14
MILE 73.50	807.23	2225.	1.85	1201.	151.	2.84	0.0330	20.	8.	0.12
MILE 71.40	805.63	2251.	1.45	1554.	229.	2.52	0.0400	20.	8.	0.10
MILE 69.30	802.54	2241.	1.86	1208.	267.	2.21	0.0340	20.	4.	0.15
MILE 67.20	797.35	2201.	2.02	1088.	267.	2.23	0.0340	20.	7.	0.18
MILE 65.10	794.21	2086.	1.01	2060.	324.	3.09	0.0320	20.	7.	0.07
MILE 63.00	794.10	2018.	0.58	3467.	341.	4.62	0.0400	20.	13.	0.03
MILE 60.90	794.03	1970.	0.43	4616.	356.	5.72	0.0450	20.	18.	0.02
MILE 58.80	794.01	-60.	-0.01	5745.	354.	6.14	0.0400	-1982.	21.	0.00
MILE 57.00	794.01	-93.	-0.01	6370.	396.	6.02	0.0200	18.	19.	0.00
MILE 55.00	794.01	-160.	-0.02	6481.	459.	6.51	0.0200	18.	21.	0.00
MILE 53.10	794.02	-235.	-0.03	8929.	565.	6.00	0.0200	19.	21.	0.00
MILE 51.00	794.02	-394.	-0.04	9648.	918.	6.12	0.0200	23.	25.	0.00
MILE 48.30	794.02	-636.	-0.05	13026.	1622.	4.91	0.0200	23.	25.	0.00
MILE 46.20	794.02	-698.	-0.04	15556.	1815.	6.73	0.0200	20.	32.	0.00
MILE 44.10	794.01	-727.	-0.03	27625.	1507.	8.04	0.0300	12.	39.	0.00
MILE 43.70	794.01	-734.	-0.05	14305.	1364.	8.23	0.0300	10.	41.	0.00
MILE 42.00	794.01	-778.	-0.04	18740.	1331.	6.16	0.0300	22.	44.	0.00
MILE 39.10	794.01	-846.	-0.05	18088.	1353.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.01	-784.	-0.02	31828.	1120.	7.26	0.0280	15.	43.	0.00
MILE 36.00	794.01	-755.	-0.04	19712.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.00	-716.	-0.02	29989.	1226.	9.63	0.0280	11.	46.	0.00
MILE 33.60	794.00	-686.	-0.01	61926.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	-629.	-0.02	30460.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	-613.	-0.02	32071.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	-603.	-0.02	35757.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	-587.	-0.02	37106.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	-561.	-0.01	45972.	1052.	12.00	0.0230	20.	60.	0.00
MILE 23.10	794.00	-524.	-0.01	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-10-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 6.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80 822.90 2000. 2.45 817. 279. 2.31 0.0290 20. 4. 0.25

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 77.70	816.96	2064.	2.05	1006.	184.	2.49	0.0400	20.	6.	0.15
MILE 75.60	810.96	2132.	2.01	1062.	167.	2.55	0.0400	20.	4.	0.14
MILE 73.50	807.23	2204.	1.83	1202.	152.	2.84	0.0330	20.	8.	0.11
MILE 71.40	805.66	2263.	1.45	1565.	229.	2.53	0.0400	20.	8.	0.10
MILE 69.30	802.61	2315.	1.87	1239.	269.	2.24	0.0340	20.	4.	0.15
MILE 67.20	797.49	2325.	2.03	1147.	274.	2.26	0.0340	20.	7.	0.17
MILE 65.10	794.29	2250.	1.08	2089.	327.	3.11	0.0320	20.	7.	0.08
MILE 63.00	794.18	2147.	0.61	3492.	342.	4.64	0.0400	20.	13.	0.03
MILE 60.90	794.10	2098.	0.45	4637.	356.	5.74	0.0450	20.	18.	0.02
MILE 58.80	794.06	122.	0.02	5765.	355.	6.14	0.0400	-1982.	21.	0.00
MILE 57.00	794.06	126.	0.02	6390.	397.	6.03	0.0200	18.	19.	0.00
MILE 55.00	794.05	134.	0.02	6495.	459.	6.51	0.0200	18.	21.	0.00
MILE 53.10	794.04	128.	0.01	8945.	565.	6.00	0.0200	19.	21.	0.00
MILE 51.00	794.04	96.	0.01	9657.	919.	6.12	0.0200	23.	25.	0.00
MILE 48.30	794.03	117.	0.01	13037.	1622.	4.91	0.0200	23.	25.	0.00
MILE 46.20	794.03	101.	0.01	15565.	1816.	6.74	0.0200	20.	32.	0.00
MILE 44.10	794.02	61.	0.00	27638.	1508.	8.04	0.0300	12.	39.	0.00
MILE 43.70	794.02	57.	0.00	14311.	1364.	8.23	0.0300	10.	41.	0.00
MILE 42.00	794.02	46.	0.00	18752.	1331.	6.16	0.0300	22.	44.	0.00
MILE 39.10	794.01	10.	0.00	18092.	1353.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.01	-94.	0.00	31837.	1120.	7.27	0.0280	15.	43.	0.00
MILE 36.00	794.01	-128.	-0.01	19718.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.01	-162.	-0.01	29997.	1227.	9.63	0.0280	11.	46.	0.00
MILE 33.60	794.01	-187.	0.00	61946.	2142.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.01	-225.	-0.01	30465.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.01	-221.	-0.01	32075.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	-214.	-0.01	35758.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	-203.	-0.01	37106.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	-196.	0.00	45972.	1052.	12.00	0.0230	20.	60.	0.00
MILE 23.10	794.00	-198.	-0.01	37830.	1083.	11.43	0.0230	20.	64.	0.00

0DATE 3-10-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 7.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.84	2000.	2.49	803.	277.	2.29	0.0290	20.	4.	0.26
MILE 77.70	816.92	2041.	2.05	996.	182.	2.48	0.0400	20.	6.	0.15
MILE 75.60	810.91	2096.	2.00	1049.	166.	2.53	0.0400	20.	4.	0.14
MILE 73.50	807.22	2173.	1.81	1198.	151.	2.83	0.0330	20.	8.	0.11
MILE 71.40	805.65	2248.	1.44	1564.	229.	2.53	0.0400	20.	8.	0.10
MILE 69.30	802.62	2314.	1.86	1244.	270.	2.25	0.0340	20.	4.	0.15
MILE 67.20	797.52	2344.	2.02	1161.	276.	2.27	0.0340	20.	7.	0.17
MILE 65.10	794.32	2349.	1.12	2102.	328.	3.12	0.0320	20.	7.	0.08
MILE 63.00	794.18	2386.	0.68	3495.	342.	4.64	0.0400	20.	13.	0.04
MILE 60.90	794.09	2459.	0.53	4633.	356.	5.73	0.0450	20.	18.	0.03
MILE 58.80	794.05	545.	0.09	5759.	354.	6.14	0.0400	-1982.	21.	0.00
MILE 57.00	794.04	596.	0.09	6385.	397.	6.03	0.0200	18.	19.	0.00

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE	55.00	794.04	635.	0.10	6492.	459.	6.51	0.0200	18.	21.	0.00
MILE	53.10	794.04	684.	0.08	8943.	565.	6.00	0.0200	19.	21.	0.00
MILE	51.00	794.04	723.	0.07	9656.	919.	6.12	0.0200	23.	25.	0.00
MILE	48.30	794.03	749.	0.06	13042.	1623.	4.91	0.0200	23.	25.	0.00
MILE	46.20	794.03	732.	0.05	15571.	1816.	6.74	0.0200	20.	32.	0.00
MILE	44.10	794.03	754.	0.03	27646.	1508.	8.05	0.0300	12.	39.	0.00
MILE	43.70	794.03	756.	0.05	14314.	1364.	8.23	0.0300	10.	41.	0.00
MILE	42.00	794.03	753.	0.04	18759.	1331.	6.16	0.0300	22.	44.	0.00
MILE	39.10	794.02	731.	0.04	18097.	1354.	7.86	0.0230	24.	43.	0.00
MILE	37.00	794.02	795.	0.02	31845.	1120.	7.27	0.0280	15.	43.	0.00
MILE	36.00	794.02	822.	0.04	19721.	901.	8.34	0.0280	11.	45.	0.00
MILE	34.60	794.01	855.	0.03	29999.	1227.	9.63	0.0280	11.	46.	0.00
MILE	33.60	794.01	877.	0.01	61951.	2142.	8.11	0.0290	15.	51.	0.00
MILE	31.50	794.01	909.	0.03	30467.	1757.	10.37	0.0250	16.	55.	0.00
MILE	30.10	794.01	914.	0.03	32078.	883.	9.91	0.0200	12.	53.	0.00
MILE	29.00	794.01	917.	0.03	35762.	1054.	10.78	0.0200	13.	54.	0.00
MILE	27.30	794.01	920.	0.02	37110.	1054.	11.17	0.0230	18.	57.	0.00
MILE	25.20	794.00	932.	0.02	45974.	1052.	12.00	0.0230	20.	60.	0.00
MILE	23.10	794.00	952.	0.03	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-10-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 8.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	822.79	2000.	2.54	789.	276.	2.27	0.0290	20.	4.	0.26
MILE	77.70	816.91	2040.	2.05	994.	182.	2.47	0.0400	20.	6.	0.15
MILE	75.60	810.89	2087.	2.00	1043.	166.	2.52	0.0400	20.	4.	0.14
MILE	73.50	807.19	2147.	1.80	1192.	151.	2.82	0.0330	20.	8.	0.11
MILE	71.40	805.63	2210.	1.42	1553.	229.	2.52	0.0400	20.	8.	0.10
MILE	69.30	802.60	2272.	1.84	1232.	269.	2.24	0.0340	20.	4.	0.15
MILE	67.20	797.50	2322.	2.01	1154.	275.	2.26	0.0340	20.	7.	0.17
MILE	65.10	794.28	2369.	1.13	2087.	326.	3.11	0.0320	20.	7.	0.08
MILE	63.00	794.15	2427.	0.70	3482.	342.	4.63	0.0400	20.	13.	0.04
MILE	60.90	794.05	2473.	0.53	4622.	356.	5.73	0.0450	20.	18.	0.03
MILE	58.80	794.02	518.	0.09	5749.	354.	6.14	0.0400	-1982.	21.	0.00
MILE	57.00	794.02	561.	0.09	6375.	396.	6.02	0.0200	18.	19.	0.00
MILE	55.00	794.02	625.	0.10	6483.	459.	6.51	0.0200	18.	21.	0.00
MILE	53.10	794.02	693.	0.08	8930.	565.	6.00	0.0200	19.	21.	0.00
MILE	51.00	794.02	765.	0.08	9646.	918.	6.12	0.0200	23.	25.	0.00
MILE	48.30	794.02	952.	0.07	13024.	1622.	4.91	0.0200	23.	25.	0.00
MILE	46.20	794.02	1204.	0.08	15557.	1815.	6.73	0.0200	20.	32.	0.00
MILE	44.10	794.02	1331.	0.05	27629.	1507.	8.04	0.0300	12.	39.	0.00
MILE	43.70	794.02	1352.	0.09	14307.	1364.	8.23	0.0300	10.	41.	0.01
MILE	42.00	794.02	1439.	0.08	18745.	1331.	6.16	0.0300	22.	44.	0.00
MILE	39.10	794.01	1625.	0.09	18088.	1353.	7.86	0.0230	24.	43.	0.00
MILE	37.00	794.01	1681.	0.05	31831.	1120.	7.27	0.0280	15.	43.	0.00
MILE	36.00	794.01	1697.	0.09	19715.	901.	8.34	0.0280	11.	45.	0.00

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 28 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 34.60	794.01	1712.	0.06	29993.	1227.	9.63	0.0280	11.	46.	0.00
MILE 33.60	794.01	1722.	0.03	61938.	2142.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.01	1741.	0.06	30463.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.01	1761.	0.05	32074.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	1777.	0.05	35758.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	1804.	0.05	37107.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	1830.	0.04	45972.	1052.	12.00	0.0230	20.	60.	0.00
MILE 23.10	794.00	1846.	0.05	37830.	1083.	11.43	0.0230	20.	64.	0.00

0DATE 3-10-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 9.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.72	2000.	2.59	772.	275.	2.25	0.0290	20.	4.	0.27
MILE 77.70	816.91	2041.	2.06	993.	182.	2.47	0.0400	20.	6.	0.16
MILE 75.60	810.88	2082.	2.00	1041.	165.	2.52	0.0400	20.	4.	0.14
MILE 73.50	807.17	2128.	1.79	1187.	150.	2.82	0.0330	20.	8.	0.11
MILE 71.40	805.59	2176.	1.41	1540.	228.	2.51	0.0400	20.	8.	0.10
MILE 69.30	802.56	2229.	1.83	1218.	268.	2.22	0.0340	20.	4.	0.15
MILE 67.20	797.47	2280.	2.00	1138.	273.	2.26	0.0340	20.	7.	0.17
MILE 65.10	794.25	2334.	1.13	2075.	325.	3.10	0.0320	20.	7.	0.08
MILE 63.00	794.11	2393.	0.69	3472.	341.	4.62	0.0400	20.	13.	0.04
MILE 60.90	794.02	2458.	0.53	4612.	355.	5.72	0.0450	20.	18.	0.03
MILE 58.80	793.98	537.	0.09	5736.	354.	6.13	0.0400	-1982.	21.	0.00
MILE 57.00	793.98	586.	0.09	6359.	396.	6.01	0.0200	18.	19.	0.00
MILE 55.00	793.99	639.	0.10	6470.	458.	6.50	0.0200	18.	20.	0.00
MILE 53.10	793.99	697.	0.08	8909.	564.	5.99	0.0200	19.	21.	0.00
MILE 51.00	793.99	796.	0.08	9629.	917.	6.11	0.0200	23.	25.	0.00
MILE 48.30	793.99	994.	0.08	12987.	1620.	4.91	0.0200	23.	25.	0.00
MILE 46.20	793.99	1071.	0.07	15532.	1813.	6.73	0.0200	20.	32.	0.00
MILE 44.10	793.99	1260.	0.05	27596.	1506.	8.04	0.0300	12.	39.	0.00
MILE 43.70	793.99	1292.	0.09	14292.	1362.	8.23	0.0300	10.	41.	0.00
MILE 42.00	793.99	1414.	0.08	18713.	1329.	6.16	0.0300	22.	44.	0.00
MILE 39.10	793.99	1557.	0.09	18073.	1352.	7.86	0.0230	24.	43.	0.00
MILE 37.00	793.99	1650.	0.05	31806.	1119.	7.26	0.0280	15.	43.	0.00
MILE 36.00	793.99	1687.	0.09	19703.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.00	1740.	0.06	29981.	1226.	9.63	0.0280	11.	45.	0.00
MILE 33.60	794.00	1791.	0.03	61907.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	1909.	0.06	30454.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	1954.	0.06	32065.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	1980.	0.06	35751.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	2016.	0.05	37102.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	2052.	0.04	45970.	1052.	12.00	0.0230	20.	59.	0.00
MILE 23.10	794.00	2083.	0.06	37830.	1083.	11.43	0.0230	20.	64.	0.00

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 29 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

0DATE 3-10-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 10.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.63	759.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.90	2035.	2.05	990.	182.	2.47	0.0400	20.	6.	0.16
MILE 75.60	810.87	2071.	2.00	1036.	165.	2.51	0.0400	20.	4.	0.14
MILE 73.50	807.15	2110.	1.79	1182.	150.	2.81	0.0330	20.	8.	0.11
MILE 71.40	805.57	2151.	1.41	1530.	228.	2.49	0.0400	20.	8.	0.10
MILE 69.30	802.53	2194.	1.82	1206.	267.	2.21	0.0340	20.	4.	0.15
MILE 67.20	797.42	2237.	2.00	1120.	271.	2.25	0.0340	20.	7.	0.17
MILE 65.10	794.21	2297.	1.12	2058.	324.	3.09	0.0320	20.	7.	0.08
MILE 63.00	794.07	2366.	0.68	3458.	341.	4.62	0.0400	20.	13.	0.04
MILE 60.90	793.99	2426.	0.53	4600.	355.	5.71	0.0450	20.	17.	0.03
MILE 58.80	793.96	455.	0.08	5726.	353.	6.13	0.0400	-1982.	21.	0.00
MILE 57.00	793.96	490.	0.08	6348.	396.	6.01	0.0200	18.	19.	0.00
MILE 55.00	793.96	539.	0.08	6461.	458.	6.50	0.0200	18.	20.	0.00
MILE 53.10	793.96	602.	0.07	8894.	564.	5.99	0.0200	19.	21.	0.00
MILE 51.00	793.96	671.	0.07	9617.	916.	6.11	0.0200	23.	25.	0.00
MILE 48.30	793.97	740.	0.06	12966.	1619.	4.91	0.0200	23.	25.	0.00
MILE 46.20	793.97	883.	0.06	15513.	1812.	6.73	0.0200	20.	32.	0.00
MILE 44.10	793.97	932.	0.03	27574.	1505.	8.04	0.0300	12.	39.	0.00
MILE 43.70	793.97	939.	0.07	14283.	1362.	8.23	0.0300	10.	41.	0.00
MILE 42.00	793.97	967.	0.05	18696.	1329.	6.16	0.0300	22.	44.	0.00
MILE 39.10	793.98	1039.	0.06	18063.	1352.	7.85	0.0230	24.	43.	0.00
MILE 37.00	793.98	1066.	0.03	31787.	1119.	7.26	0.0280	15.	43.	0.00
MILE 36.00	793.98	1075.	0.05	19695.	900.	8.34	0.0280	11.	45.	0.00
MILE 34.60	793.99	1082.	0.04	29972.	1226.	9.63	0.0280	11.	45.	0.00
MILE 33.60	793.99	1084.	0.02	61883.	2140.	8.10	0.0290	15.	51.	0.00
MILE 31.50	793.99	1083.	0.04	30448.	1756.	10.37	0.0250	16.	55.	0.00
MILE 30.10	793.99	1090.	0.03	32059.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	793.99	1098.	0.03	35747.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	1112.	0.03	37099.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	1132.	0.02	45968.	1052.	12.00	0.0230	20.	59.	0.00
MILE 23.10	794.00	1152.	0.03	37830.	1083.	11.43	0.0230	20.	64.	0.00

0DATE 3-10-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 11.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.65	2000.	2.66	753.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.89	2028.	2.05	987.	181.	2.47	0.0400	20.	6.	0.16
MILE 75.60	810.85	2057.	1.99	1032.	165.	2.50	0.0400	20.	4.	0.14
MILE 73.50	807.13	2092.	1.78	1177.	149.	2.80	0.0330	20.	8.	0.11
MILE 71.40	805.54	2128.	1.40	1521.	227.	2.48	0.0400	20.	8.	0.10

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE	69.30	802.51	2167.	1.81	1196.	266.	2.20	0.0340	20.	4.	0.15
MILE	67.20	797.39	2206.	1.99	1106.	269.	2.24	0.0340	20.	7.	0.17
MILE	65.10	794.18	2254.	1.10	2047.	323.	3.08	0.0320	20.	7.	0.08
MILE	63.00	794.06	2293.	0.66	3451.	341.	4.61	0.0400	20.	13.	0.04
MILE	60.90	793.98	2306.	0.50	4597.	355.	5.71	0.0450	20.	17.	0.02
MILE	58.80	793.95	322.	0.06	5723.	353.	6.13	0.0400	-1982.	21.	0.00
MILE	57.00	793.95	334.	0.05	6345.	396.	6.01	0.0200	18.	19.	0.00
MILE	55.00	793.95	350.	0.05	6458.	458.	6.50	0.0200	18.	20.	0.00
MILE	53.10	793.96	347.	0.04	8892.	564.	5.99	0.0200	19.	21.	0.00
MILE	51.00	793.96	338.	0.04	9617.	916.	6.11	0.0200	23.	25.	0.00
MILE	48.30	793.97	314.	0.02	12964.	1619.	4.91	0.0200	23.	25.	0.00
MILE	46.20	793.97	238.	0.02	15515.	1812.	6.73	0.0200	20.	32.	0.00
MILE	44.10	793.97	213.	0.01	27577.	1505.	8.04	0.0300	12.	39.	0.00
MILE	43.70	793.97	210.	0.01	14284.	1362.	8.23	0.0300	10.	41.	0.00
MILE	42.00	793.98	200.	0.01	18699.	1329.	6.16	0.0300	22.	44.	0.00
MILE	39.10	793.98	171.	0.01	18067.	1352.	7.85	0.0230	24.	43.	0.00
MILE	37.00	793.99	181.	0.01	31795.	1119.	7.26	0.0280	15.	43.	0.00
MILE	36.00	793.99	186.	0.01	19699.	901.	8.34	0.0280	11.	45.	0.00
MILE	34.60	793.99	193.	0.01	29976.	1226.	9.63	0.0280	11.	45.	0.00
MILE	33.60	793.99	193.	0.00	61894.	2141.	8.11	0.0290	15.	51.	0.00
MILE	31.50	793.99	186.	0.01	30451.	1756.	10.37	0.0250	16.	55.	0.00
MILE	30.10	793.99	190.	0.01	32062.	883.	9.91	0.0200	12.	53.	0.00
MILE	29.00	793.99	196.	0.01	35749.	1054.	10.78	0.0200	13.	54.	0.00
MILE	27.30	794.00	207.	0.01	37100.	1054.	11.17	0.0230	18.	57.	0.00
MILE	25.20	794.00	227.	0.00	45969.	1052.	12.00	0.0230	20.	59.	0.00
MILE	23.10	794.00	248.	0.01	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-10-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 12.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	822.64	2000.	2.66	750.	273.	2.22	0.0290	20.	4.	0.28
MILE	77.70	816.88	2023.	2.05	985.	181.	2.47	0.0400	20.	6.	0.16
MILE	75.60	810.83	2048.	1.99	1028.	164.	2.50	0.0400	20.	4.	0.14
MILE	73.50	807.11	2078.	1.77	1172.	149.	2.80	0.0330	20.	8.	0.11
MILE	71.40	805.52	2110.	1.39	1512.	227.	2.48	0.0400	20.	8.	0.10
MILE	69.30	802.49	2145.	1.81	1188.	265.	2.20	0.0340	20.	4.	0.15
MILE	67.20	797.37	2180.	1.99	1096.	268.	2.23	0.0340	20.	7.	0.17
MILE	65.10	794.18	2210.	1.08	2049.	323.	3.08	0.0320	20.	7.	0.08
MILE	63.00	794.07	2201.	0.64	3456.	341.	4.62	0.0400	20.	13.	0.04
MILE	60.90	794.00	2182.	0.47	4605.	355.	5.71	0.0450	20.	17.	0.02
MILE	58.80	793.98	145.	0.03	5734.	354.	6.13	0.0400	-1982.	21.	0.00
MILE	57.00	793.98	118.	0.02	6358.	396.	6.01	0.0200	18.	19.	0.00
MILE	55.00	793.98	83.	0.01	6470.	458.	6.50	0.0200	18.	20.	0.00
MILE	53.10	793.98	54.	0.01	8909.	564.	5.99	0.0200	19.	21.	0.00
MILE	51.00	793.99	13.	0.00	9629.	917.	6.11	0.0200	23.	25.	0.00
MILE	48.30	793.99	-100.	-0.01	12990.	1620.	4.91	0.0200	23.	25.	0.00

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
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MILE	46.20	793.99	-210.	-0.01	15532.	1813.	6.73	0.0200	20.	32.	0.00
MILE	44.10	793.99	-298.	-0.01	27597.	1506.	8.04	0.0300	12.	39.	0.00
MILE	43.70	793.99	-310.	-0.02	14293.	1363.	8.23	0.0300	10.	41.	0.00
MILE	42.00	793.99	-339.	-0.02	18716.	1330.	6.16	0.0300	22.	44.	0.00
MILE	39.10	793.99	-377.	-0.02	18074.	1352.	7.86	0.0230	24.	43.	0.00
MILE	37.00	793.99	-425.	-0.01	31806.	1119.	7.26	0.0280	15.	43.	0.00
MILE	36.00	793.99	-438.	-0.02	19703.	901.	8.34	0.0280	11.	45.	0.00
MILE	34.60	793.99	-445.	-0.01	29981.	1226.	9.63	0.0280	11.	45.	0.00
MILE	33.60	794.00	-449.	-0.01	61906.	2141.	8.11	0.0290	15.	51.	0.00
MILE	31.50	794.00	-448.	-0.01	30454.	1757.	10.37	0.0250	16.	55.	0.00
MILE	30.10	794.00	-439.	-0.01	32065.	883.	9.91	0.0200	12.	53.	0.00
MILE	29.00	794.00	-432.	-0.01	35751.	1054.	10.78	0.0200	13.	54.	0.00
MILE	27.30	794.00	-422.	-0.01	37101.	1054.	11.17	0.0230	18.	57.	0.00
MILE	25.20	794.00	-414.	-0.01	45969.	1052.	12.00	0.0230	20.	59.	0.00
MILE	23.10	794.00	-405.	-0.01	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-10-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 13.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	822.63	2000.	2.67	749.	273.	2.22	0.0290	20.	4.	0.28
MILE	77.70	816.88	2021.	2.05	985.	181.	2.46	0.0400	20.	6.	0.16
MILE	75.60	810.83	2044.	1.99	1026.	164.	2.50	0.0400	20.	4.	0.14
MILE	73.50	807.10	2069.	1.77	1169.	149.	2.79	0.0330	20.	8.	0.11
MILE	71.40	805.51	2096.	1.39	1506.	227.	2.47	0.0400	20.	8.	0.10
MILE	69.30	802.47	2126.	1.80	1182.	265.	2.19	0.0340	20.	4.	0.15
MILE	67.20	797.34	2155.	1.98	1087.	267.	2.23	0.0340	20.	7.	0.17
MILE	65.10	794.22	2168.	1.05	2064.	324.	3.09	0.0320	20.	7.	0.07
MILE	63.00	794.11	2149.	0.62	3471.	341.	4.62	0.0400	20.	13.	0.03
MILE	60.90	794.04	2123.	0.46	4619.	356.	5.72	0.0450	20.	18.	0.02
MILE	58.80	794.02	98.	0.02	5749.	354.	6.14	0.0400	-1982.	21.	0.00
MILE	57.00	794.02	86.	0.01	6374.	396.	6.02	0.0200	18.	19.	0.00
MILE	55.00	794.02	72.	0.01	6482.	459.	6.51	0.0200	18.	21.	0.00
MILE	53.10	794.02	50.	0.01	8927.	565.	6.00	0.0200	19.	21.	0.00
MILE	51.00	794.01	7.	0.00	9644.	918.	6.12	0.0200	23.	25.	0.00
MILE	48.30	794.01	-111.	-0.01	13017.	1621.	4.91	0.0200	23.	25.	0.00
MILE	46.20	794.01	-200.	-0.01	15551.	1815.	6.73	0.0200	20.	32.	0.00
MILE	44.10	794.01	-290.	-0.01	27621.	1507.	8.04	0.0300	12.	39.	0.00
MILE	43.70	794.01	-304.	-0.02	14304.	1363.	8.23	0.0300	10.	41.	0.00
MILE	42.00	794.01	-367.	-0.02	18738.	1330.	6.16	0.0300	22.	44.	0.00
MILE	39.10	794.01	-457.	-0.03	18087.	1353.	7.86	0.0230	24.	43.	0.00
MILE	37.00	794.01	-449.	-0.01	31828.	1120.	7.26	0.0280	15.	43.	0.00
MILE	36.00	794.01	-444.	-0.02	19713.	901.	8.34	0.0280	11.	45.	0.00
MILE	34.60	794.01	-444.	-0.01	29991.	1226.	9.63	0.0280	11.	46.	0.00
MILE	33.60	794.00	-457.	-0.01	61931.	2142.	8.11	0.0290	15.	51.	0.00
MILE	31.50	794.00	-501.	-0.02	30461.	1757.	10.37	0.0250	16.	55.	0.00
MILE	30.10	794.00	-514.	-0.02	32073.	883.	9.91	0.0200	12.	53.	0.00

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE	29.00	794.00	-515.	-0.01	35757.	1054.	10.78	0.0200	13.	54.	0.00
MILE	27.30	794.00	-511.	-0.01	37106.	1054.	11.17	0.0230	18.	57.	0.00
MILE	25.20	794.00	-490.	-0.01	45973.	1052.	12.00	0.0230	20.	60.	0.00
MILE	23.10	794.00	-458.	-0.01	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-10-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 14.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	822.63	2000.	2.67	749.	273.	2.22	0.0290	20.	4.	0.28
MILE	77.70	816.87	2021.	2.05	984.	181.	2.46	0.0400	20.	6.	0.16
MILE	75.60	810.82	2042.	1.99	1025.	164.	2.49	0.0400	20.	4.	0.14
MILE	73.50	807.09	2063.	1.77	1167.	149.	2.79	0.0330	20.	8.	0.11
MILE	71.40	805.50	2086.	1.39	1502.	226.	2.47	0.0400	20.	8.	0.10
MILE	69.30	802.46	2109.	1.79	1175.	264.	2.18	0.0340	20.	4.	0.15
MILE	67.20	797.33	2131.	1.98	1079.	266.	2.22	0.0340	20.	7.	0.17
MILE	65.10	794.25	2150.	1.04	2075.	325.	3.10	0.0320	20.	7.	0.07
MILE	63.00	794.14	2156.	0.62	3480.	342.	4.63	0.0400	20.	13.	0.03
MILE	60.90	794.07	2161.	0.47	4626.	356.	5.73	0.0450	20.	18.	0.02
MILE	58.80	794.04	171.	0.03	5756.	354.	6.14	0.0400	-1982.	21.	0.00
MILE	57.00	794.04	179.	0.03	6382.	397.	6.03	0.0200	18.	19.	0.00
MILE	55.00	794.04	188.	0.03	6490.	459.	6.51	0.0200	18.	21.	0.00
MILE	53.10	794.04	181.	0.02	8940.	565.	6.00	0.0200	19.	21.	0.00
MILE	51.00	794.03	173.	0.02	9654.	919.	6.12	0.0200	23.	25.	0.00
MILE	48.30	794.03	163.	0.01	13037.	1622.	4.91	0.0200	23.	25.	0.00
MILE	46.20	794.03	125.	0.01	15566.	1816.	6.74	0.0200	20.	32.	0.00
MILE	44.10	794.03	87.	0.00	27640.	1508.	8.04	0.0300	12.	39.	0.00
MILE	43.70	794.03	84.	0.01	14312.	1364.	8.23	0.0300	10.	41.	0.00
MILE	42.00	794.02	88.	0.00	18754.	1331.	6.16	0.0300	22.	44.	0.00
MILE	39.10	794.02	109.	0.01	18094.	1353.	7.86	0.0230	24.	43.	0.00
MILE	37.00	794.01	81.	0.00	31840.	1120.	7.27	0.0280	15.	43.	0.00
MILE	36.00	794.01	75.	0.00	19719.	901.	8.34	0.0280	11.	45.	0.00
MILE	34.60	794.01	76.	0.00	29997.	1227.	9.63	0.0280	11.	46.	0.00
MILE	33.60	794.01	82.	0.00	61947.	2142.	8.11	0.0290	15.	51.	0.00
MILE	31.50	794.01	108.	0.00	30465.	1757.	10.37	0.0250	16.	55.	0.00
MILE	30.10	794.01	129.	0.00	32076.	883.	9.91	0.0200	12.	53.	0.00
MILE	29.00	794.01	143.	0.00	35759.	1054.	10.78	0.0200	13.	54.	0.00
MILE	27.30	794.00	163.	0.00	37107.	1054.	11.17	0.0230	18.	57.	0.00
MILE	25.20	794.00	180.	0.00	45972.	1052.	12.00	0.0230	20.	60.	0.00
MILE	23.10	794.00	191.	0.01	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-10-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 33 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

TIME 15.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.63	2000.	2.67	749.	273.	2.22	0.0290	20.	4.	0.28
MILE 77.70	816.87	2020.	2.05	984.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2039.	1.99	1024.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2058.	1.77	1165.	149.	2.79	0.0330	20.	8.	0.11
MILE 71.40	805.48	2076.	1.39	1498.	226.	2.46	0.0400	20.	8.	0.09
MILE 69.30	802.45	2094.	1.79	1170.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2116.	1.97	1073.	266.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.25	2140.	1.03	2077.	325.	3.10	0.0320	20.	7.	0.07
MILE 63.00	794.14	2164.	0.62	3481.	342.	4.63	0.0400	20.	13.	0.03
MILE 60.90	794.07	2200.	0.48	4626.	356.	5.73	0.0450	20.	18.	0.02
MILE 58.80	794.04	236.	0.04	5755.	354.	6.14	0.0400	-1982.	21.	0.00
MILE 57.00	794.04	267.	0.04	6381.	397.	6.03	0.0200	18.	19.	0.00
MILE 55.00	794.03	296.	0.05	6489.	459.	6.51	0.0200	18.	21.	0.00
MILE 53.10	794.03	336.	0.04	8938.	565.	6.00	0.0200	19.	21.	0.00
MILE 51.00	794.03	402.	0.04	9652.	919.	6.12	0.0200	23.	25.	0.00
MILE 48.30	794.03	499.	0.04	13033.	1622.	4.91	0.0200	23.	25.	0.00
MILE 46.20	794.02	581.	0.04	15563.	1816.	6.74	0.0200	20.	32.	0.00
MILE 44.10	794.02	685.	0.02	27636.	1508.	8.04	0.0300	12.	39.	0.00
MILE 43.70	794.02	700.	0.05	14310.	1364.	8.23	0.0300	10.	41.	0.00
MILE 42.00	794.02	750.	0.04	18751.	1331.	6.16	0.0300	22.	44.	0.00
MILE 39.10	794.02	800.	0.04	18094.	1353.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.01	866.	0.03	31839.	1120.	7.27	0.0280	15.	43.	0.00
MILE 36.00	794.01	891.	0.05	19718.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.01	921.	0.03	29996.	1227.	9.63	0.0280	11.	46.	0.00
MILE 33.60	794.01	941.	0.02	61944.	2142.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.01	975.	0.03	30465.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.01	986.	0.03	32076.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.01	994.	0.03	35760.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	1007.	0.03	37108.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	1027.	0.02	45973.	1052.	12.00	0.0230	20.	60.	0.00
MILE 23.10	794.00	1052.	0.03	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-10-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 16.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.64	2000.	2.67	750.	273.	2.22	0.0290	20.	4.	0.28
MILE 77.70	816.87	2018.	2.05	983.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.81	2035.	1.99	1023.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.07	2051.	1.76	1162.	148.	2.78	0.0330	20.	8.	0.11
MILE 71.40	805.47	2068.	1.38	1494.	226.	2.46	0.0400	20.	8.	0.09
MILE 69.30	802.44	2086.	1.79	1166.	263.	2.17	0.0340	20.	4.	0.15
MILE 67.20	797.30	2108.	1.97	1069.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.24	2140.	1.03	2070.	325.	3.10	0.0320	20.	7.	0.07

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE	63.00	794.12	2196.	0.63	3473.	342.	4.63	0.0400	20.	13.	0.03
MILE	60.90	794.04	2250.	0.49	4618.	356.	5.72	0.0450	20.	18.	0.02
MILE	58.80	794.01	304.	0.05	5746.	354.	6.14	0.0400	-1982.	21.	0.00
MILE	57.00	794.01	354.	0.06	6370.	396.	6.02	0.0200	18.	19.	0.00
MILE	55.00	794.01	422.	0.07	6479.	459.	6.51	0.0200	18.	21.	0.00
MILE	53.10	794.01	479.	0.05	8923.	565.	6.00	0.0200	19.	21.	0.00
MILE	51.00	794.01	551.	0.06	9640.	918.	6.11	0.0200	23.	25.	0.00
MILE	48.30	794.01	694.	0.05	13010.	1621.	4.91	0.0200	23.	25.	0.00
MILE	46.20	794.01	872.	0.06	15546.	1814.	6.73	0.0200	20.	32.	0.00
MILE	44.10	794.01	978.	0.04	27616.	1507.	8.04	0.0300	12.	39.	0.00
MILE	43.70	794.01	996.	0.07	14301.	1363.	8.23	0.0300	10.	41.	0.00
MILE	42.00	794.00	1071.	0.06	18733.	1330.	6.16	0.0300	22.	44.	0.00
MILE	39.10	794.00	1222.	0.07	18083.	1353.	7.86	0.0230	24.	43.	0.00
MILE	37.00	794.00	1290.	0.04	31821.	1120.	7.26	0.0280	15.	43.	0.00
MILE	36.00	794.00	1316.	0.07	19710.	901.	8.34	0.0280	11.	45.	0.00
MILE	34.60	794.00	1350.	0.05	29988.	1226.	9.63	0.0280	11.	46.	0.00
MILE	33.60	794.00	1382.	0.02	61924.	2141.	8.11	0.0290	15.	51.	0.00
MILE	31.50	794.00	1457.	0.05	30459.	1757.	10.37	0.0250	16.	55.	0.00
MILE	30.10	794.00	1494.	0.05	32070.	883.	9.91	0.0200	12.	53.	0.00
MILE	29.00	794.00	1517.	0.04	35755.	1054.	10.78	0.0200	13.	54.	0.00
MILE	27.30	794.00	1552.	0.04	37104.	1054.	11.17	0.0230	18.	57.	0.00
MILE	25.20	794.00	1585.	0.03	45971.	1052.	12.00	0.0230	20.	60.	0.00
MILE	23.10	794.00	1608.	0.04	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-10-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 17.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	822.65	2000.	2.66	753.	274.	2.23	0.0290	20.	4.	0.28
MILE	77.70	816.87	2016.	2.05	983.	181.	2.46	0.0400	20.	6.	0.16
MILE	75.60	810.81	2031.	1.99	1022.	164.	2.49	0.0400	20.	4.	0.14
MILE	73.50	807.07	2047.	1.76	1161.	148.	2.78	0.0330	20.	8.	0.11
MILE	71.40	805.47	2064.	1.38	1491.	226.	2.45	0.0400	20.	8.	0.09
MILE	69.30	802.43	2083.	1.79	1165.	263.	2.17	0.0340	20.	4.	0.15
MILE	67.20	797.30	2106.	1.97	1067.	265.	2.22	0.0340	20.	7.	0.17
MILE	65.10	794.20	2143.	1.04	2057.	323.	3.09	0.0320	20.	7.	0.07
MILE	63.00	794.09	2195.	0.63	3462.	341.	4.62	0.0400	20.	13.	0.04
MILE	60.90	794.01	2252.	0.49	4607.	355.	5.71	0.0450	20.	17.	0.02
MILE	58.80	793.98	313.	0.05	5733.	354.	6.13	0.0400	-1982.	21.	0.00
MILE	57.00	793.98	359.	0.06	6357.	396.	6.01	0.0200	18.	19.	0.00
MILE	55.00	793.98	403.	0.06	6468.	458.	6.50	0.0200	18.	20.	0.00
MILE	53.10	793.98	454.	0.05	8906.	564.	5.99	0.0200	19.	21.	0.00
MILE	51.00	793.98	538.	0.06	9627.	917.	6.11	0.0200	23.	25.	0.00
MILE	48.30	793.98	697.	0.05	12983.	1620.	4.91	0.0200	23.	25.	0.00
MILE	46.20	793.98	788.	0.05	15528.	1813.	6.73	0.0200	20.	32.	0.00
MILE	44.10	793.99	924.	0.03	27592.	1506.	8.04	0.0300	12.	39.	0.00
MILE	43.70	793.99	946.	0.07	14291.	1362.	8.23	0.0300	10.	41.	0.00

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
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MILE 42.00	793.99	1024.	0.05	18711.	1329.	6.16	0.0300	22.	44.	0.00
MILE 39.10	793.99	1101.	0.06	18072.	1352.	7.86	0.0230	24.	43.	0.00
MILE 37.00	793.99	1152.	0.04	31803.	1119.	7.26	0.0280	15.	43.	0.00
MILE 36.00	793.99	1172.	0.06	19702.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	793.99	1201.	0.04	29979.	1226.	9.63	0.0280	11.	45.	0.00
MILE 33.60	793.99	1224.	0.02	61902.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	793.99	1275.	0.04	30453.	1756.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	1296.	0.04	32064.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	1308.	0.04	35750.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	1325.	0.04	37101.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	1343.	0.03	45970.	1052.	12.00	0.0230	20.	59.	0.00
MILE 23.10	794.00	1362.	0.04	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-10-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 18.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.66	2000.	2.64	757.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.87	2015.	2.05	983.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.81	2031.	1.99	1022.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.06	2047.	1.76	1160.	148.	2.78	0.0330	20.	8.	0.11
MILE 71.40	805.47	2065.	1.39	1491.	226.	2.45	0.0400	20.	8.	0.10
MILE 69.30	802.44	2085.	1.79	1165.	263.	2.17	0.0340	20.	4.	0.15
MILE 67.20	797.29	2108.	1.98	1067.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.17	2139.	1.05	2046.	322.	3.08	0.0320	20.	7.	0.07
MILE 63.00	794.06	2181.	0.63	3453.	341.	4.61	0.0400	20.	13.	0.03
MILE 60.90	793.98	2219.	0.48	4599.	355.	5.71	0.0450	20.	17.	0.02
MILE 58.80	793.96	242.	0.04	5727.	353.	6.13	0.0400	-1982.	21.	0.00
MILE 57.00	793.96	265.	0.04	6349.	396.	6.01	0.0200	18.	19.	0.00
MILE 55.00	793.96	296.	0.05	6462.	458.	6.50	0.0200	18.	20.	0.00
MILE 53.10	793.96	327.	0.04	8897.	564.	5.99	0.0200	19.	21.	0.00
MILE 51.00	793.97	355.	0.04	9620.	917.	6.11	0.0200	23.	25.	0.00
MILE 48.30	793.97	378.	0.03	12970.	1619.	4.91	0.0200	23.	25.	0.00
MILE 46.20	793.97	444.	0.03	15518.	1812.	6.73	0.0200	20.	32.	0.00
MILE 44.10	793.98	461.	0.02	27580.	1505.	8.04	0.0300	12.	39.	0.00
MILE 43.70	793.98	464.	0.03	14286.	1362.	8.23	0.0300	10.	41.	0.00
MILE 42.00	793.98	481.	0.03	18702.	1329.	6.16	0.0300	22.	44.	0.00
MILE 39.10	793.98	532.	0.03	18067.	1352.	7.85	0.0230	24.	43.	0.00
MILE 37.00	793.99	560.	0.02	31795.	1119.	7.26	0.0280	15.	43.	0.00
MILE 36.00	793.99	572.	0.03	19698.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	793.99	587.	0.02	29975.	1226.	9.63	0.0280	11.	45.	0.00
MILE 33.60	793.99	599.	0.01	61893.	2140.	8.11	0.0290	15.	51.	0.00
MILE 31.50	793.99	623.	0.02	30450.	1756.	10.37	0.0250	16.	55.	0.00
MILE 30.10	793.99	640.	0.02	32062.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	793.99	652.	0.02	35749.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	671.	0.02	37100.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	693.	0.02	45969.	1052.	12.00	0.0230	20.	59.	0.00

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Appendix F		Checked	ACM

MILE 23.10 794.00 712. 0.02 37830. 1083. 11.43 0.0230 20. 64. 0.00

ODATE 3-10-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 19.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.63	759.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.87	2017.	2.05	983.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.81	2034.	1.99	1023.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.07	2051.	1.77	1161.	148.	2.78	0.0330	20.	8.	0.11
MILE 71.40	805.47	2069.	1.39	1492.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.44	2090.	1.79	1167.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.30	2111.	1.98	1067.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.17	2132.	1.04	2044.	322.	3.08	0.0320	20.	7.	0.07
MILE 63.00	794.06	2140.	0.62	3453.	341.	4.61	0.0400	20.	13.	0.03
MILE 60.90	793.99	2135.	0.46	4601.	355.	5.71	0.0450	20.	17.	0.02
MILE 58.80	793.97	135.	0.02	5730.	353.	6.13	0.0400	-1982.	21.	0.00
MILE 57.00	793.97	132.	0.02	6353.	396.	6.01	0.0200	18.	19.	0.00
MILE 55.00	793.97	129.	0.02	6465.	458.	6.50	0.0200	18.	20.	0.00
MILE 53.10	793.97	118.	0.01	8902.	564.	5.99	0.0200	19.	21.	0.00
MILE 51.00	793.98	98.	0.01	9624.	917.	6.11	0.0200	23.	25.	0.00
MILE 48.30	793.98	61.	0.00	12977.	1619.	4.91	0.0200	23.	25.	0.00
MILE 46.20	793.98	-5.	0.00	15524.	1813.	6.73	0.0200	20.	32.	0.00
MILE 44.10	793.98	-40.	0.00	27587.	1505.	8.04	0.0300	12.	39.	0.00
MILE 43.70	793.98	-44.	0.00	14289.	1362.	8.23	0.0300	10.	41.	0.00
MILE 42.00	793.98	-62.	0.00	18706.	1329.	6.16	0.0300	22.	44.	0.00
MILE 39.10	793.99	-97.	-0.01	18070.	1352.	7.85	0.0230	24.	43.	0.00
MILE 37.00	793.99	-103.	0.00	31800.	1119.	7.26	0.0280	15.	43.	0.00
MILE 36.00	793.99	-102.	-0.01	19700.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	793.99	-101.	0.00	29977.	1226.	9.63	0.0280	11.	45.	0.00
MILE 33.60	793.99	-105.	0.00	61898.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	793.99	-119.	0.00	30452.	1756.	10.37	0.0250	16.	55.	0.00
MILE 30.10	793.99	-118.	0.00	32063.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	-114.	0.00	35750.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	-105.	0.00	37101.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	-89.	0.00	45969.	1052.	12.00	0.0230	20.	59.	0.00
MILE 23.10	794.00	-69.	0.00	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-10-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 20.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80 822.68 2000. 2.63 760. 274. 2.23 0.0290 20. 4. 0.28

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 37 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 77.70	816.87	2019.	2.05	984.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2038.	1.99	1024.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.07	2057.	1.77	1162.	148.	2.78	0.0330	20.	8.	0.11
MILE 71.40	805.48	2076.	1.39	1494.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.44	2095.	1.79	1168.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.30	2113.	1.98	1068.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.19	2121.	1.03	2053.	323.	3.08	0.0320	20.	7.	0.07
MILE 63.00	794.09	2107.	0.61	3462.	341.	4.62	0.0400	20.	13.	0.03
MILE 60.90	794.02	2094.	0.45	4611.	355.	5.72	0.0450	20.	17.	0.02
MILE 58.80	794.00	76.	0.01	5740.	354.	6.13	0.0400	-1982.	21.	0.00
MILE 57.00	794.00	62.	0.01	6365.	396.	6.02	0.0200	18.	19.	0.00
MILE 55.00	794.00	39.	0.01	6475.	458.	6.50	0.0200	18.	20.	0.00
MILE 53.10	794.00	21.	0.00	8916.	565.	5.99	0.0200	19.	21.	0.00
MILE 51.00	794.00	-20.	0.00	9635.	918.	6.11	0.0200	23.	25.	0.00
MILE 48.30	794.00	-121.	-0.01	13000.	1620.	4.91	0.0200	23.	25.	0.00
MILE 46.20	794.00	-227.	-0.01	15540.	1814.	6.73	0.0200	20.	32.	0.00
MILE 44.10	794.00	-318.	-0.01	27607.	1506.	8.04	0.0300	12.	39.	0.00
MILE 43.70	794.00	-331.	-0.02	14297.	1363.	8.23	0.0300	10.	41.	0.00
MILE 42.00	794.00	-370.	-0.02	18725.	1330.	6.16	0.0300	22.	44.	0.00
MILE 39.10	794.00	-422.	-0.02	18079.	1353.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.00	-458.	-0.01	31816.	1120.	7.26	0.0280	15.	43.	0.00
MILE 36.00	794.00	-468.	-0.02	19708.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.00	-475.	-0.02	29986.	1226.	9.63	0.0280	11.	45.	0.00
MILE 33.60	794.00	-482.	-0.01	61918.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	-493.	-0.02	30457.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	-489.	-0.02	32068.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	-483.	-0.01	35754.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	-474.	-0.01	37103.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	-461.	-0.01	45971.	1052.	12.00	0.0230	20.	59.	0.00
MILE 23.10	794.00	-446.	-0.01	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-10-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 21.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.64	759.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.88	2021.	2.05	985.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2042.	1.99	1025.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2062.	1.77	1164.	148.	2.79	0.0330	20.	8.	0.11
MILE 71.40	805.48	2081.	1.39	1497.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.45	2097.	1.79	1170.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.30	2112.	1.98	1069.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.22	2117.	1.03	2065.	324.	3.09	0.0320	20.	7.	0.07
MILE 63.00	794.12	2106.	0.61	3472.	341.	4.63	0.0400	20.	13.	0.03
MILE 60.90	794.05	2092.	0.45	4621.	356.	5.72	0.0450	20.	18.	0.02
MILE 58.80	794.02	83.	0.01	5751.	354.	6.14	0.0400	-1982.	21.	0.00
MILE 57.00	794.02	74.	0.01	6376.	397.	6.02	0.0200	18.	19.	0.00

TVA

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE	55.00	794.02	67.	0.01	6484.	459.	6.51	0.0200	18.	21.	0.00
MILE	53.10	794.02	55.	0.01	8932.	565.	6.00	0.0200	19.	21.	0.00
MILE	51.00	794.02	27.	0.00	9647.	918.	6.12	0.0200	23.	25.	0.00
MILE	48.30	794.02	-47.	0.00	13024.	1622.	4.91	0.0200	23.	25.	0.00
MILE	46.20	794.02	-106.	-0.01	15557.	1815.	6.74	0.0200	20.	32.	0.00
MILE	44.10	794.02	-163.	-0.01	27628.	1507.	8.04	0.0300	12.	39.	0.00
MILE	43.70	794.02	-171.	-0.01	14306.	1364.	8.23	0.0300	10.	41.	0.00
MILE	42.00	794.01	-206.	-0.01	18744.	1331.	6.16	0.0300	22.	44.	0.00
MILE	39.10	794.01	-250.	-0.01	18089.	1353.	7.86	0.0230	24.	43.	0.00
MILE	37.00	794.01	-245.	-0.01	31832.	1120.	7.27	0.0280	15.	43.	0.00
MILE	36.00	794.01	-241.	-0.01	19715.	901.	8.34	0.0280	11.	45.	0.00
MILE	34.60	794.01	-239.	-0.01	29993.	1226.	9.63	0.0280	11.	46.	0.00
MILE	33.60	794.01	-244.	0.00	61936.	2142.	8.11	0.0290	15.	51.	0.00
MILE	31.50	794.01	-263.	-0.01	30463.	1757.	10.37	0.0250	16.	55.	0.00
MILE	30.10	794.00	-264.	-0.01	32073.	883.	9.91	0.0200	12.	53.	0.00
MILE	29.00	794.00	-260.	-0.01	35758.	1054.	10.78	0.0200	13.	54.	0.00
MILE	27.30	794.00	-249.	-0.01	37106.	1054.	11.17	0.0230	18.	57.	0.00
MILE	25.20	794.00	-229.	0.00	45972.	1052.	12.00	0.0230	20.	60.	0.00
MILE	23.10	794.00	-202.	-0.01	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-10-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 22.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
 DEPTH FROUDE

MILE	79.80	822.67	2000.	2.64	757.	274.	2.23	0.0290	20.	4.	0.28
MILE	77.70	816.88	2022.	2.05	985.	181.	2.46	0.0400	20.	6.	0.16
MILE	75.60	810.82	2043.	1.99	1026.	164.	2.49	0.0400	20.	4.	0.14
MILE	73.50	807.08	2063.	1.77	1165.	149.	2.79	0.0330	20.	8.	0.11
MILE	71.40	805.48	2081.	1.39	1498.	226.	2.46	0.0400	20.	8.	0.10
MILE	69.30	802.45	2097.	1.79	1170.	264.	2.18	0.0340	20.	4.	0.15
MILE	67.20	797.30	2112.	1.97	1070.	265.	2.22	0.0340	20.	7.	0.17
MILE	65.10	794.25	2121.	1.02	2074.	325.	3.10	0.0320	20.	7.	0.07
MILE	63.00	794.14	2127.	0.61	3479.	342.	4.63	0.0400	20.	13.	0.03
MILE	60.90	794.06	2138.	0.46	4626.	356.	5.73	0.0450	20.	18.	0.02
MILE	58.80	794.04	156.	0.03	5756.	354.	6.14	0.0400	-1982.	21.	0.00
MILE	57.00	794.04	174.	0.03	6381.	397.	6.03	0.0200	18.	19.	0.00
MILE	55.00	794.03	191.	0.03	6489.	459.	6.51	0.0200	18.	21.	0.00
MILE	53.10	794.03	207.	0.02	8938.	565.	6.00	0.0200	19.	21.	0.00
MILE	51.00	794.03	221.	0.02	9652.	919.	6.12	0.0200	23.	25.	0.00
MILE	48.30	794.03	255.	0.02	13033.	1622.	4.91	0.0200	23.	25.	0.00
MILE	46.20	794.02	267.	0.02	15563.	1816.	6.74	0.0200	20.	32.	0.00
MILE	44.10	794.02	283.	0.01	27636.	1508.	8.04	0.0300	12.	39.	0.00
MILE	43.70	794.02	287.	0.02	14310.	1364.	8.23	0.0300	10.	41.	0.00
MILE	42.00	794.02	310.	0.02	18751.	1331.	6.16	0.0300	22.	44.	0.00
MILE	39.10	794.02	348.	0.02	18093.	1353.	7.86	0.0230	24.	43.	0.00
MILE	37.00	794.01	353.	0.01	31838.	1120.	7.27	0.0280	15.	43.	0.00
MILE	36.00	794.01	357.	0.02	19718.	901.	8.34	0.0280	11.	45.	0.00

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 39 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
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MILE 34.60	794.01	367.	0.01	29996.	1227.	9.63	0.0280	11.	46.	0.00
MILE 33.60	794.01	378.	0.01	61945.	2142.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.01	405.	0.01	30465.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.01	424.	0.01	32075.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.01	437.	0.01	35759.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	455.	0.01	37107.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	474.	0.01	45973.	1052.	12.00	0.0230	20.	60.	0.00
MILE 23.10	794.00	488.	0.01	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-10-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 23.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.66	2000.	2.64	756.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.88	2021.	2.05	985.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2041.	1.99	1025.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2060.	1.77	1164.	148.	2.79	0.0330	20.	8.	0.11
MILE 71.40	805.48	2078.	1.39	1497.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.44	2095.	1.79	1169.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.30	2112.	1.97	1070.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.25	2133.	1.03	2074.	325.	3.10	0.0320	20.	7.	0.07
MILE 63.00	794.13	2167.	0.62	3478.	342.	4.63	0.0400	20.	13.	0.03
MILE 60.90	794.06	2211.	0.48	4623.	356.	5.73	0.0450	20.	18.	0.02
MILE 58.80	794.03	257.	0.04	5751.	354.	6.14	0.0400	-1982.	21.	0.00
MILE 57.00	794.02	292.	0.05	6377.	397.	6.02	0.0200	18.	19.	0.00
MILE 55.00	794.02	332.	0.05	6485.	459.	6.51	0.0200	18.	21.	0.00
MILE 53.10	794.02	379.	0.04	8931.	565.	6.00	0.0200	19.	21.	0.00
MILE 51.00	794.02	446.	0.05	9647.	918.	6.12	0.0200	23.	25.	0.00
MILE 48.30	794.02	548.	0.04	13023.	1622.	4.91	0.0200	23.	25.	0.00
MILE 46.20	794.02	648.	0.04	15556.	1815.	6.73	0.0200	20.	32.	0.00
MILE 44.10	794.02	747.	0.03	27627.	1507.	8.04	0.0300	12.	39.	0.00
MILE 43.70	794.01	763.	0.05	14306.	1364.	8.23	0.0300	10.	41.	0.00
MILE 42.00	794.01	817.	0.04	18743.	1331.	6.16	0.0300	22.	44.	0.00
MILE 39.10	794.01	893.	0.05	18089.	1353.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.01	955.	0.03	31831.	1120.	7.27	0.0280	15.	43.	0.00
MILE 36.00	794.01	979.	0.05	19714.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.01	1009.	0.03	29992.	1226.	9.63	0.0280	11.	46.	0.00
MILE 33.60	794.01	1032.	0.02	61935.	2142.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.01	1080.	0.04	30462.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	1100.	0.03	32073.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	1113.	0.03	35758.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	1133.	0.03	37106.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	1156.	0.03	45972.	1052.	12.00	0.0230	20.	60.	0.00
MILE 23.10	794.00	1179.	0.03	37830.	1083.	11.43	0.0230	20.	64.	0.00

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 40 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

0DATE 3-11-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 0.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.64	757.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.87	2019.	2.05	984.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2038.	1.99	1024.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2056.	1.77	1163.	148.	2.78	0.0330	20.	8.	0.11
MILE 71.40	805.48	2075.	1.39	1495.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.44	2094.	1.79	1168.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2115.	1.98	1071.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.22	2145.	1.04	2065.	324.	3.09	0.0320	20.	7.	0.07
MILE 63.00	794.11	2196.	0.63	3469.	341.	4.62	0.0400	20.	13.	0.03
MILE 60.90	794.03	2247.	0.49	4614.	356.	5.72	0.0450	20.	18.	0.02
MILE 58.80	794.00	299.	0.05	5741.	354.	6.14	0.0400	-1982.	21.	0.00
MILE 57.00	794.00	345.	0.05	6365.	396.	6.02	0.0200	18.	19.	0.00
MILE 55.00	794.00	404.	0.06	6475.	458.	6.50	0.0200	18.	20.	0.00
MILE 53.10	794.00	459.	0.05	8917.	565.	5.99	0.0200	19.	21.	0.00
MILE 51.00	794.00	529.	0.05	9636.	918.	6.11	0.0200	23.	25.	0.00
MILE 48.30	794.00	668.	0.05	13001.	1621.	4.91	0.0200	23.	25.	0.00
MILE 46.20	794.00	811.	0.05	15540.	1814.	6.73	0.0200	20.	32.	0.00
MILE 44.10	794.00	919.	0.03	27607.	1506.	8.04	0.0300	12.	39.	0.00
MILE 43.70	794.00	936.	0.07	14298.	1363.	8.23	0.0300	10.	41.	0.00
MILE 42.00	794.00	1004.	0.05	18726.	1330.	6.16	0.0300	22.	44.	0.00
MILE 39.10	794.00	1120.	0.06	18079.	1353.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.00	1177.	0.04	31815.	1120.	7.26	0.0280	15.	43.	0.00
MILE 36.00	794.00	1199.	0.06	19707.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.00	1227.	0.04	29985.	1226.	9.63	0.0280	11.	45.	0.00
MILE 33.60	794.00	1252.	0.02	61917.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	1308.	0.04	30457.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	1336.	0.04	32068.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	1354.	0.04	35753.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	1380.	0.04	37103.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	1407.	0.03	45971.	1052.	12.00	0.0230	20.	59.	0.00
MILE 23.10	794.00	1427.	0.04	37830.	1083.	11.43	0.0230	20.	64.	0.00

0DATE 3-11-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 1.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.64	759.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.87	2018.	2.05	984.	181.	2.46	0.0400	20.	6.	0.15
MILE 75.60	810.82	2036.	1.99	1023.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.07	2054.	1.77	1162.	148.	2.78	0.0330	20.	8.	0.11
MILE 71.40	805.48	2074.	1.39	1494.	226.	2.46	0.0400	20.	8.	0.10

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 41 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE	69.30	802.44	2095.	1.79	1169.	264.	2.18	0.0340	20.	4.	0.15
MILE	67.20	797.31	2118.	1.98	1071.	265.	2.22	0.0340	20.	7.	0.17
MILE	65.10	794.20	2150.	1.05	2054.	323.	3.08	0.0320	20.	7.	0.07
MILE	63.00	794.08	2194.	0.63	3460.	341.	4.62	0.0400	20.	13.	0.04
MILE	60.90	794.00	2241.	0.49	4605.	355.	5.71	0.0450	20.	17.	0.02
MILE	58.80	793.97	287.	0.05	5732.	353.	6.13	0.0400	-1982.	21.	0.00
MILE	57.00	793.97	323.	0.05	6355.	396.	6.01	0.0200	18.	19.	0.00
MILE	55.00	793.98	358.	0.06	6467.	458.	6.50	0.0200	18.	20.	0.00
MILE	53.10	793.98	398.	0.04	8904.	564.	5.99	0.0200	19.	21.	0.00
MILE	51.00	793.98	458.	0.05	9625.	917.	6.11	0.0200	23.	25.	0.00
MILE	48.30	793.98	560.	0.04	12980.	1619.	4.91	0.0200	23.	25.	0.00
MILE	46.20	793.98	632.	0.04	15526.	1813.	6.73	0.0200	20.	32.	0.00
MILE	44.10	793.98	722.	0.03	27589.	1506.	8.04	0.0300	12.	39.	0.00
MILE	43.70	793.98	737.	0.05	14290.	1362.	8.23	0.0300	10.	41.	0.00
MILE	42.00	793.99	791.	0.04	18709.	1329.	6.16	0.0300	22.	44.	0.00
MILE	39.10	793.99	860.	0.05	18071.	1352.	7.86	0.0230	24.	43.	0.00
MILE	37.00	793.99	903.	0.03	31802.	1119.	7.26	0.0280	15.	43.	0.00
MILE	36.00	793.99	920.	0.05	19701.	901.	8.34	0.0280	11.	45.	0.00
MILE	34.60	793.99	945.	0.03	29979.	1226.	9.63	0.0280	11.	45.	0.00
MILE	33.60	793.99	966.	0.02	61901.	2141.	8.11	0.0290	15.	51.	0.00
MILE	31.50	793.99	1012.	0.03	30452.	1756.	10.37	0.0250	16.	55.	0.00
MILE	30.10	794.00	1033.	0.03	32064.	883.	9.91	0.0200	12.	53.	0.00
MILE	29.00	794.00	1046.	0.03	35750.	1054.	10.78	0.0200	13.	54.	0.00
MILE	27.30	794.00	1064.	0.03	37101.	1054.	11.17	0.0230	18.	57.	0.00
MILE	25.20	794.00	1083.	0.02	45969.	1052.	12.00	0.0230	20.	59.	0.00
MILE	23.10	794.00	1102.	0.03	37830.	1083.	11.43	0.0230	20.	64.	0.00

0DATE 3-11-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 2.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	822.68	2000.	2.63	760.	274.	2.23	0.0290	20.	4.	0.28
MILE	77.70	816.87	2018.	2.05	984.	181.	2.46	0.0400	20.	6.	0.15
MILE	75.60	810.82	2036.	1.99	1024.	164.	2.49	0.0400	20.	4.	0.14
MILE	73.50	807.07	2055.	1.77	1162.	148.	2.78	0.0330	20.	8.	0.11
MILE	71.40	805.48	2076.	1.39	1495.	226.	2.46	0.0400	20.	8.	0.10
MILE	69.30	802.45	2098.	1.79	1169.	264.	2.18	0.0340	20.	4.	0.15
MILE	67.20	797.31	2121.	1.98	1071.	265.	2.22	0.0340	20.	7.	0.17
MILE	65.10	794.18	2147.	1.05	2047.	323.	3.08	0.0320	20.	7.	0.07
MILE	63.00	794.06	2175.	0.63	3455.	341.	4.62	0.0400	20.	13.	0.03
MILE	60.90	793.99	2197.	0.48	4601.	355.	5.71	0.0450	20.	17.	0.02
MILE	58.80	793.97	211.	0.04	5729.	353.	6.13	0.0400	-1982.	21.	0.00
MILE	57.00	793.97	225.	0.04	6352.	396.	6.01	0.0200	18.	19.	0.00
MILE	55.00	793.97	245.	0.04	6464.	458.	6.50	0.0200	18.	20.	0.00
MILE	53.10	793.97	261.	0.03	8900.	564.	5.99	0.0200	19.	21.	0.00
MILE	51.00	793.97	275.	0.03	9622.	917.	6.11	0.0200	23.	25.	0.00
MILE	48.30	793.98	282.	0.02	12975.	1619.	4.91	0.0200	23.	25.	0.00

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 42 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 46.20	793.98	303.	0.02	15521.	1813.	6.73	0.0200	20.	32.	0.00
MILE 44.10	793.98	304.	0.01	27584.	1505.	8.04	0.0300	12.	39.	0.00
MILE 43.70	793.98	305.	0.02	14288.	1362.	8.23	0.0300	10.	41.	0.00
MILE 42.00	793.98	309.	0.02	18705.	1329.	6.16	0.0300	22.	44.	0.00
MILE 39.10	793.99	328.	0.02	18069.	1352.	7.85	0.0230	24.	43.	0.00
MILE 37.00	793.99	343.	0.01	31798.	1119.	7.26	0.0280	15.	43.	0.00
MILE 36.00	793.99	350.	0.02	19699.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	793.99	360.	0.01	29977.	1226.	9.63	0.0280	11.	45.	0.00
MILE 33.60	793.99	364.	0.01	61896.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	793.99	372.	0.01	30451.	1756.	10.37	0.0250	16.	55.	0.00
MILE 30.10	793.99	382.	0.01	32063.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	391.	0.01	35749.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	405.	0.01	37100.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	424.	0.01	45969.	1052.	12.00	0.0230	20.	59.	0.00
MILE 23.10	794.00	442.	0.01	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-11-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 3.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.68	2000.	2.63	761.	274.	2.24	0.0290	20.	4.	0.28
MILE 77.70	816.88	2019.	2.05	984.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2039.	1.99	1024.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2059.	1.77	1163.	148.	2.78	0.0330	20.	8.	0.11
MILE 71.40	805.48	2080.	1.39	1496.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.45	2101.	1.79	1171.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2122.	1.98	1072.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.18	2139.	1.04	2049.	323.	3.08	0.0320	20.	7.	0.07
MILE 63.00	794.07	2142.	0.62	3457.	341.	4.62	0.0400	20.	13.	0.03
MILE 60.90	794.00	2139.	0.46	4606.	355.	5.71	0.0450	20.	17.	0.02
MILE 58.80	793.98	136.	0.02	5734.	354.	6.13	0.0400	-1982.	21.	0.00
MILE 57.00	793.98	133.	0.02	6358.	396.	6.01	0.0200	18.	19.	0.00
MILE 55.00	793.98	125.	0.02	6469.	458.	6.50	0.0200	18.	20.	0.00
MILE 53.10	793.98	114.	0.01	8908.	564.	5.99	0.0200	19.	21.	0.00
MILE 51.00	793.98	91.	0.01	9628.	917.	6.11	0.0200	23.	25.	0.00
MILE 48.30	793.99	35.	0.00	12987.	1620.	4.91	0.0200	23.	25.	0.00
MILE 46.20	793.99	-37.	0.00	15530.	1813.	6.73	0.0200	20.	32.	0.00
MILE 44.10	793.99	-90.	0.00	27595.	1506.	8.04	0.0300	12.	39.	0.00
MILE 43.70	793.99	-97.	-0.01	14292.	1362.	8.23	0.0300	10.	41.	0.00
MILE 42.00	793.99	-122.	-0.01	18714.	1330.	6.16	0.0300	22.	44.	0.00
MILE 39.10	793.99	-157.	-0.01	18074.	1352.	7.86	0.0230	24.	43.	0.00
MILE 37.00	793.99	-169.	-0.01	31806.	1119.	7.26	0.0280	15.	43.	0.00
MILE 36.00	793.99	-171.	-0.01	19703.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	793.99	-172.	-0.01	29981.	1226.	9.63	0.0280	11.	45.	0.00
MILE 33.60	794.00	-176.	0.00	61906.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	-187.	-0.01	30454.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	-184.	-0.01	32065.	883.	9.91	0.0200	12.	53.	0.00

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE	29.00	794.00	-179.	-0.01	35751.	1054.	10.78	0.0200	13.	54.	0.00
MILE	27.30	794.00	-169.	0.00	37102.	1054.	11.17	0.0230	18.	57.	0.00
MILE	25.20	794.00	-154.	0.00	45970.	1052.	12.00	0.0230	20.	59.	0.00
MILE	23.10	794.00	-135.	0.00	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-11-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 4.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	822.68	2000.	2.63	760.	274.	2.23	0.0290	20.	4.	0.28
MILE	77.70	816.88	2021.	2.05	985.	181.	2.46	0.0400	20.	6.	0.16
MILE	75.60	810.82	2042.	1.99	1025.	164.	2.49	0.0400	20.	4.	0.14
MILE	73.50	807.08	2063.	1.77	1164.	148.	2.79	0.0330	20.	8.	0.11
MILE	71.40	805.49	2083.	1.39	1498.	226.	2.46	0.0400	20.	8.	0.10
MILE	69.30	802.45	2103.	1.80	1172.	264.	2.18	0.0340	20.	4.	0.15
MILE	67.20	797.31	2121.	1.98	1072.	265.	2.22	0.0340	20.	7.	0.17
MILE	65.10	794.21	2130.	1.04	2058.	324.	3.09	0.0320	20.	7.	0.07
MILE	63.00	794.10	2120.	0.61	3466.	341.	4.62	0.0400	20.	13.	0.03
MILE	60.90	794.03	2109.	0.46	4614.	356.	5.72	0.0450	20.	18.	0.02
MILE	58.80	794.01	95.	0.02	5744.	354.	6.14	0.0400	-1982.	21.	0.00
MILE	57.00	794.01	85.	0.01	6368.	396.	6.02	0.0200	18.	19.	0.00
MILE	55.00	794.01	71.	0.01	6478.	458.	6.50	0.0200	18.	21.	0.00
MILE	53.10	794.01	55.	0.01	8921.	565.	5.99	0.0200	19.	21.	0.00
MILE	51.00	794.01	24.	0.00	9639.	918.	6.11	0.0200	23.	25.	0.00
MILE	48.30	794.01	-54.	0.00	13008.	1621.	4.91	0.0200	23.	25.	0.00
MILE	46.20	794.00	-137.	-0.01	15546.	1814.	6.73	0.0200	20.	32.	0.00
MILE	44.10	794.00	-205.	-0.01	27614.	1507.	8.04	0.0300	12.	39.	0.00
MILE	43.70	794.00	-215.	-0.02	14300.	1363.	8.23	0.0300	10.	41.	0.00
MILE	42.00	794.00	-247.	-0.01	18732.	1330.	6.16	0.0300	22.	44.	0.00
MILE	39.10	794.00	-288.	-0.02	18083.	1353.	7.86	0.0230	24.	43.	0.00
MILE	37.00	794.00	-308.	-0.01	31821.	1120.	7.26	0.0280	15.	43.	0.00
MILE	36.00	794.00	-312.	-0.02	19710.	901.	8.34	0.0280	11.	45.	0.00
MILE	34.60	794.00	-315.	-0.01	29988.	1226.	9.63	0.0280	11.	46.	0.00
MILE	33.60	794.00	-319.	-0.01	61924.	2141.	8.11	0.0290	15.	51.	0.00
MILE	31.50	794.00	-329.	-0.01	30459.	1757.	10.37	0.0250	16.	55.	0.00
MILE	30.10	794.00	-326.	-0.01	32070.	883.	9.91	0.0200	12.	53.	0.00
MILE	29.00	794.00	-320.	-0.01	35755.	1054.	10.78	0.0200	13.	54.	0.00
MILE	27.30	794.00	-311.	-0.01	37104.	1054.	11.17	0.0230	18.	57.	0.00
MILE	25.20	794.00	-295.	-0.01	45971.	1052.	12.00	0.0230	20.	60.	0.00
MILE	23.10	794.00	-276.	-0.01	37830.	1083.	11.43	0.0230	20.	64.	0.00

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

TIME 5.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.64	758.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.88	2022.	2.05	985.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.83	2044.	1.99	1026.	164.	2.50	0.0400	20.	4.	0.14
MILE 73.50	807.09	2065.	1.77	1165.	149.	2.79	0.0330	20.	8.	0.11
MILE 71.40	805.49	2085.	1.39	1499.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.45	2103.	1.79	1172.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2119.	1.98	1072.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.23	2127.	1.03	2068.	324.	3.10	0.0320	20.	7.	0.07
MILE 63.00	794.12	2124.	0.61	3474.	342.	4.63	0.0400	20.	13.	0.03
MILE 60.90	794.05	2121.	0.46	4622.	356.	5.73	0.0450	20.	18.	0.02
MILE 58.80	794.03	123.	0.02	5752.	354.	6.14	0.0400	-1982.	21.	0.00
MILE 57.00	794.03	124.	0.02	6377.	397.	6.02	0.0200	18.	19.	0.00
MILE 55.00	794.02	127.	0.02	6485.	459.	6.51	0.0200	18.	21.	0.00
MILE 53.10	794.02	126.	0.01	8933.	565.	6.00	0.0200	19.	21.	0.00
MILE 51.00	794.02	118.	0.01	9648.	918.	6.12	0.0200	23.	25.	0.00
MILE 48.30	794.02	84.	0.01	13025.	1622.	4.91	0.0200	23.	25.	0.00
MILE 46.20	794.02	59.	0.00	15558.	1815.	6.74	0.0200	20.	32.	0.00
MILE 44.10	794.02	31.	0.00	27629.	1507.	8.04	0.0300	12.	39.	0.00
MILE 43.70	794.02	28.	0.00	14307.	1364.	8.23	0.0300	10.	41.	0.00
MILE 42.00	794.01	15.	0.00	18745.	1331.	6.16	0.0300	22.	44.	0.00
MILE 39.10	794.01	5.	0.00	18090.	1353.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.01	13.	0.00	31832.	1120.	7.27	0.0280	15.	43.	0.00
MILE 36.00	794.01	18.	0.00	19715.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.01	25.	0.00	29993.	1227.	9.63	0.0280	11.	46.	0.00
MILE 33.60	794.01	26.	0.00	61937.	2142.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.01	27.	0.00	30463.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	33.	0.00	32074.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	41.	0.00	35758.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	54.	0.00	37106.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	74.	0.00	45972.	1052.	12.00	0.0230	20.	60.	0.00
MILE 23.10	794.00	97.	0.00	37830.	1083.	11.43	0.0230	20.	64.	0.00

0DATE 3-11-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 6.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.66	2000.	2.64	757.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.88	2021.	2.05	985.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2043.	1.99	1026.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.09	2063.	1.77	1165.	149.	2.79	0.0330	20.	8.	0.11
MILE 71.40	805.49	2083.	1.39	1499.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.45	2100.	1.79	1171.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2117.	1.97	1072.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.24	2132.	1.03	2073.	325.	3.10	0.0320	20.	7.	0.07

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 45 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 63.00	794.13	2149.	0.62	3478.	342.	4.63	0.0400	20.	13.	0.03
MILE 60.90	794.06	2172.	0.47	4624.	356.	5.73	0.0450	20.	18.	0.02
MILE 58.80	794.03	199.	0.03	5753.	354.	6.14	0.0400	-1982.	21.	0.00
MILE 57.00	794.03	224.	0.04	6379.	397.	6.02	0.0200	18.	19.	0.00
MILE 55.00	794.03	250.	0.04	6486.	459.	6.51	0.0200	18.	21.	0.00
MILE 53.10	794.03	276.	0.03	8934.	565.	6.00	0.0200	19.	21.	0.00
MILE 51.00	794.02	307.	0.03	9649.	918.	6.12	0.0200	23.	25.	0.00
MILE 48.30	794.02	366.	0.03	13027.	1622.	4.91	0.0200	23.	25.	0.00
MILE 46.20	794.02	406.	0.03	15559.	1815.	6.74	0.0200	20.	32.	0.00
MILE 44.10	794.02	450.	0.02	27631.	1507.	8.04	0.0300	12.	39.	0.00
MILE 43.70	794.02	458.	0.03	14308.	1364.	8.23	0.0300	10.	41.	0.00
MILE 42.00	794.02	490.	0.03	18746.	1331.	6.16	0.0300	22.	44.	0.00
MILE 39.10	794.01	539.	0.03	18090.	1353.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.01	563.	0.02	31834.	1120.	7.27	0.0280	15.	43.	0.00
MILE 36.00	794.01	574.	0.03	19716.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.01	590.	0.02	29994.	1227.	9.63	0.0280	11.	46.	0.00
MILE 33.60	794.01	604.	0.01	61939.	2142.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.01	637.	0.02	30463.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.01	655.	0.02	32074.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	668.	0.02	35758.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	686.	0.02	37106.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	706.	0.02	45972.	1052.	12.00	0.0230	20.	60.	0.00
MILE 23.10	794.00	724.	0.02	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-11-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 7.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.66	2000.	2.64	756.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.88	2020.	2.05	985.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2040.	1.99	1025.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2060.	1.77	1164.	148.	2.79	0.0330	20.	8.	0.11
MILE 71.40	805.48	2079.	1.39	1497.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.45	2097.	1.79	1170.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2117.	1.97	1072.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.24	2141.	1.03	2070.	325.	3.10	0.0320	20.	7.	0.07
MILE 63.00	794.12	2180.	0.63	3474.	342.	4.63	0.0400	20.	13.	0.03
MILE 60.90	794.04	2225.	0.48	4619.	356.	5.72	0.0450	20.	18.	0.02
MILE 58.80	794.01	272.	0.05	5747.	354.	6.14	0.0400	-1982.	21.	0.00
MILE 57.00	794.01	309.	0.05	6372.	396.	6.02	0.0200	18.	19.	0.00
MILE 55.00	794.01	353.	0.05	6481.	459.	6.51	0.0200	18.	21.	0.00
MILE 53.10	794.01	400.	0.04	8926.	565.	6.00	0.0200	19.	21.	0.00
MILE 51.00	794.01	466.	0.05	9642.	918.	6.12	0.0200	23.	25.	0.00
MILE 48.30	794.01	572.	0.04	13014.	1621.	4.91	0.0200	23.	25.	0.00
MILE 46.20	794.01	680.	0.04	15550.	1815.	6.73	0.0200	20.	32.	0.00
MILE 44.10	794.01	776.	0.03	27619.	1507.	8.04	0.0300	12.	39.	0.00
MILE 43.70	794.01	791.	0.06	14303.	1363.	8.23	0.0300	10.	41.	0.00

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
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MILE 42.00	794.01	847.	0.05	18736.	1330.	6.16	0.0300	22.	44.	0.00
MILE 39.10	794.01	934.	0.05	18085.	1353.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.00	989.	0.03	31825.	1120.	7.26	0.0280	15.	43.	0.00
MILE 36.00	794.00	1011.	0.05	19712.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.00	1040.	0.03	29990.	1226.	9.63	0.0280	11.	46.	0.00
MILE 33.60	794.00	1063.	0.02	61928.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	1113.	0.04	30460.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	1135.	0.04	32071.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	1150.	0.03	35756.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	1171.	0.03	37105.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	1195.	0.03	45972.	1052.	12.00	0.0230	20.	60.	0.00
MILE 23.10	794.00	1216.	0.03	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-11-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 8.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.64	757.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.87	2019.	2.05	984.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2037.	1.99	1024.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2056.	1.77	1163.	148.	2.78	0.0330	20.	8.	0.11
MILE 71.40	805.48	2075.	1.39	1496.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.44	2096.	1.79	1169.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2118.	1.98	1072.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.21	2148.	1.04	2061.	324.	3.09	0.0320	20.	7.	0.07
MILE 63.00	794.10	2195.	0.63	3466.	341.	4.62	0.0400	20.	13.	0.04
MILE 60.90	794.02	2241.	0.49	4611.	355.	5.72	0.0450	20.	17.	0.02
MILE 58.80	793.99	287.	0.05	5738.	354.	6.13	0.0400	-1982.	21.	0.00
MILE 57.00	793.99	328.	0.05	6362.	396.	6.02	0.0200	18.	19.	0.00
MILE 55.00	793.99	377.	0.06	6472.	458.	6.50	0.0200	18.	20.	0.00
MILE 53.10	793.99	423.	0.05	8913.	564.	5.99	0.0200	19.	21.	0.00
MILE 51.00	793.99	485.	0.05	9632.	917.	6.11	0.0200	23.	25.	0.00
MILE 48.30	793.99	603.	0.05	12994.	1620.	4.91	0.0200	23.	25.	0.00
MILE 46.20	793.99	714.	0.05	15535.	1814.	6.73	0.0200	20.	32.	0.00
MILE 44.10	793.99	810.	0.03	27602.	1506.	8.04	0.0300	12.	39.	0.00
MILE 43.70	793.99	826.	0.06	14295.	1363.	8.23	0.0300	10.	41.	0.00
MILE 42.00	793.99	885.	0.05	18720.	1330.	6.16	0.0300	22.	44.	0.00
MILE 39.10	794.00	978.	0.05	18077.	1352.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.00	1030.	0.03	31811.	1119.	7.26	0.0280	15.	43.	0.00
MILE 36.00	794.00	1050.	0.05	19705.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.00	1077.	0.04	29983.	1226.	9.63	0.0280	11.	45.	0.00
MILE 33.60	794.00	1099.	0.02	61912.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	1149.	0.04	30456.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	1173.	0.04	32067.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	1188.	0.03	35752.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	1211.	0.03	37103.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	1236.	0.03	45970.	1052.	12.00	0.0230	20.	59.	0.00

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MILE 23.10 794.00 1256. 0.03 37830. 1083. 11.43 0.0230 20. 64. 0.00

ODATE 3-11-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 9.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.64	759.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.87	2018.	2.05	984.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2036.	1.99	1024.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.07	2055.	1.77	1162.	148.	2.78	0.0330	20.	8.	0.11
MILE 71.40	805.48	2075.	1.39	1495.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.44	2097.	1.79	1169.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2119.	1.98	1071.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.19	2149.	1.05	2052.	323.	3.08	0.0320	20.	7.	0.07
MILE 63.00	794.08	2186.	0.63	3458.	341.	4.62	0.0400	20.	13.	0.03
MILE 60.90	794.00	2223.	0.48	4604.	355.	5.71	0.0450	20.	17.	0.02
MILE 58.80	793.97	257.	0.04	5732.	353.	6.13	0.0400	-1982.	21.	0.00
MILE 57.00	793.97	284.	0.04	6355.	396.	6.01	0.0200	18.	19.	0.00
MILE 55.00	793.98	312.	0.05	6466.	458.	6.50	0.0200	18.	20.	0.00
MILE 53.10	793.98	343.	0.04	8904.	564.	5.99	0.0200	19.	21.	0.00
MILE 51.00	793.98	385.	0.04	9625.	917.	6.11	0.0200	23.	25.	0.00
MILE 48.30	793.98	450.	0.03	12980.	1619.	4.91	0.0200	23.	25.	0.00
MILE 46.20	793.98	501.	0.03	15525.	1813.	6.73	0.0200	20.	32.	0.00
MILE 44.10	793.98	555.	0.02	27589.	1506.	8.04	0.0300	12.	39.	0.00
MILE 43.70	793.98	565.	0.04	14290.	1362.	8.23	0.0300	10.	41.	0.00
MILE 42.00	793.99	599.	0.03	18709.	1329.	6.16	0.0300	22.	44.	0.00
MILE 39.10	793.99	649.	0.04	18071.	1352.	7.86	0.0230	24.	43.	0.00
MILE 37.00	793.99	679.	0.02	31801.	1119.	7.26	0.0280	15.	43.	0.00
MILE 36.00	793.99	692.	0.04	19701.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	793.99	710.	0.02	29979.	1226.	9.63	0.0280	11.	45.	0.00
MILE 33.60	793.99	724.	0.01	61900.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	793.99	756.	0.02	30452.	1756.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	773.	0.02	32064.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	785.	0.02	35750.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	801.	0.02	37101.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	821.	0.02	45969.	1052.	12.00	0.0230	20.	59.	0.00
MILE 23.10	794.00	839.	0.02	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-11-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 10.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80 822.68 2000. 2.63 760. 274. 2.23 0.0290 20. 4. 0.28

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 77.70	816.87	2018.	2.05	984.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2037.	1.99	1024.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2056.	1.77	1163.	148.	2.78	0.0330	20.	8.	0.11
MILE 71.40	805.48	2077.	1.39	1495.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.45	2099.	1.79	1170.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2121.	1.98	1071.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.18	2144.	1.05	2049.	323.	3.08	0.0320	20.	7.	0.07
MILE 63.00	794.07	2164.	0.63	3456.	341.	4.62	0.0400	20.	13.	0.03
MILE 60.90	794.00	2177.	0.47	4604.	355.	5.71	0.0450	20.	17.	0.02
MILE 58.80	793.97	186.	0.03	5732.	353.	6.13	0.0400	-1982.	21.	0.00
MILE 57.00	793.97	195.	0.03	6355.	396.	6.01	0.0200	18.	19.	0.00
MILE 55.00	793.98	206.	0.03	6467.	458.	6.50	0.0200	18.	20.	0.00
MILE 53.10	793.98	214.	0.02	8904.	564.	5.99	0.0200	19.	21.	0.00
MILE 51.00	793.98	215.	0.02	9626.	917.	6.11	0.0200	23.	25.	0.00
MILE 48.30	793.98	202.	0.02	12981.	1620.	4.91	0.0200	23.	25.	0.00
MILE 46.20	793.98	191.	0.01	15526.	1813.	6.73	0.0200	20.	32.	0.00
MILE 44.10	793.98	176.	0.01	27590.	1506.	8.04	0.0300	12.	39.	0.00
MILE 43.70	793.98	175.	0.01	14290.	1362.	8.23	0.0300	10.	41.	0.00
MILE 42.00	793.99	170.	0.01	18710.	1329.	6.16	0.0300	22.	44.	0.00
MILE 39.10	793.99	170.	0.01	18071.	1352.	7.86	0.0230	24.	43.	0.00
MILE 37.00	793.99	177.	0.01	31802.	1119.	7.26	0.0280	15.	43.	0.00
MILE 36.00	793.99	182.	0.01	19701.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	793.99	189.	0.01	29979.	1226.	9.63	0.0280	11.	45.	0.00
MILE 33.60	793.99	191.	0.00	61901.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	793.99	193.	0.01	30453.	1756.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	200.	0.01	32064.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	208.	0.01	35750.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	220.	0.01	37101.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	238.	0.01	45969.	1052.	12.00	0.0230	20.	59.	0.00
MILE 23.10	794.00	257.	0.01	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-11-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 11.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.68	2000.	2.63	760.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.88	2020.	2.05	984.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2040.	1.99	1025.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2060.	1.77	1163.	148.	2.78	0.0330	20.	8.	0.11
MILE 71.40	805.48	2080.	1.39	1497.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.45	2101.	1.79	1171.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2121.	1.98	1072.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.19	2136.	1.04	2053.	323.	3.08	0.0320	20.	7.	0.07
MILE 63.00	794.08	2136.	0.62	3461.	341.	4.62	0.0400	20.	13.	0.03
MILE 60.90	794.01	2131.	0.46	4609.	355.	5.72	0.0450	20.	17.	0.02
MILE 58.80	793.99	126.	0.02	5738.	354.	6.13	0.0400	-1982.	21.	0.00
MILE 57.00	793.99	122.	0.02	6362.	396.	6.02	0.0200	18.	19.	0.00

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MILE 55.00	793.99	113.	0.02	6473.	458.	6.50	0.0200	18.	20.	0.00
MILE 53.10	793.99	104.	0.01	8913.	564.	5.99	0.0200	19.	21.	0.00
MILE 51.00	793.99	81.	0.01	9633.	917.	6.11	0.0200	23.	25.	0.00
MILE 48.30	793.99	23.	0.00	12995.	1620.	4.91	0.0200	23.	25.	0.00
MILE 46.20	793.99	-43.	0.00	15536.	1814.	6.73	0.0200	20.	32.	0.00
MILE 44.10	793.99	-97.	0.00	27603.	1506.	8.04	0.0300	12.	39.	0.00
MILE 43.70	793.99	-104.	-0.01	14295.	1363.	8.23	0.0300	10.	41.	0.00
MILE 42.00	794.00	-129.	-0.01	18721.	1330.	6.16	0.0300	22.	44.	0.00
MILE 39.10	794.00	-160.	-0.01	18077.	1352.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.00	-173.	-0.01	31812.	1119.	7.26	0.0280	15.	43.	0.00
MILE 36.00	794.00	-175.	-0.01	19706.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.00	-176.	-0.01	29984.	1226.	9.63	0.0280	11.	45.	0.00
MILE 33.60	794.00	-179.	0.00	61913.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	-189.	-0.01	30456.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	-185.	-0.01	32067.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	-178.	0.00	35753.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	-168.	0.00	37103.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	-152.	0.00	45970.	1052.	12.00	0.0230	20.	59.	0.00
MILE 23.10	794.00	-133.	0.00	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-11-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 12.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.64	759.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.88	2021.	2.05	985.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2042.	1.99	1025.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2062.	1.77	1164.	148.	2.79	0.0330	20.	8.	0.11
MILE 71.40	805.49	2083.	1.39	1498.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.45	2102.	1.79	1171.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2120.	1.98	1072.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.21	2129.	1.03	2061.	324.	3.09	0.0320	20.	7.	0.07
MILE 63.00	794.11	2123.	0.61	3469.	341.	4.62	0.0400	20.	13.	0.03
MILE 60.90	794.04	2117.	0.46	4617.	356.	5.72	0.0450	20.	18.	0.02
MILE 58.80	794.01	111.	0.02	5746.	354.	6.14	0.0400	-1982.	21.	0.00
MILE 57.00	794.01	107.	0.02	6371.	396.	6.02	0.0200	18.	19.	0.00
MILE 55.00	794.01	101.	0.02	6480.	459.	6.51	0.0200	18.	21.	0.00
MILE 53.10	794.01	92.	0.01	8925.	565.	6.00	0.0200	19.	21.	0.00
MILE 51.00	794.01	72.	0.01	9642.	918.	6.12	0.0200	23.	25.	0.00
MILE 48.30	794.01	17.	0.00	13014.	1621.	4.91	0.0200	23.	25.	0.00
MILE 46.20	794.01	-43.	0.00	15549.	1815.	6.73	0.0200	20.	32.	0.00
MILE 44.10	794.01	-90.	0.00	27619.	1507.	8.04	0.0300	12.	39.	0.00
MILE 43.70	794.01	-96.	-0.01	14302.	1363.	8.23	0.0300	10.	41.	0.00
MILE 42.00	794.01	-117.	-0.01	18736.	1330.	6.16	0.0300	22.	44.	0.00
MILE 39.10	794.01	-144.	-0.01	18085.	1353.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.00	-151.	0.00	31825.	1120.	7.26	0.0280	15.	43.	0.00
MILE 36.00	794.00	-151.	-0.01	19712.	901.	8.34	0.0280	11.	45.	0.00

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MILE 34.60	794.00	-148.	0.00	29990.	1226.	9.63	0.0280	11.	46.	0.00
MILE 33.60	794.00	-149.	0.00	61928.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	-153.	-0.01	30460.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	-148.	0.00	32071.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	-141.	0.00	35756.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	-130.	0.00	37105.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	-112.	0.00	45972.	1052.	12.00	0.0230	20.	60.	0.00
MILE 23.10	794.00	-92.	0.00	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-11-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 13.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.64	757.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.88	2021.	2.05	985.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2043.	1.99	1026.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2063.	1.77	1165.	149.	2.79	0.0330	20.	8.	0.11
MILE 71.40	805.49	2083.	1.39	1498.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.45	2101.	1.79	1171.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2118.	1.98	1072.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.23	2129.	1.03	2069.	325.	3.10	0.0320	20.	7.	0.07
MILE 63.00	794.12	2134.	0.61	3475.	342.	4.63	0.0400	20.	13.	0.03
MILE 60.90	794.05	2142.	0.46	4622.	356.	5.73	0.0450	20.	18.	0.02
MILE 58.80	794.03	153.	0.03	5752.	354.	6.14	0.0400	-1982.	21.	0.00
MILE 57.00	794.03	163.	0.03	6377.	397.	6.02	0.0200	18.	19.	0.00
MILE 55.00	794.02	174.	0.03	6485.	459.	6.51	0.0200	18.	21.	0.00
MILE 53.10	794.02	185.	0.02	8932.	565.	6.00	0.0200	19.	21.	0.00
MILE 51.00	794.02	193.	0.02	9647.	918.	6.12	0.0200	23.	25.	0.00
MILE 48.30	794.02	192.	0.01	13024.	1622.	4.91	0.0200	23.	25.	0.00
MILE 46.20	794.02	195.	0.01	15557.	1815.	6.74	0.0200	20.	32.	0.00
MILE 44.10	794.02	194.	0.01	27628.	1507.	8.04	0.0300	12.	39.	0.00
MILE 43.70	794.02	194.	0.01	14307.	1364.	8.23	0.0300	10.	41.	0.00
MILE 42.00	794.01	198.	0.01	18744.	1331.	6.16	0.0300	22.	44.	0.00
MILE 39.10	794.01	212.	0.01	18089.	1353.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.01	225.	0.01	31832.	1120.	7.27	0.0280	15.	43.	0.00
MILE 36.00	794.01	232.	0.01	19715.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.01	242.	0.01	29993.	1226.	9.63	0.0280	11.	46.	0.00
MILE 33.60	794.01	248.	0.00	61936.	2142.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.01	259.	0.01	30463.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	270.	0.01	32073.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	279.	0.01	35758.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	295.	0.01	37106.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	315.	0.01	45972.	1052.	12.00	0.0230	20.	60.	0.00
MILE 23.10	794.00	336.	0.01	37830.	1083.	11.43	0.0230	20.	64.	0.00

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ODATE 3-11-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 14.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.66	2000.	2.64	757.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.88	2021.	2.05	985.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2041.	1.99	1025.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2061.	1.77	1165.	149.	2.79	0.0330	20.	8.	0.11
MILE 71.40	805.48	2081.	1.39	1498.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.45	2098.	1.79	1170.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2116.	1.97	1072.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.24	2135.	1.03	2071.	325.	3.10	0.0320	20.	7.	0.07
MILE 63.00	794.13	2160.	0.62	3476.	342.	4.63	0.0400	20.	13.	0.03
MILE 60.90	794.05	2189.	0.47	4622.	356.	5.73	0.0450	20.	18.	0.02
MILE 58.80	794.02	223.	0.04	5750.	354.	6.14	0.0400	-1982.	21.	0.00
MILE 57.00	794.02	252.	0.04	6375.	397.	6.02	0.0200	18.	19.	0.00
MILE 55.00	794.02	284.	0.04	6484.	459.	6.51	0.0200	18.	21.	0.00
MILE 53.10	794.02	316.	0.04	8930.	565.	6.00	0.0200	19.	21.	0.00
MILE 51.00	794.02	357.	0.04	9646.	918.	6.12	0.0200	23.	25.	0.00
MILE 48.30	794.02	431.	0.03	13021.	1622.	4.91	0.0200	23.	25.	0.00
MILE 46.20	794.02	489.	0.03	15555.	1815.	6.73	0.0200	20.	32.	0.00
MILE 44.10	794.01	550.	0.02	27626.	1507.	8.04	0.0300	12.	39.	0.00
MILE 43.70	794.01	560.	0.04	14305.	1364.	8.23	0.0300	10.	41.	0.00
MILE 42.00	794.01	600.	0.03	18741.	1331.	6.16	0.0300	22.	44.	0.00
MILE 39.10	794.01	658.	0.04	18088.	1353.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.01	693.	0.02	31830.	1120.	7.27	0.0280	15.	43.	0.00
MILE 36.00	794.01	708.	0.04	19714.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.01	729.	0.02	29992.	1226.	9.63	0.0280	11.	46.	0.00
MILE 33.60	794.01	746.	0.01	61934.	2142.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	783.	0.03	30462.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	802.	0.03	32073.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	815.	0.02	35757.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	834.	0.02	37106.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	856.	0.02	45972.	1052.	12.00	0.0230	20.	60.	0.00
MILE 23.10	794.00	876.	0.02	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-11-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 15.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.66	2000.	2.64	757.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.87	2019.	2.05	984.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2039.	1.99	1025.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2058.	1.77	1164.	148.	2.78	0.0330	20.	8.	0.11
MILE 71.40	805.48	2077.	1.39	1496.	226.	2.46	0.0400	20.	8.	0.10

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MILE 69.30	802.45	2096.	1.79	1169.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2117.	1.98	1071.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.23	2143.	1.04	2066.	324.	3.09	0.0320	20.	7.	0.07
MILE 63.00	794.11	2182.	0.63	3471.	341.	4.62	0.0400	20.	13.	0.03
MILE 60.90	794.03	2227.	0.48	4616.	356.	5.72	0.0450	20.	18.	0.02
MILE 58.80	794.01	271.	0.05	5744.	354.	6.14	0.0400	-1982.	21.	0.00
MILE 57.00	794.00	307.	0.05	6368.	396.	6.02	0.0200	18.	19.	0.00
MILE 55.00	794.00	350.	0.05	6478.	458.	6.50	0.0200	18.	21.	0.00
MILE 53.10	794.00	395.	0.04	8921.	565.	5.99	0.0200	19.	21.	0.00
MILE 51.00	794.00	457.	0.05	9638.	918.	6.11	0.0200	23.	25.	0.00
MILE 48.30	794.00	561.	0.04	13007.	1621.	4.91	0.0200	23.	25.	0.00
MILE 46.20	794.00	665.	0.04	15544.	1814.	6.73	0.0200	20.	32.	0.00
MILE 44.10	794.00	755.	0.03	27613.	1507.	8.04	0.0300	12.	39.	0.00
MILE 43.70	794.00	769.	0.05	14300.	1363.	8.23	0.0300	10.	41.	0.00
MILE 42.00	794.00	824.	0.04	18730.	1330.	6.16	0.0300	22.	44.	0.00
MILE 39.10	794.00	910.	0.05	18082.	1353.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.00	961.	0.03	31819.	1120.	7.26	0.0280	15.	43.	0.00
MILE 36.00	794.00	981.	0.05	19709.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.00	1007.	0.03	29987.	1226.	9.63	0.0280	11.	46.	0.00
MILE 33.60	794.00	1029.	0.02	61922.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	1078.	0.04	30458.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	1101.	0.03	32070.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	1115.	0.03	35755.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	1137.	0.03	37104.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	1161.	0.03	45971.	1052.	12.00	0.0230	20.	60.	0.00
MILE 23.10	794.00	1181.	0.03	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-11-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 16.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.64	758.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.87	2018.	2.05	984.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2037.	1.99	1024.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2056.	1.77	1163.	148.	2.78	0.0330	20.	8.	0.11
MILE 71.40	805.48	2075.	1.39	1495.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.44	2096.	1.79	1169.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2118.	1.98	1071.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.21	2147.	1.04	2058.	324.	3.09	0.0320	20.	7.	0.07
MILE 63.00	794.09	2189.	0.63	3463.	341.	4.62	0.0400	20.	13.	0.03
MILE 60.90	794.01	2230.	0.48	4609.	355.	5.72	0.0450	20.	17.	0.02
MILE 58.80	793.98	269.	0.05	5736.	354.	6.13	0.0400	-1982.	21.	0.00
MILE 57.00	793.99	305.	0.05	6360.	396.	6.01	0.0200	18.	19.	0.00
MILE 55.00	793.99	344.	0.05	6471.	458.	6.50	0.0200	18.	20.	0.00
MILE 53.10	793.99	384.	0.04	8910.	564.	5.99	0.0200	19.	21.	0.00
MILE 51.00	793.99	435.	0.05	9630.	917.	6.11	0.0200	23.	25.	0.00
MILE 48.30	793.99	530.	0.04	12990.	1620.	4.91	0.0200	23.	25.	0.00

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MILE 46.20	793.99	614.	0.04	15532.	1813.	6.73	0.0200	20.	32.	0.00
MILE 44.10	793.99	691.	0.03	27598.	1506.	8.04	0.0300	12.	39.	0.00
MILE 43.70	793.99	704.	0.05	14293.	1363.	8.23	0.0300	10.	41.	0.00
MILE 42.00	793.99	752.	0.04	18717.	1330.	6.16	0.0300	22.	44.	0.00
MILE 39.10	793.99	824.	0.05	18075.	1352.	7.86	0.0230	24.	43.	0.00
MILE 37.00	793.99	867.	0.03	31808.	1119.	7.26	0.0280	15.	43.	0.00
MILE 36.00	794.00	885.	0.04	19704.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.00	908.	0.03	29982.	1226.	9.63	0.0280	11.	45.	0.00
MILE 33.60	794.00	927.	0.01	61908.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	968.	0.03	30455.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	988.	0.03	32066.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	1001.	0.03	35752.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	1021.	0.03	37102.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	1044.	0.02	45970.	1052.	12.00	0.0230	20.	59.	0.00
MILE 23.10	794.00	1064.	0.03	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-11-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 17.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.64	759.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.87	2018.	2.05	984.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2037.	1.99	1024.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.07	2056.	1.77	1162.	148.	2.78	0.0330	20.	8.	0.11
MILE 71.40	805.48	2076.	1.39	1495.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.45	2097.	1.79	1169.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2119.	1.98	1071.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.19	2146.	1.05	2052.	323.	3.08	0.0320	20.	7.	0.07
MILE 63.00	794.08	2176.	0.63	3458.	341.	4.62	0.0400	20.	13.	0.03
MILE 60.90	794.00	2204.	0.48	4605.	355.	5.71	0.0450	20.	17.	0.02
MILE 58.80	793.97	230.	0.04	5732.	353.	6.13	0.0400	-1982.	21.	0.00
MILE 57.00	793.98	249.	0.04	6356.	396.	6.01	0.0200	18.	19.	0.00
MILE 55.00	793.98	271.	0.04	6467.	458.	6.50	0.0200	18.	20.	0.00
MILE 53.10	793.98	293.	0.03	8905.	564.	5.99	0.0200	19.	21.	0.00
MILE 51.00	793.98	321.	0.03	9626.	917.	6.11	0.0200	23.	25.	0.00
MILE 48.30	793.98	356.	0.03	12982.	1620.	4.91	0.0200	23.	25.	0.00
MILE 46.20	793.98	384.	0.02	15527.	1813.	6.73	0.0200	20.	32.	0.00
MILE 44.10	793.98	412.	0.01	27591.	1506.	8.04	0.0300	12.	39.	0.00
MILE 43.70	793.98	417.	0.03	14290.	1362.	8.23	0.0300	10.	41.	0.00
MILE 42.00	793.99	438.	0.02	18710.	1329.	6.16	0.0300	22.	44.	0.00
MILE 39.10	793.99	470.	0.03	18072.	1352.	7.86	0.0230	24.	43.	0.00
MILE 37.00	793.99	491.	0.02	31803.	1119.	7.26	0.0280	15.	43.	0.00
MILE 36.00	793.99	500.	0.03	19702.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	793.99	514.	0.02	29979.	1226.	9.63	0.0280	11.	45.	0.00
MILE 33.60	793.99	524.	0.01	61902.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	793.99	546.	0.02	30453.	1756.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	559.	0.02	32064.	883.	9.91	0.0200	12.	53.	0.00

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE	29.00	794.00	570.	0.02	35750.	1054.	10.78	0.0200	13.	54.	0.00
MILE	27.30	794.00	585.	0.02	37101.	1054.	11.17	0.0230	18.	57.	0.00
MILE	25.20	794.00	604.	0.01	45970.	1052.	12.00	0.0230	20.	59.	0.00
MILE	23.10	794.00	622.	0.02	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-11-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 18.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	822.68	2000.	2.63	760.	274.	2.23	0.0290	20.	4.	0.28
MILE	77.70	816.87	2019.	2.05	984.	181.	2.46	0.0400	20.	6.	0.16
MILE	75.60	810.82	2038.	1.99	1024.	164.	2.49	0.0400	20.	4.	0.14
MILE	73.50	807.08	2058.	1.77	1163.	148.	2.78	0.0330	20.	8.	0.11
MILE	71.40	805.48	2078.	1.39	1496.	226.	2.46	0.0400	20.	8.	0.10
MILE	69.30	802.45	2099.	1.79	1170.	264.	2.18	0.0340	20.	4.	0.15
MILE	67.20	797.31	2120.	1.98	1071.	265.	2.22	0.0340	20.	7.	0.17
MILE	65.10	794.19	2140.	1.04	2051.	323.	3.08	0.0320	20.	7.	0.07
MILE	63.00	794.08	2154.	0.62	3459.	341.	4.62	0.0400	20.	13.	0.03
MILE	60.90	794.01	2162.	0.47	4606.	355.	5.71	0.0450	20.	17.	0.02
MILE	58.80	793.98	166.	0.03	5735.	354.	6.13	0.0400	-1982.	21.	0.80
MILE	57.00	793.98	172.	0.03	6358.	396.	6.01	0.0200	18.	19.	0.00
MILE	55.00	793.98	177.	0.03	6469.	458.	6.50	0.0200	18.	20.	0.00
MILE	53.10	793.98	179.	0.02	8908.	564.	5.99	0.0200	19.	21.	0.00
MILE	51.00	793.98	173.	0.02	9629.	917.	6.11	0.0200	23.	25.	0.00
MILE	48.30	793.99	149.	0.01	12987.	1620.	4.91	0.0200	23.	25.	0.00
MILE	46.20	793.99	120.	0.01	15530.	1813.	6.73	0.0200	20.	32.	0.00
MILE	44.10	793.99	96.	0.00	27595.	1506.	8.04	0.0300	12.	39.	0.00
MILE	43.70	793.99	93.	0.01	14292.	1362.	8.23	0.0300	10.	41.	0.00
MILE	42.00	793.99	84.	0.00	18715.	1330.	6.16	0.0300	22.	44.	0.00
MILE	39.10	793.99	73.	0.00	18074.	1352.	7.86	0.0230	24.	43.	0.00
MILE	37.00	793.99	76.	0.00	31806.	1119.	7.26	0.0280	15.	43.	0.00
MILE	36.00	793.99	79.	0.00	19703.	901.	8.34	0.0280	11.	45.	0.00
MILE	34.60	793.99	84.	0.00	29981.	1226.	9.63	0.0280	11.	45.	0.00
MILE	33.60	794.00	85.	0.00	61906.	2141.	8.11	0.0290	15.	51.	0.00
MILE	31.50	794.00	84.	0.00	30454.	1757.	10.37	0.0250	16.	55.	0.00
MILE	30.10	794.00	90.	0.00	32065.	883.	9.91	0.0200	12.	53.	0.00
MILE	29.00	794.00	96.	0.00	35751.	1054.	10.78	0.0200	13.	54.	0.00
MILE	27.30	794.00	108.	0.00	37102.	1054.	11.17	0.0230	18.	57.	0.00
MILE	25.20	794.00	125.	0.00	45970.	1052.	12.00	0.0230	20.	59.	0.00
MILE	23.10	794.00	144.	0.00	37830.	1083.	11.43	0.0230	20.	64.	0.00

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

TIME 19.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.63	759.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.88	2020.	2.05	985.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2040.	1.99	1025.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2061.	1.77	1164.	148.	2.78	0.0330	20.	8.	0.11
MILE 71.40	805.48	2081.	1.39	1497.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.45	2101.	1.79	1171.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2120.	1.98	1072.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.20	2134.	1.04	2056.	323.	3.09	0.0320	20.	7.	0.07
MILE 63.00	794.09	2133.	0.62	3464.	341.	4.62	0.0400	20.	13.	0.03
MILE 60.90	794.02	2130.	0.46	4612.	355.	5.72	0.0450	20.	18.	0.02
MILE 58.80	794.00	126.	0.02	5741.	354.	6.14	0.0400	-1982.	21.	0.00
MILE 57.00	794.00	123.	0.02	6365.	396.	6.02	0.0200	18.	19.	0.00
MILE 55.00	794.00	117.	0.02	6475.	458.	6.50	0.0200	18.	20.	0.00
MILE 53.10	794.00	110.	0.01	8918.	565.	5.99	0.0200	19.	21.	0.00
MILE 51.00	794.00	91.	0.01	9636.	918.	6.11	0.0200	23.	25.	0.00
MILE 48.30	794.00	38.	0.00	13002.	1621.	4.91	0.0200	23.	25.	0.00
MILE 46.20	794.00	-18.	0.00	15541.	1814.	6.73	0.0200	20.	32.	0.00
MILE 44.10	794.00	-67.	0.00	27609.	1506.	8.04	0.0300	12.	39.	0.00
MILE 43.70	794.00	-73.	-0.01	14298.	1363.	8.23	0.0300	10.	41.	0.00
MILE 42.00	794.00	-93.	0.00	18726.	1330.	6.16	0.0300	22.	44.	0.00
MILE 39.10	794.00	-118.	-0.01	18080.	1353.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.00	-128.	0.00	31817.	1120.	7.26	0.0280	15.	43.	0.00
MILE 36.00	794.00	-128.	-0.01	19708.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.00	-127.	0.00	29986.	1226.	9.63	0.0280	11.	45.	0.00
MILE 33.60	794.00	-129.	0.00	61919.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	-134.	0.00	30458.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	-128.	0.00	32069.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	-121.	0.00	35754.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	-110.	0.00	37104.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	-93.	0.00	45971.	1052.	12.00	0.0230	20.	59.	0.00
MILE 23.10	794.00	-73.	0.00	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-11-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 20.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.64	758.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.88	2021.	2.05	985.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2042.	1.99	1025.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2063.	1.77	1165.	148.	2.79	0.0330	20.	8.	0.11
MILE 71.40	805.49	2083.	1.39	1498.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.45	2101.	1.79	1171.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2119.	1.98	1072.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.22	2130.	1.03	2064.	324.	3.09	0.0320	20.	7.	0.07

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Appendix F		Checked	ACM

MILE	63.00	794.11	2129.	0.61	3471.	341.	4.62	0.0400	20.	13.	0.03
MILE	60.90	794.04	2129.	0.46	4618.	356.	5.72	0.0450	20.	18.	0.02
MILE	58.80	794.02	131.	0.02	5748.	354.	6.14	0.0400	-1982.	21.	0.00
MILE	57.00	794.02	133.	0.02	6373.	396.	6.02	0.0200	18.	19.	0.00
MILE	55.00	794.02	134.	0.02	6481.	459.	6.51	0.0200	18.	21.	0.00
MILE	53.10	794.01	133.	0.01	8927.	565.	6.00	0.0200	19.	21.	0.00
MILE	51.00	794.01	125.	0.01	9643.	918.	6.12	0.0200	23.	25.	0.00
MILE	48.30	794.01	95.	0.01	13017.	1621.	4.91	0.0200	23.	25.	0.00
MILE	46.20	794.01	59.	0.00	15552.	1815.	6.73	0.0200	20.	32.	0.00
MILE	44.10	794.01	34.	0.00	27622.	1507.	8.04	0.0300	12.	39.	0.00
MILE	43.70	794.01	31.	0.00	14304.	1363.	8.23	0.0300	10.	41.	0.00
MILE	42.00	794.01	21.	0.00	18738.	1330.	6.16	0.0300	22.	44.	0.00
MILE	39.10	794.01	9.	0.00	18086.	1353.	7.86	0.0230	24.	43.	0.00
MILE	37.00	794.01	12.	0.00	31826.	1120.	7.26	0.0280	15.	43.	0.00
MILE	36.00	794.01	16.	0.00	19713.	901.	8.34	0.0280	11.	45.	0.00
MILE	34.60	794.00	21.	0.00	29991.	1226.	9.63	0.0280	11.	46.	0.00
MILE	33.60	794.00	24.	0.00	61930.	2142.	8.11	0.0290	15.	51.	0.00
MILE	31.50	794.00	26.	0.00	30461.	1757.	10.37	0.0250	16.	55.	0.00
MILE	30.10	794.00	34.	0.00	32072.	883.	9.91	0.0200	12.	53.	0.00
MILE	29.00	794.00	41.	0.00	35756.	1054.	10.78	0.0200	13.	54.	0.00
MILE	27.30	794.00	54.	0.00	37105.	1054.	11.17	0.0230	18.	57.	0.00
MILE	25.20	794.00	73.	0.00	45972.	1052.	12.00	0.0230	20.	60.	0.00
MILE	23.10	794.00	93.	0.00	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-11-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 21.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	822.67	2000.	2.64	757.	274.	2.23	0.0290	20.	4.	0.28
MILE	77.70	816.88	2021.	2.05	985.	181.	2.46	0.0400	20.	6.	0.16
MILE	75.60	810.82	2042.	1.99	1025.	164.	2.49	0.0400	20.	4.	0.14
MILE	73.50	807.08	2062.	1.77	1165.	149.	2.79	0.0330	20.	8.	0.11
MILE	71.40	805.49	2082.	1.39	1498.	226.	2.46	0.0400	20.	8.	0.10
MILE	69.30	802.45	2100.	1.79	1171.	264.	2.18	0.0340	20.	4.	0.15
MILE	67.20	797.31	2117.	1.98	1072.	265.	2.22	0.0340	20.	7.	0.17
MILE	65.10	794.23	2131.	1.03	2069.	325.	3.10	0.0320	20.	7.	0.07
MILE	63.00	794.12	2144.	0.62	3475.	342.	4.63	0.0400	20.	13.	0.03
MILE	60.90	794.05	2160.	0.47	4621.	356.	5.73	0.0450	20.	18.	0.02
MILE	58.80	794.02	179.	0.03	5751.	354.	6.14	0.0400	-1982.	21.	0.00
MILE	57.00	794.02	196.	0.03	6376.	397.	6.02	0.0200	18.	19.	0.00
MILE	55.00	794.02	215.	0.03	6484.	459.	6.51	0.0200	18.	21.	0.00
MILE	53.10	794.02	233.	0.03	8930.	565.	6.00	0.0200	19.	21.	0.00
MILE	51.00	794.02	254.	0.03	9646.	918.	6.12	0.0200	23.	25.	0.00
MILE	48.30	794.02	279.	0.02	13022.	1622.	4.91	0.0200	23.	25.	0.00
MILE	46.20	794.02	304.	0.02	15555.	1815.	6.73	0.0200	20.	32.	0.00
MILE	44.10	794.01	323.	0.01	27626.	1507.	8.04	0.0300	12.	39.	0.00
MILE	43.70	794.01	327.	0.02	14306.	1364.	8.23	0.0300	10.	41.	0.00

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 42.00	794.01	344.	0.02	18742.	1331.	6.16	0.0300	22.	44.	0.00
MILE 39.10	794.01	375.	0.02	18088.	1353.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.01	395.	0.01	31830.	1120.	7.27	0.0280	15.	43.	0.00
MILE 36.00	794.01	405.	0.02	19714.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.01	418.	0.01	29992.	1226.	9.63	0.0280	11.	46.	0.00
MILE 33.60	794.01	427.	0.01	61934.	2142.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	448.	0.01	30462.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	462.	0.01	32073.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	473.	0.01	35757.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	490.	0.01	37106.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	511.	0.01	45972.	1052.	12.00	0.0230	20.	60.	0.00
MILE 23.10	794.00	530.	0.01	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-11-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 22.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.66	2000.	2.64	757.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.88	2020.	2.05	985.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2040.	1.99	1025.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2060.	1.77	1164.	148.	2.79	0.0330	20.	8.	0.11
MILE 71.40	805.48	2079.	1.39	1497.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.45	2098.	1.79	1170.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2117.	1.98	1072.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.23	2138.	1.03	2069.	325.	3.10	0.0320	20.	7.	0.07
MILE 63.00	794.12	2168.	0.62	3473.	342.	4.63	0.0400	20.	13.	0.03
MILE 60.90	794.04	2201.	0.48	4619.	356.	5.72	0.0450	20.	18.	0.02
MILE 58.80	794.02	238.	0.04	5748.	354.	6.14	0.0400	-1982.	21.	0.00
MILE 57.00	794.01	268.	0.04	6372.	396.	6.02	0.0200	18.	19.	0.00
MILE 55.00	794.01	304.	0.05	6481.	459.	6.51	0.0200	18.	21.	0.00
MILE 53.10	794.01	339.	0.04	8926.	565.	6.00	0.0200	19.	21.	0.00
MILE 51.00	794.01	385.	0.04	9643.	918.	6.12	0.0200	23.	25.	0.00
MILE 48.30	794.01	467.	0.04	13015.	1621.	4.91	0.0200	23.	25.	0.00
MILE 46.20	794.01	536.	0.03	15550.	1815.	6.73	0.0200	20.	32.	0.00
MILE 44.10	794.01	605.	0.02	27620.	1507.	8.04	0.0300	12.	39.	0.00
MILE 43.70	794.01	616.	0.04	14303.	1363.	8.23	0.0300	10.	41.	0.00
MILE 42.00	794.01	660.	0.04	18737.	1330.	6.16	0.0300	22.	44.	0.00
MILE 39.10	794.01	724.	0.04	18085.	1353.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.01	764.	0.02	31825.	1120.	7.26	0.0280	15.	43.	0.00
MILE 36.00	794.00	781.	0.04	19712.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.00	803.	0.03	29990.	1226.	9.63	0.0280	11.	46.	0.00
MILE 33.60	794.00	821.	0.01	61929.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	861.	0.03	30461.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	881.	0.03	32071.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	894.	0.03	35756.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	914.	0.02	37105.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	936.	0.02	45972.	1052.	12.00	0.0230	20.	60.	0.00

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 58 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 23.10 794.00 956. 0.03 37830. 1083. 11.43 0.0230 20. 64. 0.00

ODATE 3-11-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 23.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.64	757.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.87	2019.	2.05	984.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2038.	1.99	1024.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2058.	1.77	1163.	148.	2.78	0.0330	20.	8.	0.11
MILE 71.40	805.48	2077.	1.39	1496.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.45	2096.	1.79	1169.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2117.	1.98	1071.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.22	2144.	1.04	2063.	324.	3.09	0.0320	20.	7.	0.07
MILE 63.00	794.10	2183.	0.63	3468.	341.	4.62	0.0400	20.	13.	0.03
MILE 60.90	794.03	2225.	0.48	4613.	356.	5.72	0.0450	20.	18.	0.02
MILE 58.80	794.00	266.	0.05	5741.	354.	6.14	0.0400	-1982.	21.	0.00
MILE 57.00	794.00	300.	0.05	6365.	396.	6.02	0.0200	18.	19.	0.00
MILE 55.00	794.00	340.	0.05	6475.	458.	6.50	0.0200	18.	20.	0.00
MILE 53.10	794.00	381.	0.04	8917.	565.	5.99	0.0200	19.	21.	0.00
MILE 51.00	794.00	438.	0.05	9635.	918.	6.11	0.0200	23.	25.	0.00
MILE 48.30	794.00	532.	0.04	13001.	1621.	4.91	0.0200	23.	25.	0.00
MILE 46.20	794.00	626.	0.04	15540.	1814.	6.73	0.0200	20.	32.	0.00
MILE 44.10	794.00	705.	0.03	27607.	1506.	8.04	0.0300	12.	39.	0.00
MILE 43.70	794.00	718.	0.05	14297.	1363.	8.23	0.0300	10.	41.	0.00
MILE 42.00	794.00	768.	0.04	18725.	1330.	6.16	0.0300	22.	44.	0.00
MILE 39.10	794.00	847.	0.05	18079.	1353.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.00	893.	0.03	31815.	1120.	7.26	0.0280	15.	43.	0.00
MILE 36.00	794.00	911.	0.05	19707.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.00	935.	0.03	29985.	1226.	9.63	0.0280	11.	45.	0.00
MILE 33.60	794.00	955.	0.02	61917.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	999.	0.03	30457.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	1021.	0.03	32068.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	1035.	0.03	35754.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	1057.	0.03	37103.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	1079.	0.02	45971.	1052.	12.00	0.0230	20.	59.	0.00
MILE 23.10	794.00	1099.	0.03	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-12-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 0.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80 822.67 2000. 2.64 758. 274. 2.23 0.0290 20. 4. 0.28

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 59 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 77.70	816.87	2018.	2.05	984.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2037.	1.99	1024.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2056.	1.77	1163.	148.	2.78	0.0330	20.	8.	0.11
MILE 71.40	805.48	2076.	1.39	1495.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.44	2097.	1.79	1169.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2118.	1.98	1071.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.20	2146.	1.04	2056.	323.	3.09	0.0320	20.	7.	0.07
MILE 63.00	794.09	2182.	0.63	3462.	341.	4.62	0.0400	20.	13.	0.03
MILE 60.90	794.01	2217.	0.48	4608.	355.	5.72	0.0450	20.	17.	0.02
MILE 58.80	793.98	251.	0.04	5735.	354.	6.13	0.0400	-1982.	21.	0.00
MILE 57.00	793.98	280.	0.04	6359.	396.	6.01	0.0200	18.	19.	0.00
MILE 55.00	793.98	313.	0.05	6470.	458.	6.50	0.0200	18.	20.	0.00
MILE 53.10	793.98	345.	0.04	8909.	564.	5.99	0.0200	19.	21.	0.00
MILE 51.00	793.99	386.	0.04	9629.	917.	6.11	0.0200	23.	25.	0.00
MILE 48.30	793.99	457.	0.04	12988.	1620.	4.91	0.0200	23.	25.	0.00
MILE 46.20	793.99	516.	0.03	15531.	1813.	6.73	0.0200	20.	32.	0.00
MILE 44.10	793.99	574.	0.02	27596.	1506.	8.04	0.0300	12.	39.	0.00
MILE 43.70	793.99	584.	0.04	14293.	1362.	8.23	0.0300	10.	41.	0.00
MILE 42.00	793.99	621.	0.03	18715.	1330.	6.16	0.0300	22.	44.	0.00
MILE 39.10	793.99	675.	0.04	18074.	1352.	7.86	0.0230	24.	43.	0.00
MILE 37.00	793.99	710.	0.02	31807.	1119.	7.26	0.0280	15.	43.	0.00
MILE 36.00	793.99	725.	0.04	19704.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.00	744.	0.02	29981.	1226.	9.63	0.0280	11.	45.	0.00
MILE 33.60	794.00	759.	0.01	61907.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	792.	0.03	30454.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	809.	0.03	32066.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	821.	0.02	35751.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	839.	0.02	37102.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	860.	0.02	45970.	1052.	12.00	0.0230	20.	59.	0.00
MILE 23.10	794.00	880.	0.02	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-12-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 1.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.63	759.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.87	2019.	2.05	984.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2037.	1.99	1024.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2057.	1.77	1163.	148.	2.78	0.0330	20.	8.	0.11
MILE 71.40	805.48	2077.	1.39	1495.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.45	2098.	1.79	1170.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2120.	1.98	1071.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.19	2144.	1.04	2052.	323.	3.08	0.0320	20.	7.	0.07
MILE 63.00	794.08	2167.	0.63	3459.	341.	4.62	0.0400	20.	13.	0.03
MILE 60.90	794.00	2189.	0.48	4606.	355.	5.71	0.0450	20.	17.	0.02
MILE 58.80	793.98	207.	0.04	5734.	354.	6.13	0.0400	-1982.	21.	0.00
MILE 57.00	793.98	221.	0.03	6357.	396.	6.01	0.0200	18.	19.	0.00

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Appendix F		Checked	ACM

MILE 55.00	793.98	237.	0.04	6468.	458.	6.50	0.0200	18.	20.	0.00
MILE 53.10	793.98	252.	0.03	8907.	564.	5.99	0.0200	19.	21.	0.00
MILE 51.00	793.98	268.	0.03	9628.	917.	6.11	0.0200	23.	25.	0.00
MILE 48.30	793.98	282.	0.02	12985.	1620.	4.91	0.0200	23.	25.	0.00
MILE 46.20	793.99	292.	0.02	15529.	1813.	6.73	0.0200	20.	32.	0.00
MILE 44.10	793.99	301.	0.01	27593.	1506.	8.04	0.0300	12.	39.	0.00
MILE 43.70	793.99	303.	0.02	14291.	1362.	8.23	0.0300	10.	41.	0.00
MILE 42.00	793.99	313.	0.02	18713.	1329.	6.16	0.0300	22.	44.	0.00
MILE 39.10	793.99	332.	0.02	18073.	1352.	7.86	0.0230	24.	43.	0.00
MILE 37.00	793.99	345.	0.01	31805.	1119.	7.26	0.0280	15.	43.	0.00
MILE 36.00	793.99	352.	0.02	19703.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	793.99	363.	0.01	29980.	1226.	9.63	0.0280	11.	45.	0.00
MILE 33.60	793.99	370.	0.01	61905.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	384.	0.01	30454.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	395.	0.01	32065.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	405.	0.01	35751.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	419.	0.01	37102.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	437.	0.01	45970.	1052.	12.00	0.0230	20.	59.	0.00
MILE 23.10	794.00	455.	0.01	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-12-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 2.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.63	759.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.88	2019.	2.05	984.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2039.	1.99	1024.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2059.	1.77	1163.	148.	2.78	0.0330	20.	8.	0.11
MILE 71.40	805.48	2079.	1.39	1496.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.45	2100.	1.79	1170.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2120.	1.98	1072.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.19	2138.	1.04	2053.	323.	3.08	0.0320	20.	7.	0.07
MILE 63.00	794.08	2147.	0.62	3461.	341.	4.62	0.0400	20.	13.	0.03
MILE 60.90	794.01	2152.	0.47	4608.	355.	5.72	0.0450	20.	17.	0.02
MILE 58.80	793.99	154.	0.03	5737.	354.	6.13	0.0400	-1982.	21.	0.00
MILE 57.00	793.99	158.	0.02	6361.	396.	6.02	0.0200	18.	19.	0.00
MILE 55.00	793.99	161.	0.02	6472.	458.	6.50	0.0200	18.	20.	0.00
MILE 53.10	793.99	160.	0.02	8912.	564.	5.99	0.0200	19.	21.	0.00
MILE 51.00	793.99	152.	0.02	9632.	917.	6.11	0.0200	23.	25.	0.00
MILE 48.30	793.99	122.	0.01	12993.	1620.	4.91	0.0200	23.	25.	0.00
MILE 46.20	793.99	86.	0.01	15535.	1814.	6.73	0.0200	20.	32.	0.00
MILE 44.10	793.99	58.	0.00	27601.	1506.	8.04	0.0300	12.	39.	0.00
MILE 43.70	793.99	54.	0.00	14295.	1363.	8.23	0.0300	10.	41.	0.00
MILE 42.00	793.99	42.	0.00	18719.	1330.	6.16	0.0300	22.	44.	0.00
MILE 39.10	794.00	28.	0.00	18076.	1352.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.00	29.	0.00	31811.	1119.	7.26	0.0280	15.	43.	0.00
MILE 36.00	794.00	31.	0.00	19705.	901.	8.34	0.0280	11.	45.	0.00

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 61 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
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MILE 34.60	794.00	36.	0.00	29983.	1226.	9.63	0.0280	11.	45.	0.00
MILE 33.60	794.00	36.	0.00	61911.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	34.	0.00	30456.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	40.	0.00	32067.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	47.	0.00	35752.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	58.	0.00	37103.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	75.	0.00	45970.	1052.	12.00	0.0230	20.	59.	0.00
MILE 23.10	794.00	95.	0.00	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-12-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 3.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.64	759.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.88	2020.	2.05	985.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2041.	1.99	1025.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2061.	1.77	1164.	148.	2.79	0.0330	20.	8.	0.11
MILE 71.40	805.48	2081.	1.39	1497.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.45	2101.	1.79	1171.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2120.	1.98	1072.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.21	2133.	1.04	2059.	324.	3.09	0.0320	20.	7.	0.07
MILE 63.00	794.10	2133.	0.62	3466.	341.	4.62	0.0400	20.	13.	0.03
MILE 60.90	794.03	2133.	0.46	4614.	356.	5.72	0.0450	20.	18.	0.02
MILE 58.80	794.00	132.	0.02	5743.	354.	6.14	0.0400	-1982.	21.	0.00
MILE 57.00	794.00	132.	0.02	6368.	396.	6.02	0.0200	18.	19.	0.00
MILE 55.00	794.00	130.	0.02	6477.	458.	6.50	0.0200	18.	21.	0.00
MILE 53.10	794.00	127.	0.01	8921.	565.	5.99	0.0200	19.	21.	0.00
MILE 51.00	794.00	114.	0.01	9639.	918.	6.11	0.0200	23.	25.	0.00
MILE 48.30	794.00	73.	0.01	13007.	1621.	4.91	0.0200	23.	25.	0.00
MILE 46.20	794.00	29.	0.00	15545.	1814.	6.73	0.0200	20.	32.	0.00
MILE 44.10	794.00	-8.	0.00	27613.	1507.	8.04	0.0300	12.	39.	0.00
MILE 43.70	794.00	-13.	0.00	14300.	1363.	8.23	0.0300	10.	41.	0.00
MILE 42.00	794.00	-28.	0.00	18730.	1330.	6.16	0.0300	22.	44.	0.00
MILE 39.10	794.00	-43.	0.00	18082.	1353.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.00	-48.	0.00	31820.	1120.	7.26	0.0280	15.	43.	0.00
MILE 36.00	794.00	-47.	0.00	19710.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.00	-44.	0.00	29987.	1226.	9.63	0.0280	11.	46.	0.00
MILE 33.60	794.00	-43.	0.00	61923.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	-43.	0.00	30459.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	-36.	0.00	32070.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	-28.	0.00	35755.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	-16.	0.00	37104.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	2.	0.00	45971.	1052.	12.00	0.0230	20.	60.	0.00
MILE 23.10	794.00	22.	0.00	37830.	1083.	11.43	0.0230	20.	64.	0.00

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 62 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

0DATE 3-12-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 4.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.64	758.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.88	2021.	2.05	985.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2042.	1.99	1025.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2062.	1.77	1165.	148.	2.79	0.0330	20.	8.	0.11
MILE 71.40	805.49	2082.	1.39	1498.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.45	2101.	1.79	1171.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2118.	1.98	1072.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.23	2131.	1.03	2065.	324.	3.09	0.0320	20.	7.	0.07
MILE 63.00	794.12	2136.	0.62	3472.	341.	4.62	0.0400	20.	13.	0.03
MILE 60.90	794.04	2142.	0.46	4619.	356.	5.72	0.0450	20.	18.	0.02
MILE 58.80	794.02	151.	0.03	5748.	354.	6.14	0.0400	-1982.	21.	0.00
MILE 57.00	794.02	159.	0.02	6373.	396.	6.02	0.0200	18.	19.	0.00
MILE 55.00	794.02	167.	0.03	6482.	459.	6.51	0.0200	18.	21.	0.00
MILE 53.10	794.02	174.	0.02	8928.	565.	6.00	0.0200	19.	21.	0.00
MILE 51.00	794.01	177.	0.02	9644.	918.	6.12	0.0200	23.	25.	0.00
MILE 48.30	794.01	170.	0.01	13018.	1621.	4.91	0.0200	23.	25.	0.00
MILE 46.20	794.01	157.	0.01	15552.	1815.	6.73	0.0200	20.	32.	0.00
MILE 44.10	794.01	151.	0.01	27622.	1507.	8.04	0.0300	12.	39.	0.00
MILE 43.70	794.01	151.	0.01	14304.	1364.	8.23	0.0300	10.	41.	0.00
MILE 42.00	794.01	152.	0.01	18739.	1330.	6.16	0.0300	22.	44.	0.00
MILE 39.10	794.01	156.	0.01	18086.	1353.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.01	166.	0.01	31827.	1120.	7.26	0.0280	15.	43.	0.00
MILE 36.00	794.01	172.	0.01	19713.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.00	181.	0.01	29991.	1226.	9.63	0.0280	11.	46.	0.00
MILE 33.60	794.00	187.	0.00	61931.	2142.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	196.	0.01	30461.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	206.	0.01	32072.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	214.	0.01	35757.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	228.	0.01	37105.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	247.	0.01	45972.	1052.	12.00	0.0230	20.	60.	0.00
MILE 23.10	794.00	268.	0.01	37830.	1083.	11.43	0.0230	20.	64.	0.00

0DATE 3-12-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 5.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.64	757.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.88	2021.	2.05	985.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2041.	1.99	1025.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2062.	1.77	1165.	148.	2.79	0.0330	20.	8.	0.11
MILE 71.40	805.48	2081.	1.39	1498.	226.	2.46	0.0400	20.	8.	0.10

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 69.30	802.45	2099.	1.79	1170.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2117.	1.98	1072.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.23	2134.	1.03	2068.	325.	3.10	0.0320	20.	7.	0.07
MILE 63.00	794.12	2153.	0.62	3474.	342.	4.63	0.0400	20.	13.	0.03
MILE 60.90	794.05	2175.	0.47	4620.	356.	5.72	0.0450	20.	18.	0.02
MILE 58.80	794.02	200.	0.03	5749.	354.	6.14	0.0400	-1982.	21.	0.00
MILE 57.00	794.02	222.	0.03	6374.	396.	6.02	0.0200	18.	19.	0.00
MILE 55.00	794.02	246.	0.04	6482.	459.	6.51	0.0200	18.	21.	0.00
MILE 53.10	794.02	271.	0.03	8928.	565.	6.00	0.0200	19.	21.	0.00
MILE 51.00	794.02	300.	0.03	9644.	918.	6.12	0.0200	23.	25.	0.00
MILE 48.30	794.01	343.	0.03	13018.	1621.	4.91	0.0200	23.	25.	0.00
MILE 46.20	794.01	385.	0.02	15553.	1815.	6.73	0.0200	20.	32.	0.00
MILE 44.10	794.01	420.	0.02	27623.	1507.	8.04	0.0300	12.	39.	0.00
MILE 43.70	794.01	426.	0.03	14304.	1364.	8.23	0.0300	10.	41.	0.00
MILE 42.00	794.01	451.	0.02	18739.	1330.	6.16	0.0300	22.	44.	0.00
MILE 39.10	794.01	494.	0.03	18087.	1353.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.01	520.	0.02	31828.	1120.	7.26	0.0280	15.	43.	0.00
MILE 36.00	794.01	532.	0.03	19713.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.01	548.	0.02	29991.	1226.	9.63	0.0280	11.	46.	0.00
MILE 33.60	794.00	561.	0.01	61932.	2142.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	588.	0.02	30461.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	604.	0.02	32072.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	616.	0.02	35757.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	634.	0.02	37105.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	655.	0.01	45972.	1052.	12.00	0.0230	20.	60.	0.00
MILE 23.10	794.00	675.	0.02	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-12-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 6.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.66	2000.	2.64	757.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.88	2020.	2.05	984.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2040.	1.99	1025.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2059.	1.77	1164.	148.	2.79	0.0330	20.	8.	0.11
MILE 71.40	805.48	2078.	1.39	1497.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.45	2097.	1.79	1170.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2117.	1.98	1072.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.23	2140.	1.04	2066.	324.	3.09	0.0320	20.	7.	0.07
MILE 63.00	794.11	2172.	0.63	3471.	341.	4.62	0.0400	20.	13.	0.03
MILE 60.90	794.04	2208.	0.48	4617.	356.	5.72	0.0450	20.	18.	0.02
MILE 58.80	794.01	245.	0.04	5745.	354.	6.14	0.0400	-1982.	21.	0.00
MILE 57.00	794.01	276.	0.04	6370.	396.	6.02	0.0200	18.	19.	0.00
MILE 55.00	794.01	312.	0.05	6479.	459.	6.51	0.0200	18.	21.	0.00
MILE 53.10	794.01	348.	0.04	8923.	565.	5.99	0.0200	19.	21.	0.00
MILE 51.00	794.01	395.	0.04	9640.	918.	6.11	0.0200	23.	25.	0.00
MILE 48.30	794.01	479.	0.04	13009.	1621.	4.91	0.0200	23.	25.	0.00

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MILE 46.20	794.01	551.	0.04	15546.	1814.	6.73	0.0200	20.	32.	0.00
MILE 44.10	794.01	622.	0.02	27615.	1507.	8.04	0.0300	12.	39.	0.00
MILE 43.70	794.00	634.	0.04	14301.	1363.	8.23	0.0300	10.	41.	0.00
MILE 42.00	794.00	678.	0.04	18732.	1330.	6.16	0.0300	22.	44.	0.00
MILE 39.10	794.00	744.	0.04	18083.	1353.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.00	785.	0.02	31821.	1120.	7.26	0.0280	15.	43.	0.00
MILE 36.00	794.00	802.	0.04	19710.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.00	825.	0.03	29988.	1226.	9.63	0.0280	11.	46.	0.00
MILE 33.60	794.00	843.	0.01	61924.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	884.	0.03	30459.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	903.	0.03	32070.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	917.	0.03	35755.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	936.	0.03	37104.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	958.	0.02	45971.	1052.	12.00	0.0230	20.	60.	0.00
MILE 23.10	794.00	979.	0.03	37830.	1083.	11.43	0.0230	20.	64.	0.00

0DATE 3-12-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 7.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.64	757.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.87	2019.	2.05	984.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2038.	1.99	1024.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2057.	1.77	1163.	148.	2.78	0.0330	20.	8.	0.11
MILE 71.40	805.48	2077.	1.39	1496.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.45	2097.	1.79	1169.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2118.	1.98	1071.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.21	2144.	1.04	2061.	324.	3.09	0.0320	20.	7.	0.07
MILE 63.00	794.10	2181.	0.63	3466.	341.	4.62	0.0400	20.	13.	0.03
MILE 60.90	794.02	2219.	0.48	4611.	355.	5.72	0.0450	20.	18.	0.02
MILE 58.80	793.99	256.	0.04	5739.	354.	6.13	0.0400	-1982.	21.	0.00
MILE 57.00	793.99	287.	0.05	6363.	396.	6.02	0.0200	18.	19.	0.00
MILE 55.00	793.99	324.	0.05	6473.	458.	6.50	0.0200	18.	20.	0.00
MILE 53.10	793.99	361.	0.04	8914.	564.	5.99	0.0200	19.	21.	0.00
MILE 51.00	793.99	410.	0.04	9633.	917.	6.11	0.0200	23.	25.	0.00
MILE 48.30	793.99	491.	0.04	12997.	1620.	4.91	0.0200	23.	25.	0.00
MILE 46.20	793.99	570.	0.04	15537.	1814.	6.73	0.0200	20.	32.	0.00
MILE 44.10	794.00	638.	0.02	27604.	1506.	8.04	0.0300	12.	39.	0.00
MILE 43.70	794.00	649.	0.05	14296.	1363.	8.23	0.0300	10.	41.	0.00
MILE 42.00	794.00	692.	0.04	18722.	1330.	6.16	0.0300	22.	44.	0.00
MILE 39.10	794.00	761.	0.04	18078.	1352.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.00	801.	0.03	31813.	1119.	7.26	0.0280	15.	43.	0.00
MILE 36.00	794.00	817.	0.04	19706.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.00	839.	0.03	29984.	1226.	9.63	0.0280	11.	45.	0.00
MILE 33.60	794.00	856.	0.01	61914.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	895.	0.03	30456.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	915.	0.03	32067.	883.	9.91	0.0200	12.	53.	0.00

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 65 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
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MILE	29.00	794.00	929.	0.03	35753.	1054.	10.78	0.0200	13.	54.	0.00
MILE	27.30	794.00	949.	0.03	37103.	1054.	11.17	0.0230	18.	57.	0.00
MILE	25.20	794.00	970.	0.02	45970.	1052.	12.00	0.0230	20.	59.	0.00
MILE	23.10	794.00	990.	0.03	37830.	1083.	11.43	0.0230	20.	64.	0.00

0DATE 3-12-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 8.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	822.67	2000.	2.64	758.	274.	2.23	0.0290	20.	4.	0.28
MILE	77.70	816.87	2019.	2.05	984.	181.	2.46	0.0400	20.	6.	0.16
MILE	75.60	810.82	2037.	1.99	1024.	164.	2.49	0.0400	20.	4.	0.14
MILE	73.50	807.08	2056.	1.77	1163.	148.	2.78	0.0330	20.	8.	0.11
MILE	71.40	805.48	2076.	1.39	1495.	226.	2.46	0.0400	20.	8.	0.10
MILE	69.30	802.45	2097.	1.79	1169.	264.	2.18	0.0340	20.	4.	0.15
MILE	67.20	797.31	2119.	1.98	1071.	265.	2.22	0.0340	20.	7.	0.17
MILE	65.10	794.20	2145.	1.04	2055.	323.	3.08	0.0320	20.	7.	0.07
MILE	63.00	794.08	2176.	0.63	3461.	341.	4.62	0.0400	20.	13.	0.03
MILE	60.90	794.01	2205.	0.48	4607.	355.	5.71	0.0450	20.	17.	0.02
MILE	58.80	793.98	233.	0.04	5735.	354.	6.13	0.0400	-1982.	21.	0.00
MILE	57.00	793.98	256.	0.04	6359.	396.	6.01	0.0200	18.	19.	0.00
MILE	55.00	793.98	283.	0.04	6470.	458.	6.50	0.0200	18.	20.	0.00
MILE	53.10	793.98	308.	0.03	8909.	564.	5.99	0.0200	19.	21.	0.00
MILE	51.00	793.99	339.	0.04	9629.	917.	6.11	0.0200	23.	25.	0.00
MILE	48.30	793.99	388.	0.03	12988.	1620.	4.91	0.0200	23.	25.	0.00
MILE	46.20	793.99	427.	0.03	15531.	1813.	6.73	0.0200	20.	32.	0.00
MILE	44.10	793.99	467.	0.02	27596.	1506.	8.04	0.0300	12.	39.	0.00
MILE	43.70	793.99	474.	0.03	14293.	1362.	8.23	0.0300	10.	41.	0.00
MILE	42.00	793.99	500.	0.03	18715.	1330.	6.16	0.0300	22.	44.	0.00
MILE	39.10	793.99	540.	0.03	18074.	1352.	7.86	0.0230	24.	43.	0.00
MILE	37.00	793.99	568.	0.02	31807.	1119.	7.26	0.0280	15.	43.	0.00
MILE	36.00	793.99	580.	0.03	19704.	901.	8.34	0.0280	11.	45.	0.00
MILE	34.60	794.00	596.	0.02	29981.	1226.	9.63	0.0280	11.	45.	0.00
MILE	33.60	794.00	608.	0.01	61907.	2141.	8.11	0.0290	15.	51.	0.00
MILE	31.50	794.00	633.	0.02	30454.	1757.	10.37	0.0250	16.	55.	0.00
MILE	30.10	794.00	648.	0.02	32066.	883.	9.91	0.0200	12.	53.	0.00
MILE	29.00	794.00	659.	0.02	35751.	1054.	10.78	0.0200	13.	54.	0.00
MILE	27.30	794.00	675.	0.02	37102.	1054.	11.17	0.0230	18.	57.	0.00
MILE	25.20	794.00	695.	0.02	45970.	1052.	12.00	0.0230	20.	59.	0.00
MILE	23.10	794.00	714.	0.02	37830.	1083.	11.43	0.0230	20.	64.	0.00

0DATE 3-12-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 66 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

TIME 9.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.63	759.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.87	2019.	2.05	984.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2038.	1.99	1024.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2057.	1.77	1163.	148.	2.78	0.0330	20.	8.	0.11
MILE 71.40	805.48	2078.	1.39	1496.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.45	2099.	1.79	1170.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2120.	1.98	1071.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.19	2141.	1.04	2053.	323.	3.08	0.0320	20.	7.	0.07
MILE 63.00	794.08	2160.	0.62	3460.	341.	4.62	0.0400	20.	13.	0.03
MILE 60.90	794.01	2176.	0.47	4607.	355.	5.71	0.0450	20.	17.	0.02
MILE 58.80	793.98	188.	0.03	5735.	354.	6.13	0.0400	-1982.	21.	0.00
MILE 57.00	793.98	199.	0.03	6359.	396.	6.01	0.0200	18.	19.	0.00
MILE 55.00	793.98	211.	0.03	6470.	458.	6.50	0.0200	18.	20.	0.00
MILE 53.10	793.99	221.	0.02	8909.	564.	5.99	0.0200	19.	21.	0.00
MILE 51.00	793.99	229.	0.02	9629.	917.	6.11	0.0200	23.	25.	0.00
MILE 48.30	793.99	228.	0.02	12989.	1620.	4.91	0.0200	23.	25.	0.00
MILE 46.20	793.99	224.	0.01	15532.	1813.	6.73	0.0200	20.	32.	0.00
MILE 44.10	793.99	221.	0.01	27597.	1506.	8.04	0.0300	12.	39.	0.00
MILE 43.70	793.99	221.	0.02	14293.	1363.	8.23	0.0300	10.	41.	0.00
MILE 42.00	793.99	224.	0.01	18716.	1330.	6.16	0.0300	22.	44.	0.00
MILE 39.10	793.99	233.	0.01	18075.	1352.	7.86	0.0230	24.	43.	0.00
MILE 37.00	793.99	242.	0.01	31807.	1119.	7.26	0.0280	15.	43.	0.00
MILE 36.00	793.99	247.	0.01	19704.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.00	255.	0.01	29981.	1226.	9.63	0.0280	11.	45.	0.00
MILE 33.60	794.00	260.	0.00	61908.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	269.	0.01	30454.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	279.	0.01	32066.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	288.	0.01	35752.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	302.	0.01	37102.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	320.	0.01	45970.	1052.	12.00	0.0230	20.	59.	0.00
MILE 23.10	794.00	338.	0.01	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-12-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 10.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.63	759.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.88	2020.	2.05	984.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2040.	1.99	1025.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2060.	1.77	1164.	148.	2.78	0.0330	20.	8.	0.11
MILE 71.40	805.48	2080.	1.39	1497.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.45	2100.	1.79	1170.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2120.	1.98	1072.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.20	2136.	1.04	2056.	323.	3.09	0.0320	20.	7.	0.07

TVA

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE	63.00	794.09	2143.	0.62	3463.	341.	4.62	0.0400	20.	13.	0.03
MILE	60.90	794.02	2147.	0.47	4611.	355.	5.72	0.0450	20.	17.	0.02
MILE	58.80	793.99	149.	0.03	5740.	354.	6.13	0.0400	-1982.	21.	0.00
MILE	57.00	793.99	153.	0.02	6364.	396.	6.02	0.0200	18.	19.	0.00
MILE	55.00	793.99	155.	0.02	6474.	458.	6.50	0.0200	18.	20.	0.00
MILE	53.10	794.00	154.	0.02	8915.	565.	5.99	0.0200	19.	21.	0.00
MILE	51.00	794.00	146.	0.02	9634.	917.	6.11	0.0200	23.	25.	0.00
MILE	48.30	794.00	116.	0.01	12998.	1620.	4.91	0.0200	23.	25.	0.00
MILE	46.20	794.00	80.	0.01	15539.	1814.	6.73	0.0200	20.	32.	0.00
MILE	44.10	794.00	52.	0.00	27605.	1506.	8.04	0.0300	12.	39.	0.00
MILE	43.70	794.00	49.	0.00	14297.	1363.	8.23	0.0300	10.	41.	0.00
MILE	42.00	794.00	37.	0.00	18724.	1330.	6.16	0.0300	22.	44.	0.00
MILE	39.10	794.00	24.	0.00	18079.	1353.	7.86	0.0230	24.	43.	0.00
MILE	37.00	794.00	25.	0.00	31814.	1120.	7.26	0.0280	15.	43.	0.00
MILE	36.00	794.00	28.	0.00	19707.	901.	8.34	0.0280	11.	45.	0.00
MILE	34.60	794.00	33.	0.00	29985.	1226.	9.63	0.0280	11.	45.	0.00
MILE	33.60	794.00	33.	0.00	61916.	2141.	8.11	0.0290	15.	51.	0.00
MILE	31.50	794.00	33.	0.00	30457.	1757.	10.37	0.0250	16.	55.	0.00
MILE	30.10	794.00	39.	0.00	32068.	883.	9.91	0.0200	12.	53.	0.00
MILE	29.00	794.00	47.	0.00	35753.	1054.	10.78	0.0200	13.	54.	0.00
MILE	27.30	794.00	59.	0.00	37103.	1054.	11.17	0.0230	18.	57.	0.00
MILE	25.20	794.00	76.	0.00	45971.	1052.	12.00	0.0230	20.	59.	0.00
MILE	23.10	794.00	96.	0.00	37830.	1083.	11.43	0.0230	20.	64.	0.00

0DATE 3-12-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 11.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	822.67	2000.	2.64	759.	274.	2.23	0.0290	20.	4.	0.28
MILE	77.70	816.88	2021.	2.05	985.	181.	2.46	0.0400	20.	6.	0.16
MILE	75.60	810.82	2041.	1.99	1025.	164.	2.49	0.0400	20.	4.	0.14
MILE	73.50	807.08	2061.	1.77	1164.	148.	2.79	0.0330	20.	8.	0.11
MILE	71.40	805.48	2081.	1.39	1497.	226.	2.46	0.0400	20.	8.	0.10
MILE	69.30	802.45	2101.	1.79	1171.	264.	2.18	0.0340	20.	4.	0.15
MILE	67.20	797.31	2119.	1.98	1072.	265.	2.22	0.0340	20.	7.	0.17
MILE	65.10	794.21	2132.	1.03	2061.	324.	3.09	0.0320	20.	7.	0.07
MILE	63.00	794.10	2136.	0.62	3468.	341.	4.62	0.0400	20.	13.	0.03
MILE	60.90	794.03	2139.	0.46	4616.	356.	5.72	0.0450	20.	18.	0.02
MILE	58.80	794.01	142.	0.02	5745.	354.	6.14	0.0400	-1982.	21.	0.00
MILE	57.00	794.01	146.	0.02	6370.	396.	6.02	0.0200	18.	19.	0.00
MILE	55.00	794.01	149.	0.02	6479.	459.	6.51	0.0200	18.	21.	0.00
MILE	53.10	794.01	150.	0.02	8923.	565.	5.99	0.0200	19.	21.	0.00
MILE	51.00	794.01	144.	0.01	9640.	918.	6.11	0.0200	23.	25.	0.00
MILE	48.30	794.01	118.	0.01	13010.	1621.	4.91	0.0200	23.	25.	0.00
MILE	46.20	794.01	90.	0.01	15547.	1814.	6.73	0.0200	20.	32.	0.00
MILE	44.10	794.01	66.	0.00	27616.	1507.	8.04	0.0300	12.	39.	0.00
MILE	43.70	794.01	63.	0.00	14301.	1363.	8.23	0.0300	10.	41.	0.00

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MILE 42.00	794.01	55.	0.00	18733.	1330.	6.16	0.0300	22.	44.	0.00
MILE 39.10	794.00	50.	0.00	18084.	1353.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.00	51.	0.00	31822.	1120.	7.26	0.0280	15.	43.	0.00
MILE 36.00	794.00	54.	0.00	19711.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.00	60.	0.00	29989.	1226.	9.63	0.0280	11.	46.	0.00
MILE 33.60	794.00	62.	0.00	61925.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	67.	0.00	30460.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	76.	0.00	32070.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	84.	0.00	35755.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	98.	0.00	37105.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	117.	0.00	45971.	1052.	12.00	0.0230	20.	60.	0.00
MILE 23.10	794.00	136.	0.00	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-12-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 12.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
 DEPTH FROUDE

MILE 79.80	822.67	2000.	2.64	758.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.88	2021.	2.05	985.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2042.	1.99	1025.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2062.	1.77	1164.	148.	2.79	0.0330	20.	8.	0.11
MILE 71.40	805.48	2082.	1.39	1498.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.45	2100.	1.79	1171.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2118.	1.98	1072.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.23	2132.	1.03	2066.	324.	3.09	0.0320	20.	7.	0.07
MILE 63.00	794.12	2143.	0.62	3472.	341.	4.63	0.0400	20.	13.	0.03
MILE 60.90	794.04	2155.	0.47	4619.	356.	5.72	0.0450	20.	18.	0.02
MILE 58.80	794.02	170.	0.03	5748.	354.	6.14	0.0400	-1982.	21.	0.00
MILE 57.00	794.02	184.	0.03	6373.	396.	6.02	0.0200	18.	19.	0.00
MILE 55.00	794.02	198.	0.03	6482.	459.	6.51	0.0200	18.	21.	0.00
MILE 53.10	794.02	211.	0.02	8927.	565.	6.00	0.0200	19.	21.	0.00
MILE 51.00	794.01	224.	0.02	9644.	918.	6.12	0.0200	23.	25.	0.00
MILE 48.30	794.01	237.	0.02	13017.	1621.	4.91	0.0200	23.	25.	0.00
MILE 46.20	794.01	243.	0.02	15552.	1815.	6.73	0.0200	20.	32.	0.00
MILE 44.10	794.01	254.	0.01	27622.	1507.	8.04	0.0300	12.	39.	0.00
MILE 43.70	794.01	256.	0.02	14304.	1363.	8.23	0.0300	10.	41.	0.00
MILE 42.00	794.01	266.	0.01	18738.	1330.	6.16	0.0300	22.	44.	0.00
MILE 39.10	794.01	284.	0.02	18086.	1353.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.01	301.	0.01	31827.	1120.	7.26	0.0280	15.	43.	0.00
MILE 36.00	794.01	309.	0.02	19713.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.00	321.	0.01	29991.	1226.	9.63	0.0280	11.	46.	0.00
MILE 33.60	794.00	329.	0.01	61930.	2142.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	345.	0.01	30461.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	356.	0.01	32072.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	366.	0.01	35756.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	381.	0.01	37105.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	401.	0.01	45972.	1052.	12.00	0.0230	20.	60.	0.00

TVA

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Appendix F		Checked	ACM

MILE 23.10 794.00 422. 0.01 37830. 1083. 11.43 0.0230 20. 64. 0.00

0DATE 3-12-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 13.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.64	757.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.88	2020.	2.05	985.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2041.	1.99	1025.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2061.	1.77	1164.	148.	2.79	0.0330	20.	8.	0.11
MILE 71.40	805.48	2080.	1.39	1497.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.45	2098.	1.79	1170.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2117.	1.98	1072.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.23	2136.	1.03	2067.	324.	3.10	0.0320	20.	7.	0.07
MILE 63.00	794.12	2160.	0.62	3472.	341.	4.63	0.0400	20.	13.	0.03
MILE 60.90	794.04	2187.	0.47	4619.	356.	5.72	0.0450	20.	18.	0.02
MILE 58.80	794.01	216.	0.04	5747.	354.	6.14	0.0400	-1982.	21.	0.00
MILE 57.00	794.01	240.	0.04	6372.	396.	6.02	0.0200	18.	19.	0.00
MILE 55.00	794.01	268.	0.04	6481.	459.	6.51	0.0200	18.	21.	0.00
MILE 53.10	794.01	296.	0.03	8926.	565.	6.00	0.0200	19.	21.	0.00
MILE 51.00	794.01	331.	0.03	9642.	918.	6.12	0.0200	23.	25.	0.00
MILE 48.30	794.01	386.	0.03	13014.	1621.	4.91	0.0200	23.	25.	0.00
MILE 46.20	794.01	438.	0.03	15550.	1815.	6.73	0.0200	20.	32.	0.00
MILE 44.10	794.01	483.	0.02	27620.	1507.	8.04	0.0300	12.	39.	0.00
MILE 43.70	794.01	491.	0.03	14303.	1363.	8.23	0.0300	10.	41.	0.00
MILE 42.00	794.01	522.	0.03	18736.	1330.	6.16	0.0300	22.	44.	0.00
MILE 39.10	794.01	573.	0.03	18085.	1353.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.00	603.	0.02	31825.	1120.	7.26	0.0280	15.	43.	0.00
MILE 36.00	794.00	616.	0.03	19712.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.00	635.	0.02	29990.	1226.	9.63	0.0280	11.	46.	0.00
MILE 33.60	794.00	649.	0.01	61928.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	680.	0.02	30460.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	698.	0.02	32071.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	710.	0.02	35756.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	729.	0.02	37105.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	750.	0.02	45972.	1052.	12.00	0.0230	20.	60.	0.00
MILE 23.10	794.00	771.	0.02	37830.	1083.	11.43	0.0230	20.	64.	0.00

0DATE 3-12-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 14.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80 822.67 2000. 2.64 757. 274. 2.23 0.0290 20. 4. 0.28

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 70 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 77.70	816.88	2020.	2.05	984.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2039.	1.99	1025.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2059.	1.77	1164.	148.	2.78	0.0330	20.	8.	0.11
MILE 71.40	805.48	2078.	1.39	1497.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.45	2097.	1.79	1170.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2117.	1.98	1072.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.22	2141.	1.04	2064.	324.	3.09	0.0320	20.	7.	0.07
MILE 63.00	794.11	2174.	0.63	3469.	341.	4.62	0.0400	20.	13.	0.03
MILE 60.90	794.03	2210.	0.48	4615.	356.	5.72	0.0450	20.	18.	0.02
MILE 58.80	794.00	246.	0.04	5743.	354.	6.14	0.0400	-1982.	21.	0.00
MILE 57.00	794.00	276.	0.04	6367.	396.	6.02	0.0200	18.	19.	0.00
MILE 55.00	794.00	311.	0.05	6477.	458.	6.50	0.0200	18.	21.	0.00
MILE 53.10	794.00	346.	0.04	8919.	565.	5.99	0.0200	19.	21.	0.00
MILE 51.00	794.00	392.	0.04	9637.	918.	6.11	0.0200	23.	25.	0.00
MILE 48.30	794.00	472.	0.04	13005.	1621.	4.91	0.0200	23.	25.	0.00
MILE 46.20	794.00	543.	0.03	15543.	1814.	6.73	0.0200	20.	32.	0.00
MILE 44.10	794.00	611.	0.02	27611.	1506.	8.04	0.0300	12.	39.	0.00
MILE 43.70	794.00	622.	0.04	14299.	1363.	8.23	0.0300	10.	41.	0.00
MILE 42.00	794.00	664.	0.04	18728.	1330.	6.16	0.0300	22.	44.	0.00
MILE 39.10	794.00	728.	0.04	18081.	1353.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.00	768.	0.02	31818.	1120.	7.26	0.0280	15.	43.	0.00
MILE 36.00	794.00	785.	0.04	19709.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.00	807.	0.03	29987.	1226.	9.63	0.0280	11.	46.	0.00
MILE 33.60	794.00	824.	0.01	61920.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	863.	0.03	30458.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	882.	0.03	32069.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	895.	0.03	35754.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	914.	0.02	37104.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	936.	0.02	45971.	1052.	12.00	0.0230	20.	60.	0.00
MILE 23.10	794.00	957.	0.03	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-12-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 15.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.64	758.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.87	2019.	2.05	984.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2038.	1.99	1024.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2057.	1.77	1163.	148.	2.78	0.0330	20.	8.	0.11
MILE 71.40	805.48	2077.	1.39	1496.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.45	2097.	1.79	1169.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2118.	1.98	1071.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.21	2144.	1.04	2059.	324.	3.09	0.0320	20.	7.	0.07
MILE 63.00	794.09	2178.	0.63	3464.	341.	4.62	0.0400	20.	13.	0.03
MILE 60.90	794.02	2212.	0.48	4610.	355.	5.72	0.0450	20.	17.	0.02
MILE 58.80	793.99	245.	0.04	5738.	354.	6.13	0.0400	-1982.	21.	0.00
MILE 57.00	793.99	272.	0.04	6362.	396.	6.02	0.0200	18.	19.	0.00

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 71 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE	55.00	793.99	304.	0.05	6472.	458.	6.50	0.0200	18.	20.	0.00
MILE	53.10	793.99	336.	0.04	8913.	564.	5.99	0.0200	19.	21.	0.00
MILE	51.00	793.99	377.	0.04	9632.	917.	6.11	0.0200	23.	25.	0.00
MILE	48.30	793.99	444.	0.03	12994.	1620.	4.91	0.0200	23.	25.	0.00
MILE	46.20	793.99	507.	0.03	15535.	1814.	6.73	0.0200	20.	32.	0.00
MILE	44.10	793.99	562.	0.02	27601.	1506.	8.04	0.0300	12.	39.	0.00
MILE	43.70	793.99	571.	0.04	14295.	1363.	8.23	0.0300	10.	41.	0.00
MILE	42.00	793.99	607.	0.03	18720.	1330.	6.16	0.0300	22.	44.	0.00
MILE	39.10	794.00	664.	0.04	18077.	1352.	7.86	0.0230	24.	43.	0.00
MILE	37.00	794.00	698.	0.02	31811.	1119.	7.26	0.0280	15.	43.	0.00
MILE	36.00	794.00	712.	0.04	19705.	901.	8.34	0.0280	11.	45.	0.00
MILE	34.60	794.00	731.	0.02	29983.	1226.	9.63	0.0280	11.	45.	0.00
MILE	33.60	794.00	747.	0.01	61912.	2141.	8.11	0.0290	15.	51.	0.00
MILE	31.50	794.00	780.	0.03	30456.	1757.	10.37	0.0250	16.	55.	0.00
MILE	30.10	794.00	798.	0.02	32067.	883.	9.91	0.0200	12.	53.	0.00
MILE	29.00	794.00	810.	0.02	35752.	1054.	10.78	0.0200	13.	54.	0.00
MILE	27.30	794.00	829.	0.02	37103.	1054.	11.17	0.0230	18.	57.	0.00
MILE	25.20	794.00	850.	0.02	45970.	1052.	12.00	0.0230	20.	59.	0.00
MILE	23.10	794.00	870.	0.02	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-12-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 16.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	822.67	2000.	2.64	759.	274.	2.23	0.0290	20.	4.	0.28
MILE	77.70	816.87	2019.	2.05	984.	181.	2.46	0.0400	20.	6.	0.16
MILE	75.60	810.82	2038.	1.99	1024.	164.	2.49	0.0400	20.	4.	0.14
MILE	73.50	807.08	2057.	1.77	1163.	148.	2.78	0.0330	20.	8.	0.11
MILE	71.40	805.48	2077.	1.39	1496.	226.	2.46	0.0400	20.	8.	0.10
MILE	69.30	802.45	2098.	1.79	1170.	264.	2.18	0.0340	20.	4.	0.15
MILE	67.20	797.31	2119.	1.98	1071.	265.	2.22	0.0340	20.	7.	0.17
MILE	65.10	794.20	2143.	1.04	2055.	323.	3.08	0.0320	20.	7.	0.07
MILE	63.00	794.08	2169.	0.63	3461.	341.	4.62	0.0400	20.	13.	0.03
MILE	60.90	794.01	2194.	0.48	4608.	355.	5.72	0.0450	20.	17.	0.02
MILE	58.80	793.98	216.	0.04	5736.	354.	6.13	0.0400	-1982.	21.	0.00
MILE	57.00	793.98	235.	0.04	6359.	396.	6.01	0.0200	18.	19.	0.00
MILE	55.00	793.98	256.	0.04	6470.	458.	6.50	0.0200	18.	20.	0.00
MILE	53.10	793.99	275.	0.03	8909.	564.	5.99	0.0200	19.	21.	0.00
MILE	51.00	793.99	298.	0.03	9630.	917.	6.11	0.0200	23.	25.	0.00
MILE	48.30	793.99	329.	0.03	12989.	1620.	4.91	0.0200	23.	25.	0.00
MILE	46.20	793.99	352.	0.02	15532.	1813.	6.73	0.0200	20.	32.	0.00
MILE	44.10	793.99	376.	0.01	27597.	1506.	8.04	0.0300	12.	39.	0.00
MILE	43.70	793.99	380.	0.03	14293.	1363.	8.23	0.0300	10.	41.	0.00
MILE	42.00	793.99	398.	0.02	18716.	1330.	6.16	0.0300	22.	44.	0.00
MILE	39.10	793.99	426.	0.02	18075.	1352.	7.86	0.0230	24.	43.	0.00
MILE	37.00	793.99	447.	0.01	31808.	1119.	7.26	0.0280	15.	43.	0.00
MILE	36.00	793.99	457.	0.02	19704.	901.	8.34	0.0280	11.	45.	0.00

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 34.60	794.00	470.	0.02	29981.	1226.	9.63	0.0280	11.	45.	0.00
MILE 33.60	794.00	480.	0.01	61908.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	500.	0.02	30455.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	512.	0.02	32066.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	522.	0.01	35752.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	537.	0.01	37102.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	556.	0.01	45970.	1052.	12.00	0.0230	20.	59.	0.00
MILE 23.10	794.00	576.	0.02	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-12-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 17.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.63	759.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.87	2019.	2.05	984.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2039.	1.99	1024.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2058.	1.77	1163.	148.	2.78	0.0330	20.	8.	0.11
MILE 71.40	805.48	2078.	1.39	1496.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.45	2099.	1.79	1170.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2120.	1.98	1071.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.20	2139.	1.04	2054.	323.	3.08	0.0320	20.	7.	0.07
MILE 63.00	794.08	2154.	0.62	3461.	341.	4.62	0.0400	20.	13.	0.03
MILE 60.90	794.01	2166.	0.47	4609.	355.	5.72	0.0450	20.	17.	0.02
MILE 58.80	793.99	176.	0.03	5737.	354.	6.13	0.0400	-1982.	21.	0.00
MILE 57.00	793.99	184.	0.03	6361.	396.	6.02	0.0200	18.	19.	0.00
MILE 55.00	793.99	193.	0.03	6472.	458.	6.50	0.0200	18.	20.	0.00
MILE 53.10	793.99	200.	0.02	8912.	564.	5.99	0.0200	19.	21.	0.00
MILE 51.00	793.99	203.	0.02	9632.	917.	6.11	0.0200	23.	25.	0.00
MILE 48.30	793.99	194.	0.01	12993.	1620.	4.91	0.0200	23.	25.	0.00
MILE 46.20	793.99	181.	0.01	15535.	1814.	6.73	0.0200	20.	32.	0.00
MILE 44.10	793.99	170.	0.01	27601.	1506.	8.04	0.0300	12.	39.	0.00
MILE 43.70	793.99	169.	0.01	14295.	1363.	8.23	0.0300	10.	41.	0.00
MILE 42.00	793.99	168.	0.01	18719.	1330.	6.16	0.0300	22.	44.	0.00
MILE 39.10	794.00	172.	0.01	18076.	1352.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.00	177.	0.01	31810.	1119.	7.26	0.0280	15.	43.	0.00
MILE 36.00	794.00	182.	0.01	19705.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.00	189.	0.01	29983.	1226.	9.63	0.0280	11.	45.	0.00
MILE 33.60	794.00	193.	0.00	61911.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	200.	0.01	30455.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	209.	0.01	32067.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	217.	0.01	35752.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	230.	0.01	37103.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	248.	0.01	45970.	1052.	12.00	0.0230	20.	59.	0.00
MILE 23.10	794.00	266.	0.01	37830.	1083.	11.43	0.0230	20.	64.	0.00

TVA

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

0DATE 3-12-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 18.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.64	759.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.88	2020.	2.05	985.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2040.	1.99	1025.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2060.	1.77	1164.	148.	2.78	0.0330	20.	8.	0.11
MILE 71.40	805.48	2080.	1.39	1497.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.45	2100.	1.79	1171.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2120.	1.98	1072.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.21	2135.	1.04	2058.	324.	3.09	0.0320	20.	7.	0.07
MILE 63.00	794.10	2141.	0.62	3465.	341.	4.62	0.0400	20.	13.	0.03
MILE 60.90	794.02	2146.	0.47	4613.	355.	5.72	0.0450	20.	18.	0.02
MILE 58.80	794.00	150.	0.03	5742.	354.	6.14	0.0400	-1982.	21.	0.00
MILE 57.00	794.00	154.	0.02	6366.	396.	6.02	0.0200	18.	19.	0.00
MILE 55.00	794.00	157.	0.02	6476.	458.	6.50	0.0200	18.	20.	0.00
MILE 53.10	794.00	158.	0.02	8918.	565.	5.99	0.0200	19.	21.	0.00
MILE 51.00	794.00	152.	0.02	9636.	918.	6.11	0.0200	23.	25.	0.00
MILE 48.30	794.00	127.	0.01	13003.	1621.	4.91	0.0200	23.	25.	0.00
MILE 46.20	794.00	96.	0.01	15542.	1814.	6.73	0.0200	20.	32.	0.00
MILE 44.10	794.00	73.	0.00	27609.	1506.	8.04	0.0300	12.	39.	0.00
MILE 43.70	794.00	70.	0.00	14298.	1363.	8.23	0.0300	10.	41.	0.00
MILE 42.00	794.00	61.	0.00	18727.	1330.	6.16	0.0300	22.	44.	0.00
MILE 39.10	794.00	52.	0.00	18080.	1353.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.00	55.	0.00	31817.	1120.	7.26	0.0280	15.	43.	0.00
MILE 36.00	794.00	58.	0.00	19708.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.00	64.	0.00	29986.	1226.	9.63	0.0280	11.	46.	0.00
MILE 33.60	794.00	66.	0.00	61919.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	69.	0.00	30458.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	76.	0.00	32069.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	84.	0.00	35754.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	96.	0.00	37104.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	114.	0.00	45971.	1052.	12.00	0.0230	20.	60.	0.00
MILE 23.10	794.00	134.	0.00	37830.	1083.	11.43	0.0230	20.	64.	0.00

0DATE 3-12-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 19.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.64	758.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.88	2021.	2.05	985.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2041.	1.99	1025.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2061.	1.77	1164.	148.	2.79	0.0330	20.	8.	0.11
MILE 71.40	805.48	2081.	1.39	1498.	226.	2.46	0.0400	20.	8.	0.10

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 74 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 69.30	802.45	2100.	1.79	1171.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2119.	1.98	1072.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.22	2133.	1.03	2063.	324.	3.09	0.0320	20.	7.	0.07
MILE 63.00	794.11	2139.	0.62	3469.	341.	4.62	0.0400	20.	13.	0.03
MILE 60.90	794.04	2147.	0.46	4617.	356.	5.72	0.0450	20.	18.	0.02
MILE 58.80	794.01	155.	0.03	5746.	354.	6.14	0.0400	-1982.	21.	0.00
MILE 57.00	794.01	162.	0.03	6371.	396.	6.02	0.0200	18.	19.	0.00
MILE 55.00	794.01	170.	0.03	6480.	459.	6.51	0.0200	18.	21.	0.00
MILE 53.10	794.01	176.	0.02	8924.	565.	6.00	0.0200	19.	21.	0.00
MILE 51.00	794.01	178.	0.02	9641.	918.	6.11	0.0200	23.	25.	0.00
MILE 48.30	794.01	168.	0.01	13012.	1621.	4.91	0.0200	23.	25.	0.00
MILE 46.20	794.01	155.	0.01	15548.	1814.	6.73	0.0200	20.	32.	0.00
MILE 44.10	794.01	144.	0.01	27618.	1507.	8.04	0.0300	12.	39.	0.00
MILE 43.70	794.01	144.	0.01	14302.	1363.	8.23	0.0300	10.	41.	0.00
MILE 42.00	794.01	143.	0.01	18734.	1330.	6.16	0.0300	22.	44.	0.00
MILE 39.10	794.00	149.	0.01	18084.	1353.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.00	156.	0.00	31823.	1120.	7.26	0.0280	15.	43.	0.00
MILE 36.00	794.00	161.	0.01	19711.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.00	169.	0.01	29989.	1226.	9.63	0.0280	11.	46.	0.00
MILE 33.60	794.00	174.	0.00	61927.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	183.	0.01	30460.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	194.	0.01	32071.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	203.	0.01	35756.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	217.	0.01	37105.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	236.	0.01	45971.	1052.	12.00	0.0230	20.	60.	0.00
MILE 23.10	794.00	256.	0.01	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-12-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 20.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.64	757.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.88	2021.	2.05	985.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2041.	1.99	1025.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2061.	1.77	1164.	148.	2.79	0.0330	20.	8.	0.11
MILE 71.40	805.48	2081.	1.39	1498.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.45	2099.	1.79	1170.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2118.	1.98	1072.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.23	2134.	1.03	2066.	324.	3.09	0.0320	20.	7.	0.07
MILE 63.00	794.12	2149.	0.62	3472.	341.	4.63	0.0400	20.	13.	0.03
MILE 60.90	794.04	2167.	0.47	4619.	356.	5.72	0.0450	20.	18.	0.02
MILE 58.80	794.02	187.	0.03	5748.	354.	6.14	0.0400	-1982.	21.	0.00
MILE 57.00	794.01	205.	0.03	6372.	396.	6.02	0.0200	18.	19.	0.00
MILE 55.00	794.01	224.	0.03	6481.	459.	6.51	0.0200	18.	21.	0.00
MILE 53.10	794.01	242.	0.03	8926.	565.	6.00	0.0200	19.	21.	0.00
MILE 51.00	794.01	263.	0.03	9643.	918.	6.12	0.0200	23.	25.	0.00
MILE 48.30	794.01	292.	0.02	13015.	1621.	4.91	0.0200	23.	25.	0.00

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 75 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 46.20	794.01	314.	0.02	15551.	1815.	6.73	0.0200	20.	32.	0.00
MILE 44.10	794.01	337.	0.01	27620.	1507.	8.04	0.0300	12.	39.	0.00
MILE 43.70	794.01	341.	0.02	14303.	1363.	8.23	0.0300	10.	41.	0.00
MILE 42.00	794.01	359.	0.02	18737.	1330.	6.16	0.0300	22.	44.	0.00
MILE 39.10	794.01	388.	0.02	18086.	1353.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.01	410.	0.01	31825.	1120.	7.26	0.0280	15.	43.	0.00
MILE 36.00	794.00	420.	0.02	19712.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.00	434.	0.01	29990.	1226.	9.63	0.0280	11.	46.	0.00
MILE 33.60	794.00	444.	0.01	61929.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	465.	0.02	30461.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	479.	0.01	32071.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	489.	0.01	35756.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	506.	0.01	37105.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	526.	0.01	45972.	1052.	12.00	0.0230	20.	60.	0.00
MILE 23.10	794.00	547.	0.01	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-12-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 21.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.64	757.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.88	2020.	2.05	985.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2040.	1.99	1025.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2060.	1.77	1164.	148.	2.79	0.0330	20.	8.	0.11
MILE 71.40	805.48	2079.	1.39	1497.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.45	2098.	1.79	1170.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2117.	1.98	1072.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.23	2138.	1.04	2066.	324.	3.09	0.0320	20.	7.	0.07
MILE 63.00	794.11	2165.	0.62	3471.	341.	4.62	0.0400	20.	13.	0.03
MILE 60.90	794.04	2194.	0.48	4617.	356.	5.72	0.0450	20.	18.	0.02
MILE 58.80	794.01	225.	0.04	5745.	354.	6.14	0.0400	-1982.	21.	0.00
MILE 57.00	794.01	251.	0.04	6370.	396.	6.02	0.0200	18.	19.	0.00
MILE 55.00	794.01	281.	0.04	6479.	459.	6.51	0.0200	18.	21.	0.00
MILE 53.10	794.01	311.	0.03	8923.	565.	6.00	0.0200	19.	21.	0.00
MILE 51.00	794.01	349.	0.04	9640.	918.	6.11	0.0200	23.	25.	0.00
MILE 48.30	794.01	410.	0.03	13010.	1621.	4.91	0.0200	23.	25.	0.00
MILE 46.20	794.01	467.	0.03	15547.	1814.	6.73	0.0200	20.	32.	0.00
MILE 44.10	794.01	518.	0.02	27616.	1507.	8.04	0.0300	12.	39.	0.00
MILE 43.70	794.01	527.	0.04	14301.	1363.	8.23	0.0300	10.	41.	0.00
MILE 42.00	794.01	561.	0.03	18733.	1330.	6.16	0.0300	22.	44.	0.00
MILE 39.10	794.00	615.	0.03	18083.	1353.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.00	648.	0.02	31822.	1120.	7.26	0.0280	15.	43.	0.00
MILE 36.00	794.00	662.	0.03	19711.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.00	681.	0.02	29988.	1226.	9.63	0.0280	11.	46.	0.00
MILE 33.60	794.00	696.	0.01	61925.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	730.	0.02	30459.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	748.	0.02	32070.	883.	9.91	0.0200	12.	53.	0.00

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE	29.00	794.00	761.	0.02	35755.	1054.	10.78	0.0200	13.	54.	0.00
MILE	27.30	794.00	780.	0.02	37105.	1054.	11.17	0.0230	18.	57.	0.00
MILE	25.20	794.00	802.	0.02	45971.	1052.	12.00	0.0230	20.	60.	0.00
MILE	23.10	794.00	821.	0.02	37830.	1083.	11.43	0.0230	20.	64.	0.00

0DATE 3-12-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 22.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	822.67	2000.	2.64	757.	274.	2.23	0.0290	20.	4.	0.28
MILE	77.70	816.87	2019.	2.05	984.	181.	2.46	0.0400	20.	6.	0.16
MILE	75.60	810.82	2039.	1.99	1024.	164.	2.49	0.0400	20.	4.	0.14
MILE	73.50	807.08	2058.	1.77	1163.	148.	2.78	0.0330	20.	8.	0.11
MILE	71.40	805.48	2077.	1.39	1496.	226.	2.46	0.0400	20.	8.	0.10
MILE	69.30	802.45	2097.	1.79	1169.	264.	2.18	0.0340	20.	4.	0.15
MILE	67.20	797.31	2118.	1.98	1071.	265.	2.22	0.0340	20.	7.	0.17
MILE	65.10	794.22	2142.	1.04	2062.	324.	3.09	0.0320	20.	7.	0.07
MILE	63.00	794.10	2175.	-0.63	3467.	341.	4.62	0.0400	20.	13.	0.03
MILE	60.90	794.03	2209.	0.48	4613.	356.	5.72	0.0450	20.	18.	0.02
MILE	58.80	794.00	243.	0.04	5741.	354.	6.14	0.0400	-1982.	21.	0.00
MILE	57.00	794.00	271.	0.04	6365.	396.	6.02	0.0200	18.	19.	0.00
MILE	55.00	794.00	304.	0.05	6475.	458.	6.50	0.0200	18.	20.	0.00
MILE	53.10	794.00	337.	0.04	8917.	565.	5.99	0.0200	19.	21.	0.00
MILE	51.00	794.00	380.	0.04	9636.	918.	6.11	0.0200	23.	25.	0.00
MILE	48.30	794.00	453.	0.03	13001.	1621.	4.91	0.0200	23.	25.	0.00
MILE	46.20	794.00	518.	0.03	15540.	1814.	6.73	0.0200	20.	32.	0.00
MILE	44.10	794.00	579.	0.02	27608.	1506.	8.04	0.0300	12.	39.	0.00
MILE	43.70	794.00	589.	0.04	14298.	1363.	8.23	0.0300	10.	41.	0.00
MILE	42.00	794.00	628.	0.03	18725.	1330.	6.16	0.0300	22.	44.	0.00
MILE	39.10	794.00	687.	0.04	18079.	1353.	7.86	0.0230	24.	43.	0.00
MILE	37.00	794.00	724.	0.02	31816.	1120.	7.26	0.0280	15.	43.	0.00
MILE	36.00	794.00	740.	0.04	19708.	901.	8.34	0.0280	11.	45.	0.00
MILE	34.60	794.00	760.	0.03	29985.	1226.	9.63	0.0280	11.	45.	0.00
MILE	33.60	794.00	777.	0.01	61917.	2141.	8.11	0.0290	15.	51.	0.00
MILE	31.50	794.00	812.	0.03	30457.	1757.	10.37	0.0250	16.	55.	0.00
MILE	30.10	794.00	830.	0.03	32068.	883.	9.91	0.0200	12.	53.	0.00
MILE	29.00	794.00	843.	0.02	35754.	1054.	10.78	0.0200	13.	54.	0.00
MILE	27.30	794.00	862.	0.02	37103.	1054.	11.17	0.0230	18.	57.	0.00
MILE	25.20	794.00	884.	0.02	45971.	1052.	12.00	0.0230	20.	59.	0.00
MILE	23.10	794.00	904.	0.02	37830.	1083.	11.43	0.0230	20.	64.	0.00

0DATE 3-12-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 77 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

TIME 23.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.64	758.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.87	2019.	2.05	984.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2038.	1.99	1024.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2057.	1.77	1163.	148.	2.78	0.0330	20.	8.	0.11
MILE 71.40	805.48	2077.	1.39	1496.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.45	2097.	1.79	1169.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2118.	1.98	1071.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.20	2143.	1.04	2057.	323.	3.09	0.0320	20.	7.	0.07
MILE 63.00	794.09	2174.	0.63	3463.	341.	4.62	0.0400	20.	13.	0.03
MILE 60.90	794.02	2204.	0.48	4609.	355.	5.72	0.0450	20.	17.	0.02
MILE 58.80	793.99	232.	0.04	5737.	354.	6.13	0.0400	-1982.	21.	0.00
MILE 57.00	793.99	256.	0.04	6361.	396.	6.02	0.0200	18.	19.	0.00
MILE 55.00	793.99	284.	0.04	6472.	458.	6.50	0.0200	18.	20.	0.00
MILE 53.10	793.99	311.	0.03	8912.	564.	5.99	0.0200	19.	21.	0.00
MILE 51.00	793.99	345.	0.04	9631.	917.	6.11	0.0200	23.	25.	0.00
MILE 48.30	793.99	397.	0.03	12993.	1620.	4.91	0.0200	23.	25.	0.00
MILE 46.20	793.99	444.	0.03	15534.	1813.	6.73	0.0200	20.	32.	0.00
MILE 44.10	793.99	486.	0.02	27600.	1506.	8.04	0.0300	12.	39.	0.00
MILE 43.70	793.99	493.	0.03	14294.	1363.	8.23	0.0300	10.	41.	0.00
MILE 42.00	793.99	522.	0.03	18719.	1330.	6.16	0.0300	22.	44.	0.00
MILE 39.10	793.99	568.	0.03	18076.	1352.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.00	596.	0.02	31810.	1119.	7.26	0.0280	15.	43.	0.00
MILE 36.00	794.00	609.	0.03	19705.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.00	625.	0.02	29983.	1226.	9.63	0.0280	11.	45.	0.00
MILE 33.60	794.00	638.	0.01	61911.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	666.	0.02	30455.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	682.	0.02	32067.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	694.	0.02	35752.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	711.	0.02	37102.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	732.	0.02	45970.	1052.	12.00	0.0230	20.	59.	0.00
MILE 23.10	794.00	751.	0.02	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-13-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 0.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.64	759.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.87	2019.	2.05	984.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2038.	1.99	1024.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2058.	1.77	1163.	148.	2.78	0.0330	20.	8.	0.11
MILE 71.40	805.48	2077.	1.39	1496.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.45	2098.	1.79	1170.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2119.	1.98	1071.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.20	2142.	1.04	2055.	323.	3.08	0.0320	20.	7.	0.07

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 78 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 63.00	794.08	2164.	0.63	3461.	341.	4.62	0.0400	20.	13.	0.03
MILE 60.90	794.01	2183.	0.47	4608.	355.	5.72	0.0450	20.	17.	0.02
MILE 58.80	793.99	201.	0.04	5736.	354.	6.13	0.0400	-1982.	21.	0.00
MILE 57.00	793.99	216.	0.03	6360.	396.	6.01	0.0200	18.	19.	0.00
MILE 55.00	793.99	233.	0.04	6471.	458.	6.50	0.0200	18.	20.	0.00
MILE 53.10	793.99	248.	0.03	8911.	564.	5.99	0.0200	19.	21.	0.00
MILE 51.00	793.99	264.	0.03	9631.	917.	6.11	0.0200	23.	25.	0.00
MILE 48.30	793.99	281.	0.02	12991.	1620.	4.91	0.0200	23.	25.	0.00
MILE 46.20	793.99	291.	0.02	15533.	1813.	6.73	0.0200	20.	32.	0.00
MILE 44.10	793.99	304.	0.01	27599.	1506.	8.04	0.0300	12.	39.	0.00
MILE 43.70	793.99	306.	0.02	14294.	1363.	8.23	0.0300	10.	41.	0.00
MILE 42.00	793.99	318.	0.02	18718.	1330.	6.16	0.0300	22.	44.	0.00
MILE 39.10	793.99	337.	0.02	18075.	1352.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.00	353.	0.01	31809.	1119.	7.26	0.0280	15.	43.	0.00
MILE 36.00	794.00	361.	0.02	19705.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.00	372.	0.01	29982.	1226.	9.63	0.0280	11.	45.	0.00
MILE 33.60	794.00	380.	0.01	61909.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	395.	0.01	30455.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	406.	0.01	32066.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	415.	0.01	35752.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	430.	0.01	37102.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	448.	0.01	45970.	1052.	12.00	0.0230	20.	59.	0.00
MILE 23.10	794.00	468.	0.01	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-13-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 1.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.64	759.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.88	2020.	2.05	984.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2039.	1.99	1025.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2059.	1.77	1163.	148.	2.78	0.0330	20.	8.	0.11
MILE 71.40	805.48	2079.	1.39	1496.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.45	2100.	1.79	1170.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2120.	1.98	1072.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.20	2138.	1.04	2056.	323.	3.09	0.0320	20.	7.	0.07
MILE 63.00	794.09	2150.	0.62	3463.	341.	4.62	0.0400	20.	13.	0.03
MILE 60.90	794.02	2160.	0.47	4610.	355.	5.72	0.0450	20.	17.	0.02
MILE 58.80	793.99	168.	0.03	5739.	354.	6.13	0.0400	-1982.	21.	0.00
MILE 57.00	793.99	176.	0.03	6363.	396.	6.02	0.0200	18.	19.	0.00
MILE 55.00	793.99	183.	0.03	6473.	458.	6.50	0.0200	18.	20.	0.00
MILE 53.10	793.99	189.	0.02	8914.	564.	5.99	0.0200	19.	21.	0.00
MILE 51.00	793.99	190.	0.02	9633.	917.	6.11	0.0200	23.	25.	0.00
MILE 48.30	793.99	177.	0.01	12997.	1620.	4.91	0.0200	23.	25.	0.00
MILE 46.20	794.00	160.	0.01	15537.	1814.	6.73	0.0200	20.	32.	0.00
MILE 44.10	794.00	146.	0.01	27604.	1506.	8.04	0.0300	12.	39.	0.00
MILE 43.70	794.00	144.	0.01	14296.	1363.	8.23	0.0300	10.	41.	0.00

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 79 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 42.00	794.00	142.	0.01	18722.	1330.	6.16	0.0300	22.	44.	0.00
MILE 39.10	794.00	143.	0.01	18078.	1352.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.00	148.	0.00	31813.	1120.	7.26	0.0280	15.	43.	0.00
MILE 36.00	794.00	152.	0.01	19706.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.00	159.	0.01	29984.	1226.	9.63	0.0280	11.	45.	0.00
MILE 33.60	794.00	162.	0.00	61914.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	168.	0.01	30456.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	177.	0.01	32067.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	185.	0.01	35753.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	199.	0.01	37103.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	216.	0.00	45970.	1052.	12.00	0.0230	20.	59.	0.00
MILE 23.10	794.00	235.	0.01	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-13-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 2.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.64	759.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.88	2020.	2.05	985.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2040.	1.99	1025.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2061.	1.77	1164.	148.	2.79	0.0330	20.	8.	0.11
MILE 71.40	805.48	2081.	1.39	1497.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.45	2100.	1.79	1171.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2119.	1.98	1072.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.21	2134.	1.04	2060.	324.	3.09	0.0320	20.	7.	0.07
MILE 63.00	794.10	2142.	0.62	3467.	341.	4.62	0.0400	20.	13.	0.03
MILE 60.90	794.03	2148.	0.47	4614.	356.	5.72	0.0450	20.	18.	0.02
MILE 58.80	794.00	154.	0.03	5743.	354.	6.14	0.0400	-1982.	21.	0.00
MILE 57.00	794.00	160.	0.03	6367.	396.	6.02	0.0200	18.	19.	0.00
MILE 55.00	794.00	166.	0.03	6477.	458.	6.50	0.0200	18.	21.	0.00
MILE 53.10	794.00	169.	0.02	8920.	565.	5.99	0.0200	19.	21.	0.00
MILE 51.00	794.00	168.	0.02	9638.	918.	6.11	0.0200	23.	25.	0.00
MILE 48.30	794.00	150.	0.01	13006.	1621.	4.91	0.0200	23.	25.	0.00
MILE 46.20	794.00	127.	0.01	15544.	1814.	6.73	0.0200	20.	32.	0.00
MILE 44.10	794.00	111.	0.00	27612.	1507.	8.04	0.0300	12.	39.	0.00
MILE 43.70	794.00	109.	0.01	14300.	1363.	8.23	0.0300	10.	41.	0.00
MILE 42.00	794.00	105.	0.01	18730.	1330.	6.16	0.0300	22.	44.	0.00
MILE 39.10	794.00	102.	0.01	18082.	1353.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.00	108.	0.00	31819.	1120.	7.26	0.0280	15.	43.	0.00
MILE 36.00	794.00	112.	0.01	19709.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.00	119.	0.00	29987.	1226.	9.63	0.0280	11.	46.	0.00
MILE 33.60	794.00	123.	0.00	61922.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	129.	0.00	30458.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	137.	0.00	32069.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	145.	0.00	35755.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	159.	0.00	37104.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	177.	0.00	45971.	1052.	12.00	0.0230	20.	60.	0.00

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 23.10 794.00 198. 0.01 37830. 1083. 11.43 0.0230 20. 64. 0.00

0DATE 3-13-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 3.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.64	758.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.88	2021.	2.05	985.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2041.	1.99	1025.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2061.	1.77	1164.	148.	2.79	0.0330	20.	8.	0.11
MILE 71.40	805.48	2081.	1.39	1497.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.45	2100.	1.79	1171.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2118.	1.98	1072.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.22	2133.	1.03	2064.	324.	3.09	0.0320	20.	7.	0.07
MILE 63.00	794.11	2144.	0.62	3470.	341.	4.62	0.0400	20.	13.	0.03
MILE 60.90	794.04	2155.	0.47	4617.	356.	5.72	0.0450	20.	18.	0.02
MILE 58.80	794.01	168.	0.03	5746.	354.	6.14	0.0400	-1982.	21.	0.00
MILE 57.00	794.01	179.	0.03	6371.	396.	6.02	0.0200	18.	19.	0.00
MILE 55.00	794.01	192.	0.03	6480.	459.	6.51	0.0200	18.	21.	0.00
MILE 53.10	794.01	203.	0.02	8925.	565.	6.00	0.0200	19.	21.	0.00
MILE 51.00	794.01	212.	0.02	9642.	918.	6.11	0.0200	23.	25.	0.00
MILE 48.30	794.01	217.	0.02	13013.	1621.	4.91	0.0200	23.	25.	0.00
MILE 46.20	794.01	218.	0.01	15549.	1815.	6.73	0.0200	20.	32.	0.00
MILE 44.10	794.01	220.	0.01	27618.	1507.	8.04	0.0300	12.	39.	0.00
MILE 43.70	794.01	221.	0.02	14302.	1363.	8.23	0.0300	10.	41.	0.00
MILE 42.00	794.01	228.	0.01	18735.	1330.	6.16	0.0300	22.	44.	0.00
MILE 39.10	794.01	243.	0.01	18084.	1353.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.00	256.	0.01	31824.	1120.	7.26	0.0280	15.	43.	0.00
MILE 36.00	794.00	263.	0.01	19711.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.00	273.	0.01	29989.	1226.	9.63	0.0280	11.	46.	0.00
MILE 33.60	794.00	280.	0.00	61927.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	294.	0.01	30460.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	306.	0.01	32071.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	315.	0.01	35756.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	330.	0.01	37105.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	350.	0.01	45972.	1052.	12.00	0.0230	20.	60.	0.00
MILE 23.10	794.00	370.	0.01	37830.	1083.	11.43	0.0230	20.	64.	0.00

0DATE 3-13-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 4.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80 822.67 2000. 2.64 757. 274. 2.23 0.0290 20. 4. 0.28

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MILE 77.70	816.88	2020.	2.05	985.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2041.	1.99	1025.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2061.	1.77	1164.	148.	2.79	0.0330	20.	8.	0.11
MILE 71.40	805.48	2080.	1.39	1497.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.45	2099.	1.79	1170.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2118.	1.98	1072.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.23	2136.	1.03	2066.	324.	3.09	0.0320	20.	7.	0.07
MILE 63.00	794.11	2155.	0.62	3471.	341.	4.62	0.0400	20.	13.	0.03
MILE 60.90	794.04	2177.	0.47	4618.	356.	5.72	0.0450	20.	18.	0.02
MILE 58.80	794.01	201.	0.03	5747.	354.	6.14	0.0400	-1982.	21.	0.00
MILE 57.00	794.01	221.	0.03	6371.	396.	6.02	0.0200	18.	19.	0.00
MILE 55.00	794.01	244.	0.04	6480.	459.	6.51	0.0200	18.	21.	0.00
MILE 53.10	794.01	266.	0.03	8925.	565.	6.00	0.0200	19.	21.	0.00
MILE 51.00	794.01	293.	0.03	9642.	918.	6.11	0.0200	23.	25.	0.00
MILE 48.30	794.01	333.	0.03	13013.	1621.	4.91	0.0200	23.	25.	0.00
MILE 46.20	794.01	366.	0.02	15549.	1815.	6.73	0.0200	20.	32.	0.00
MILE 44.10	794.01	399.	0.01	27618.	1507.	8.04	0.0300	12.	39.	0.00
MILE 43.70	794.01	405.	0.03	14302.	1363.	8.23	0.0300	10.	41.	0.00
MILE 42.00	794.01	428.	0.02	18735.	1330.	6.16	0.0300	22.	44.	0.00
MILE 39.10	794.01	465.	0.03	18085.	1353.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.00	491.	0.02	31824.	1120.	7.26	0.0280	15.	43.	0.00
MILE 36.00	794.00	503.	0.03	19711.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.00	518.	0.02	29989.	1226.	9.63	0.0280	11.	46.	0.00
MILE 33.60	794.00	530.	0.01	61927.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	556.	0.02	30460.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	571.	0.02	32071.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	582.	0.02	35756.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	599.	0.02	37105.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	619.	0.01	45972.	1052.	12.00	0.0230	20.	60.	0.00
MILE 23.10	794.00	640.	0.02	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-13-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 5.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.64	757.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.88	2020.	2.05	984.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2040.	1.99	1025.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2059.	1.77	1164.	148.	2.78	0.0330	20.	8.	0.11
MILE 71.40	805.48	2079.	1.39	1497.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.45	2098.	1.79	1170.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2117.	1.98	1072.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.22	2139.	1.04	2064.	324.	3.09	0.0320	20.	7.	0.07
MILE 63.00	794.11	2168.	0.62	3469.	341.	4.62	0.0400	20.	13.	0.03
MILE 60.90	794.03	2198.	0.48	4615.	356.	5.72	0.0450	20.	18.	0.02
MILE 58.80	794.01	230.	0.04	5744.	354.	6.14	0.0400	-1982.	21.	0.00
MILE 57.00	794.00	256.	0.04	6368.	396.	6.02	0.0200	18.	19.	0.00

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 82 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE	55.00	794.00	286.	0.04	6478.	458.	6.50	0.0200	18.	21.	0.00
MILE	53.10	794.00	317.	0.04	8921.	565.	5.99	0.0200	19.	21.	0.00
MILE	51.00	794.00	355.	0.04	9639.	918.	6.11	0.0200	23.	25.	0.00
MILE	48.30	794.00	419.	0.03	13007.	1621.	4.91	0.0200	23.	25.	0.00
MILE	46.20	794.00	477.	0.03	15544.	1814.	6.73	0.0200	20.	32.	0.00
MILE	44.10	794.00	529.	0.02	27613.	1507.	8.04	0.0300	12.	39.	0.00
MILE	43.70	794.00	538.	0.04	14300.	1363.	8.23	0.0300	10.	41.	0.00
MILE	42.00	794.00	573.	0.03	18730.	1330.	6.16	0.0300	22.	44.	0.00
MILE	39.10	794.00	628.	0.03	18082.	1353.	7.86	0.0230	24.	43.	0.00
MILE	37.00	794.00	661.	0.02	31820.	1120.	7.26	0.0280	15.	43.	0.00
MILE	36.00	794.00	675.	0.03	19709.	901.	8.34	0.0280	11.	45.	0.00
MILE	34.60	794.00	695.	0.02	29987.	1226.	9.63	0.0280	11.	46.	0.00
MILE	33.60	794.00	710.	0.01	61922.	2141.	8.11	0.0290	15.	51.	0.00
MILE	31.50	794.00	744.	0.02	30459.	1757.	10.37	0.0250	16.	55.	0.00
MILE	30.10	794.00	762.	0.02	32070.	883.	9.91	0.0200	12.	53.	0.00
MILE	29.00	794.00	774.	0.02	35755.	1054.	10.78	0.0200	13.	54.	0.00
MILE	27.30	794.00	793.	0.02	37104.	1054.	11.17	0.0230	18.	57.	0.00
MILE	25.20	794.00	815.	0.02	45971.	1052.	12.00	0.0230	20.	60.	0.00
MILE	23.10	794.00	835.	0.02	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-13-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 6.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	822.67	2000.	2.64	758.	274.	2.23	0.0290	20.	4.	0.28
MILE	77.70	816.87	2019.	2.05	984.	181.	2.46	0.0400	20.	6.	0.16
MILE	75.60	810.82	2038.	1.99	1024.	164.	2.49	0.0400	20.	4.	0.14
MILE	73.50	807.08	2058.	1.77	1163.	148.	2.78	0.0330	20.	8.	0.11
MILE	71.40	805.48	2077.	1.39	1496.	226.	2.46	0.0400	20.	8.	0.10
MILE	69.30	802.45	2097.	1.79	1170.	264.	2.18	0.0340	20.	4.	0.15
MILE	67.20	797.31	2118.	1.98	1071.	265.	2.22	0.0340	20.	7.	0.17
MILE	65.10	794.21	2142.	1.04	2060.	324.	3.09	0.0320	20.	7.	0.07
MILE	63.00	794.10	2173.	0.63	3466.	341.	4.62	0.0400	20.	13.	0.03
MILE	60.90	794.02	2205.	0.48	4612.	355.	5.72	0.0450	20.	18.	0.02
MILE	58.80	793.99	237.	0.04	5740.	354.	6.13	0.0400	-1982.	21.	0.00
MILE	57.00	793.99	263.	0.04	6364.	396.	6.02	0.0200	18.	19.	0.00
MILE	55.00	794.00	293.	0.05	6474.	458.	6.50	0.0200	18.	20.	0.00
MILE	53.10	794.00	324.	0.04	8915.	565.	5.99	0.0200	19.	21.	0.00
MILE	51.00	794.00	362.	0.04	9634.	917.	6.11	0.0200	23.	25.	0.00
MILE	48.30	794.00	426.	0.03	12998.	1620.	4.91	0.0200	23.	25.	0.00
MILE	46.20	794.00	482.	0.03	15538.	1814.	6.73	0.0200	20.	32.	0.00
MILE	44.10	794.00	535.	0.02	27605.	1506.	8.04	0.0300	12.	39.	0.00
MILE	43.70	794.00	543.	0.04	14297.	1363.	8.23	0.0300	10.	41.	0.00
MILE	42.00	794.00	577.	0.03	18723.	1330.	6.16	0.0300	22.	44.	0.00
MILE	39.10	794.00	630.	0.03	18078.	1352.	7.86	0.0230	24.	43.	0.00
MILE	37.00	794.00	663.	0.02	31814.	1120.	7.26	0.0280	15.	43.	0.00
MILE	36.00	794.00	678.	0.03	19707.	901.	8.34	0.0280	11.	45.	0.00

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Appendix F		Checked	ACM

MILE 34.60	794.00	697.	0.02	29984.	1226.	9.63	0.0280	11.	45.	0.00
MILE 33.60	794.00	712.	0.01	61915.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	743.	0.02	30457.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	761.	0.02	32068.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	773.	0.02	35753.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	791.	0.02	37103.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	812.	0.02	45971.	1052.	12.00	0.0230	20.	59.	0.00
MILE 23.10	794.00	832.	0.02	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-13-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 7.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.64	758.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.87	2019.	2.05	984.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2038.	1.99	1024.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2057.	1.77	1163.	148.	2.78	0.0330	20.	8.	0.11
MILE 71.40	805.48	2077.	1.39	1496.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.45	2098.	1.79	1170.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2119.	1.98	1071.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.20	2142.	1.04	2057.	323.	3.09	0.0320	20.	7.	0.07
MILE 63.00	794.09	2170.	0.63	3463.	341.	4.62	0.0400	20.	13.	0.03
MILE 60.90	794.01	2195.	0.48	4609.	355.	5.72	0.0450	20.	17.	0.02
MILE 58.80	793.99	220.	0.04	5737.	354.	6.13	0.0400	-1982.	21.	0.00
MILE 57.00	793.99	241.	0.04	6361.	396.	6.02	0.0200	18.	19.	0.00
MILE 55.00	793.99	264.	0.04	6472.	458.	6.50	0.0200	18.	20.	0.00
MILE 53.10	793.99	287.	0.03	8912.	564.	5.99	0.0200	19.	21.	0.00
MILE 51.00	793.99	313.	0.03	9631.	917.	6.11	0.0200	23.	25.	0.00
MILE 48.30	793.99	352.	0.03	12993.	1620.	4.91	0.0200	23.	25.	0.00
MILE 46.20	793.99	385.	0.02	15534.	1813.	6.73	0.0200	20.	32.	0.00
MILE 44.10	793.99	416.	0.02	27600.	1506.	8.04	0.0300	12.	39.	0.00
MILE 43.70	793.99	421.	0.03	14294.	1363.	8.23	0.0300	10.	41.	0.00
MILE 42.00	793.99	443.	0.02	18719.	1330.	6.16	0.0300	22.	44.	0.00
MILE 39.10	793.99	479.	0.03	18076.	1352.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.00	503.	0.02	31810.	1119.	7.26	0.0280	15.	43.	0.00
MILE 36.00	794.00	513.	0.03	19705.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.00	528.	0.02	29983.	1226.	9.63	0.0280	11.	45.	0.00
MILE 33.60	794.00	539.	0.01	61911.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	562.	0.02	30455.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	576.	0.02	32067.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	587.	0.02	35752.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	604.	0.02	37102.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	623.	0.01	45970.	1052.	12.00	0.0230	20.	59.	0.00
MILE 23.10	794.00	642.	0.02	37830.	1083.	11.43	0.0230	20.	64.	0.00

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

0DATE 3-13-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 8.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.64	759.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.87	2019.	2.05	984.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2039.	1.99	1024.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2058.	1.77	1163.	148.	2.78	0.0330	20.	8.	0.11
MILE 71.40	805.48	2078.	1.39	1496.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.45	2099.	1.79	1170.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2119.	1.98	1071.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.20	2140.	1.04	2055.	323.	3.08	0.0320	20.	7.	0.07
MILE 63.00	794.09	2159.	0.62	3462.	341.	4.62	0.0400	20.	13.	0.03
MILE 60.90	794.01	2175.	0.47	4609.	355.	5.72	0.0450	20.	17.	0.02
MILE 58.80	793.99	190.	0.03	5738.	354.	6.13	0.0400	-1982.	21.	0.00
MILE 57.00	793.99	202.	0.03	6361.	396.	6.02	0.0200	18.	19.	0.00
MILE 55.00	793.99	216.	0.03	6472.	458.	6.50	0.0200	18.	20.	0.00
MILE 53.10	793.99	228.	0.03	8912.	564.	5.99	0.0200	19.	21.	0.00
MILE 51.00	793.99	239.	0.02	9632.	917.	6.11	0.0200	23.	25.	0.00
MILE 48.30	793.99	246.	0.02	12994.	1620.	4.91	0.0200	23.	25.	0.00
MILE 46.20	793.99	247.	0.02	15535.	1814.	6.73	0.0200	20.	32.	0.00
MILE 44.10	793.99	251.	0.01	27601.	1506.	8.04	0.0300	12.	39.	0.00
MILE 43.70	793.99	253.	0.02	14295.	1363.	8.23	0.0300	10.	41.	0.00
MILE 42.00	793.99	260.	0.01	18720.	1330.	6.16	0.0300	22.	44.	0.00
MILE 39.10	794.00	273.	0.02	18077.	1352.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.00	285.	0.01	31811.	1119.	7.26	0.0280	15.	43.	0.00
MILE 36.00	794.00	292.	0.01	19705.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.00	302.	0.01	29983.	1226.	9.63	0.0280	11.	45.	0.00
MILE 33.60	794.00	308.	0.00	61912.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	320.	0.01	30456.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	331.	0.01	32067.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	340.	0.01	35752.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	354.	0.01	37103.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	372.	0.01	45970.	1052.	12.00	0.0230	20.	59.	0.00
MILE 23.10	794.00	391.	0.01	37830.	1083.	11.43	0.0230	20.	64.	0.00

0DATE 3-13-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 9.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.64	759.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.88	2020.	2.05	984.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2040.	1.99	1025.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2059.	1.77	1164.	148.	2.78	0.0330	20.	8.	0.11
MILE 71.40	805.48	2080.	1.39	1497.	226.	2.46	0.0400	20.	8.	0.10

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
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MILE 69.30	802.45	2100.	1.79	1170.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2119.	1.98	1072.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.20	2137.	1.04	2057.	324.	3.09	0.0320	20.	7.	0.07
MILE 63.00	794.09	2147.	0.62	3464.	341.	4.62	0.0400	20.	13.	0.03
MILE 60.90	794.02	2157.	0.47	4612.	355.	5.72	0.0450	20.	18.	0.02
MILE 58.80	794.00	165.	0.03	5741.	354.	6.13	0.0400	-1982.	21.	0.00
MILE 57.00	794.00	172.	0.03	6365.	396.	6.02	0.0200	18.	19.	0.00
MILE 55.00	794.00	180.	0.03	6475.	458.	6.50	0.0200	18.	20.	0.00
MILE 53.10	794.00	185.	0.02	8917.	565.	5.99	0.0200	19.	21.	0.00
MILE 51.00	794.00	186.	0.02	9635.	918.	6.11	0.0200	23.	25.	0.00
MILE 48.30	794.00	174.	0.01	13000.	1620.	4.91	0.0200	23.	25.	0.00
MILE 46.20	794.00	157.	0.01	15540.	1814.	6.73	0.0200	20.	32.	0.00
MILE 44.10	794.00	144.	0.01	27607.	1506.	8.04	0.0300	12.	39.	0.00
MILE 43.70	794.00	142.	0.01	14297.	1363.	8.23	0.0300	10.	41.	0.00
MILE 42.00	794.00	140.	0.01	18725.	1330.	6.16	0.0300	22.	44.	0.00
MILE 39.10	794.00	141.	0.01	18079.	1353.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.00	147.	0.00	31815.	1120.	7.26	0.0280	15.	43.	0.00
MILE 36.00	794.00	152.	0.01	19707.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.00	159.	0.01	29985.	1226.	9.63	0.0280	11.	45.	0.00
MILE 33.60	794.00	162.	0.00	61917.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	169.	0.01	30457.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	178.	0.01	32068.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	187.	0.01	35754.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	200.	0.01	37103.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	218.	0.00	45971.	1052.	12.00	0.0230	20.	59.	0.00
MILE 23.10	794.00	238.	0.01	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-13-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 10.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.64	758.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.88	2020.	2.05	985.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2041.	1.99	1025.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2061.	1.77	1164.	148.	2.79	0.0330	20.	8.	0.11
MILE 71.40	805.48	2081.	1.39	1497.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.45	2100.	1.79	1171.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2119.	1.98	1072.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.21	2134.	1.04	2061.	324.	3.09	0.0320	20.	7.	0.07
MILE 63.00	794.10	2143.	0.62	3468.	341.	4.62	0.0400	20.	13.	0.03
MILE 60.90	794.03	2152.	0.47	4615.	356.	5.72	0.0450	20.	18.	0.02
MILE 58.80	794.01	161.	0.03	5744.	354.	6.14	0.0400	-1982.	21.	0.00
MILE 57.00	794.01	170.	0.03	6369.	396.	6.02	0.0200	18.	19.	0.00
MILE 55.00	794.01	178.	0.03	6478.	458.	6.50	0.0200	18.	21.	0.00
MILE 53.10	794.01	185.	0.02	8922.	565.	5.99	0.0200	19.	21.	0.00
MILE 51.00	794.01	188.	0.02	9639.	918.	6.11	0.0200	23.	25.	0.00
MILE 48.30	794.00	180.	0.01	13008.	1621.	4.91	0.0200	23.	25.	0.00

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
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MILE 46.20	794.00	168.	0.01	15545.	1814.	6.73	0.0200	20.	32.	0.00
MILE 44.10	794.00	160.	0.01	27614.	1507.	8.04	0.0300	12.	39.	0.00
MILE 43.70	794.00	159.	0.01	14300.	1363.	8.23	0.0300	10.	41.	0.00
MILE 42.00	794.00	160.	0.01	18731.	1330.	6.16	0.0300	22.	44.	0.00
MILE 39.10	794.00	165.	0.01	18083.	1353.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.00	174.	0.01	31821.	1120.	7.26	0.0280	15.	43.	0.00
MILE 36.00	794.00	179.	0.01	19710.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.00	188.	0.01	29988.	1226.	9.63	0.0280	11.	46.	0.00
MILE 33.60	794.00	192.	0.00	61923.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	202.	0.01	30459.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	212.	0.01	32070.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	221.	0.01	35755.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	235.	0.01	37104.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	254.	0.01	45971.	1052.	12.00	0.0230	20.	60.	0.00
MILE 23.10	794.00	274.	0.01	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-13-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 11.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.64	758.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.88	2020.	2.05	985.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2041.	1.99	1025.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2061.	1.77	1164.	148.	2.79	0.0330	20.	8.	0.11
MILE 71.40	805.48	2081.	1.39	1497.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.45	2100.	1.79	1170.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2118.	1.98	1072.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.22	2134.	1.03	2064.	324.	3.09	0.0320	20.	7.	0.07
MILE 63.00	794.11	2148.	0.62	3470.	341.	4.62	0.0400	20.	13.	0.03
MILE 60.90	794.04	2164.	0.47	4617.	356.	5.72	0.0450	20.	18.	0.02
MILE 58.80	794.01	181.	0.03	5746.	354.	6.14	0.0400	-1982.	21.	0.00
MILE 57.00	794.01	195.	0.03	6371.	396.	6.02	0.0200	18.	19.	0.00
MILE 55.00	794.01	212.	0.03	6480.	459.	6.51	0.0200	18.	21.	0.00
MILE 53.10	794.01	227.	0.03	8924.	565.	6.00	0.0200	19.	21.	0.00
MILE 51.00	794.01	243.	0.03	9641.	918.	6.11	0.0200	23.	25.	0.00
MILE 48.30	794.01	261.	0.02	13012.	1621.	4.91	0.0200	23.	25.	0.00
MILE 46.20	794.01	274.	0.02	15548.	1814.	6.73	0.0200	20.	32.	0.00
MILE 44.10	794.01	288.	0.01	27618.	1507.	8.04	0.0300	12.	39.	0.00
MILE 43.70	794.01	291.	0.02	14302.	1363.	8.23	0.0300	10.	41.	0.00
MILE 42.00	794.01	303.	0.02	18735.	1330.	6.16	0.0300	22.	44.	0.00
MILE 39.10	794.00	327.	0.02	18084.	1353.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.00	344.	0.01	31823.	1120.	7.26	0.0280	15.	43.	0.00
MILE 36.00	794.00	353.	0.02	19711.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.00	365.	0.01	29989.	1226.	9.63	0.0280	11.	46.	0.00
MILE 33.60	794.00	374.	0.01	61927.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	392.	0.01	30460.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	405.	0.01	32071.	883.	9.91	0.0200	12.	53.	0.00

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 87 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE	29.00	794.00	415.	0.01	35756.	1054.	10.78	0.0200	13.	54.	0.00
MILE	27.30	794.00	431.	0.01	37105.	1054.	11.17	0.0230	18.	57.	0.00
MILE	25.20	794.00	451.	0.01	45971.	1052.	12.00	0.0230	20.	60.	0.00
MILE	23.10	794.00	471.	0.01	37830.	1083.	11.43	0.0230	20.	64.	0.00

0DATE 3-13-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 12.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	822.67	2000.	2.64	757.	274.	2.23	0.0290	20.	4.	0.28
MILE	77.70	816.88	2020.	2.05	985.	181.	2.46	0.0400	20.	6.	0.16
MILE	75.60	810.82	2040.	1.99	1025.	164.	2.49	0.0400	20.	4.	0.14
MILE	73.50	807.08	2060.	1.77	1164.	148.	2.79	0.0330	20.	8.	0.11
MILE	71.40	805.48	2080.	1.39	1497.	226.	2.46	0.0400	20.	8.	0.10
MILE	69.30	802.45	2098.	1.79	1170.	264.	2.18	0.0340	20.	4.	0.15
MILE	67.20	797.31	2118.	1.98	1072.	265.	2.22	0.0340	20.	7.	0.17
MILE	65.10	794.22	2137.	1.03	2065.	324.	3.09	0.0320	20.	7.	0.07
MILE	63.00	794.11	2160.	0.62	3470.	341.	4.62	0.0400	20.	13.	0.03
MILE	60.90	794.04	2184.	0.47	4617.	356.	5.72	0.0450	20.	18.	0.02
MILE	58.80	794.01	211.	0.04	5745.	354.	6.14	0.0400	-1982.	21.	0.00
MILE	57.00	794.01	233.	0.04	6370.	396.	6.02	0.0200	18.	19.	0.00
MILE	55.00	794.01	258.	0.04	6479.	459.	6.51	0.0200	18.	21.	0.00
MILE	53.10	794.01	283.	0.03	8923.	565.	6.00	0.0200	19.	21.	0.00
MILE	51.00	794.01	313.	0.03	9640.	918.	6.11	0.0200	23.	25.	0.00
MILE	48.30	794.01	361.	0.03	13010.	1621.	4.91	0.0200	23.	25.	0.00
MILE	46.20	794.01	402.	0.03	15547.	1814.	6.73	0.0200	20.	32.	0.00
MILE	44.10	794.01	441.	0.02	27616.	1507.	8.04	0.0300	12.	39.	0.00
MILE	43.70	794.01	447.	0.03	14301.	1363.	8.23	0.0300	10.	41.	0.00
MILE	42.00	794.00	474.	0.03	18733.	1330.	6.16	0.0300	22.	44.	0.00
MILE	39.10	794.00	517.	0.03	18083.	1353.	7.86	0.0230	24.	43.	0.00
MILE	37.00	794.00	545.	0.02	31822.	1120.	7.26	0.0280	15.	43.	0.00
MILE	36.00	794.00	557.	0.03	19711.	901.	8.34	0.0280	11.	45.	0.00
MILE	34.60	794.00	574.	0.02	29988.	1226.	9.63	0.0280	11.	46.	0.00
MILE	33.60	794.00	587.	0.01	61925.	2141.	8.11	0.0290	15.	51.	0.00
MILE	31.50	794.00	615.	0.02	30459.	1757.	10.37	0.0250	16.	55.	0.00
MILE	30.10	794.00	631.	0.02	32070.	883.	9.91	0.0200	12.	53.	0.00
MILE	29.00	794.00	643.	0.02	35755.	1054.	10.78	0.0200	13.	54.	0.00
MILE	27.30	794.00	660.	0.02	37105.	1054.	11.17	0.0230	18.	57.	0.00
MILE	25.20	794.00	681.	0.01	45971.	1052.	12.00	0.0230	20.	60.	0.00
MILE	23.10	794.00	701.	0.02	37830.	1083.	11.43	0.0230	20.	64.	0.00

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Appendix F		Checked	ACM

TIME 13.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.64	757.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.88	2020.	2.05	984.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2039.	1.99	1025.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2059.	1.77	1164.	148.	2.78	0.0330	20.	8.	0.11
MILE 71.40	805.48	2078.	1.39	1497.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.45	2098.	1.79	1170.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2118.	1.98	1072.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.22	2140.	1.04	2063.	324.	3.09	0.0320	20.	7.	0.07
MILE 63.00	794.10	2169.	0.63	3468.	341.	4.62	0.0400	20.	13.	0.03
MILE 60.90	794.03	2200.	0.48	4614.	356.	5.72	0.0450	20.	18.	0.02
MILE 58.80	794.00	230.	0.04	5742.	354.	6.14	0.0400	-1982.	21.	0.00
MILE 57.00	794.00	256.	0.04	6367.	396.	6.02	0.0200	18.	19.	0.00
MILE 55.00	794.00	286.	0.04	6476.	458.	6.50	0.0200	18.	21.	0.00
MILE 53.10	794.00	316.	0.04	8919.	565.	5.99	0.0200	19.	21.	0.00
MILE 51.00	794.00	353.	0.04	9637.	918.	6.11	0.0200	23.	25.	0.00
MILE 48.30	794.00	415.	0.03	13004.	1621.	4.91	0.0200	23.	25.	0.00
MILE 46.20	794.00	470.	0.03	15542.	1814.	6.73	0.0200	20.	32.	0.00
MILE 44.10	794.00	521.	0.02	27610.	1506.	8.04	0.0300	12.	39.	0.00
MILE 43.70	794.00	530.	0.04	14299.	1363.	8.23	0.0300	10.	41.	0.00
MILE 42.00	794.00	563.	0.03	18728.	1330.	6.16	0.0300	22.	44.	0.00
MILE 39.10	794.00	616.	0.03	18081.	1353.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.00	649.	0.02	31817.	1120.	7.26	0.0280	15.	43.	0.00
MILE 36.00	794.00	663.	0.03	19708.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.00	682.	0.02	29986.	1226.	9.63	0.0280	11.	46.	0.00
MILE 33.60	794.00	697.	0.01	61920.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	729.	0.02	30458.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	746.	0.02	32069.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	759.	0.02	35754.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	777.	0.02	37104.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	799.	0.02	45971.	1052.	12.00	0.0230	20.	60.	0.00
MILE 23.10	794.00	818.	0.02	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-13-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 14.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.64	758.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.87	2019.	2.05	984.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2038.	1.99	1024.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2058.	1.77	1163.	148.	2.78	0.0330	20.	8.	0.11
MILE 71.40	805.48	2077.	1.39	1496.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.45	2098.	1.79	1170.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2118.	1.98	1071.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.21	2142.	1.04	2059.	324.	3.09	0.0320	20.	7.	0.07

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MILE 63.00	794.09	2171.	0.63	3465.	341.	4.62	0.0400	20.	13.	0.03
MILE 60.90	794.02	2200.	0.48	4611.	355.	5.72	0.0450	20.	18.	0.02
MILE 58.80	793.99	229.	0.04	5739.	354.	6.13	0.0400	-1982.	21.	0.00
MILE 57.00	793.99	253.	0.04	6363.	396.	6.02	0.0200	18.	19.	0.00
MILE 55.00	793.99	280.	0.04	6473.	458.	6.50	0.0200	18.	20.	0.00
MILE 53.10	793.99	307.	0.03	8914.	564.	5.99	0.0200	19.	21.	0.00
MILE 51.00	793.99	341.	0.04	9633.	917.	6.11	0.0200	23.	25.	0.00
MILE 48.30	793.99	394.	0.03	12996.	1620.	4.91	0.0200	23.	25.	0.00
MILE 46.20	793.99	440.	0.03	15537.	1814.	6.73	0.0200	20.	32.	0.00
MILE 44.10	794.00	484.	0.02	27604.	1506.	8.04	0.0300	12.	39.	0.00
MILE 43.70	794.00	491.	0.03	14296.	1363.	8.23	0.0300	10.	41.	0.00
MILE 42.00	794.00	520.	0.03	18722.	1330.	6.16	0.0300	22.	44.	0.00
MILE 39.10	794.00	566.	0.03	18078.	1352.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.00	595.	0.02	31813.	1119.	7.26	0.0280	15.	43.	0.00
MILE 36.00	794.00	608.	0.03	19706.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.00	625.	0.02	29984.	1226.	9.63	0.0280	11.	45.	0.00
MILE 33.60	794.00	638.	0.01	61914.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	667.	0.02	30456.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	682.	0.02	32067.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	694.	0.02	35753.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	711.	0.02	37103.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	732.	0.02	45970.	1052.	12.00	0.0230	20.	59.	0.00
MILE 23.10	794.00	752.	0.02	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-13-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 15.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.64	758.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.87	2019.	2.05	984.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2038.	1.99	1024.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2058.	1.77	1163.	148.	2.78	0.0330	20.	8.	0.11
MILE 71.40	805.48	2078.	1.39	1496.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.45	2098.	1.79	1170.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2119.	1.98	1071.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.20	2141.	1.04	2056.	323.	3.09	0.0320	20.	7.	0.07
MILE 63.00	794.09	2165.	0.63	3463.	341.	4.62	0.0400	20.	13.	0.03
MILE 60.90	794.02	2188.	0.47	4609.	355.	5.72	0.0450	20.	17.	0.02
MILE 58.80	793.99	208.	0.04	5738.	354.	6.13	0.0400	-1982.	21.	0.00
MILE 57.00	793.99	226.	0.04	6361.	396.	6.02	0.0200	18.	19.	0.00
MILE 55.00	793.99	246.	0.04	6472.	458.	6.50	0.0200	18.	20.	0.00
MILE 53.10	793.99	265.	0.03	8912.	564.	5.99	0.0200	19.	21.	0.00
MILE 51.00	793.99	286.	0.03	9632.	917.	6.11	0.0200	23.	25.	0.00
MILE 48.30	793.99	313.	0.02	12994.	1620.	4.91	0.0200	23.	25.	0.00
MILE 46.20	793.99	335.	0.02	15535.	1814.	6.73	0.0200	20.	32.	0.00
MILE 44.10	793.99	355.	0.01	27601.	1506.	8.04	0.0300	12.	39.	0.00
MILE 43.70	793.99	359.	0.03	14295.	1363.	8.23	0.0300	10.	41.	0.00

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MILE 42.00	793.99	376.	0.02	18720.	1330.	6.16	0.0300	22.	44.	0.00
MILE 39.10	794.00	403.	0.02	18076.	1352.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.00	423.	0.01	31811.	1119.	7.26	0.0280	15.	43.	0.00
MILE 36.00	794.00	432.	0.02	19705.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.00	445.	0.01	29983.	1226.	9.63	0.0280	11.	45.	0.00
MILE 33.60	794.00	454.	0.01	61911.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	474.	0.02	30456.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	486.	0.02	32067.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	497.	0.01	35752.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	512.	0.01	37103.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	532.	0.01	45970.	1052.	12.00	0.0230	20.	59.	0.00
MILE 23.10	794.00	551.	0.01	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-13-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 16.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.64	759.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.87	2019.	2.05	984.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2039.	1.99	1024.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2059.	1.77	1163.	148.	2.78	0.0330	20.	8.	0.11
MILE 71.40	805.48	2079.	1.39	1496.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.45	2099.	1.79	1170.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2119.	1.98	1071.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.20	2139.	1.04	2056.	323.	3.09	0.0320	20.	7.	0.07
MILE 63.00	794.09	2155.	0.62	3463.	341.	4.62	0.0400	20.	13.	0.03
MILE 60.90	794.02	2169.	0.47	4610.	355.	5.72	0.0450	20.	17.	0.02
MILE 58.80	793.99	182.	0.03	5739.	354.	6.13	0.0400	-1982.	21.	0.00
MILE 57.00	793.99	193.	0.03	6363.	396.	6.02	0.0200	18.	19.	0.00
MILE 55.00	793.99	204.	0.03	6473.	458.	6.50	0.0200	18.	20.	0.00
MILE 53.10	793.99	215.	0.02	8914.	564.	5.99	0.0200	19.	21.	0.00
MILE 51.00	793.99	222.	0.02	9633.	917.	6.11	0.0200	23.	25.	0.00
MILE 48.30	793.99	224.	0.02	12996.	1620.	4.91	0.0200	23.	25.	0.00
MILE 46.20	793.99	220.	0.01	15537.	1814.	6.73	0.0200	20.	32.	0.00
MILE 44.10	794.00	219.	0.01	27604.	1506.	8.04	0.0300	12.	39.	0.00
MILE 43.70	794.00	219.	0.02	14296.	1363.	8.23	0.0300	10.	41.	0.00
MILE 42.00	794.00	223.	0.01	18722.	1330.	6.16	0.0300	22.	44.	0.00
MILE 39.10	794.00	233.	0.01	18078.	1352.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.00	244.	0.01	31813.	1119.	7.26	0.0280	15.	43.	0.00
MILE 36.00	794.00	250.	0.01	19706.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.00	259.	0.01	29984.	1226.	9.63	0.0280	11.	45.	0.00
MILE 33.60	794.00	265.	0.00	61914.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	275.	0.01	30456.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	285.	0.01	32067.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	294.	0.01	35753.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	308.	0.01	37103.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	326.	0.01	45970.	1052.	12.00	0.0230	20.	59.	0.00

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MILE 23.10 794.00 345. 0.01 37830. 1083. 11.43 0.0230 20. 64. 0.00

0DATE 3-13-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 17.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.64	759.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.88	2020.	2.05	985.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2040.	1.99	1025.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2060.	1.77	1164.	148.	2.78	0.0330	20.	8.	0.11
MILE 71.40	805.48	2080.	1.39	1497.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.45	2100.	1.79	1170.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2119.	1.98	1072.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.21	2136.	1.04	2059.	324.	3.09	0.0320	20.	7.	0.07
MILE 63.00	794.10	2147.	0.62	3466.	341.	4.62	0.0400	20.	13.	0.03
MILE 60.90	794.03	2156.	0.47	4613.	356.	5.72	0.0450	20.	18.	0.02
MILE 58.80	794.00	165.	0.03	5742.	354.	6.14	0.0400	-1982.	21.	0.00
MILE 57.00	794.00	173.	0.03	6366.	396.	6.02	0.0200	18.	19.	0.00
MILE 55.00	794.00	182.	0.03	6476.	458.	6.50	0.0200	18.	21.	0.00
MILE 53.10	794.00	188.	0.02	8918.	565.	5.99	0.0200	19.	21.	0.00
MILE 51.00	794.00	191.	0.02	9637.	918.	6.11	0.0200	23.	25.	0.00
MILE 48.30	794.00	182.	0.01	13003.	1621.	4.91	0.0200	23.	25.	0.00
MILE 46.20	794.00	168.	0.01	15542.	1814.	6.73	0.0200	20.	32.	0.00
MILE 44.10	794.00	158.	0.01	27610.	1506.	8.04	0.0300	12.	39.	0.00
MILE 43.70	794.00	158.	0.01	14298.	1363.	8.23	0.0300	10.	41.	0.00
MILE 42.00	794.00	157.	0.01	18727.	1330.	6.16	0.0300	22.	44.	0.00
MILE 39.10	794.00	161.	0.01	18080.	1353.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.00	169.	0.01	31817.	1120.	7.26	0.0280	15.	43.	0.00
MILE 36.00	794.00	174.	0.01	19708.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.00	182.	0.01	29986.	1226.	9.63	0.0280	11.	46.	0.00
MILE 33.60	794.00	186.	0.00	61919.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	194.	0.01	30458.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	204.	0.01	32069.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	213.	0.01	35754.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	227.	0.01	37104.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	245.	0.01	45971.	1052.	12.00	0.0230	20.	60.	0.00
MILE 23.10	794.00	265.	0.01	37830.	1083.	11.43	0.0230	20.	64.	0.00

0DATE 3-13-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 18.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80 822.67 2000. 2.64 758. 274. 2.23 0.0290 20. 4. 0.28

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 92 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE	77.70	816.88	2020.	2.05	985.	181.	2.46	0.0400	20.	6.	0.16
MILE	75.60	810.82	2041.	1.99	1025.	164.	2.49	0.0400	20.	4.	0.14
MILE	73.50	807.08	2061.	1.77	1164.	148.	2.79	0.0330	20.	8.	0.11
MILE	71.40	805.48	2081.	1.39	1497.	226.	2.46	0.0400	20.	8.	0.10
MILE	69.30	802.45	2100.	1.79	1170.	264.	2.18	0.0340	20.	4.	0.15
MILE	67.20	797.31	2119.	1.98	1072.	265.	2.22	0.0340	20.	7.	0.17
MILE	65.10	794.22	2134.	1.04	2062.	324.	3.09	0.0320	20.	7.	0.07
MILE	63.00	794.11	2146.	0.62	3469.	341.	4.62	0.0400	20.	13.	0.03
MILE	60.90	794.03	2157.	0.47	4616.	356.	5.72	0.0450	20.	18.	0.02
MILE	58.80	794.01	170.	0.03	5745.	354.	6.14	0.0400	-1982.	21.	0.00
MILE	57.00	794.01	181.	0.03	6369.	396.	6.02	0.0200	18.	19.	0.00
MILE	55.00	794.01	192.	0.03	6479.	459.	6.51	0.0200	18.	21.	0.00
MILE	53.10	794.01	202.	0.02	8922.	565.	5.99	0.0200	19.	21.	0.00
MILE	51.00	794.01	211.	0.02	9640.	918.	6.11	0.0200	23.	25.	0.00
MILE	48.30	794.01	214.	0.02	13009.	1621.	4.91	0.0200	23.	25.	0.00
MILE	46.20	794.01	211.	0.01	15546.	1814.	6.73	0.0200	20.	32.	0.00
MILE	44.10	794.00	212.	0.01	27615.	1507.	8.04	0.0300	12.	39.	0.00
MILE	43.70	794.00	213.	0.01	14301.	1363.	8.23	0.0300	10.	41.	0.00
MILE	42.00	794.00	219.	0.01	18732.	1330.	6.16	0.0300	22.	44.	0.00
MILE	39.10	794.00	231.	0.01	18083.	1353.	7.86	0.0230	24.	43.	0.00
MILE	37.00	794.00	243.	0.01	31821.	1120.	7.26	0.0280	15.	43.	0.00
MILE	36.00	794.00	250.	0.01	19710.	901.	8.34	0.0280	11.	45.	0.00
MILE	34.60	794.00	260.	0.01	29988.	1226.	9.63	0.0280	11.	46.	0.00
MILE	33.60	794.00	267.	0.00	61924.	2141.	8.11	0.0290	15.	51.	0.00
MILE	31.50	794.00	280.	0.01	30459.	1757.	10.37	0.0250	16.	55.	0.00
MILE	30.10	794.00	291.	0.01	32070.	883.	9.91	0.0200	12.	53.	0.00
MILE	29.00	794.00	300.	0.01	35755.	1054.	10.78	0.0200	13.	54.	0.00
MILE	27.30	794.00	315.	0.01	37104.	1054.	11.17	0.0230	18.	57.	0.00
MILE	25.20	794.00	334.	0.01	45971.	1052.	12.00	0.0230	20.	60.	0.00
MILE	23.10	794.00	354.	0.01	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-13-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 19.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
 DEPTH FROUDE

MILE	79.80	822.67	2000.	2.64	758.	274.	2.23	0.0290	20.	4.	0.28
MILE	77.70	816.88	2020.	2.05	985.	181.	2.46	0.0400	20.	6.	0.16
MILE	75.60	810.82	2041.	1.99	1025.	164.	2.49	0.0400	20.	4.	0.14
MILE	73.50	807.08	2061.	1.77	1164.	148.	2.79	0.0330	20.	8.	0.11
MILE	71.40	805.48	2080.	1.39	1497.	226.	2.46	0.0400	20.	8.	0.10
MILE	69.30	802.45	2099.	1.79	1170.	264.	2.18	0.0340	20.	4.	0.15
MILE	67.20	797.31	2118.	1.98	1072.	265.	2.22	0.0340	20.	7.	0.17
MILE	65.10	794.22	2135.	1.03	2064.	324.	3.09	0.0320	20.	7.	0.07
MILE	63.00	794.11	2153.	0.62	3470.	341.	4.62	0.0400	20.	13.	0.03
MILE	60.90	794.04	2172.	0.47	4617.	356.	5.72	0.0450	20.	18.	0.02
MILE	58.80	794.01	192.	0.03	5746.	354.	6.14	0.0400	-1982.	21.	0.00
MILE	57.00	794.01	209.	0.03	6370.	396.	6.02	0.0200	18.	19.	0.00

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 93 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE	55.00	794.01	229.	0.04	6479.	459.	6.51	0.0200	18.	21.	0.00
MILE	53.10	794.01	247.	0.03	8924.	565.	6.00	0.0200	19.	21.	0.00
MILE	51.00	794.01	269.	0.03	9641.	918.	6.11	0.0200	23.	25.	0.00
MILE	48.30	794.01	297.	0.02	13011.	1621.	4.91	0.0200	23.	25.	0.00
MILE	46.20	794.01	320.	0.02	15548.	1814.	6.73	0.0200	20.	32.	0.00
MILE	44.10	794.01	343.	0.01	27617.	1507.	8.04	0.0300	12.	39.	0.00
MILE	43.70	794.01	347.	0.02	14302.	1363.	8.23	0.0300	10.	41.	0.00
MILE	42.00	794.01	365.	0.02	18734.	1330.	6.16	0.0300	22.	44.	0.00
MILE	39.10	794.00	395.	0.02	18084.	1353.	7.86	0.0230	24.	43.	0.00
MILE	37.00	794.00	416.	0.01	31823.	1120.	7.26	0.0280	15.	43.	0.00
MILE	36.00	794.00	426.	0.02	19711.	901.	8.34	0.0280	11.	45.	0.00
MILE	34.60	794.00	440.	0.01	29989.	1226.	9.63	0.0280	11.	46.	0.00
MILE	33.60	794.00	450.	0.01	61926.	2141.	8.11	0.0290	15.	51.	0.00
MILE	31.50	794.00	472.	0.02	30460.	1757.	10.37	0.0250	16.	55.	0.00
MILE	30.10	794.00	486.	0.02	32071.	883.	9.91	0.0200	12.	53.	0.00
MILE	29.00	794.00	496.	0.01	35755.	1054.	10.78	0.0200	13.	54.	0.00
MILE	27.30	794.00	513.	0.01	37105.	1054.	11.17	0.0230	18.	57.	0.00
MILE	25.20	794.00	533.	0.01	45971.	1052.	12.00	0.0230	20.	60.	0.00
MILE	23.10	794.00	553.	0.01	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-13-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 20.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	822.67	2000.	2.64	757.	274.	2.23	0.0290	20.	4.	0.28
MILE	77.70	816.88	2020.	2.05	984.	181.	2.46	0.0400	20.	6.	0.16
MILE	75.60	810.82	2040.	1.99	1025.	164.	2.49	0.0400	20.	4.	0.14
MILE	73.50	807.08	2060.	1.77	1164.	148.	2.79	0.0330	20.	8.	0.11
MILE	71.40	805.48	2079.	1.39	1497.	226.	2.46	0.0400	20.	8.	0.10
MILE	69.30	802.45	2098.	1.79	1170.	264.	2.18	0.0340	20.	4.	0.15
MILE	67.20	797.31	2118.	1.98	1072.	265.	2.22	0.0340	20.	7.	0.17
MILE	65.10	794.22	2138.	1.04	2064.	324.	3.09	0.0320	20.	7.	0.07
MILE	63.00	794.11	2163.	0.62	3469.	341.	4.62	0.0400	20.	13.	0.03
MILE	60.90	794.03	2189.	0.47	4616.	356.	5.72	0.0450	20.	18.	0.02
MILE	58.80	794.01	217.	0.04	5744.	354.	6.14	0.0400	-1982.	21.	0.00
MILE	57.00	794.01	240.	0.04	6369.	396.	6.02	0.0200	18.	19.	0.00
MILE	55.00	794.01	267.	0.04	6478.	458.	6.50	0.0200	18.	21.	0.00
MILE	53.10	794.01	293.	0.03	8921.	565.	5.99	0.0200	19.	21.	0.00
MILE	51.00	794.00	325.	0.03	9639.	918.	6.11	0.0200	23.	25.	0.00
MILE	48.30	794.00	376.	0.03	13008.	1621.	4.91	0.0200	23.	25.	0.00
MILE	46.20	794.00	421.	0.03	15545.	1814.	6.73	0.0200	20.	32.	0.00
MILE	44.10	794.00	463.	0.02	27614.	1507.	8.04	0.0300	12.	39.	0.00
MILE	43.70	794.00	470.	0.03	14300.	1363.	8.23	0.0300	10.	41.	0.00
MILE	42.00	794.00	499.	0.03	18731.	1330.	6.16	0.0300	22.	44.	0.00
MILE	39.10	794.00	544.	0.03	18082.	1353.	7.86	0.0230	24.	43.	0.00
MILE	37.00	794.00	574.	0.02	31820.	1120.	7.26	0.0280	15.	43.	0.00
MILE	36.00	794.00	587.	0.03	19710.	901.	8.34	0.0280	11.	45.	0.00

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 94 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 34.60	794.00	604.	0.02	29988.	1226.	9.63	0.0280	11.	46.	0.00
MILE 33.60	794.00	617.	0.01	61923.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	646.	0.02	30459.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	663.	0.02	32070.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	675.	0.02	35755.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	693.	0.02	37104.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	714.	0.02	45971.	1052.	12.00	0.0230	20.	60.	0.00
MILE 23.10	794.00	734.	0.02	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-13-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 21.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.64	758.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.87	2019.	2.05	984.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2039.	1.99	1024.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2058.	1.77	1164.	148.	2.78	0.0330	20.	8.	0.11
MILE 71.40	805.48	2078.	1.39	1496.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.45	2098.	1.79	1170.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2118.	1.98	1071.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.21	2141.	1.04	2061.	324.	3.09	0.0320	20.	7.	0.07
MILE 63.00	794.10	2169.	0.63	3467.	341.	4.62	0.0400	20.	13.	0.03
MILE 60.90	794.03	2199.	0.48	4613.	356.	5.72	0.0450	20.	18.	0.02
MILE 58.80	794.00	228.	0.04	5741.	354.	6.14	0.0400	-1982.	21.	0.00
MILE 57.00	794.00	253.	0.04	6365.	396.	6.02	0.0200	18.	19.	0.00
MILE 55.00	794.00	281.	0.04	6475.	458.	6.50	0.0200	18.	20.	0.00
MILE 53.10	794.00	309.	0.03	8917.	565.	5.99	0.0200	19.	21.	0.00
MILE 51.00	794.00	345.	0.04	9636.	918.	6.11	0.0200	23.	25.	0.00
MILE 48.30	794.00	402.	0.03	13001.	1621.	4.91	0.0200	23.	25.	0.00
MILE 46.20	794.00	452.	0.03	15540.	1814.	6.73	0.0200	20.	32.	0.00
MILE 44.10	794.00	499.	0.02	27608.	1506.	8.04	0.0300	12.	39.	0.00
MILE 43.70	794.00	507.	0.04	14298.	1363.	8.23	0.0300	10.	41.	0.00
MILE 42.00	794.00	538.	0.03	18726.	1330.	6.16	0.0300	22.	44.	0.00
MILE 39.10	794.00	588.	0.03	18080.	1353.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.00	619.	0.02	31816.	1120.	7.26	0.0280	15.	43.	0.00
MILE 36.00	794.00	632.	0.03	19708.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.00	650.	0.02	29985.	1226.	9.63	0.0280	11.	45.	0.00
MILE 33.60	794.00	664.	0.01	61918.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	694.	0.02	30457.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	711.	0.02	32068.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	723.	0.02	35754.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	741.	0.02	37103.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	762.	0.02	45971.	1052.	12.00	0.0230	20.	59.	0.00
MILE 23.10	794.00	782.	0.02	37830.	1083.	11.43	0.0230	20.	64.	0.00

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 95 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

0DATE 3-13-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 22.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.64	758.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.87	2019.	2.05	984.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2038.	1.99	1024.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2058.	1.77	1163.	148.	2.78	0.0330	20.	8.	0.11
MILE 71.40	805.48	2077.	1.39	1496.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.45	2098.	1.79	1170.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2118.	1.98	1071.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.21	2142.	1.04	2058.	324.	3.09	0.0320	20.	7.	0.07
MILE 63.00	794.09	2168.	0.63	3464.	341.	4.62	0.0400	20.	13.	0.03
MILE 60.90	794.02	2195.	0.48	4611.	355.	5.72	0.0450	20.	17.	0.02
MILE 58.80	793.99	220.	0.04	5739.	354.	6.13	0.0400	-1982.	21.	0.00
MILE 57.00	793.99	242.	0.04	6363.	396.	6.02	0.0200	18.	19.	0.00
MILE 55.00	793.99	266.	0.04	6473.	458.	6.50	0.0200	18.	20.	0.00
MILE 53.10	793.99	290.	0.03	8914.	564.	5.99	0.0200	19.	21.	0.00
MILE 51.00	793.99	318.	0.03	9633.	917.	6.11	0.0200	23.	25.	0.00
MILE 48.30	793.99	361.	0.03	12996.	1620.	4.91	0.0200	23.	25.	0.00
MILE 46.20	793.99	398.	0.03	15537.	1814.	6.73	0.0200	20.	32.	0.00
MILE 44.10	793.99	432.	0.02	27603.	1506.	8.04	0.0300	12.	39.	0.00
MILE 43.70	793.99	438.	0.03	14296.	1363.	8.23	0.0300	10.	41.	0.00
MILE 42.00	794.00	462.	0.02	18721.	1330.	6.16	0.0300	22.	44.	0.00
MILE 39.10	794.00	501.	0.03	18077.	1352.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.00	527.	0.02	31812.	1119.	7.26	0.0280	15.	43.	0.00
MILE 36.00	794.00	538.	0.03	19706.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.00	553.	0.02	29984.	1226.	9.63	0.0280	11.	45.	0.00
MILE 33.60	794.00	565.	0.01	61913.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	590.	0.02	30456.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	604.	0.02	32067.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	616.	0.02	35753.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	632.	0.02	37103.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	652.	0.01	45970.	1052.	12.00	0.0230	20.	59.	0.00
MILE 23.10	794.00	672.	0.02	37830.	1083.	11.43	0.0230	20.	64.	0.00

0DATE 3-13-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 23.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.64	759.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.87	2019.	2.05	984.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2039.	1.99	1024.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2058.	1.77	1163.	148.	2.78	0.0330	20.	8.	0.11
MILE 71.40	805.48	2078.	1.39	1496.	226.	2.46	0.0400	20.	8.	0.10

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 96 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 69.30	802.45	2098.	1.79	1170.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2119.	1.98	1071.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.20	2140.	1.04	2057.	323.	3.09	0.0320	20.	7.	0.07
MILE 63.00	794.09	2161.	0.62	3463.	341.	4.62	0.0400	20.	13.	0.03
MILE 60.90	794.02	2181.	0.47	4610.	355.	5.72	0.0450	20.	17.	0.02
MILE 58.80	793.99	199.	0.03	5738.	354.	6.13	0.0400	-1982.	21.	0.00
MILE 57.00	793.99	214.	0.03	6362.	396.	6.02	0.0200	18.	19.	0.00
MILE 55.00	793.99	231.	0.04	6473.	458.	6.50	0.0200	18.	20.	0.00
MILE 53.10	793.99	247.	0.03	8913.	564.	5.99	0.0200	19.	21.	0.00
MILE 51.00	793.99	263.	0.03	9633.	917.	6.11	0.0200	23.	25.	0.00
MILE 48.30	793.99	282.	0.02	12995.	1620.	4.91	0.0200	23.	25.	0.00
MILE 46.20	793.99	294.	0.02	15536.	1814.	6.73	0.0200	20.	32.	0.00
MILE 44.10	793.99	307.	0.01	27602.	1506.	8.04	0.0300	12.	39.	0.00
MILE 43.70	793.99	310.	0.02	14295.	1363.	8.23	0.0300	10.	41.	0.00
MILE 42.00	794.00	322.	0.02	18721.	1330.	6.16	0.0300	22.	44.	0.00
MILE 39.10	794.00	344.	0.02	18077.	1352.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.00	360.	0.01	31812.	1119.	7.26	0.0280	15.	43.	0.00
MILE 36.00	794.00	369.	0.02	19706.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.00	380.	0.01	29983.	1226.	9.63	0.0280	11.	45.	0.00
MILE 33.60	794.00	388.	0.01	61913.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	404.	0.01	30456.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	416.	0.01	32067.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	426.	0.01	35753.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	441.	0.01	37103.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	460.	0.01	45970.	1052.	12.00	0.0230	20.	59.	0.00
MILE 23.10	794.00	479.	0.01	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-14-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 0.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.64	759.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.88	2020.	2.05	984.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2039.	1.99	1025.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2059.	1.77	1163.	148.	2.78	0.0330	20.	8.	0.11
MILE 71.40	805.48	2079.	1.39	1497.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.45	2099.	1.79	1170.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2119.	1.98	1072.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.20	2138.	1.04	2057.	324.	3.09	0.0320	20.	7.	0.07
MILE 63.00	794.09	2152.	0.62	3464.	341.	4.62	0.0400	20.	13.	0.03
MILE 60.90	794.02	2165.	0.47	4611.	355.	5.72	0.0450	20.	18.	0.02
MILE 58.80	794.00	177.	0.03	5740.	354.	6.13	0.0400	-1982.	21.	0.00
MILE 57.00	794.00	187.	0.03	6364.	396.	6.02	0.0200	18.	19.	0.00
MILE 55.00	794.00	198.	0.03	6474.	458.	6.50	0.0200	18.	20.	0.00
MILE 53.10	794.00	207.	0.02	8916.	565.	5.99	0.0200	19.	21.	0.00
MILE 51.00	794.00	214.	0.02	9635.	917.	6.11	0.0200	23.	25.	0.00
MILE 48.30	794.00	213.	0.02	12999.	1620.	4.91	0.0200	23.	25.	0.00

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
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MILE 46.20	794.00	207.	0.01	15539.	1814.	6.73	0.0200	20.	32.	0.00
MILE 44.10	794.00	204.	0.01	27606.	1506.	8.04	0.0300	12.	39.	0.00
MILE 43.70	794.00	204.	0.01	14297.	1363.	8.23	0.0300	10.	41.	0.00
MILE 42.00	794.00	207.	0.01	18724.	1330.	6.16	0.0300	22.	44.	0.00
MILE 39.10	794.00	215.	0.01	18079.	1353.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.00	225.	0.01	31814.	1120.	7.26	0.0280	15.	43.	0.00
MILE 36.00	794.00	231.	0.01	19707.	901.	8.34	0.0280	11.	45.	0.00
MILE 34.60	794.00	240.	0.01	29985.	1226.	9.63	0.0280	11.	45.	0.00
MILE 33.60	794.00	246.	0.00	61916.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	256.	0.01	30457.	1757.	10.37	0.0250	16.	55.	0.00
MILE 30.10	794.00	266.	0.01	32068.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	275.	0.01	35753.	1054.	10.78	0.0200	13.	54.	0.00
MILE 27.30	794.00	289.	0.01	37103.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	307.	0.01	45971.	1052.	12.00	0.0230	20.	59.	0.00
MILE 23.10	794.00	327.	0.01	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-14-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 1.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.64	758.	274.	2.23	0.0290	20.	4.	0.28
MILE 77.70	816.88	2020.	2.05	985.	181.	2.46	0.0400	20.	6.	0.16
MILE 75.60	810.82	2041.	1.99	1025.	164.	2.49	0.0400	20.	4.	0.14
MILE 73.50	807.08	2061.	1.77	1164.	148.	2.79	0.0330	20.	8.	0.11
MILE 71.40	805.48	2080.	1.39	1497.	226.	2.46	0.0400	20.	8.	0.10
MILE 69.30	802.45	2100.	1.79	1171.	264.	2.18	0.0340	20.	4.	0.15
MILE 67.20	797.31	2119.	1.98	1072.	265.	2.22	0.0340	20.	7.	0.17
MILE 65.10	794.21	2136.	1.04	2060.	324.	3.09	0.0320	20.	7.	0.07
MILE 63.00	794.10	2147.	0.62	3467.	341.	4.62	0.0400	20.	13.	0.03
MILE 60.90	794.03	2158.	0.47	4614.	356.	5.72	0.0450	20.	18.	0.02
MILE 58.80	794.00	169.	0.03	5743.	354.	6.14	0.0400	-1981.	21.	0.00
MILE 57.00	794.00	178.	0.03	6367.	396.	6.02	0.0200	18.	19.	0.00
MILE 55.00	794.00	189.	0.03	6477.	458.	6.50	0.0200	19.	21.	0.00
MILE 53.10	794.00	197.	0.02	8920.	565.	5.99	0.0200	19.	21.	0.00
MILE 51.00	794.00	202.	0.02	9638.	918.	6.11	0.0200	23.	25.	0.00
MILE 48.30	794.00	199.	0.02	13005.	1621.	4.91	0.0200	23.	25.	0.00
MILE 46.20	794.00	190.	0.01	15543.	1814.	6.73	0.0200	20.	32.	0.00
MILE 44.10	794.00	185.	0.01	27612.	1507.	8.04	0.0300	12.	39.	0.00
MILE 43.70	794.00	185.	0.01	14299.	1363.	8.23	0.0300	10.	41.	0.00
MILE 42.00	794.00	188.	0.01	18729.	1330.	6.16	0.0300	22.	44.	0.00
MILE 39.10	794.00	195.	0.01	18081.	1353.	7.86	0.0230	24.	43.	0.00
MILE 37.00	794.00	205.	0.01	31819.	1120.	7.26	0.0280	15.	43.	0.00
MILE 36.00	794.00	212.	0.01	19709.	901.	8.34	0.0280	12.	45.	0.00
MILE 34.60	794.00	221.	0.01	29987.	1226.	9.63	0.0280	12.	46.	0.00
MILE 33.60	794.00	226.	0.00	61921.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	237.	0.01	30458.	1757.	10.37	0.0250	17.	55.	0.00
MILE 30.10	794.00	248.	0.01	32069.	883.	9.91	0.0200	12.	53.	0.00

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MILE 29.00	794.00	257.	0.01	35754.	1054.	10.78	0.0200	14.	54.	0.00
MILE 27.30	794.00	271.	0.01	37104.	1054.	11.17	0.0230	18.	57.	0.00
MILE 25.20	794.00	291.	0.01	45971.	1052.	12.00	0.0230	20.	60.	0.00
MILE 23.10	794.00	311.	0.01	37830.	1083.	11.43	0.0230	20.	64.	0.00

ODATE 3-14-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 2.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.64	758.	274.	2.23	0.0290	21.	4.	0.28
MILE 77.70	816.88	2021.	2.05	985.	181.	2.46	0.0400	21.	6.	0.16
MILE 75.60	810.82	2042.	1.99	1025.	164.	2.49	0.0400	21.	4.	0.14
MILE 73.50	807.08	2062.	1.77	1165.	148.	2.79	0.0330	21.	8.	0.11
MILE 71.40	805.49	2082.	1.39	1498.	226.	2.46	0.0400	21.	8.	0.10
MILE 69.30	802.45	2101.	1.79	1171.	264.	2.18	0.0340	21.	4.	0.15
MILE 67.20	797.31	2120.	1.98	1072.	265.	2.22	0.0340	21.	7.	0.17
MILE 65.10	794.22	2136.	1.04	2063.	324.	3.09	0.0320	21.	7.	0.07
MILE 63.00	794.11	2150.	0.62	3469.	341.	4.62	0.0400	21.	13.	0.03
MILE 60.90	794.04	2165.	0.47	4616.	356.	5.72	0.0450	21.	18.	0.02
MILE 58.80	794.01	181.	0.03	5745.	354.	6.14	0.0400	-1981.	21.	0.00
MILE 57.00	794.01	195.	0.03	6370.	396.	6.02	0.0200	19.	19.	0.00
MILE 55.00	794.01	210.	0.03	6479.	459.	6.51	0.0200	19.	21.	0.00
MILE 53.10	794.01	224.	0.03	8923.	565.	5.99	0.0200	20.	21.	0.00
MILE 51.00	794.01	238.	0.02	9640.	918.	6.11	0.0200	24.	25.	0.00
MILE 48.30	794.01	250.	0.02	13010.	1621.	4.91	0.0200	24.	25.	0.00
MILE 46.20	794.01	257.	0.02	15547.	1814.	6.73	0.0200	21.	32.	0.00
MILE 44.10	794.01	266.	0.01	27616.	1507.	8.04	0.0300	12.	39.	0.00
MILE 43.70	794.01	268.	0.02	14301.	1363.	8.23	0.0300	10.	41.	0.00
MILE 42.00	794.00	279.	0.01	18733.	1330.	6.16	0.0300	23.	44.	0.00
MILE 39.10	794.00	298.	0.02	18083.	1353.	7.86	0.0230	25.	43.	0.00
MILE 37.00	794.00	315.	0.01	31822.	1120.	7.26	0.0280	15.	43.	0.00
MILE 36.00	794.00	323.	0.02	19710.	901.	8.34	0.0280	12.	45.	0.00
MILE 34.60	794.00	335.	0.01	29988.	1226.	9.63	0.0280	12.	46.	0.00
MILE 33.60	794.00	343.	0.01	61925.	2141.	8.11	0.0290	15.	51.	0.00
MILE 31.50	794.00	360.	0.01	30459.	1757.	10.37	0.0250	17.	55.	0.00
MILE 30.10	794.00	373.	0.01	32070.	883.	9.91	0.0200	12.	53.	0.00
MILE 29.00	794.00	383.	0.01	35755.	1054.	10.78	0.0200	14.	54.	0.00
MILE 27.30	794.00	399.	0.01	37104.	1054.	11.17	0.0230	19.	57.	0.00
MILE 25.20	794.00	420.	0.01	45971.	1052.	12.00	0.0230	21.	60.	0.00
MILE 23.10	794.00	441.	0.01	37830.	1083.	11.43	0.0230	21.	64.	0.00

ODATE 3-14-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 99 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

TIME 3.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.64	758.	274.	2.23	0.0290	21.	4.	0.28
MILE 77.70	816.88	2022.	2.05	985.	181.	2.46	0.0400	21.	6.	0.16
MILE 75.60	810.83	2043.	1.99	1026.	164.	2.50	0.0400	21.	4.	0.14
MILE 73.50	807.09	2063.	1.77	1165.	149.	2.79	0.0330	21.	8.	0.11
MILE 71.40	805.49	2083.	1.39	1499.	226.	2.46	0.0400	21.	8.	0.10
MILE 69.30	802.45	2102.	1.79	1171.	264.	2.18	0.0340	21.	4.	0.15
MILE 67.20	797.31	2121.	1.98	1073.	266.	2.22	0.0340	21.	7.	0.17
MILE 65.10	794.22	2140.	1.04	2065.	324.	3.09	0.0320	21.	7.	0.07
MILE 63.00	794.11	2160.	0.62	3470.	341.	4.62	0.0400	21.	13.	0.03
MILE 60.90	794.04	2183.	0.47	4617.	356.	5.72	0.0450	21.	18.	0.02
MILE 58.80	794.01	207.	0.04	5745.	354.	6.14	0.0400	-1980.	21.	0.00
MILE 57.00	794.01	227.	0.04	6370.	396.	6.02	0.0200	19.	19.	0.00
MILE 55.00	794.01	250.	0.04	6479.	459.	6.51	0.0200	20.	21.	0.00
MILE 53.10	794.01	272.	0.03	8923.	565.	6.00	0.0200	20.	21.	0.00
MILE 51.00	794.01	298.	0.03	9640.	918.	6.11	0.0200	24.	25.	0.00
MILE 48.30	794.01	335.	0.03	13010.	1621.	4.91	0.0200	24.	25.	0.00
MILE 46.20	794.01	365.	0.02	15547.	1814.	6.73	0.0200	21.	32.	0.00
MILE 44.10	794.01	388.	0.01	27616.	1507.	8.04	0.0300	13.	39.	0.00
MILE 43.70	794.01	390.	0.03	14301.	1363.	8.23	0.0300	11.	41.	0.00
MILE 42.00	794.01	379.	0.02	18735.	1330.	6.16	0.0300	23.	44.	0.00
MILE 39.10	794.01	241.	0.01	18091.	1353.	7.86	0.0230	25.	43.	0.00
MILE 37.00	794.02	75.	0.00	31845.	1120.	7.27	0.0280	16.	43.	0.00
MILE 36.00	794.02	15.	0.00	19724.	902.	8.34	0.0280	12.	45.	0.00
MILE 34.60	794.02	-67.	0.00	30008.	1227.	9.63	0.0280	12.	46.	0.00
MILE 33.60	794.02	-160.	0.00	61981.	2143.	8.11	0.0290	16.	51.	0.00
MILE 31.50	794.03	-397.	-0.01	30481.	1758.	10.38	0.0250	18.	55.	0.00
MILE 30.10	794.03	-493.	-0.02	32098.	884.	9.91	0.0200	13.	53.	0.00
MILE 29.00	794.03	-557.	-0.02	35783.	1055.	10.78	0.0200	14.	54.	0.00
MILE 27.30	794.03	-683.	-0.02	37135.	1055.	11.18	0.0230	19.	57.	0.00
MILE 25.20	794.04	-824.	-0.02	46010.	1053.	12.00	0.0230	21.	60.	0.00
MILE 23.10	794.04	-926.	-0.02	37868.	1084.	11.43	0.0230	21.	64.	0.00

ODATE 3-14-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 4.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.64	757.	274.	2.23	0.0290	22.	4.	0.28
MILE 77.70	816.88	2022.	2.05	985.	181.	2.46	0.0400	22.	6.	0.16
MILE 75.60	810.83	2043.	1.99	1026.	164.	2.50	0.0400	22.	4.	0.14
MILE 73.50	807.09	2064.	1.77	1165.	149.	2.79	0.0330	22.	8.	0.11
MILE 71.40	805.49	2084.	1.39	1499.	226.	2.46	0.0400	22.	8.	0.10
MILE 69.30	802.45	2104.	1.80	1172.	264.	2.18	0.0340	22.	4.	0.15
MILE 67.20	797.31	2124.	1.98	1074.	266.	2.22	0.0340	22.	7.	0.17
MILE 65.10	794.22	2145.	1.04	2064.	324.	3.09	0.0320	22.	7.	0.07

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 100 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 63.00	794.11	2172.	0.63	3469.	341.	4.62	0.0400	22.	13.	0.03
MILE 60.90	794.03	2200.	0.48	4615.	356.	5.72	0.0450	22.	18.	0.02
MILE 58.80	794.00	227.	0.04	5744.	354.	6.14	0.0400	-1980.	21.	0.00
MILE 57.00	794.01	246.	0.04	6368.	396.	6.02	0.0200	20.	19.	0.00
MILE 55.00	794.01	256.	0.04	6479.	459.	6.51	0.0200	20.	21.	0.00
MILE 53.10	794.01	238.	0.03	8925.	565.	6.00	0.0200	21.	21.	0.00
MILE 51.00	794.02	158.	0.02	9646.	918.	6.12	0.0200	25.	25.	0.00
MILE 48.30	794.03	-129.	-0.01	13036.	1622.	4.91	0.0200	25.	25.	0.00
MILE 46.20	794.03	-363.	-0.02	15572.	1816.	6.74	0.0200	22.	32.	0.00
MILE 44.10	794.04	-592.	-0.02	27657.	1508.	8.05	0.0300	13.	39.	0.00
MILE 43.70	794.04	-626.	-0.04	14320.	1365.	8.23	0.0300	11.	41.	0.00
MILE 42.00	794.05	-750.	-0.04	18783.	1332.	6.16	0.0300	24.	44.	0.00
MILE 39.10	794.05	-861.	-0.05	18122.	1355.	7.86	0.0230	26.	43.	0.00
MILE 37.00	794.05	-837.	-0.03	31898.	1122.	7.27	0.0280	16.	43.	0.00
MILE 36.00	794.05	-817.	-0.04	19749.	903.	8.34	0.0280	12.	45.	0.00
MILE 34.60	794.05	-790.	-0.03	30037.	1228.	9.64	0.0280	12.	46.	0.00
MILE 33.60	794.05	-791.	-0.01	62058.	2145.	8.12	0.0290	16.	51.	0.00
MILE 31.50	794.05	-843.	-0.03	30505.	1760.	10.38	0.0250	18.	55.	0.00
MILE 30.10	794.05	-847.	-0.03	32123.	885.	9.92	0.0200	13.	53.	0.00
MILE 29.00	794.05	-839.	-0.02	35807.	1056.	10.79	0.0200	15.	54.	0.00
MILE 27.30	794.05	-818.	-0.02	37156.	1056.	11.18	0.0230	20.	57.	0.00
MILE 25.20	794.05	-806.	-0.02	46028.	1054.	12.01	0.0230	22.	60.	0.00
MILE 23.10	794.05	-799.	-0.02	37878.	1085.	11.44	0.0230	22.	64.	0.00

ODATE 3-14-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 5.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.64	758.	274.	2.23	0.0290	22.	4.	0.28
MILE 77.70	816.88	2022.	2.05	985.	181.	2.46	0.0400	22.	6.	0.16
MILE 75.60	810.83	2043.	1.99	1026.	164.	2.50	0.0400	22.	4.	0.14
MILE 73.50	807.09	2064.	1.77	1166.	149.	2.79	0.0330	22.	8.	0.11
MILE 71.40	805.49	2085.	1.39	1500.	226.	2.46	0.0400	22.	8.	0.10
MILE 69.30	802.45	2106.	1.80	1173.	264.	2.18	0.0340	22.	4.	0.15
MILE 67.20	797.32	2127.	1.98	1075.	266.	2.22	0.0340	22.	7.	0.17
MILE 65.10	794.23	2139.	1.03	2068.	324.	3.10	0.0320	22.	7.	0.07
MILE 63.00	794.13	2079.	0.60	3478.	342.	4.63	0.0400	22.	13.	0.03
MILE 60.90	794.08	1974.	0.43	4632.	356.	5.73	0.0450	22.	18.	0.02
MILE 58.80	794.07	-129.	-0.02	5767.	355.	6.14	0.0400	-1979.	21.	0.00
MILE 57.00	794.07	-196.	-0.03	6396.	397.	6.03	0.0200	20.	19.	0.00
MILE 55.00	794.07	-263.	-0.04	6503.	460.	6.51	0.0200	21.	21.	0.00
MILE 53.10	794.07	-321.	-0.04	8963.	566.	6.01	0.0200	21.	21.	0.00
MILE 51.00	794.07	-382.	-0.04	9674.	920.	6.12	0.0200	26.	25.	0.00
MILE 48.30	794.07	-402.	-0.03	13081.	1624.	4.91	0.0200	26.	25.	0.00
MILE 46.20	794.07	-513.	-0.03	15603.	1818.	6.74	0.0200	22.	32.	0.00
MILE 44.10	794.07	-593.	-0.02	27689.	1510.	8.05	0.0300	13.	39.	0.00
MILE 43.70	794.07	-602.	-0.04	14333.	1366.	8.23	0.0300	11.	41.	0.00

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE	42.00	794.06	-609.	-0.03	18803.	1333.	6.16	0.0300	24.	44.	0.00
MILE	39.10	794.06	-607.	-0.03	18127.	1355.	7.86	0.0230	27.	43.	0.00
MILE	37.00	794.06	-660.	-0.02	31907.	1122.	7.28	0.0280	16.	43.	0.00
MILE	36.00	794.05	-678.	-0.03	19752.	903.	8.35	0.0280	13.	45.	0.00
MILE	34.60	794.05	-695.	-0.02	30039.	1228.	9.64	0.0280	13.	46.	0.00
MILE	33.60	794.05	-698.	-0.01	62060.	2145.	8.12	0.0290	16.	51.	0.00
MILE	31.50	794.05	-674.	-0.02	30504.	1760.	10.38	0.0250	19.	55.	0.00
MILE	30.10	794.05	-659.	-0.02	32122.	885.	9.92	0.0200	13.	53.	0.00
MILE	29.00	794.05	-647.	-0.02	35804.	1056.	10.79	0.0200	15.	54.	0.00
MILE	27.30	794.05	-629.	-0.02	37152.	1056.	11.18	0.0230	20.	57.	0.00
MILE	25.20	794.05	-606.	-0.01	46024.	1054.	12.01	0.0230	22.	60.	0.00
MILE	23.10	794.05	-601.	-0.02	37878.	1085.	11.44	0.0230	22.	64.	0.00

ODATE 3-14-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 6.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	822.67	2000.	2.64	758.	274.	2.23	0.0290	23.	4.	0.28
MILE	77.70	816.88	2022.	2.05	986.	181.	2.47	0.0400	23.	6.	0.16
MILE	75.60	810.83	2044.	1.99	1027.	164.	2.50	0.0400	23.	4.	0.14
MILE	73.50	807.09	2066.	1.77	1166.	149.	2.79	0.0330	23.	8.	0.11
MILE	71.40	805.49	2087.	1.39	1500.	226.	2.46	0.0400	23.	8.	0.10
MILE	69.30	802.46	2108.	1.80	1173.	264.	2.18	0.0340	23.	4.	0.15
MILE	67.20	797.32	2123.	1.97	1077.	266.	2.22	0.0340	23.	7.	0.17
MILE	65.10	794.33	2103.	1.00	2104.	328.	3.13	0.0320	23.	7.	0.07
MILE	63.00	794.22	2073.	0.59	3506.	343.	4.64	0.0400	23.	13.	0.03
MILE	60.90	794.14	2086.	0.45	4652.	357.	5.75	0.0450	23.	18.	0.02
MILE	58.80	794.11	106.	0.02	5784.	355.	6.15	0.0400	-1979.	21.	0.00
MILE	57.00	794.11	106.	0.02	6413.	398.	6.04	0.0200	21.	19.	0.00
MILE	55.00	794.10	101.	0.02	6514.	460.	6.52	0.0200	21.	21.	0.00
MILE	53.10	794.10	107.	0.01	8976.	566.	6.01	0.0200	22.	21.	0.00
MILE	51.00	794.09	120.	0.01	9681.	920.	6.13	0.0200	26.	25.	0.00
MILE	48.30	794.08	61.	0.00	13095.	1625.	4.91	0.0200	26.	25.	0.00
MILE	46.20	794.08	5.	0.00	15611.	1819.	6.75	0.0200	23.	32.	0.00
MILE	44.10	794.08	-22.	0.00	27700.	1510.	8.05	0.0300	14.	39.	0.00
MILE	43.70	794.08	-27.	0.00	14338.	1367.	8.23	0.0300	11.	41.	0.00
MILE	42.00	794.07	-51.	0.00	18817.	1333.	6.16	0.0300	25.	44.	0.00
MILE	39.10	794.07	-90.	0.00	18138.	1356.	7.86	0.0230	27.	43.	0.00
MILE	37.00	794.07	-37.	0.00	31925.	1122.	7.28	0.0280	17.	43.	0.00
MILE	36.00	794.07	-26.	0.00	19761.	903.	8.35	0.0280	13.	45.	0.00
MILE	34.60	794.06	-26.	0.00	30050.	1229.	9.64	0.0280	13.	46.	0.00
MILE	33.60	794.06	-24.	0.00	62089.	2146.	8.12	0.0290	17.	51.	0.00
MILE	31.50	794.06	-6.	0.00	30513.	1760.	10.38	0.0250	19.	55.	0.00
MILE	30.10	794.06	-15.	0.00	32131.	885.	9.92	0.0200	14.	53.	0.00
MILE	29.00	794.06	-16.	0.00	35812.	1056.	10.79	0.0200	15.	54.	0.00
MILE	27.30	794.06	-8.	0.00	37159.	1056.	11.18	0.0230	21.	57.	0.00
MILE	25.20	794.05	12.	0.00	46028.	1054.	12.01	0.0230	23.	60.	0.00

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MILE 23.10 794.05 20. 0.00 37878. 1085. 11.44 0.0230 23. 64. 0.00

ODATE 3-14-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 7.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.64	758.	274.	2.23	0.0290	23.	4.	0.28
MILE 77.70	816.88	2023.	2.05	986.	181.	2.47	0.0400	23.	6.	0.16
MILE 75.60	810.83	2045.	1.99	1027.	164.	2.50	0.0400	23.	4.	0.14
MILE 73.50	807.09	2067.	1.77	1166.	149.	2.79	0.0330	23.	8.	0.11
MILE 71.40	805.49	2086.	1.39	1501.	226.	2.46	0.0400	23.	8.	0.10
MILE 69.30	802.45	2101.	1.79	1172.	264.	2.18	0.0340	23.	4.	0.15
MILE 67.20	797.32	2118.	1.97	1076.	266.	2.22	0.0340	23.	7.	0.17
MILE 65.10	794.33	2147.	1.02	2104.	328.	3.13	0.0320	23.	7.	0.07
MILE 63.00	794.21	2217.	0.63	3503.	343.	4.64	0.0400	23.	13.	0.03
MILE 60.90	794.13	2277.	0.49	4647.	357.	5.74	0.0450	23.	18.	0.02
MILE 58.80	794.10	330.	0.06	5777.	355.	6.15	0.0400	-1978.	21.	0.00
MILE 57.00	794.09	385.	0.06	6407.	398.	6.04	0.0200	21.	19.	0.00
MILE 55.00	794.09	450.	0.07	6511.	460.	6.52	0.0200	22.	21.	0.00
MILE 53.10	794.09	496.	0.06	8975.	566.	6.01	0.0200	22.	21.	0.00
MILE 51.00	794.09	529.	0.05	9684.	921.	6.13	0.0200	27.	25.	0.00
MILE 48.30	794.09	616.	0.05	13103.	1626.	4.91	0.0200	27.	25.	0.00
MILE 46.20	794.09	726.	0.05	15617.	1819.	6.75	0.0200	23.	32.	0.00
MILE 44.10	794.08	745.	0.03	27707.	1511.	8.05	0.0300	14.	39.	0.00
MILE 43.70	794.08	748.	0.05	14341.	1367.	8.23	0.0300	12.	41.	0.00
MILE 42.00	794.08	755.	0.04	18822.	1334.	6.16	0.0300	26.	44.	0.00
MILE 39.10	794.07	781.	0.04	18139.	1356.	7.86	0.0230	28.	43.	0.00
MILE 37.00	794.07	771.	0.02	31927.	1122.	7.28	0.0280	17.	43.	0.00
MILE 36.00	794.07	762.	0.04	19762.	903.	8.35	0.0280	13.	45.	0.00
MILE 34.60	794.07	742.	0.02	30051.	1229.	9.64	0.0280	13.	46.	0.00
MILE 33.60	794.07	720.	0.01	62093.	2146.	8.12	0.0290	17.	51.	0.00
MILE 31.50	794.06	670.	0.02	30515.	1761.	10.38	0.0250	19.	55.	0.00
MILE 30.10	794.06	642.	0.02	32135.	885.	9.92	0.0200	14.	53.	0.00
MILE 29.00	794.06	634.	0.02	35817.	1056.	10.79	0.0200	16.	54.	0.00
MILE 27.30	794.06	634.	0.02	37164.	1056.	11.18	0.0230	21.	57.	0.00
MILE 25.20	794.06	651.	0.01	46038.	1054.	12.01	0.0230	23.	60.	0.00
MILE 23.10	794.06	652.	0.02	37887.	1085.	11.44	0.0230	23.	64.	0.00

ODATE 3-14-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 8.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80 822.67 2000. 2.64 758. 274. 2.23 0.0290 24. 4. 0.28

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 77.70	816.88	2023.	2.05	986.	181.	2.47	0.0400	24.	6.	0.16
MILE 75.60	810.83	2044.	1.99	1027.	164.	2.50	0.0400	24.	4.	0.14
MILE 73.50	807.09	2064.	1.77	1166.	149.	2.79	0.0330	24.	8.	0.11
MILE 71.40	805.49	2082.	1.39	1499.	226.	2.46	0.0400	24.	8.	0.10
MILE 69.30	802.45	2100.	1.79	1170.	264.	2.18	0.0340	24.	4.	0.15
MILE 67.20	797.32	2124.	1.97	1077.	266.	2.22	0.0340	24.	7.	0.17
MILE 65.10	794.29	2159.	1.03	2092.	327.	3.12	0.0320	24.	7.	0.07
MILE 63.00	794.18	2202.	0.63	3493.	342.	4.64	0.0400	24.	13.	0.03
MILE 60.90	794.10	2261.	0.49	4637.	356.	5.74	0.0450	24.	18.	0.02
MILE 58.80	794.06	334.	0.06	5766.	355.	6.14	0.0400	-1978.	21.	0.00
MILE 57.00	794.06	381.	0.06	6394.	397.	6.03	0.0200	22.	19.	0.00
MILE 55.00	794.07	425.	0.07	6501.	459.	6.51	0.0200	22.	21.	0.00
MILE 53.10	794.07	480.	0.05	8958.	566.	6.01	0.0200	23.	21.	0.00
MILE 51.00	794.07	576.	0.06	9670.	920.	6.12	0.0200	27.	25.	0.00
MILE 48.30	794.07	733.	0.06	13080.	1624.	4.91	0.0200	27.	25.	0.00
MILE 46.20	794.07	803.	0.05	15604.	1818.	6.74	0.0200	24.	32.	0.00
MILE 44.10	794.07	931.	0.03	27696.	1510.	8.05	0.0300	14.	39.	0.00
MILE 43.70	794.07	951.	0.07	14336.	1366.	8.23	0.0300	12.	41.	0.00
MILE 42.00	794.07	1019.	0.05	18818.	1333.	6.16	0.0300	26.	44.	0.00
MILE 39.10	794.08	1016.	0.06	18145.	1356.	7.86	0.0230	28.	43.	0.00
MILE 37.00	794.08	939.	0.03	31951.	1123.	7.28	0.0280	18.	43.	0.00
MILE 36.00	794.08	915.	0.05	19776.	904.	8.35	0.0280	14.	45.	0.00
MILE 34.60	794.09	886.	0.03	30071.	1230.	9.64	0.0280	14.	46.	0.00
MILE 33.60	794.09	846.	0.01	62149.	2147.	8.12	0.0290	18.	51.	0.00
MILE 31.50	794.09	738.	0.02	30537.	1762.	10.38	0.0250	20.	55.	0.00
MILE 30.10	794.09	708.	0.02	32160.	886.	9.92	0.0200	14.	53.	0.00
MILE 29.00	794.09	683.	0.02	35841.	1057.	10.79	0.0200	16.	54.	0.00
MILE 27.30	794.09	611.	0.02	37189.	1057.	11.19	0.0230	22.	57.	0.00
MILE 25.20	794.09	512.	0.01	46067.	1055.	12.01	0.0230	24.	60.	0.00
MILE 23.10	794.09	429.	0.01	37916.	1086.	11.44	0.0230	24.	64.	0.00

ODATE 3-14-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 9.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.68	2000.	2.63	761.	274.	2.23	0.0290	24.	4.	0.28
MILE 77.70	816.88	2021.	2.05	986.	181.	2.47	0.0400	24.	6.	0.15
MILE 75.60	810.83	2042.	1.99	1026.	164.	2.50	0.0400	24.	4.	0.14
MILE 73.50	807.08	2062.	1.77	1165.	149.	2.79	0.0330	24.	8.	0.11
MILE 71.40	805.49	2083.	1.39	1499.	226.	2.46	0.0400	24.	8.	0.10
MILE 69.30	802.45	2106.	1.80	1172.	264.	2.18	0.0340	24.	4.	0.15
MILE 67.20	797.32	2131.	1.98	1079.	266.	2.22	0.0340	24.	7.	0.17
MILE 65.10	794.27	2164.	1.04	2081.	326.	3.11	0.0320	24.	7.	0.07
MILE 63.00	794.15	2211.	0.63	3483.	342.	4.63	0.0400	24.	13.	0.04
MILE 60.90	794.07	2249.	0.49	4629.	356.	5.73	0.0450	24.	18.	0.02
MILE 58.80	794.05	265.	0.05	5760.	354.	6.14	0.0400	-1977.	21.	0.00
MILE 57.00	794.05	285.	0.04	6387.	397.	6.03	0.0200	22.	19.	0.00

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 104 of 240
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MILE 55.00	794.05	315.	0.05	6495.	459.	6.51	0.0200	23.	21.	0.00
MILE 53.10	794.06	332.	0.04	8952.	566.	6.00	0.0200	23.	21.	0.00
MILE 51.00	794.06	314.	0.03	9668.	920.	6.12	0.0200	28.	25.	0.00
MILE 48.30	794.07	192.	0.01	13082.	1625.	4.91	0.0200	28.	25.	0.00
MILE 46.20	794.07	159.	0.01	15607.	1819.	6.74	0.0200	24.	32.	0.00
MILE 44.10	794.08	100.	0.00	27702.	1510.	8.05	0.0300	15.	39.	0.00
MILE 43.70	794.08	91.	0.01	14339.	1367.	8.23	0.0300	12.	41.	0.00
MILE 42.00	794.08	56.	0.00	18828.	1334.	6.16	0.0300	27.	44.	0.00
MILE 39.10	794.09	75.	0.00	18152.	1357.	7.86	0.0230	29.	43.	0.00
MILE 37.00	794.09	168.	0.01	31957.	1123.	7.28	0.0280	18.	43.	0.00
MILE 36.00	794.09	216.	0.01	19779.	904.	8.35	0.0280	14.	45.	0.00
MILE 34.60	794.09	279.	0.01	30075.	1230.	9.64	0.0280	14.	46.	0.00
MILE 33.60	794.09	305.	0.00	62160.	2148.	8.12	0.0290	18.	51.	0.00
MILE 31.50	794.09	304.	0.01	30541.	1762.	10.38	0.0250	20.	55.	0.00
MILE 30.10	794.09	334.	0.01	32167.	886.	9.92	0.0200	15.	53.	0.00
MILE 29.00	794.10	356.	0.01	35849.	1057.	10.79	0.0200	16.	54.	0.00
MILE 27.30	794.10	378.	0.01	37200.	1058.	11.19	0.0230	22.	57.	0.00
MILE 25.20	794.10	370.	0.01	46080.	1056.	12.01	0.0230	24.	60.	0.00
MILE 23.10	794.10	389.	0.01	37925.	1087.	11.44	0.0230	24.	64.	0.00

ODATE 3-14-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 10.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
 DEPTH FROUDE

MILE 79.80	822.69	2000.	2.62	764.	274.	2.24	0.0290	25.	4.	0.28
MILE 77.70	816.88	2021.	2.05	986.	181.	2.47	0.0400	25.	6.	0.15
MILE 75.60	810.83	2042.	1.99	1026.	164.	2.50	0.0400	25.	4.	0.14
MILE 73.50	807.09	2064.	1.77	1165.	149.	2.79	0.0330	25.	8.	0.11
MILE 71.40	805.49	2088.	1.39	1500.	226.	2.46	0.0400	25.	8.	0.10
MILE 69.30	802.46	2113.	1.80	1175.	264.	2.18	0.0340	25.	4.	0.15
MILE 67.20	797.33	2137.	1.98	1081.	266.	2.23	0.0340	25.	7.	0.17
MILE 65.10	794.27	2155.	1.03	2083.	326.	3.11	0.0320	25.	7.	0.07
MILE 63.00	794.17	2129.	0.61	3490.	342.	4.64	0.0400	25.	13.	0.03
MILE 60.90	794.11	2074.	0.45	4640.	356.	5.74	0.0450	25.	18.	0.02
MILE 58.80	794.09	33.	0.01	5773.	355.	6.15	0.0400	-1977.	21.	0.00
MILE 57.00	794.09	10.	0.00	6403.	397.	6.04	0.0200	23.	19.	0.00
MILE 55.00	794.09	-14.	0.00	6509.	460.	6.52	0.0200	23.	21.	0.00
MILE 53.10	794.09	-37.	0.00	8972.	566.	6.01	0.0200	24.	21.	0.00
MILE 51.00	794.09	-61.	-0.01	9681.	920.	6.13	0.0200	28.	25.	0.00
MILE 48.30	794.09	-51.	0.00	13099.	1625.	4.91	0.0200	28.	25.	0.00
MILE 46.20	794.09	-116.	-0.01	15619.	1819.	6.75	0.0200	25.	32.	0.00
MILE 44.10	794.09	-203.	-0.01	27715.	1511.	8.06	0.0300	15.	39.	0.00
MILE 43.70	794.09	-213.	-0.01	14345.	1367.	8.23	0.0300	12.	41.	0.00
MILE 42.00	794.09	-237.	-0.01	18836.	1334.	6.16	0.0300	27.	44.	0.00
MILE 39.10	794.09	-247.	-0.01	18154.	1357.	7.86	0.0230	30.	43.	0.00
MILE 37.00	794.09	-320.	-0.01	31966.	1123.	7.28	0.0280	18.	43.	0.00
MILE 36.00	794.09	-340.	-0.02	19783.	904.	8.35	0.0280	14.	45.	0.00

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 34.60	794.09	-357.	-0.01	30079.	1230.	9.64	0.0280	14.	46.	0.00
MILE 33.60	794.09	-375.	-0.01	62171.	2148.	8.13	0.0290	18.	51.	0.00
MILE 31.50	794.09	-413.	-0.01	30543.	1763.	10.38	0.0250	21.	55.	0.00
MILE 30.10	794.10	-403.	-0.01	32169.	886.	9.92	0.0200	15.	53.	0.00
MILE 29.00	794.10	-391.	-0.01	35850.	1057.	10.79	0.0200	17.	54.	0.00
MILE 27.30	794.10	-373.	-0.01	37198.	1057.	11.19	0.0230	23.	57.	0.00
MILE 25.20	794.10	-347.	-0.01	46077.	1056.	12.01	0.0230	25.	60.	0.00
MILE 23.10	794.10	-342.	-0.01	37925.	1087.	11.44	0.0230	25.	64.	0.00

ODATE 3-14-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 11.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	824.05	3330.	2.94	1133.	302.	2.66	0.0290	25.	5.	0.27
MILE 77.70	817.99	3085.	2.40	1287.	215.	2.75	0.0400	25.	7.	0.17
MILE 75.60	811.23	2508.	2.21	1133.	174.	2.65	0.0400	25.	5.	0.15
MILE 73.50	807.17	2204.	1.86	1187.	150.	2.82	0.0330	25.	8.	0.12
MILE 71.40	805.51	2122.	1.41	1509.	227.	2.47	0.0400	25.	8.	0.10
MILE 69.30	802.46	2121.	1.80	1177.	264.	2.19	0.0340	25.	4.	0.15
MILE 67.20	797.34	2138.	1.97	1083.	267.	2.23	0.0340	25.	7.	0.17
MILE 65.10	794.33	2139.	1.02	2105.	328.	3.13	0.0320	25.	7.	0.07
MILE 63.00	794.22	2131.	0.61	3506.	343.	4.64	0.0400	25.	13.	0.03
MILE 60.90	794.14	2146.	0.46	4652.	357.	5.75	0.0450	25.	18.	0.02
MILE 58.80	794.12	152.	0.03	5785.	355.	6.15	0.0400	-1976.	21.	0.00
MILE 57.00	794.12	141.	0.02	6416.	398.	6.04	0.0200	23.	19.	0.00
MILE 55.00	794.12	115.	0.02	6519.	460.	6.52	0.0200	24.	21.	0.00
MILE 53.10	794.11	91.	0.01	8987.	567.	6.01	0.0200	24.	21.	0.00
MILE 51.00	794.11	59.	0.01	9693.	921.	6.13	0.0200	29.	25.	0.00
MILE 48.30	794.11	-55.	0.00	13126.	1627.	4.91	0.0200	29.	25.	0.00
MILE 46.20	794.11	-239.	-0.02	15638.	1821.	6.75	0.0200	25.	32.	0.00
MILE 44.10	794.11	-310.	-0.01	27739.	1512.	8.06	0.0300	15.	39.	0.00
MILE 43.70	794.11	-319.	-0.02	14356.	1368.	8.22	0.0300	13.	41.	0.00
MILE 42.00	794.11	-359.	-0.02	18859.	1335.	6.16	0.0300	28.	44.	0.00
MILE 39.10	794.11	-451.	-0.02	18168.	1358.	7.87	0.0230	30.	43.	0.00
MILE 37.00	794.11	-428.	-0.01	31988.	1124.	7.29	0.0280	19.	43.	0.00
MILE 36.00	794.11	-427.	-0.02	19793.	904.	8.35	0.0280	15.	45.	0.00
MILE 34.60	794.11	-438.	-0.01	30091.	1231.	9.64	0.0280	15.	46.	0.00
MILE 33.60	794.11	-437.	-0.01	62200.	2149.	8.13	0.0290	19.	51.	0.00
MILE 31.50	794.10	-405.	-0.01	30551.	1763.	10.39	0.0250	21.	55.	0.00
MILE 30.10	794.10	-409.	-0.01	32177.	886.	9.93	0.0200	15.	53.	0.00
MILE 29.00	794.10	-405.	-0.01	35857.	1058.	10.79	0.0200	17.	54.	0.00
MILE 27.30	794.10	-394.	-0.01	37204.	1058.	11.19	0.0230	23.	57.	0.00
MILE 25.20	794.10	-385.	-0.01	46081.	1056.	12.01	0.0230	25.	60.	0.00
MILE 23.10	794.10	-376.	-0.01	37925.	1087.	11.44	0.0230	25.	64.	0.00

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
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0DATE 3-14-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 12.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.33	2000.	2.97	673.	267.	2.11	0.0290	26.	4.	0.33
MILE 77.70	817.49	2371.	2.07	1147.	200.	2.63	0.0400	26.	7.	0.15
MILE 75.60	811.76	2825.	2.22	1274.	188.	2.85	0.0400	26.	5.	0.15
MILE 73.50	807.64	2730.	2.09	1306.	160.	2.97	0.0330	26.	8.	0.13
MILE 71.40	805.79	2484.	1.54	1618.	232.	2.58	0.0400	26.	8.	0.10
MILE 69.30	802.54	2246.	1.86	1210.	267.	2.22	0.0340	26.	4.	0.15
MILE 67.20	797.36	2166.	1.98	1092.	268.	2.23	0.0340	26.	7.	0.17
MILE 65.10	794.35	2161.	1.02	2113.	329.	3.13	0.0320	26.	7.	0.07
MILE 63.00	794.24	2168.	0.62	3513.	343.	4.65	0.0400	26.	13.	0.03
MILE 60.90	794.16	2169.	0.47	4659.	357.	5.75	0.0450	26.	18.	0.02
MILE 58.80	794.14	162.	0.03	5793.	355.	6.15	0.0400	-1976.	21.	0.00
MILE 57.00	794.14	169.	0.03	6425.	398.	6.05	0.0200	23.	19.	0.00
MILE 55.00	794.14	188.	0.03	6527.	461.	6.52	0.0200	24.	21.	0.00
MILE 53.10	794.14	200.	0.02	9000.	567.	6.02	0.0200	25.	21.	0.00
MILE 51.00	794.13	189.	0.02	9705.	922.	6.13	0.0200	30.	25.	0.00
MILE 48.30	794.13	145.	0.01	13151.	1628.	4.91	0.0200	30.	25.	0.00
MILE 46.20	794.13	223.	0.01	15655.	1822.	6.75	0.0200	26.	32.	0.00
MILE 44.10	794.13	158.	0.01	27760.	1513.	8.06	0.0300	15.	39.	0.00
MILE 43.70	794.13	147.	0.01	14365.	1369.	8.22	0.0300	13.	41.	0.00
MILE 42.00	794.12	100.	0.01	18878.	1336.	6.16	0.0300	28.	44.	0.00
MILE 39.10	794.12	73.	0.00	18178.	1358.	7.87	0.0230	31.	43.	0.00
MILE 37.00	794.12	47.	0.00	32004.	1124.	7.29	0.0280	19.	43.	0.00
MILE 36.00	794.12	26.	0.00	19801.	905.	8.35	0.0280	15.	45.	0.00
MILE 34.60	794.11	-19.	0.00	30100.	1231.	9.64	0.0280	15.	46.	0.00
MILE 33.60	794.11	-59.	0.00	62226.	2150.	8.13	0.0290	19.	51.	0.00
MILE 31.50	794.11	-138.	0.00	30560.	1764.	10.39	0.0250	22.	55.	0.00
MILE 30.10	794.11	-189.	-0.01	32187.	887.	9.93	0.0200	15.	53.	0.00
MILE 29.00	794.11	-208.	-0.01	35867.	1058.	10.80	0.0200	17.	54.	0.00
MILE 27.30	794.11	-215.	-0.01	37214.	1058.	11.19	0.0230	23.	57.	0.00
MILE 25.20	794.11	-180.	0.00	46092.	1056.	12.01	0.0230	26.	60.	0.00
MILE 23.10	794.11	-189.	0.00	37935.	1087.	11.44	0.0230	26.	64.	0.00

0DATE 3-14-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 13.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.44	2000.	2.85	701.	269.	2.15	0.0290	26.	4.	0.31
MILE 77.70	816.94	2035.	2.03	1002.	183.	2.48	0.0400	26.	6.	0.15
MILE 75.60	811.18	2207.	1.97	1119.	173.	2.63	0.0400	26.	5.	0.14
MILE 73.50	807.63	2509.	1.93	1303.	160.	2.97	0.0330	26.	8.	0.12
MILE 71.40	806.02	2634.	1.54	1709.	236.	2.67	0.0400	26.	8.	0.10

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MILE	69.30	802.78	2555.	1.95	1309.	275.	2.31	0.0340	26.	4.	0.16
MILE	67.20	797.52	2374.	2.05	1159.	275.	2.27	0.0340	26.	7.	0.18
MILE	65.10	794.38	2278.	1.07	2126.	330.	3.15	0.0320	26.	7.	0.07
MILE	63.00	794.26	2247.	0.64	3521.	343.	4.65	0.0400	26.	13.	0.04
MILE	60.90	794.18	2251.	0.48	4663.	357.	5.76	0.0450	26.	18.	0.02
MILE	58.80	794.14	293.	0.05	5795.	356.	6.15	0.0400	-1975.	21.	0.00
MILE	57.00	794.14	323.	0.05	6426.	398.	6.05	0.0200	24.	19.	0.00
MILE	55.00	794.14	342.	0.05	6527.	461.	6.52	0.0200	25.	21.	0.00
MILE	53.10	794.14	352.	0.04	9001.	567.	6.02	0.0200	25.	21.	0.00
MILE	51.00	794.13	370.	0.04	9705.	922.	6.13	0.0200	30.	25.	0.00
MILE	48.30	794.13	429.	0.03	13153.	1628.	4.91	0.0200	30.	25.	0.00
MILE	46.20	794.13	343.	0.02	15661.	1822.	6.75	0.0200	26.	32.	0.00
MILE	44.10	794.13	388.	0.01	27769.	1513.	8.06	0.0300	16.	39.	0.00
MILE	43.70	794.13	398.	0.03	14369.	1369.	8.22	0.0300	13.	41.	0.00
MILE	42.00	794.13	445.	0.02	18888.	1336.	6.16	0.0300	29.	44.	0.00
MILE	39.10	794.13	491.	0.03	18186.	1359.	7.87	0.0230	31.	43.	0.00
MILE	37.00	794.13	536.	0.02	32023.	1125.	7.29	0.0280	20.	43.	0.00
MILE	36.00	794.13	557.	0.03	19810.	905.	8.35	0.0280	15.	45.	0.00
MILE	34.60	794.12	589.	0.02	30109.	1231.	9.65	0.0280	15.	46.	0.00
MILE	33.60	794.12	625.	0.01	62248.	2150.	8.13	0.0290	20.	51.	0.00
MILE	31.50	794.12	716.	0.02	30567.	1764.	10.39	0.0250	22.	55.	0.00
MILE	30.10	794.12	754.	0.02	32193.	887.	9.93	0.0200	16.	53.	0.00
MILE	29.00	794.12	781.	0.02	35871.	1058.	10.80	0.0200	18.	54.	0.00
MILE	27.30	794.11	825.	0.02	37216.	1058.	11.19	0.0230	24.	57.	0.00
MILE	25.20	794.11	859.	0.02	46093.	1056.	12.01	0.0230	26.	60.	0.00
MILE	23.10	794.11	878.	0.02	37935.	1087.	11.44	0.0230	26.	64.	0.00

ODATE 3-14-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 14.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	822.67	2000.	2.64	757.	274.	2.23	0.0290	27.	4.	0.28
MILE	77.70	816.82	1975.	2.03	971.	179.	2.45	0.0400	27.	6.	0.15
MILE	75.60	810.82	1994.	1.94	1025.	164.	2.49	0.0400	27.	4.	0.14
MILE	73.50	807.33	2172.	1.77	1227.	154.	2.87	0.0330	27.	8.	0.11
MILE	71.40	805.85	2365.	1.44	1640.	233.	2.61	0.0400	27.	8.	0.10
MILE	69.30	802.82	2549.	1.92	1326.	276.	2.32	0.0340	27.	4.	0.15
MILE	67.20	797.74	2619.	2.08	1258.	286.	2.32	0.0340	27.	7.	0.18
MILE	65.10	794.43	2525.	1.18	2144.	332.	3.16	0.0320	27.	7.	0.08
MILE	63.00	794.28	2484.	0.70	3529.	344.	4.66	0.0400	27.	13.	0.04
MILE	60.90	794.19	2483.	0.53	4667.	357.	5.76	0.0450	27.	18.	0.03
MILE	58.80	794.15	480.	0.08	5797.	356.	6.15	0.0400	-1975.	21.	0.00
MILE	57.00	794.15	481.	0.07	6429.	398.	6.05	0.0200	24.	19.	0.00
MILE	55.00	794.14	497.	0.08	6529.	461.	6.52	0.0200	25.	21.	0.00
MILE	53.10	794.14	535.	0.06	9002.	567.	6.02	0.0200	26.	21.	0.00
MILE	51.00	794.13	594.	0.06	9705.	922.	6.13	0.0200	31.	25.	0.00
MILE	48.30	794.13	665.	0.05	13150.	1628.	4.91	0.0200	31.	25.	0.00

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
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MILE 46.20	794.13	817.	0.05	15653.	1822.	6.75	0.0200	27.	32.	0.00
MILE 44.10	794.12	902.	0.03	27757.	1513.	8.06	0.0300	16.	39.	0.00
MILE 43.70	794.12	914.	0.06	14363.	1369.	8.22	0.0300	13.	41.	0.00
MILE 42.00	794.12	946.	0.05	18876.	1336.	6.16	0.0300	30.	44.	0.00
MILE 39.10	794.12	934.	0.05	18181.	1358.	7.87	0.0230	32.	43.	0.00
MILE 37.00	794.12	847.	0.03	32017.	1124.	7.29	0.0280	20.	43.	0.00
MILE 36.00	794.12	823.	0.04	19809.	905.	8.35	0.0280	15.	45.	0.00
MILE 34.60	794.13	790.	0.03	30112.	1231.	9.65	0.0280	15.	46.	0.00
MILE 33.60	794.13	736.	0.01	62259.	2150.	8.13	0.0290	20.	51.	0.00
MILE 31.50	794.13	581.	0.02	30574.	1765.	10.39	0.0250	22.	55.	0.00
MILE 30.10	794.13	550.	0.02	32205.	887.	9.93	0.0200	16.	53.	0.00
MILE 29.00	794.13	520.	0.01	35885.	1059.	10.80	0.0200	18.	54.	0.00
MILE 27.30	794.13	429.	0.01	37235.	1059.	11.19	0.0230	24.	57.	0.00
MILE 25.20	794.14	309.	0.01	46122.	1057.	12.02	0.0230	27.	60.	0.00
MILE 23.10	794.14	243.	0.01	37963.	1088.	11.45	0.0230	27.	64.	0.00

ODATE 3-14-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 15.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.77	2000.	2.55	784.	276.	2.27	0.0290	27.	4.	0.27
MILE 77.70	816.85	2004.	2.05	979.	180.	2.46	0.0400	27.	6.	0.15
MILE 75.60	810.80	2018.	1.98	1020.	163.	2.49	0.0400	27.	4.	0.14
MILE 73.50	807.16	2072.	1.75	1184.	150.	2.81	0.0330	27.	8.	0.11
MILE 71.40	805.65	2186.	1.40	1561.	229.	2.53	0.0400	27.	8.	0.09
MILE 69.30	802.70	2377.	1.86	1276.	272.	2.28	0.0340	27.	4.	0.15
MILE 67.20	797.73	2546.	2.03	1252.	285.	2.31	0.0340	27.	7.	0.17
MILE 65.10	794.46	2604.	1.21	2153.	333.	3.17	0.0320	27.	7.	0.08
MILE 63.00	794.29	2660.	0.75	3533.	344.	4.66	0.0400	27.	13.	0.04
MILE 60.90	794.18	2719.	0.58	4665.	357.	5.76	0.0450	27.	18.	0.03
MILE 58.80	794.13	797.	0.14	5790.	355.	6.15	0.0400	-1974.	21.	0.01
MILE 57.00	794.13	863.	0.13	6420.	398.	6.04	0.0200	25.	19.	0.01
MILE 55.00	794.12	925.	0.14	6523.	460.	6.52	0.0200	26.	21.	0.01
MILE 53.10	794.13	949.	0.11	8994.	567.	6.02	0.0200	26.	21.	0.00
MILE 51.00	794.13	921.	0.09	9702.	922.	6.13	0.0200	31.	25.	0.01
MILE 48.30	794.13	774.	0.06	13153.	1628.	4.91	0.0200	31.	25.	0.00
MILE 46.20	794.14	630.	0.04	15662.	1822.	6.76	0.0200	27.	32.	0.00
MILE 44.10	794.14	472.	0.02	27777.	1514.	8.06	0.0300	16.	39.	0.00
MILE 43.70	794.14	447.	0.03	14373.	1370.	8.22	0.0300	14.	41.	0.00
MILE 42.00	794.15	339.	0.02	18905.	1337.	6.16	0.0300	30.	44.	0.00
MILE 39.10	794.15	196.	0.01	18205.	1360.	7.87	0.0230	33.	43.	0.00
MILE 37.00	794.15	162.	0.01	32065.	1125.	7.30	0.0280	20.	43.	0.00
MILE 36.00	794.15	170.	0.01	19832.	906.	8.35	0.0280	16.	45.	0.00
MILE 34.60	794.16	188.	0.01	30141.	1233.	9.65	0.0280	16.	46.	0.00
MILE 33.60	794.16	154.	0.00	62337.	2153.	8.14	0.0290	20.	51.	0.00
MILE 31.50	794.16	-18.	0.00	30600.	1766.	10.39	0.0250	23.	55.	0.00
MILE 30.10	794.16	-51.	0.00	32234.	888.	9.94	0.0200	16.	53.	0.00

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MILE	29.00	794.16	-62.	0.00	35913.	1060.	10.80	0.0200	18.	54.	0.00
MILE	27.30	794.16	-85.	0.00	37261.	1060.	11.20	0.0230	25.	57.	0.00
MILE	25.20	794.16	-122.	0.00	46146.	1058.	12.02	0.0230	27.	60.	0.00
MILE	23.10	794.16	-129.	0.00	37982.	1089.	11.45	0.0230	27.	64.	0.00

ODATE 3-14-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 16.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	822.73	2000.	2.58	775.	275.	2.25	0.0290	28.	4.	0.27
MILE	77.70	816.90	2039.	2.06	992.	182.	2.47	0.0400	28.	6.	0.16
MILE	75.60	810.86	2069.	2.00	1034.	165.	2.51	0.0400	28.	4.	0.14
MILE	73.50	807.14	2095.	1.78	1178.	150.	2.80	0.0330	28.	8.	0.11
MILE	71.40	805.57	2149.	1.40	1532.	228.	2.50	0.0400	28.	8.	0.10
MILE	69.30	802.59	2243.	1.82	1229.	268.	2.23	0.0340	28.	4.	0.15
MILE	67.20	797.57	2351.	1.99	1180.	278.	2.28	0.0340	28.	7.	0.17
MILE	65.10	794.40	2491.	1.17	2131.	330.	3.15	0.0320	28.	7.	0.08
MILE	63.00	794.26	2561.	0.73	3521.	343.	4.65	0.0400	28.	13.	0.04
MILE	60.90	794.17	2571.	0.55	4661.	357.	5.75	0.0450	28.	18.	0.03
MILE	58.80	794.14	551.	0.10	5794.	356.	6.15	0.0400	-1974.	21.	0.00
MILE	57.00	794.15	531.	0.08	6429.	398.	6.05	0.0200	25.	19.	0.00
MILE	55.00	794.15	501.	0.08	6534.	461.	6.53	0.0200	26.	21.	0.00
MILE	53.10	794.16	469.	0.05	9015.	568.	6.02	0.0200	27.	21.	0.00
MILE	51.00	794.17	429.	0.04	9721.	923.	6.14	0.0200	32.	25.	0.00
MILE	48.30	794.17	375.	0.03	13193.	1630.	4.91	0.0200	32.	25.	0.00
MILE	46.20	794.17	221.	0.01	15693.	1825.	6.76	0.0200	28.	32.	0.00
MILE	44.10	794.17	106.	0.00	27815.	1515.	8.07	0.0300	17.	39.	0.00
MILE	43.70	794.17	90.	0.01	14389.	1371.	8.22	0.0300	14.	41.	0.00
MILE	42.00	794.17	36.	0.00	18938.	1338.	6.16	0.0300	31.	44.	0.00
MILE	39.10	794.18	-178.	-0.01	18226.	1361.	7.87	0.0230	33.	43.	0.00
MILE	37.00	794.18	-467.	-0.01	32113.	1127.	7.31	0.0280	21.	43.	0.00
MILE	36.00	794.19	-570.	-0.03	19858.	907.	8.36	0.0280	16.	45.	0.00
MILE	34.60	794.19	-697.	-0.02	30173.	1234.	9.65	0.0280	16.	46.	0.00
MILE	33.60	794.19	-823.	-0.01	62425.	2155.	8.14	0.0290	21.	51.	0.00
MILE	31.50	794.19	-1116.	-0.04	30631.	1768.	10.40	0.0250	23.	55.	0.00
MILE	30.10	794.19	-1217.	-0.04	32272.	889.	9.94	0.0200	17.	53.	0.00
MILE	29.00	794.20	-1286.	-0.04	35950.	1061.	10.81	0.0200	19.	54.	0.00
MILE	27.30	794.20	-1438.	-0.04	37299.	1061.	11.20	0.0230	25.	57.	0.00
MILE	25.20	794.20	-1633.	-0.04	46194.	1059.	12.03	0.0230	28.	60.	0.00
MILE	23.10	794.21	-1788.	-0.05	38030.	1091.	11.46	0.0230	28.	64.	0.00

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TIME 17.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.64	758.	274.	2.23	0.0290	29.	4.	0.28
MILE 77.70	816.92	2047.	2.06	995.	182.	2.47	0.0400	29.	6.	0.16
MILE 75.60	810.89	2091.	2.01	1042.	165.	2.52	0.0400	29.	4.	0.14
MILE 73.50	807.16	2122.	1.79	1184.	150.	2.81	0.0330	29.	8.	0.11
MILE 71.40	805.57	2151.	1.41	1529.	228.	2.49	0.0400	29.	8.	0.10
MILE 69.30	802.53	2179.	1.81	1203.	266.	2.21	0.0340	29.	4.	0.15
MILE 67.20	797.44	2228.	1.98	1128.	272.	2.25	0.0340	29.	7.	0.17
MILE 65.10	794.41	2303.	1.08	2135.	331.	3.15	0.0320	29.	7.	0.07
MILE 63.00	794.29	2304.	0.65	3532.	344.	4.66	0.0400	29.	13.	0.04
MILE 60.90	794.22	2295.	0.49	4677.	358.	5.76	0.0450	29.	18.	0.02
MILE 58.80	794.19	272.	0.05	5813.	356.	6.16	0.0400	-1974.	21.	0.00
MILE 57.00	794.19	250.	0.04	6448.	399.	6.06	0.0200	26.	19.	0.00
MILE 55.00	794.19	218.	0.03	6549.	461.	6.53	0.0200	26.	21.	0.00
MILE 53.10	794.20	174.	0.02	9038.	568.	6.03	0.0200	27.	21.	0.00
MILE 51.00	794.20	61.	0.01	9739.	924.	6.14	0.0200	33.	25.	0.00
MILE 48.30	794.21	-341.	-0.03	13243.	1632.	4.91	0.0200	33.	25.	0.00
MILE 46.20	794.22	-644.	-0.04	15733.	1827.	6.77	0.0200	29.	32.	0.00
MILE 44.10	794.22	-938.	-0.03	27875.	1518.	8.08	0.0300	17.	39.	0.00
MILE 43.70	794.22	-982.	-0.07	14416.	1373.	8.22	0.0300	14.	41.	0.00
MILE 42.00	794.23	-1136.	-0.06	19006.	1340.	6.16	0.0300	31.	44.	0.00
MILE 39.10	794.23	-1183.	-0.06	18266.	1363.	7.88	0.0230	34.	43.	0.00
MILE 37.00	794.22	-947.	-0.03	32171.	1128.	7.31	0.0280	21.	43.	0.00
MILE 36.00	794.22	-863.	-0.04	19884.	908.	8.36	0.0280	16.	45.	0.00
MILE 34.60	794.22	-772.	-0.03	30201.	1235.	9.66	0.0280	16.	46.	0.00
MILE 33.60	794.22	-696.	-0.01	62495.	2157.	8.15	0.0290	21.	51.	0.00
MILE 31.50	794.21	-534.	-0.02	30648.	1770.	10.40	0.0250	24.	55.	0.00
MILE 30.10	794.21	-487.	-0.02	32287.	889.	9.95	0.0200	17.	53.	0.00
MILE 29.00	794.21	-436.	-0.01	35961.	1061.	10.81	0.0200	19.	55.	0.00
MILE 27.30	794.20	-303.	-0.01	37305.	1061.	11.20	0.0230	26.	57.	0.00
MILE 25.20	794.20	-130.	0.00	46186.	1059.	12.03	0.0230	29.	60.	0.00
MILE 23.10	794.19	-40.	0.00	38011.	1090.	11.46	0.0230	29.	64.	0.00

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TIME 18.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.62	2000.	2.68	747.	273.	2.22	0.0290	29.	4.	0.29
MILE 77.70	816.91	2042.	2.06	993.	182.	2.47	0.0400	29.	6.	0.16
MILE 75.60	810.88	2081.	2.00	1040.	165.	2.52	0.0400	29.	4.	0.14
MILE 73.50	807.16	2116.	1.79	1184.	150.	2.81	0.0330	29.	8.	0.11
MILE 71.40	805.56	2142.	1.40	1527.	228.	2.49	0.0400	29.	8.	0.10
MILE 69.30	802.50	2158.	1.81	1193.	266.	2.20	0.0340	29.	4.	0.15
MILE 67.20	797.39	2181.	1.97	1107.	269.	2.24	0.0340	29.	7.	0.17
MILE 65.10	794.45	2210.	1.03	2151.	332.	3.17	0.0320	29.	7.	0.07

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MILE 63.00	794.35	2156.	0.61	3551.	345.	4.67	0.0400	29.	13.	0.03
MILE 60.90	794.29	2038.	0.43	4702.	359.	5.78	0.0450	29.	18.	0.02
MILE 58.80	794.28	-72.	-0.01	5844.	357.	6.17	0.0400	-1973.	21.	0.00
MILE 57.00	794.28	-131.	-0.02	6485.	400.	6.08	0.0200	26.	19.	0.00
MILE 55.00	794.28	-182.	-0.03	6580.	463.	6.54	0.0200	27.	21.	0.00
MILE 53.10	794.27	-218.	-0.02	9084.	570.	6.04	0.0200	28.	21.	0.00
MILE 51.00	794.27	-224.	-0.02	9772.	926.	6.15	0.0200	33.	25.	0.00
MILE 48.30	794.25	19.	0.00	13282.	1634.	4.91	0.0200	33.	25.	0.00
MILE 46.20	794.24	128.	0.01	15753.	1829.	6.77	0.0200	29.	32.	0.00
MILE 44.10	794.23	273.	0.01	27883.	1518.	8.08	0.0300	17.	39.	0.00
MILE 43.70	794.23	319.	0.02	14418.	1374.	8.22	0.0300	15.	41.	0.00
MILE 42.00	794.20	667.	0.04	18977.	1339.	6.16	0.0300	32.	44.	0.00
MILE 39.10	794.14	2046.	0.11	18195.	1359.	7.87	0.0230	35.	43.	0.01
MILE 37.00	794.10	3323.	0.10	31975.	1123.	7.29	0.0280	21.	43.	0.00
MILE 36.00	794.08	3781.	0.19	19773.	903.	8.35	0.0280	17.	45.	0.01
MILE 34.60	794.05	4413.	0.15	30040.	1228.	9.64	0.0280	17.	46.	0.01
MILE 33.60	794.04	5156.	0.08	62034.	2144.	8.12	0.0290	21.	51.	0.00
MILE 31.50	794.02	7119.	0.23	30474.	1758.	10.37	0.0250	24.	55.	0.01
MILE 30.10	794.00	7911.	0.25	32069.	883.	9.91	0.0200	17.	53.	0.01
MILE 29.00	793.99	8450.	0.24	35740.	1053.	10.78	0.0200	19.	54.	0.01
MILE 27.30	793.96	9513.	0.26	37064.	1053.	11.17	0.0230	26.	57.	0.01
MILE 25.20	793.93	10736.	0.23	45893.	1049.	11.99	0.0230	29.	59.	0.01
MILE 23.10	793.90	11627.	0.31	37736.	1079.	11.41	0.0230	29.	64.	0.01

ODATE 3-14-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 19.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.62	2000.	2.69	744.	273.	2.21	0.0290	30.	4.	0.29
MILE 77.70	816.89	2031.	2.05	989.	182.	2.47	0.0400	30.	6.	0.16
MILE 75.60	810.86	2062.	1.99	1034.	165.	2.51	0.0400	30.	4.	0.14
MILE 73.50	807.14	2093.	1.78	1179.	150.	2.80	0.0330	30.	8.	0.11
MILE 71.40	805.54	2121.	1.40	1520.	227.	2.48	0.0400	30.	8.	0.10
MILE 69.30	802.49	2143.	1.80	1188.	265.	2.20	0.0340	30.	4.	0.15
MILE 67.20	797.38	2164.	1.96	1102.	269.	2.24	0.0340	30.	7.	0.17
MILE 65.10	794.53	2163.	0.99	2183.	335.	3.19	0.0320	30.	8.	0.07
MILE 63.00	794.41	2213.	0.62	3571.	346.	4.68	0.0400	30.	13.	0.03
MILE 60.90	794.31	2366.	0.50	4707.	359.	5.79	0.0450	30.	18.	0.02
MILE 58.80	794.26	547.	0.09	5837.	357.	6.17	0.0400	-1973.	21.	0.00
MILE 57.00	794.24	684.	0.11	6470.	400.	6.07	0.0200	27.	19.	0.00
MILE 55.00	794.21	896.	0.14	6557.	462.	6.53	0.0200	27.	21.	0.01
MILE 53.10	794.18	1291.	0.14	9025.	568.	6.03	0.0200	28.	21.	0.01
MILE 51.00	794.12	2152.	0.22	9699.	921.	6.13	0.0200	34.	25.	0.01
MILE 48.30	794.05	4274.	0.33	13053.	1623.	4.91	0.0200	34.	25.	0.02
MILE 46.20	794.01	6034.	0.39	15550.	1815.	6.73	0.0200	30.	32.	0.02
MILE 44.10	793.98	7769.	0.28	27582.	1505.	8.04	0.0300	18.	39.	0.01
MILE 43.70	793.97	8033.	0.56	14281.	1361.	8.23	0.0300	15.	41.	0.03

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Appendix F		Checked	ACM

MILE	42.00	793.92	9012.	0.48	18635.	1327.	6.16	0.0300	32.	44.	0.02
MILE	39.10	793.87	10000.	0.56	17976.	1347.	7.84	0.0230	35.	43.	0.03
MILE	37.00	793.88	9925.	0.31	31628.	1115.	7.24	0.0280	22.	43.	0.01
MILE	36.00	793.88	9861.	0.50	19611.	897.	8.33	0.0280	17.	45.	0.02
MILE	34.60	793.88	9771.	0.33	29863.	1221.	9.61	0.0280	17.	45.	0.01
MILE	33.60	793.88	9770.	0.16	61590.	2132.	8.08	0.0290	22.	51.	0.01
MILE	31.50	793.88	9973.	0.33	30346.	1749.	10.35	0.0250	25.	55.	0.01
MILE	30.10	793.87	10010.	0.31	31937.	879.	9.88	0.0200	18.	53.	0.01
MILE	29.00	793.87	9948.	0.28	35628.	1049.	10.76	0.0200	20.	54.	0.01
MILE	27.30	793.88	9731.	0.26	36982.	1050.	11.16	0.0230	27.	57.	0.01
MILE	25.20	793.89	9594.	0.21	45845.	1048.	11.98	0.0230	30.	59.	0.01
MILE	23.10	793.90	9518.	0.25	37735.	1079.	11.41	0.0230	30.	64.	0.01

ODATE 3-14-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 20.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	822.64	2000.	2.67	750.	273.	2.22	0.0290	30.	4.	0.28
MILE	77.70	816.88	2022.	2.05	986.	181.	2.47	0.0400	30.	6.	0.15
MILE	75.60	810.84	2046.	1.99	1029.	164.	2.50	0.0400	30.	4.	0.14
MILE	73.50	807.11	2072.	1.77	1172.	149.	2.80	0.0330	30.	8.	0.11
MILE	71.40	805.52	2098.	1.39	1510.	227.	2.47	0.0400	30.	8.	0.09
MILE	69.30	802.47	2124.	1.80	1180.	265.	2.19	0.0340	30.	4.	0.15
MILE	67.20	797.37	2160.	1.97	1096.	268.	2.23	0.0340	30.	7.	0.17
MILE	65.10	794.36	2302.	1.09	2115.	329.	3.14	0.0320	30.	7.	0.08
MILE	63.00	794.13	2851.	0.82	3477.	342.	4.63	0.0400	30.	13.	0.05
MILE	60.90	793.90	3566.	0.78	4572.	354.	5.69	0.0450	30.	17.	0.04
MILE	58.80	793.77	2280.	0.40	5656.	351.	6.11	0.0400	-1972.	21.	0.02
MILE	57.00	793.76	2829.	0.45	6264.	393.	5.97	0.0200	27.	19.	0.02
MILE	55.00	793.75	3443.	0.54	6383.	455.	6.47	0.0200	28.	20.	0.03
MILE	53.10	793.75	3999.	0.46	8769.	560.	5.95	0.0200	29.	20.	0.02
MILE	51.00	793.76	4600.	0.48	9516.	910.	6.08	0.0200	34.	24.	0.03
MILE	48.30	793.79	5073.	0.40	12771.	1609.	4.92	0.0200	34.	25.	0.02
MILE	46.20	793.80	5786.	0.38	15365.	1802.	6.70	0.0200	30.	32.	0.02
MILE	44.10	793.82	6337.	0.23	27392.	1497.	8.01	0.0300	18.	39.	0.01
MILE	43.70	793.82	6403.	0.45	14204.	1355.	8.24	0.0300	15.	41.	0.02
MILE	42.00	793.84	6516.	0.35	18532.	1323.	6.16	0.0300	33.	44.	0.02
MILE	39.10	793.86	6683.	0.37	17966.	1346.	7.84	0.0230	36.	43.	0.02
MILE	37.00	793.86	7257.	0.23	31597.	1114.	7.23	0.0280	22.	43.	0.01
MILE	36.00	793.87	7490.	0.38	19600.	897.	8.33	0.0280	17.	45.	0.01
MILE	34.60	793.87	7739.	0.26	29861.	1221.	9.61	0.0280	17.	45.	0.01
MILE	33.60	793.88	7832.	0.13	61596.	2132.	8.08	0.0290	22.	51.	0.00
MILE	31.50	793.89	7779.	0.26	30355.	1750.	10.36	0.0250	25.	55.	0.01
MILE	30.10	793.89	7818.	0.24	31955.	880.	9.89	0.0200	18.	53.	0.01
MILE	29.00	793.90	7865.	0.22	35650.	1050.	10.76	0.0200	20.	54.	0.01
MILE	27.30	793.91	7939.	0.21	37012.	1051.	11.16	0.0230	27.	57.	0.01
MILE	25.20	793.91	7940.	0.17	45875.	1049.	11.99	0.0230	30.	59.	0.00

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 113 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 23.10 793.90 8218. 0.22 37735. 1079. 11.41 0.0230 30. 64. 0.01

ODATE 3-14-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 21.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.63	759.	274.	2.23	0.0290	31.	4.	0.28
MILE 77.70	816.88	2019.	2.05	985.	181.	2.46	0.0400	31.	6.	0.15
MILE 75.60	810.83	2039.	1.99	1026.	164.	2.50	0.0400	31.	4.	0.14
MILE 73.50	807.09	2060.	1.77	1166.	149.	2.79	0.0330	31.	8.	0.11
MILE 71.40	805.50	2085.	1.39	1502.	226.	2.47	0.0400	31.	8.	0.09
MILE 69.30	802.47	2123.	1.80	1178.	264.	2.19	0.0340	31.	4.	0.15
MILE 67.20	797.35	2186.	2.01	1089.	267.	2.23	0.0340	31.	7.	0.18
MILE 65.10	793.86	2380.	1.24	1927.	311.	2.97	0.0320	31.	7.	0.09
MILE 63.00	793.68	2735.	0.82	3325.	335.	4.54	0.0400	31.	13.	0.05
MILE 60.90	793.57	2851.	0.64	4459.	350.	5.61	0.0450	31.	17.	0.03
MILE 58.80	793.55	825.	0.15	5575.	348.	6.08	0.0400	-1972.	20.	0.01
MILE 57.00	793.57	860.	0.14	6182.	390.	5.92	0.0200	28.	19.	0.01
MILE 55.00	793.60	934.	0.15	6327.	452.	6.45	0.0200	28.	20.	0.01
MILE 53.10	793.63	989.	0.11	8697.	558.	5.92	0.0200	29.	20.	0.01
MILE 51.00	793.67	1072.	0.11	9468.	907.	6.07	0.0200	35.	24.	0.01
MILE 48.30	793.70	1636.	0.13	12670.	1604.	4.92	0.0200	35.	25.	0.01
MILE 46.20	793.72	2191.	0.14	15297.	1797.	6.68	0.0200	31.	32.	0.01
MILE 44.10	793.74	2525.	0.09	27298.	1493.	8.00	0.0300	18.	39.	0.00
MILE 43.70	793.74	2587.	0.18	14164.	1351.	8.25	0.0300	15.	41.	0.01
MILE 42.00	793.76	2884.	0.16	18438.	1319.	6.16	0.0300	33.	44.	0.01
MILE 39.10	793.80	3228.	0.18	17913.	1343.	7.84	0.0230	36.	43.	0.01
MILE 37.00	793.83	2565.	0.08	31548.	1113.	7.23	0.0280	23.	43.	0.00
MILE 36.00	793.85	2401.	0.12	19585.	896.	8.33	0.0280	17.	45.	0.00
MILE 34.60	793.86	2295.	0.08	29849.	1220.	9.61	0.0280	17.	45.	0.00
MILE 33.60	793.87	2111.	0.03	61572.	2132.	8.08	0.0290	23.	51.	0.00
MILE 31.50	793.89	1525.	0.05	30358.	1750.	10.36	0.0250	25.	55.	0.00
MILE 30.10	793.90	1490.	0.05	31967.	880.	9.89	0.0200	18.	53.	0.00
MILE 29.00	793.91	1412.	0.04	35667.	1051.	10.76	0.0200	20.	54.	0.00
MILE 27.30	793.93	1139.	0.03	37036.	1052.	11.16	0.0230	28.	57.	0.00
MILE 25.20	793.96	834.	0.02	45928.	1051.	11.99	0.0230	31.	59.	0.00
MILE 23.10	793.99	576.	0.02	37821.	1083.	11.43	0.0230	31.	64.	0.00

ODATE 3-14-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 22.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80 822.71 2000. 2.61 768. 275. 2.24 0.0290 31. 4. 0.27

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 114 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 77.70	816.88	2021.	2.05	986.	181.	2.47	0.0400	31.	6.	0.15
MILE 75.60	810.83	2042.	1.99	1027.	164.	2.50	0.0400	31.	4.	0.14
MILE 73.50	807.09	2067.	1.77	1166.	149.	2.79	0.0330	31.	8.	0.11
MILE 71.40	805.50	2101.	1.40	1505.	227.	2.47	0.0400	31.	8.	0.10
MILE 69.30	802.49	2157.	1.82	1188.	265.	2.20	0.0340	31.	4.	0.15
MILE 67.20	797.37	2216.	2.02	1096.	268.	2.23	0.0340	31.	7.	0.18
MILE 65.10	793.82	2243.	1.17	1911.	310.	2.96	0.0320	31.	7.	0.08
MILE 63.00	793.72	2087.	0.62	3339.	336.	4.55	0.0400	31.	13.	0.03
MILE 60.90	793.66	1985.	0.44	4492.	351.	5.63	0.0450	31.	17.	0.02
MILE 58.80	793.65	-98.	-0.02	5613.	350.	6.09	0.0400	-1971.	21.	0.00
MILE 57.00	793.66	-228.	-0.04	6220.	391.	5.94	0.0200	28.	19.	0.00
MILE 55.00	793.67	-428.	-0.07	6352.	453.	6.46	0.0200	29.	20.	0.00
MILE 53.10	793.68	-600.	-0.07	8724.	558.	5.93	0.0200	30.	20.	0.00
MILE 51.00	793.69	-844.	-0.09	9481.	908.	6.07	0.0200	36.	24.	0.00
MILE 48.30	793.74	-1861.	-0.15	12714.	1606.	4.92	0.0200	36.	25.	-0.01
MILE 46.20	793.77	-3141.	-0.20	15341.	1800.	6.69	0.0200	31.	32.	-0.01
MILE 44.10	793.80	-3749.	-0.14	27366.	1496.	8.01	0.0300	18.	39.	-0.01
MILE 43.70	793.80	-3847.	-0.27	14194.	1354.	8.25	0.0300	16.	41.	-0.01
MILE 42.00	793.83	-4282.	-0.23	18526.	1322.	6.16	0.0300	34.	44.	-0.01
MILE 39.10	793.89	-5121.	-0.28	17994.	1348.	7.85	0.0230	37.	43.	-0.01
MILE 37.00	793.92	-5070.	-0.16	31681.	1116.	7.24	0.0280	23.	43.	-0.01
MILE 36.00	793.92	-5024.	-0.26	19648.	899.	8.33	0.0280	18.	45.	-0.01
MILE 34.60	793.94	-4974.	-0.17	29926.	1224.	9.62	0.0280	18.	45.	-0.01
MILE 33.60	793.95	-4995.	-0.08	61774.	2137.	8.10	0.0290	23.	51.	0.00
MILE 31.50	793.96	-5159.	-0.17	30417.	1754.	10.37	0.0250	26.	55.	-0.01
MILE 30.10	793.97	-5191.	-0.16	32035.	882.	9.90	0.0200	18.	53.	0.00
MILE 29.00	793.98	-5206.	-0.15	35732.	1053.	10.77	0.0200	21.	54.	0.00
MILE 27.30	793.99	-5269.	-0.14	37097.	1054.	11.17	0.0230	28.	57.	0.00
MILE 25.20	794.00	-5485.	-0.12	45972.	1052.	12.00	0.0230	31.	60.	0.00
MILE 23.10	794.01	-5489.	-0.15	37840.	1083.	11.43	0.0230	31.	64.	0.00

ODATE 3-14-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 23.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.72	2000.	2.59	771.	275.	2.25	0.0290	32.	4.	0.27
MILE 77.70	816.89	2029.	2.05	989.	182.	2.47	0.0400	32.	6.	0.15
MILE 75.60	810.85	2061.	2.00	1032.	165.	2.51	0.0400	32.	4.	0.14
MILE 73.50	807.12	2096.	1.79	1174.	149.	2.80	0.0330	32.	8.	0.11
MILE 71.40	805.54	2140.	1.41	1518.	227.	2.48	0.0400	32.	8.	0.10
MILE 69.30	802.52	2189.	1.82	1201.	266.	2.21	0.0340	32.	4.	0.15
MILE 67.20	797.38	2218.	2.01	1103.	269.	2.24	0.0340	32.	7.	0.18
MILE 65.10	793.99	2190.	1.11	1978.	316.	3.02	0.0320	32.	7.	0.08
MILE 63.00	793.92	1944.	0.57	3407.	339.	4.59	0.0400	32.	13.	0.03
MILE 60.90	793.93	1489.	0.33	4579.	354.	5.69	0.0450	32.	17.	0.02
MILE 58.80	793.94	-1013.	-0.18	5721.	353.	6.13	0.0400	-1971.	21.	-0.01
MILE 57.00	793.95	-1336.	-0.21	6345.	396.	6.01	0.0200	29.	19.	-0.01

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE	55.00	793.96	-1646.	-0.25	6460.	458.	6.50	0.0200	29.	20.	-0.01
MILE	53.10	793.97	-2007.	-0.23	8899.	564.	5.99	0.0200	30.	21.	-0.01
MILE	51.00	793.98	-2639.	-0.27	9626.	917.	6.11	0.0200	36.	25.	-0.01
MILE	48.30	793.98	-3748.	-0.29	12977.	1619.	4.91	0.0200.	36.	25.	-0.02
MILE	46.20	793.97	-4538.	-0.29	15517.	1812.	6.73	0.0200	32.	32.	-0.02
MILE	44.10	793.97	-5707.	-0.21	27575.	1505.	8.04	0.0300	19.	39.	-0.01
MILE	43.70	793.97	-5876.	-0.41	14282.	1362.	8.23	0.0300	16.	41.	-0.02
MILE	42.00	793.97	-6404.	-0.34	18695.	1329.	6.16	0.0300	35.	44.	-0.02
MILE	39.10	793.96	-6436.	-0.36	18045.	1351.	7.85	0.0230	38.	43.	-0.02
MILE	37.00	793.94	-6302.	-0.20	31720.	1117.	7.25	0.0280	23.	43.	-0.01
MILE	36.00	793.93	-6261.	-0.32	19656.	899.	8.33	0.0280	18.	45.	-0.01
MILE	34.60	793.93	-6180.	-0.21	29916.	1223.	9.62	0.0280	18.	45.	-0.01
MILE	33.60	793.93	-6000.	-0.10	61721.	2136.	8.09	0.0290	23.	51.	0.00
MILE	31.50	793.91	-5435.	-0.18	30378.	1751.	10.36	0.0250	26.	55.	-0.01
MILE	30.10	793.91	-5301.	-0.17	31975.	880.	9.89	0.0200	19.	53.	0.00
MILE	29.00	793.91	-5140.	-0.14	35661.	1051.	10.76	0.0200	21.	54.	0.00
MILE	27.30	793.90	-4656.	-0.13	37001.	1050.	11.16	0.0230	29.	57.	0.00
MILE	25.20	793.88	-3901.	-0.09	45841.	1048.	11.98	0.0230	32.	59.	0.00
MILE	23.10	793.87	-3472.	-0.09	37707.	1078.	11.41	0.0230	32.	64.	0.00

ODATE 3-15-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 0.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	822.69	2000.	2.62	763.	274.	2.24	0.0290	32.	4.	0.28
MILE	77.70	816.91	2043.	2.06	993.	182.	2.47	0.0400	32.	6.	0.16
MILE	75.60	810.88	2087.	2.01	1040.	165.	2.52	0.0400	32.	4.	0.14
MILE	73.50	807.16	2128.	1.80	1185.	150.	2.81	0.0330	32.	8.	0.11
MILE	71.40	805.57	2168.	1.41	1533.	228.	2.50	0.0400	32.	8.	0.10
MILE	69.30	802.53	2196.	1.82	1207.	267.	2.21	0.0340	32.	4.	0.15
MILE	67.20	797.40	2201.	1.98	1109.	270.	2.24	0.0340	32.	7.	0.17
MILE	65.10	794.39	2066.	0.97	2129.	330.	3.15	0.0320	32.	7.	0.07
MILE	63.00	794.31	1764.	0.50	3539.	344.	4.66	0.0400	32.	13.	0.03
MILE	60.90	794.25	1554.	0.33	4688.	358.	5.77	0.0450	32.	18.	0.02
MILE	58.80	794.22	-596.	-0.10	5823.	356.	6.16	0.0400	-1970.	21.	0.00
MILE	57.00	794.20	-760.	-0.12	6453.	399.	6.06	0.0200	29.	19.	-0.01
MILE	55.00	794.18	-976.	-0.15	6545.	461.	6.53	0.0200	30.	21.	-0.01
MILE	53.10	794.16	-1122.	-0.12	9014.	568.	6.02	0.0200	31.	21.	-0.01
MILE	51.00	794.12	-1162.	-0.12	9697.	921.	6.13	0.0200	37.	25.	-0.01
MILE	48.30	794.07	-908.	-0.07	13083.	1625.	4.91	0.0200	37.	25.	0.00
MILE	46.20	794.05	-1124.	-0.07	15586.	1817.	6.74	0.0200	32.	32.	0.00
MILE	44.10	794.02	-813.	-0.03	27634.	1507.	8.04	0.0300	19.	39.	0.00
MILE	43.70	794.02	-761.	-0.05	14306.	1364.	8.23	0.0300	16.	41.	0.00
MILE	42.00	793.99	-578.	-0.03	18709.	1329.	6.16	0.0300	35.	44.	0.00
MILE	39.10	793.95	-817.	-0.05	18042.	1350.	7.85	0.0230	38.	43.	0.00
MILE	37.00	793.95	-1127.	-0.04	31737.	1118.	7.25	0.0280	24.	43.	0.00
MILE	36.00	793.94	-1347.	-0.07	19664.	899.	8.34	0.0280	18.	45.	0.00

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 116 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 34.60	793.93	-1699.	-0.06	29918.	1223.	9.62	0.0280	18.	45.	0.00
MILE 33.60	793.93	-1839.	-0.03	61721.	2136.	8.09	0.0290	24.	51.	0.00
MILE 31.50	793.92	-1767.	-0.06	30382.	1752.	10.36	0.0250	27.	55.	0.00
MILE 30.10	793.91	-1996.	-0.06	31972.	880.	9.89	0.0200	19.	53.	0.00
MILE 29.00	793.90	-2141.	-0.06	35654.	1050.	10.76	0.0200	21.	54.	0.00
MILE 27.30	793.89	-2310.	-0.06	36995.	1050.	11.16	0.0230	29.	57.	0.00
MILE 25.20	793.88	-2324.	-0.05	45835.	1048.	11.98	0.0230	32.	59.	0.00
MILE 23.10	793.88	-2467.	-0.07	37716.	1079.	11.41	0.0230	32.	64.	0.00

ODATE 3-15-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 1.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.63	2000.	2.67	748.	273.	2.22	0.0290	33.	4.	0.28
MILE 77.70	816.92	2052.	2.06	996.	182.	2.48	0.0400	33.	6.	0.16
MILE 75.60	810.90	2100.	2.01	1045.	166.	2.52	0.0400	33.	4.	0.14
MILE 73.50	807.19	2139.	1.80	1191.	151.	2.82	0.0330	33.	8.	0.11
MILE 71.40	805.59	2168.	1.41	1538.	228.	2.50	0.0400	33.	8.	0.10
MILE 69.30	802.52	2172.	1.81	1201.	266.	2.21	0.0340	33.	4.	0.15
MILE 67.20	797.39	2168.	1.96	1104.	269.	2.24	0.0340	33.	7.	0.17
MILE 65.10	794.51	2173.	1.00	2173.	334.	3.18	0.0320	33.	8.	0.07
MILE 63.00	794.34	2389.	0.67	3549.	345.	4.67	0.0400	33.	13.	0.04
MILE 60.90	794.21	2742.	0.59	4674.	358.	5.76	0.0450	33.	18.	0.03
MILE 58.80	794.13	1094.	0.19	5791.	355.	6.15	0.0400	-1970.	21.	0.01
MILE 57.00	794.11	1374.	0.21	6415.	398.	6.04	0.0200	30.	19.	0.01
MILE 55.00	794.09	1709.	0.26	6509.	460.	6.52	0.0200	30.	21.	0.01
MILE 53.10	794.07	1998.	0.22	8961.	566.	6.01	0.0200	31.	21.	0.01
MILE 51.00	794.06	2222.	0.23	9668.	920.	6.12	0.0200	37.	25.	0.01
MILE 48.30	794.06	2051.	0.16	13070.	1624.	4.91	0.0200	37.	25.	0.01
MILE 46.20	794.04	2436.	0.16	15574.	1816.	6.74	0.0200	33.	32.	0.01
MILE 44.10	794.03	2491.	0.09	27643.	1508.	8.05	0.0300	19.	39.	0.00
MILE 43.70	794.03	2488.	0.17	14312.	1364.	8.23	0.0300	16.	41.	0.01
MILE 42.00	794.02	2418.	0.13	18750.	1331.	6.16	0.0300	36.	44.	0.01
MILE 39.10	793.99	2614.	0.14	18070.	1352.	7.85	0.0230	39.	43.	0.01
MILE 37.00	793.96	3236.	0.10	31746.	1118.	7.25	0.0280	24.	43.	0.00
MILE 36.00	793.95	3442.	0.18	19665.	899.	8.34	0.0280	19.	45.	0.01
MILE 34.60	793.94	3657.	0.12	29922.	1224.	9.62	0.0280	19.	45.	0.00
MILE 33.60	793.93	3846.	0.06	61734.	2136.	8.09	0.0290	24.	51.	0.00
MILE 31.50	793.92	4244.	0.14	30382.	1752.	10.36	0.0250	27.	55.	0.01
MILE 30.10	793.91	4296.	0.13	31970.	880.	9.89	0.0200	19.	53.	0.00
MILE 29.00	793.90	4368.	0.12	35653.	1050.	10.76	0.0200	22.	54.	0.00
MILE 27.30	793.89	4588.	0.12	36993.	1050.	11.16	0.0230	30.	57.	0.00
MILE 25.20	793.87	4870.	0.11	45831.	1047.	11.98	0.0230	33.	59.	0.00
MILE 23.10	793.84	5111.	0.14	37679.	1077.	11.40	0.0230	33.	64.	0.00

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 117 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

0DATE 3-15-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

	TIME 2.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL INFLOW		
	DEPTH FROUDE										
MILE	79.80	822.58	2000.	2.72	736.	272.	2.20	0.0290	33.	4.	0.29
MILE	77.70	816.91	2045.	2.06	994.	182.	2.47	0.0400	33.	6.	0.16
MILE	75.60	810.89	2086.	2.00	1042.	166.	2.52	0.0400	33.	4.	0.14
MILE	73.50	807.17	2118.	1.78	1188.	150.	2.82	0.0330	33.	8.	0.11
MILE	71.40	805.57	2139.	1.40	1530.	228.	2.49	0.0400	33.	8.	0.10
MILE	69.30	802.49	2148.	1.81	1190.	265.	2.20	0.0340	33.	4.	0.15
MILE	67.20	797.38	2185.	1.99	1101.	269.	2.24	0.0340	33.	7.	0.17
MILE	65.10	794.25	2328.	1.12	2073.	325.	3.10	0.0320	33.	7.	0.08
MILE	63.00	794.09	2581.	0.75	3464.	341.	4.62	0.0400	33.	13.	0.04
MILE	60.90	793.98	2701.	0.59	4599.	355.	5.71	0.0450	33.	17.	0.03
MILE	58.80	793.94	863.	0.15	5718.	353.	6.13	0.0400	-1969.	21.	0.01
MILE	57.00	793.94	1053.	0.17	6340.	395.	6.00	0.0200	30.	19.	0.01
MILE	55.00	793.94	1293.	0.20	6455.	458.	6.50	0.0200	31.	20.	0.01
MILE	53.10	793.95	1540.	0.17	8888.	564.	5.98	0.0200	32.	21.	0.01
MILE	51.00	793.95	1964.	0.20	9612.	916.	6.11	0.0200	38.	25.	0.01
MILE	48.30	793.94	3292.	0.25	12932.	1617.	4.91	0.0200	38.	25.	0.02
MILE	46.20	793.93	4440.	0.29	15481.	1810.	6.72	0.0200	33.	32.	0.02
MILE	44.10	793.92	5390.	0.20	27515.	1502.	8.03	0.0300	20.	39.	0.01
MILE	43.70	793.92	5537.	0.39	14255.	1359.	8.24	0.0300	17.	41.	0.02
MILE	42.00	793.90	6093.	0.33	18608.	1326.	6.16	0.0300	36.	44.	0.02
MILE	39.10	793.89	6603.	0.37	17992.	1348.	7.85	0.0230	39.	43.	0.02
MILE	37.00	793.91	6026.	0.19	31678.	1116.	7.24	0.0280	24.	43.	0.01
MILE	36.00	793.92	5878.	0.30	19640.	898.	8.33	0.0280	19.	45.	0.01
MILE	34.60	793.92	5763.	0.19	29902.	1223.	9.62	0.0280	19.	45.	0.01
MILE	33.60	793.92	5559.	0.09	61700.	2135.	8.09	0.0290	24.	51.	0.00
MILE	31.50	793.93	4905.	0.16	30394.	1753.	10.36	0.0250	28.	55.	0.01
MILE	30.10	793.93	4775.	0.15	31993.	881.	9.89	0.0200	20.	53.	0.00
MILE	29.00	793.93	4627.	0.13	35682.	1051.	10.77	0.0200	22.	54.	0.00
MILE	27.30	793.94	4223.	0.11	37042.	1052.	11.16	0.0230	30.	57.	0.00
MILE	25.20	793.95	3799.	0.08	45921.	1050.	11.99	0.0230	33.	59.	0.00
MILE	23.10	793.97	3493.	0.09	37802.	1082.	11.42	0.0230	33.	64.	0.00

0DATE 3-15-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

	TIME 3.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL INFLOW		
	DEPTH FROUDE										
MILE	79.80	822.59	2000.	2.71	738.	272.	2.20	0.0290	34.	4.	0.29
MILE	77.70	816.89	2029.	2.05	989.	181.	2.47	0.0400	34.	6.	0.15
MILE	75.60	810.85	2056.	1.99	1033.	165.	2.51	0.0400	34.	4.	0.14
MILE	73.50	807.14	2087.	1.77	1178.	150.	2.80	0.0330	34.	8.	0.11
MILE	71.40	805.54	2117.	1.39	1519.	227.	2.48	0.0400	34.	8.	0.10

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 69.30	802.50	2160.	1.81	1191.	265.	2.20	0.0340	34.	4.	0.15
MILE 67.20	797.39	2213.	2.00	1106.	269.	2.24	0.0340	34.	7.	0.17
MILE 65.10	794.10	2290.	1.13	2019.	320.	3.05	0.0320	34.	7.	0.08
MILE 63.00	793.95	2473.	0.72	3414.	339.	4.59	0.0400	34.	13.	0.04
MILE 60.90	793.81	2793.	0.62	4541.	353.	5.67	0.0450	34.	17.	0.03
MILE 58.80	793.74	1127.	0.20	5647.	351.	6.10	0.0400	-1969.	21.	0.01
MILE 57.00	793.74	1336.	0.21	6256.	393.	5.96	0.0200	30.	19.	0.01
MILE 55.00	793.75	1534.	0.24	6381.	454.	6.47	0.0200	31.	20.	0.01
MILE 53.10	793.75	1737.	0.20	8768.	560.	5.95	0.0200	32.	20.	0.01
MILE 51.00	793.77	1965.	0.21	9517.	910.	6.08	0.0200	38.	24.	0.01
MILE 48.30	793.81	1843.	0.14	12790.	1610.	4.92	0.0200	38.	25.	0.01
MILE 46.20	793.84	1482.	0.10	15398.	1804.	6.70	0.0200	34.	32.	0.01
MILE 44.10	793.86	1540.	0.06	27445.	1499.	8.02	0.0300	20.	39.	0.00
MILE 43.70	793.87	1545.	0.11	14229.	1357.	8.24	0.0300	17.	41.	0.01
MILE 42.00	793.90	1510.	0.08	18602.	1325.	6.16	0.0300	37.	44.	0.00
MILE 39.10	793.94	1414.	0.08	18031.	1350.	7.85	0.0230	40.	43.	0.00
MILE 37.00	793.95	1763.	0.06	31740.	1118.	7.25	0.0280	25.	43.	0.00
MILE 36.00	793.96	1979.	0.10	19674.	900.	8.34	0.0280	19.	45.	0.00
MILE 34.60	793.97	2302.	0.08	29952.	1225.	9.62	0.0280	19.	45.	0.00
MILE 33.60	793.97	2450.	0.04	61840.	2139.	8.10	0.0290	25.	51.	0.00
MILE 31.50	793.98	2469.	0.08	30439.	1756.	10.37	0.0250	28.	55.	0.00
MILE 30.10	793.98	2657.	0.08	32052.	882.	9.90	0.0200	20.	53.	0.00
MILE 29.00	793.99	2745.	0.08	35742.	1054.	10.78	0.0200	22.	54.	0.00
MILE 27.30	794.00	2739.	0.07	37100.	1054.	11.17	0.0230	30.	57.	0.00
MILE 25.20	794.00	2414.	0.05	45975.	1052.	12.00	0.0230	34.	60.	0.00
MILE 23.10	794.00	2480.	0.07	37830.	1083.	11.43	0.0230	34.	64.	0.00

ODATE 3-15-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 4.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.64	2000.	2.66	751.	273.	2.22	0.0290	34.	4.	0.28
MILE 77.70	816.88	2018.	2.05	985.	181.	2.46	0.0400	34.	6.	0.15
MILE 75.60	810.83	2042.	1.99	1028.	164.	2.50	0.0400	34.	4.	0.14
MILE 73.50	807.12	2076.	1.77	1173.	149.	2.80	0.0330	34.	8.	0.11
MILE 71.40	805.53	2118.	1.40	1516.	227.	2.48	0.0400	34.	8.	0.10
MILE 69.30	802.51	2173.	1.82	1196.	266.	2.20	0.0340	34.	4.	0.15
MILE 67.20	797.39	2224.	2.01	1105.	269.	2.24	0.0340	34.	7.	0.18
MILE 65.10	793.93	2316.	1.19	1954.	314.	3.00	0.0320	34.	7.	0.08
MILE 63.00	793.81	2383.	0.71	3369.	337.	4.57	0.0400	34.	13.	0.04
MILE 60.90	793.77	2203.	0.49	4527.	352.	5.66	0.0450	34.	17.	0.02
MILE 58.80	793.78	-129.	-0.02	5662.	351.	6.11	0.0400	-1968.	21.	0.00
MILE 57.00	793.81	-304.	-0.05	6283.	394.	5.98	0.0200	31.	19.	0.00
MILE 55.00	793.83	-430.	-0.07	6412.	456.	6.48	0.0200	32.	20.	0.00
MILE 53.10	793.85	-561.	-0.06	8828.	562.	5.97	0.0200	33.	21.	0.00
MILE 51.00	793.87	-800.	-0.08	9570.	914.	6.10	0.0200	39.	25.	0.00
MILE 48.30	793.88	-985.	-0.08	12865.	1614.	4.91	0.0200	39.	25.	0.00

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MILE 46.20	793.88	-777.	-0.05	15436.	1807.	6.71	0.0200	34.	32.	0.00
MILE 44.10	793.89	-1191.	-0.04	27476.	1501.	8.02	0.0300	20.	39.	0.00
MILE 43.70	793.89	-1245.	-0.09	14240.	1358.	8.24	0.0300	17.	41.	0.00
MILE 42.00	793.89	-1348.	-0.07	18598.	1325.	6.16	0.0300	37.	44.	0.00
MILE 39.10	793.88	-811.	-0.05	17986.	1347.	7.85	0.0230	41.	43.	0.00
MILE 37.00	793.88	-582.	-0.02	31619.	1115.	7.24	0.0280	25.	43.	0.00
MILE 36.00	793.88	-461.	-0.02	19611.	897.	8.33	0.0280	20.	45.	0.00
MILE 34.60	793.88	-253.	-0.01	29870.	1221.	9.61	0.0280	20.	45.	0.00
MILE 33.60	793.88	-70.	0.00	61609.	2133.	8.08	0.0290	25.	51.	0.00
MILE 31.50	793.88	308.	0.01	30351.	1750.	10.35	0.0250	28.	55.	0.00
MILE 30.10	793.89	531.	0.02	31954.	880.	9.89	0.0200	20.	53.	0.00
MILE 29.00	793.90	693.	0.02	35650.	1050.	10.76	0.0200	23.	54.	0.00
MILE 27.30	793.90	1036.	0.03	37006.	1050.	11.16	0.0230	31.	57.	0.00
MILE 25.20	793.90	1561.	0.03	45866.	1049.	11.99	0.0230	34.	59.	0.00
MILE 23.10	793.91	1846.	0.05	37745.	1080.	11.41	0.0230	34.	64.	0.00

ODATE 3-15-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 5.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.68	2000.	2.63	761.	274.	2.24	0.0290	54.	4.	0.28
MILE 77.70	816.90	2036.	2.05	991.	182.	2.47	0.0400	54.	6.	0.16
MILE 75.60	810.86	2070.	2.00	1036.	165.	2.51	0.0400	54.	4.	0.14
MILE 73.50	807.14	2104.	1.78	1180.	150.	2.81	0.0330	54.	8.	0.11
MILE 71.40	805.56	2146.	1.41	1525.	228.	2.49	0.0400	54.	8.	0.10
MILE 69.30	802.53	2196.	1.82	1205.	267.	2.21	0.0340	54.	4.	0.15
MILE 67.20	797.42	2248.	2.01	1120.	271.	2.25	0.0340	74.	7.	0.17
MILE 65.10	794.18	2194.	1.07	2047.	323.	3.08	0.0320	77.	7.	0.07
MILE 63.00	794.08	1955.	0.56	3460.	341.	4.62	0.0400	77.	13.	0.03
MILE 60.90	794.01	1820.	0.39	4608.	355.	5.72	0.0450	77.	17.	0.02
MILE 58.80	793.98	-214.	-0.04	5735.	354.	6.13	0.0400	-1929.	21.	0.00
MILE 57.00	793.97	-303.	-0.05	6354.	396.	6.01	0.0200	70.	19.	0.00
MILE 55.00	793.96	-466.	-0.07	6462.	458.	6.50	0.0200	71.	20.	0.00
MILE 53.10	793.94	-574.	-0.06	8884.	564.	5.98	0.0200	73.	21.	0.00
MILE 51.00	793.92	-538.	-0.06	9594.	915.	6.10	0.0200	88.	25.	0.00
MILE 48.30	793.89	-214.	-0.02	12876.	1614.	4.91	0.0200	88.	25.	0.00
MILE 46.20	793.89	-709.	-0.05	15444.	1807.	6.71	0.0200	77.	32.	0.00
MILE 44.10	793.88	-541.	-0.02	27469.	1500.	8.02	0.0300	46.	39.	0.00
MILE 43.70	793.88	-516.	-0.04	14236.	1357.	8.24	0.0300	38.	41.	0.00
MILE 42.00	793.88	-490.	-0.03	18582.	1325.	6.16	0.0300	84.	44.	0.00
MILE 39.10	793.91	-1294.	-0.07	18005.	1348.	7.85	0.0230	91.	43.	0.00
MILE 37.00	793.94	-1988.	-0.06	31717.	1117.	7.25	0.0280	57.	43.	0.00
MILE 36.00	793.95	-2348.	-0.12	19665.	899.	8.34	0.0280	44.	45.	0.00
MILE 34.60	793.95	-2896.	-0.10	29940.	1224.	9.62	0.0280	44.	45.	0.00
MILE 33.60	793.96	-3259.	-0.05	61804.	2138.	8.10	0.0290	57.	51.	0.00
MILE 31.50	793.96	-3759.	-0.12	30425.	1755.	10.37	0.0250	64.	55.	-0.01
MILE 30.10	793.97	-4255.	-0.13	32041.	882.	9.90	0.0200	46.	53.	0.00

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Appendix F		Checked	ACM

MILE	29.00	793.98	-4543.	-0.13	35733.	1053.	10.77	0.0200	51.	54.	0.00
MILE	27.30	793.98	-4965.	-0.13	37085.	1053.	11.17	0.0230	70.	57.	0.00
MILE	25.20	793.98	-5331.	-0.12	45954.	1051.	12.00	0.0230	77.	59.	0.00
MILE	23.10	794.01	-5697.	-0.15	37840.	1083.	11.43	0.0230	77.	64.	0.00

ODATE 3-15-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 6.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	822.67	2000.	2.64	758.	274.	2.23	0.0290	75.	4.	0.28
MILE	77.70	816.95	2070.	2.06	1004.	183.	2.48	0.0400	75.	6.	0.16
MILE	75.60	810.94	2130.	2.02	1056.	167.	2.54	0.0400	75.	4.	0.14
MILE	73.50	807.22	2170.	1.81	1200.	151.	2.83	0.0330	75.	8.	0.11
MILE	71.40	805.62	2210.	1.42	1552.	229.	2.52	0.0400	75.	8.	0.10
MILE	69.30	802.57	2238.	1.83	1222.	268.	2.23	0.0340	75.	4.	0.15
MILE	67.20	797.47	2272.	1.99	1140.	273.	2.26	0.0340	114.	7.	0.17
MILE	65.10	794.33	2304.	1.09	2106.	328.	3.13	0.0320	120.	7.	0.08
MILE	63.00	794.17	2470.	0.71	3489.	342.	4.63	0.0400	120.	13.	0.04
MILE	60.90	794.04	2727.	0.59	4618.	356.	5.72	0.0450	120.	18.	0.03
MILE	58.80	793.99	875.	0.15	5740.	354.	6.13	0.0400	-1889.	21.	0.01
MILE	57.00	793.99	963.	0.15	6363.	396.	6.02	0.0200	108.	19.	0.01
MILE	55.00	793.99	1042.	0.16	6474.	458.	6.50	0.0200	111.	20.	0.01
MILE	53.10	794.00	1007.	0.11	8919.	565.	5.99	0.0200	114.	21.	0.01
MILE	51.00	794.02	617.	0.06	9647.	918.	6.12	0.0200	137.	25.	0.00
MILE	48.30	794.06	-1078.	-0.08	13065.	1624.	4.91	0.0200	137.	25.	-0.01
MILE	46.20	794.05	-1844.	-0.12	15585.	1817.	6.74	0.0200	120.	32.	-0.01
MILE	44.10	794.06	-3052.	-0.11	27681.	1509.	8.05	0.0300	71.	39.	0.00
MILE	43.70	794.06	-3238.	-0.23	14331.	1366.	8.23	0.0300	60.	41.	-0.01
MILE	42.00	794.07	-3921.	-0.21	18819.	1333.	6.16	0.0300	131.	44.	-0.01
MILE	39.10	794.08	-4432.	-0.24	18142.	1356.	7.86	0.0230	142.	43.	-0.01
MILE	37.00	794.05	-4071.	-0.13	31903.	1122.	7.28	0.0280	88.	43.	0.00
MILE	36.00	794.05	-3986.	-0.20	19749.	903.	8.34	0.0280	68.	45.	-0.01
MILE	34.60	794.05	-3975.	-0.13	30039.	1228.	9.64	0.0280	68.	46.	0.00
MILE	33.60	794.05	-3958.	-0.06	62060.	2145.	8.12	0.0290	88.	51.	0.00
MILE	31.50	794.04	-3873.	-0.13	30497.	1759.	10.38	0.0250	100.	55.	-0.01
MILE	30.10	794.04	-3990.	-0.12	32115.	884.	9.92	0.0200	71.	53.	0.00
MILE	29.00	794.05	-3970.	-0.11	35799.	1056.	10.79	0.0200	80.	54.	0.00
MILE	27.30	794.04	-3748.	-0.10	37145.	1056.	11.18	0.0230	108.	57.	0.00
MILE	25.20	794.03	-3336.	-0.07	46005.	1053.	12.00	0.0230	120.	60.	0.00
MILE	23.10	794.01	-3209.	-0.08	37840.	1083.	11.43	0.0230	120.	64.	0.00

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

TIME 7.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.65	2000.	2.66	752.	273.	2.22	0.0290	183.	4.	0.28
MILE 77.70	817.06	-2143.	2.07	1033.	187.	2.52	0.0400	183.	6.	0.16
MILE 75.60	811.10	2254.	2.05	1100.	171.	2.61	0.0400	183.	5.	0.14
MILE 73.50	807.40	2307.	1.85	1245.	155.	2.89	0.0330	183.	8.	0.12
MILE 71.40	805.77	2348.	1.46	1611.	232.	2.58	0.0400	183.	8.	0.10
MILE 69.30	802.67	2358.	1.86	1265.	271.	2.27	0.0340	183.	4.	0.15
MILE 67.20	797.59	2408.	2.02	1192.	279.	2.28	0.0340	222.	7.	0.17
MILE 65.10	794.39	2464.	1.16	2129.	330.	3.15	0.0320	227.	7.	0.08
MILE 63.00	794.30	2279.	0.64	3534.	344.	4.66	0.0400	227.	13.	0.04
MILE 60.90	794.26	1866.	0.40	4693.	358.	5.78	0.0450	227.	18.	0.02
MILE 58.80	794.25	-362.	-0.06	5834.	357.	6.17	0.0400	-1789.	21.	0.00
MILE 57.00	794.24	-445.	-0.07	6471.	400.	6.07	0.0200	206.	19.	0.00
MILE 55.00	794.24	-528.	-0.08	6568.	462.	6.54	0.0200	211.	21.	0.00
MILE 53.10	794.24	-628.	-0.07	9065.	569.	6.04	0.0200	217.	21.	0.00
MILE 51.00	794.23	-732.	-0.08	9754.	925.	6.15	0.0200	260.	25.	0.00
MILE 48.30	794.20	-300.	-0.02	13224.	1631.	4.91	0.0200	260.	25.	0.00
MILE 46.20	794.19	-493.	-0.03	15710.	1826.	6.76	0.0200	227.	32.	0.00
MILE 44.10	794.17	-465.	-0.02	27817.	1515.	8.07	0.0300	135.	39.	0.00
MILE 43.70	794.17	-447.	-0.03	14388.	1371.	8.22	0.0300	114.	41.	0.00
MILE 42.00	794.15	-339.	-0.02	18907.	1337.	6.16	0.0300	249.	44.	0.00
MILE 39.10	794.14	-722.	-0.04	18192.	1359.	7.87	0.0230	271.	43.	0.00
MILE 37.00	794.15	-1628.	-0.05	32057.	1125.	7.30	0.0280	168.	43.	0.00
MILE 36.00	794.15	-1953.	-0.10	19827.	906.	8.35	0.0280	130.	45.	0.00
MILE 34.60	794.14	-2344.	-0.08	30126.	1232.	9.65	0.0280	130.	46.	0.00
MILE 33.60	794.14	-2709.	-0.04	62292.	2151.	8.13	0.0290	168.	51.	0.00
MILE 31.50	794.14	-3493.	-0.11	30586.	1765.	10.39	0.0250	190.	55.	0.00
MILE 30.10	794.14	-3851.	-0.12	32212.	887.	9.93	0.0200	135.	53.	0.00
MILE 29.00	794.13	-4042.	-0.11	35887.	1059.	10.80	0.0200	152.	54.	0.00
MILE 27.30	794.13	-4368.	-0.12	37232.	1059.	11.19	0.0230	206.	57.	0.00
MILE 25.20	794.14	-4598.	-0.10	46121.	1057.	12.02	0.0230	227.	60.	0.00
MILE 23.10	794.15	-4840.	-0.13	37973.	1089.	11.45	0.0230	227.	64.	0.00

ODATE 3-15-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 8.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.60	2000.	2.70	741.	273.	2.21	0.0290	290.	4.	0.29
MILE 77.70	817.23	2252.	2.09	1078.	192.	2.56	0.0400	290.	7.	0.16
MILE 75.60	811.37	2450.	2.09	1171.	178.	2.71	0.0400	290.	5.	0.14
MILE 73.50	807.71	2546.	1.93	1322.	161.	2.99	0.0330	290.	9.	0.12
MILE 71.40	806.05	2622.	1.52	1722.	237.	2.69	0.0400	290.	8.	0.10
MILE 69.30	802.90	2645.	1.94	1362.	278.	2.35	0.0340	290.	4.	0.15
MILE 67.20	797.87	2688.	2.05	1314.	292.	2.35	0.0340	330.	7.	0.17
MILE 65.10	794.83	2634.	1.15	2298.	346.	3.29	0.0320	335.	8.	0.08

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 63.00	794.65	2640.	0.72	3655.	349.	4.73	0.0400	335.	14.	0.04
MILE 60.90	794.49	2959.	0.62	4768.	361.	5.83	0.0450	335.	18.	0.03
MILE 58.80	794.40	1317.	0.22	5890.	359.	6.18	0.0400	-1689.	21.	0.01
MILE 57.00	794.38	1515.	0.23	6527.	401.	6.10	0.0200	303.	20.	0.01
MILE 55.00	794.35	1674.	0.25	6606.	464.	6.55	0.0200	311.	21.	0.01
MILE 53.10	794.32	1832.	0.20	9113.	571.	6.05	0.0200	319.	21.	0.01
MILE 51.00	794.31	1830.	0.19	9793.	927.	6.16	0.0200	383.	25.	0.01
MILE 48.30	794.32	760.	0.06	13363.	1638.	4.90	0.0200	383.	25.	0.00
MILE 46.20	794.31	-220.	-0.01	15815.	1833.	6.78	0.0200	335.	33.	0.00
MILE 44.10	794.31	-787.	-0.03	27983.	1522.	8.09	0.0300	200.	39.	0.00
MILE 43.70	794.31	-850.	-0.06	14464.	1378.	8.21	0.0300	168.	41.	0.00
MILE 42.00	794.31	-977.	-0.05	19108.	1344.	6.16	0.0300	367.	44.	0.00
MILE 39.10	794.27	-505.	-0.03	18304.	1365.	7.88	0.0230	399.	43.	0.00
MILE 37.00	794.23	685.	0.02	32194.	1129.	7.32	0.0280	248.	43.	0.00
MILE 36.00	794.22	1255.	0.06	19883.	908.	8.36	0.0280	192.	45.	0.00
MILE 34.60	794.19	2082.	0.07	30179.	1234.	9.65	0.0280	192.	46.	0.00
MILE 33.60	794.19	2713.	0.04	62415.	2155.	8.14	0.0290	248.	51.	0.00
MILE 31.50	794.17	3921.	0.13	30609.	1767.	10.39	0.0250	279.	55.	0.01
MILE 30.10	794.14	4721.	0.15	32219.	887.	9.93	0.0200	200.	53.	0.00
MILE 29.00	794.13	5247.	0.15	35881.	1059.	10.80	0.0200	224.	54.	0.00
MILE 27.30	794.10	6031.	0.16	37206.	1058.	11.19	0.0230	303.	57.	0.00
MILE 25.20	794.07	6664.	0.14	46052.	1055.	12.01	0.0230	335.	60.	0.00
MILE 23.10	794.03	7411.	0.20	37859.	1084.	11.43	0.0230	335.	64.	0.01

ODATE 3-15-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 9.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.52	2000.	2.77	721.	271.	2.18	0.0290	296.	4.	0.30
MILE 77.70	817.33	2307.	2.09	1104.	195.	2.59	0.0400	296.	7.	0.15
MILE 75.60	811.58	2580.	2.10	1226.	183.	2.79	0.0400	296.	5.	0.14
MILE 73.50	807.98	2761.	1.98	1391.	167.	3.08	0.0330	296.	9.	0.12
MILE 71.40	806.34	2903.	1.58	1836.	242.	2.80	0.0400	296.	9.	0.10
MILE 69.30	803.15	2973.	2.02	1470.	287.	2.44	0.0340	296.	4.	0.16
MILE 67.20	798.17	3053.	2.10	1454.	306.	2.41	0.0340	320.	7.	0.17
MILE 65.10	794.97	3146.	1.34	2351.	351.	3.33	0.0320	323.	8.	0.09
MILE 63.00	794.74	3320.	0.90	3687.	350.	4.74	0.0400	323.	14.	0.05
MILE 60.90	794.58	3358.	0.70	4800.	362.	5.85	0.0450	323.	18.	0.03
MILE 58.80	794.51	1375.	0.23	5932.	360.	6.20	0.0400	-1700.	21.	0.01
MILE 57.00	794.50	1551.	0.24	6580.	403.	6.12	0.0200	293.	20.	0.01
MILE 55.00	794.48	1879.	0.28	6657.	466.	6.57	0.0200	300.	21.	0.01
MILE 53.10	794.46	2258.	0.25	9198.	574.	6.08	0.0200	308.	21.	0.01
MILE 51.00	794.43	2809.	0.29	9855.	931.	6.17	0.0200	370.	25.	0.02
MILE 48.30	794.35	4600.	0.34	13397.	1640.	4.90	0.0200	370.	25.	0.02
MILE 46.20	794.30	6390.	0.40	15808.	1833.	6.78	0.0200	323.	33.	0.02
MILE 44.10	794.26	7408.	0.27	27924.	1520.	8.09	0.0300	193.	39.	0.01
MILE 43.70	794.25	7566.	0.52	14432.	1375.	8.21	0.0300	162.	41.	0.03

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
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MILE	42.00	794.20	8191.	0.43	18969.	1339.	6.16	0.0300	354.	44.	0.02
MILE	39.10	794.12	9284.	0.51	18177.	1358.	7.87	0.0230	385.	43.	0.02
MILE	37.00	794.10	9291.	0.29	31975.	1123.	7.29	0.0280	239.	43.	0.01
MILE	36.00	794.09	9339.	0.47	19777.	904.	8.35	0.0280	185.	45.	0.02
MILE	34.60	794.07	9435.	0.31	30059.	1229.	9.64	0.0280	185.	46.	0.01
MILE	33.60	794.07	9423.	0.15	62106.	2146.	8.12	0.0290	239.	51.	0.00
MILE	31.50	794.06	9307.	0.31	30512.	1760.	10.38	0.0250	270.	55.	0.01
MILE	30.10	794.05	9497.	0.30	32123.	885.	9.92	0.0200	193.	53.	0.01
MILE	29.00	794.05	9607.	0.27	35802.	1056.	10.79	0.0200	216.	54.	0.01
MILE	27.30	794.05	9676.	0.26	37148.	1056.	11.18	0.0230	293.	57.	0.01
MILE	25.20	794.05	9889.	0.21	46023.	1054.	12.01	0.0230	323.	60.	0.01
MILE	23.10	794.05	10212.	0.27	37878.	1085.	11.44	0.0230	323.	64.	0.01

ODATE 3-15-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 10.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	822.48	2000.	2.81	711.	270.	2.17	0.0290	301.	4.	0.31
MILE	77.70	817.34	2305.	2.08	1106.	195.	2.59	0.0400	301.	7.	0.15
MILE	75.60	811.64	2599.	2.09	1243.	185.	2.81	0.0400	301.	5.	0.14
MILE	73.50	808.12	2850.	2.00	1428.	170.	3.12	0.0330	301.	9.	0.12
MILE	71.40	806.52	3069.	1.61	1907.	246.	2.86	0.0400	301.	9.	0.10
MILE	69.30	803.35	3240.	2.08	1557.	293.	2.51	0.0340	301.	5.	0.16
MILE	67.20	798.44	3386.	2.14	1582.	319.	2.47	0.0340	310.	8.	0.17
MILE	65.10	795.13	3470.	1.44	2413.	358.	3.38	0.0320	312.	8.	0.10
MILE	63.00	794.80	3801.	1.02	3709.	351.	4.75	0.0400	312.	14.	0.06
MILE	60.90	794.48	4471.	0.94	4764.	361.	5.83	0.0450	312.	18.	0.05
MILE	58.80	794.26	3358.	0.58	5840.	357.	6.17	0.0400	-1711.	21.	0.03
MILE	57.00	794.24	3997.	0.62	6468.	399.	6.07	0.0200	282.	19.	0.03
MILE	55.00	794.21	4619.	0.70	6554.	462.	6.53	0.0200	289.	21.	0.03
MILE	53.10	794.18	5226.	0.58	9030.	568.	6.03	0.0200	297.	21.	0.03
MILE	51.00	794.16	6048.	0.62	9717.	923.	6.14	0.0200	356.	25.	0.03
MILE	48.30	794.14	7065.	0.54	13164.	1628.	4.91	0.0200	356.	25.	0.03
MILE	46.20	794.14	7496.	0.48	15666.	1823.	6.76	0.0200	312.	32.	0.03
MILE	44.10	794.15	8408.	0.30	27783.	1514.	8.07	0.0300	185.	39.	0.01
MILE	43.70	794.14	8555.	0.60	14373.	1370.	8.22	0.0300	156.	41.	0.03
MILE	42.00	794.14	9068.	0.48	18896.	1336.	6.16	0.0300	341.	44.	0.02
MILE	39.10	794.14	9404.	0.52	18192.	1359.	7.87	0.0230	371.	43.	0.02
MILE	37.00	794.15	9698.	0.30	32057.	1125.	7.30	0.0280	230.	43.	0.01
MILE	36.00	794.15	9863.	0.50	19826.	906.	8.35	0.0280	178.	45.	0.02
MILE	34.60	794.15	10116.	0.34	30133.	1232.	9.65	0.0280	178.	46.	0.01
MILE	33.60	794.15	10279.	0.16	62319.	2152.	8.14	0.0290	230.	51.	0.01
MILE	31.50	794.15	10509.	0.34	30593.	1766.	10.39	0.0250	260.	55.	0.01
MILE	30.10	794.15	10561.	0.33	32225.	888.	9.93	0.0200	185.	53.	0.01
MILE	29.00	794.15	10638.	0.30	35903.	1059.	10.80	0.0200	208.	54.	0.01
MILE	27.30	794.14	10723.	0.29	37246.	1059.	11.19	0.0230	282.	57.	0.01
MILE	25.20	794.14	10652.	0.23	46123.	1057.	12.02	0.0230	312.	60.	0.01

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 124 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 23.10 794.14 10655. 0.28 37963. 1088. 11.45 0.0230 312. 64. 0.01

ODATE 3-15-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 11.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.49	2000.	2.80	714.	270.	2.17	0.0290	296.	4.	0.30
MILE 77.70	817.33	2293.	2.08	1103.	195.	2.58	0.0400	296.	7.	0.15
MILE 75.60	811.64	2589.	2.08	1244.	185.	2.81	0.0400	296.	5.	0.14
MILE 73.50	808.17	2876.	1.99	1442.	171.	3.14	0.0330	296.	9.	0.12
MILE 71.40	806.61	3145.	1.62	1942.	248.	2.89	0.0400	296.	9.	0.10
MILE 69.30	803.46	3384.	2.11	1608.	297.	2.55	0.0340	296.	5.	0.16
MILE 67.20	798.59	3594.	2.17	1658.	326.	2.50	0.0340	301.	8.	0.17
MILE 65.10	794.97	3831.	1.63	2353.	351.	3.33	0.0320	301.	8.	0.11
MILE 63.00	794.58	4314.	1.19	3630.	348.	4.71	0.0400	301.	14.	0.06
MILE 60.90	794.22	4778.	1.02	4678.	358.	5.77	0.0450	301.	18.	0.05
MILE 58.80	794.05	3094.	0.54	5759.	354.	6.14	0.0400	-1720.	21.	0.02
MILE 57.00	794.05	3386.	0.53	6386.	397.	6.03	0.0200	273.	19.	0.02
MILE 55.00	794.05	3769.	0.58	6494.	459.	6.51	0.0200	280.	21.	0.03
MILE 53.10	794.06	4121.	0.46	8955.	566.	6.01	0.0200	287.	21.	0.02
MILE 51.00	794.08	4444.	0.46	9676.	920.	6.12	0.0200	345.	25.	0.02
MILE 48.30	794.10	4807.	0.37	13111.	1626.	4.91	0.0200	345.	25.	0.02
MILE 46.20	794.10	5628.	0.36	15629.	1820.	6.75	0.0200	301.	32.	0.02
MILE 44.10	794.11	6033.	0.22	27742.	1512.	8.06	0.0300	179.	39.	0.01
MILE 43.70	794.11	6106.	0.43	14356.	1368.	8.22	0.0300	151.	41.	0.02
MILE 42.00	794.11	6425.	0.34	18866.	1335.	6.16	0.0300	330.	44.	0.02
MILE 39.10	794.09	7459.	0.41	18158.	1357.	7.86	0.0230	359.	43.	0.02
MILE 37.00	794.08	8425.	0.26	31942.	1123.	7.28	0.0280	223.	43.	0.01
MILE 36.00	794.07	8743.	0.44	19768.	903.	8.35	0.0280	172.	45.	0.02
MILE 34.60	794.08	9074.	0.30	30063.	1229.	9.64	0.0280	172.	46.	0.01
MILE 33.60	794.08	9386.	0.15	62129.	2147.	8.12	0.0290	223.	51.	0.00
MILE 31.50	794.07	10205.	0.33	30522.	1761.	10.38	0.0250	251.	55.	0.01
MILE 30.10	794.08	10595.	0.33	32150.	885.	9.92	0.0200	179.	53.	0.01
MILE 29.00	794.08	10884.	0.30	35836.	1057.	10.79	0.0200	201.	54.	0.01
MILE 27.30	794.09	11422.	0.31	37188.	1057.	11.19	0.0230	273.	57.	0.01
MILE 25.20	794.08	12178.	0.26	46063.	1055.	12.01	0.0230	301.	60.	0.01
MILE 23.10	794.08	12660.	0.33	37906.	1086.	11.44	0.0230	301.	64.	0.01

ODATE 3-15-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 12.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80 822.51 2000. 2.78 719. 271. 2.18 0.0290 290. 4. 0.30

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 125 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 77.70	817.32	2288.	2.08	1100.	194.	2.58	0.0400	290.	7.	0.15
MILE 75.60	811.63	2579.	2.08	1241.	185.	2.81	0.0400	290.	5.	0.14
MILE 73.50	808.18	2872.	1.99	1445.	171.	3.14	0.0330	290.	9.	0.12
MILE 71.40	806.63	3158.	1.62	1952.	248.	2.90	0.0400	290.	9.	0.10
MILE 69.30	803.50	3433.	2.11	1626.	298.	2.56	0.0340	290.	5.	0.16
MILE 67.20	798.66	3698.	2.18	1694.	329.	2.51	0.0340	291.	8.	0.17
MILE 65.10	794.93	3944.	1.69	2336.	349.	3.32	0.0320	291.	8.	0.12
MILE 63.00	794.56	4170.	1.15	3625.	348.	4.71	0.0400	291.	14.	0.06
MILE 60.90	794.26	4348.	0.93	4692.	358.	5.78	0.0450	291.	18.	0.05
MILE 58.80	794.11	2590.	0.45	5784.	355.	6.15	0.0400	-1729.	21.	0.02
MILE 57.00	794.10	2812.	0.44	6410.	398.	6.04	0.0200	264.	19.	0.02
MILE 55.00	794.09	3047.	0.47	6510.	460.	6.52	0.0200	271.	21.	0.02
MILE 53.10	794.08	3307.	0.37	8965.	566.	6.01	0.0200	278.	21.	0.02
MILE 51.00	794.06	3738.	0.39	9665.	919.	6.12	0.0200	333.	25.	0.02
MILE 48.30	794.03	4767.	0.37	13032.	1622.	4.91	0.0200	333.	25.	0.02
MILE 46.20	794.03	5233.	0.34	15564.	1816.	6.74	0.0200	291.	32.	0.02
MILE 44.10	794.02	5852.	0.21	27637.	1508.	8.04	0.0300	173.	39.	0.01
MILE 43.70	794.02	5964.	0.42	14309.	1364.	8.23	0.0300	146.	41.	0.02
MILE 42.00	794.01	6434.	0.34	18743.	1331.	6.16	0.0300	319.	44.	0.02
MILE 39.10	794.01	6954.	0.38	18090.	1353.	7.86	0.0230	347.	43.	0.02
MILE 37.00	794.03	7026.	0.22	31865.	1121.	7.27	0.0280	215.	43.	0.01
MILE 36.00	794.03	7055.	0.36	19734.	902.	8.34	0.0280	167.	45.	0.01
MILE 34.60	794.04	7122.	0.24	30021.	1228.	9.63	0.0280	167.	46.	0.01
MILE 33.60	794.04	7254.	0.12	62018.	2144.	8.11	0.0290	215.	51.	0.00
MILE 31.50	794.04	7714.	0.25	30496.	1759.	10.38	0.0250	243.	55.	0.01
MILE 30.10	794.05	7812.	0.24	32118.	884.	9.92	0.0200	173.	53.	0.01
MILE 29.00	794.05	7922.	0.22	35804.	1056.	10.79	0.0200	194.	54.	0.01
MILE 27.30	794.05	8149.	0.22	37156.	1056.	11.18	0.0230	264.	57.	0.01
MILE 25.20	794.06	8453.	0.18	46038.	1054.	12.01	0.0230	291.	60.	0.00
MILE 23.10	794.08	8640.	0.23	37906.	1086.	11.44	0.0230	291.	64.	0.01

ODATE 3-15-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 13.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.52	2000.	2.77	721.	271.	2.18	0.0290	285.	4.	0.30
MILE 77.70	817.31	2284.	2.08	1099.	194.	2.58	0.0400	285.	7.	0.15
MILE 75.60	811.62	2571.	2.08	1238.	184.	2.80	0.0400	285.	5.	0.14
MILE 73.50	808.17	2861.	1.98	1443.	171.	3.14	0.0330	285.	9.	0.12
MILE 71.40	806.63	3152.	1.62	1951.	248.	2.90	0.0400	285.	9.	0.10
MILE 69.30	803.51	3444.	2.11	1631.	298.	2.57	0.0340	285.	5.	0.16
MILE 67.20	798.69	3728.	2.18	1709.	331.	2.52	0.0340	286.	8.	0.17
MILE 65.10	794.98	3982.	1.69	2353.	351.	3.33	0.0320	286.	8.	0.12
MILE 63.00	794.58	4288.	1.18	3630.	348.	4.71	0.0400	286.	14.	0.06
MILE 60.90	794.22	4698.	1.00	4679.	358.	5.77	0.0450	286.	18.	0.05
MILE 58.80	794.04	3095.	0.54	5758.	354.	6.14	0.0400	-1735.	21.	0.02
MILE 57.00	794.04	3382.	0.53	6382.	397.	6.03	0.0200	259.	19.	0.02

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE	55.00	794.03	3685.	0.57	6487.	459.	6.51	0.0200	265.	21.	0.03
MILE	53.10	794.03	3972.	0.44	8934.	565.	6.00	0.0200	272.	21.	0.02
MILE	51.00	794.03	4247.	0.44	9650.	918.	6.12	0.0200	327.	25.	0.02
MILE	48.30	794.03	4239.	0.33	13041.	1622.	4.91	0.0200	327.	25.	0.02
MILE	46.20	794.04	4220.	0.27	15573.	1816.	6.74	0.0200	286.	32.	0.02
MILE	44.10	794.04	4274.	0.15	27660.	1509.	8.05	0.0300	170.	39.	0.01
MILE	43.70	794.04	4273.	0.30	14321.	1365.	8.23	0.0300	143.	41.	0.02
MILE	42.00	794.06	4144.	0.22	18796.	1333.	6.16	0.0300	313.	44.	0.01
MILE	39.10	794.10	3302.	0.18	18161.	1357.	7.87	0.0230	340.	43.	0.01
MILE	37.00	794.13	2706.	0.08	32021.	1124.	7.29	0.0280	211.	43.	0.00
MILE	36.00	794.14	2509.	0.13	19820.	905.	8.35	0.0280	163.	45.	0.00
MILE	34.60	794.16	2200.	0.07	30143.	1233.	9.65	0.0280	163.	46.	0.00
MILE	33.60	794.17	1750.	0.03	62363.	2153.	8.14	0.0290	211.	51.	0.00
MILE	31.50	794.19	550.	0.02	30625.	1768.	10.40	0.0250	238.	55.	0.00
MILE	30.10	794.20	214.	0.01	32276.	889.	9.94	0.0200	170.	53.	0.00
MILE	29.00	794.21	-14.	0.00	35963.	1062.	10.81	0.0200	191.	55.	0.00
MILE	27.30	794.23	-577.	-0.02	37328.	1062.	11.21	0.0230	259.	57.	0.00
MILE	25.20	794.25	-1188.	-0.03	46249.	1061.	12.03	0.0230	286.	60.	0.00
MILE	23.10	794.27	-1479.	-0.04	38087.	1093.	11.47	0.0230	286.	64.	0.00

ODATE 3-15-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 14.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	822.53	2000.	2.77	722.	271.	2.18	0.0290	279.	4.	0.30
MILE	77.70	817.30	2280.	2.08	1097.	194.	2.58	0.0400	279.	7.	0.15
MILE	75.60	811.61	2563.	2.08	1235.	184.	2.80	0.0400	279.	5.	0.14
MILE	73.50	808.16	2851.	1.98	1439.	171.	3.14	0.0330	279.	9.	0.12
MILE	71.40	806.62	3140.	1.61	1947.	248.	2.90	0.0400	279.	9.	0.10
MILE	69.30	803.50	3429.	2.11	1627.	298.	2.56	0.0340	279.	5.	0.16
MILE	67.20	798.68	3715.	2.18	1705.	330.	2.52	0.0340	280.	8.	0.17
MILE	65.10	794.94	4011.	1.71	2340.	350.	3.32	0.0320	280.	8.	0.12
MILE	63.00	794.55	4296.	1.19	3621.	348.	4.71	0.0400	280.	14.	0.06
MILE	60.90	794.23	4493.	0.96	4683.	358.	5.77	0.0450	280.	18.	0.05
MILE	58.80	794.09	2623.	0.45	5776.	355.	6.15	0.0400	-1740.	21.	0.02
MILE	57.00	794.09	2758.	0.43	6406.	397.	6.04	0.0200	254.	19.	0.02
MILE	55.00	794.10	2878.	0.44	6513.	460.	6.52	0.0200	260.	21.	0.02
MILE	53.10	794.12	2835.	0.32	8992.	567.	6.02	0.0200	267.	21.	0.01
MILE	51.00	794.16	2409.	0.25	9717.	923.	6.14	0.0200	320.	25.	0.01
MILE	48.30	794.21	912.	0.07	13246.	1632.	4.91	0.0200	320.	25.	0.00
MILE	46.20	794.24	-241.	-0.02	15754.	1829.	6.77	0.0200	280.	32.	0.00
MILE	44.10	794.27	-1599.	-0.06	27929.	1520.	8.09	0.0300	167.	39.	0.00
MILE	43.70	794.27	-1782.	-0.12	14442.	1376.	8.21	0.0300	140.	41.	-0.01
MILE	42.00	794.29	-2299.	-0.12	19087.	1343.	6.16	0.0300	307.	44.	-0.01
MILE	39.10	794.29	-2061.	-0.11	18320.	1366.	7.88	0.0230	334.	43.	-0.01
MILE	37.00	794.27	-1437.	-0.04	32257.	1130.	7.33	0.0280	207.	43.	0.00
MILE	36.00	794.27	-1057.	-0.05	19924.	909.	8.36	0.0280	160.	45.	0.00

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 34.60	794.26	-457.	-0.02	30247.	1237.	9.66	0.0280	160.	46.	0.00
MILE 33.60	794.26	-101.	0.00	62616.	2160.	8.16	0.0290	207.	51.	0.00
MILE 31.50	794.25	304.	0.01	30687.	1772.	10.41	0.0250	234.	55.	0.00
MILE 30.10	794.24	767.	0.02	32323.	891.	9.95	0.0200	167.	53.	0.00
MILE 29.00	794.24	1158.	0.03	35991.	1063.	10.82	0.0200	187.	55.	0.00
MILE 27.30	794.23	1868.	0.05	37331.	1062.	11.21	0.0230	254.	57.	0.00
MILE 25.20	794.22	2591.	0.06	46208.	1060.	12.03	0.0230	280.	60.	0.00
MILE 23.10	794.19	3304.	0.09	38011.	1090.	11.46	0.0230	280.	64.	0.00

ODATE 3-15-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 15.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.53	2000.	2.76	723.	271.	2.18	0.0290	278.	4.	0.30
MILE 77.70	817.30	2278.	2.08	1096.	194.	2.58	0.0400	278.	7.	0.15
MILE 75.60	811.60	2557.	2.08	1232.	184.	2.80	0.0400	278.	5.	0.14
MILE 73.50	808.15	2840.	1.98	1436.	170.	3.13	0.0330	278.	9.	0.12
MILE 71.40	806.60	3124.	1.61	1941.	247.	2.89	0.0400	278.	9.	0.10
MILE 69.30	803.49	3411.	2.10	1621.	298.	2.56	0.0340	278.	5.	0.16
MILE 67.20	798.67	3705.	2.18	1703.	330.	2.52	0.0340	279.	8.	0.17
MILE 65.10	795.02	3968.	1.67	2371.	353.	3.35	0.0320	279.	8.	0.11
MILE 63.00	794.73	3920.	1.06	3684.	350.	4.74	0.0400	279.	14.	0.06
MILE 60.90	794.56	3589.	0.75	4792.	362.	5.85	0.0450	279.	18.	0.04
MILE 58.80	794.51	1225.	0.21	5931.	360.	6.20	0.0400	-1741.	21.	0.01
MILE 57.00	794.51	978.	0.15	6585.	403.	6.13	0.0200	252.	20.	0.01
MILE 55.00	794.51	727.	0.11	6667.	466.	6.57	0.0200	259.	21.	0.01
MILE 53.10	794.49	626.	0.07	9214.	574.	6.08	0.0200	266.	21.	0.00
MILE 51.00	794.45	761.	0.08	9865.	932.	6.17	0.0200	319.	25.	0.00
MILE 48.30	794.38	1744.	0.13	13438.	1642.	4.90	0.0200	319.	25.	0.01
MILE 46.20	794.36	1675.	0.11	15861.	1836.	6.79	0.0200	279.	33.	0.01
MILE 44.10	794.32	2171.	0.08	27999.	1523.	8.10	0.0300	166.	39.	0.00
MILE 43.70	794.32	2270.	0.16	14467.	1378.	8.21	0.0300	140.	41.	0.01
MILE 42.00	794.28	2731.	0.14	19068.	1343.	6.16	0.0300	306.	44.	0.01
MILE 39.10	794.24	2833.	0.16	18279.	1364.	7.88	0.0230	332.	43.	0.01
MILE 37.00	794.25	2143.	0.07	32223.	1129.	7.32	0.0280	206.	43.	0.00
MILE 36.00	794.25	1934.	0.10	19908.	909.	8.36	0.0280	159.	45.	0.00
MILE 34.60	794.24	1751.	0.06	30222.	1236.	9.66	0.0280	159.	46.	0.00
MILE 33.60	794.23	1601.	0.03	62546.	2158.	8.15	0.0290	206.	51.	0.00
MILE 31.50	794.24	1378.	0.04	30670.	1771.	10.40	0.0250	233.	55.	0.00
MILE 30.10	794.23	1457.	0.05	32314.	890.	9.95	0.0200	166.	53.	0.00
MILE 29.00	794.23	1456.	0.04	35986.	1062.	10.82	0.0200	186.	55.	0.00
MILE 27.30	794.23	1253.	0.03	37326.	1062.	11.21	0.0230	252.	57.	0.00
MILE 25.20	794.24	1012.	0.02	46230.	1061.	12.03	0.0230	279.	60.	0.00
MILE 23.10	794.26	937.	0.02	38077.	1093.	11.47	0.0230	279.	64.	0.00

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

0DATE 3-15-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 16.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.53	2000.	2.76	724.	271.	2.19	0.0290	278.	4.	0.30
MILE 77.70	817.30	2277.	2.08	1096.	194.	2.58	0.0400	278.	7.	0.15
MILE 75.60	811.60	2555.	2.08	1231.	184.	2.79	0.0400	278.	5.	0.14
MILE 73.50	808.14	2836.	1.98	1434.	170.	3.13	0.0330	278.	9.	0.12
MILE 71.40	806.60	3121.	1.61	1938.	247.	2.89	0.0400	278.	9.	0.10
MILE 69.30	803.49	3414.	2.11	1622.	298.	2.56	0.0340	278.	5.	0.16
MILE 67.20	798.70	3700.	2.16	1716.	331.	2.52	0.0340	278.	8.	0.17
MILE 65.10	795.34	3856.	1.55	2495.	367.	3.45	0.0320	278.	8.	0.10
MILE 63.00	795.00	4053.	1.07	3778.	354.	4.79	0.0400	278.	14.	0.06
MILE 60.90	794.69	4552.	0.94	4837.	363.	5.88	0.0450	278.	18.	0.05
MILE 58.80	794.51	3116.	0.53	5932.	360.	6.20	0.0400	-1742.	21.	0.02
MILE 57.00	794.48	3541.	0.54	6573.	403.	6.12	0.0200	251.	20.	0.02
MILE 55.00	794.45	4018.	0.60	6644.	465.	6.57	0.0200	258.	21.	0.03
MILE 53.10	794.42	4466.	0.49	9173.	573.	6.07	0.0200	265.	21.	0.02
MILE 51.00	794.40	4801.	0.49	9841.	930.	6.17	0.0200	318.	25.	0.03
MILE 48.30	794.40	4164.	0.31	13464.	1643.	4.90	0.0200	318.	25.	0.02
MILE 46.20	794.39	4078.	0.26	15886.	1838.	6.80	0.0200	278.	33.	0.02
MILE 44.10	794.39	3722.	0.13	28082.	1527.	8.11	0.0300	165.	39.	0.01
MILE 43.70	794.40	3651.	0.25	14509.	1382.	8.21	0.0300	139.	41.	0.01
MILE 42.00	794.40	3235.	0.17	19228.	1349.	6.16	0.0300	304.	44.	0.01
MILE 39.10	794.41	2703.	0.15	18420.	1372.	7.89	0.0230	331.	43.	0.01
MILE 37.00	794.39	3198.	0.10	32451.	1135.	7.35	0.0280	205.	43.	0.00
MILE 36.00	794.39	3355.	0.17	20024.	913.	8.38	0.0280	159.	45.	0.01
MILE 34.60	794.39	3430.	0.11	30378.	1243.	9.68	0.0280	159.	46.	0.00
MILE 33.60	794.39	3377.	0.05	62972.	2170.	8.18	0.0290	205.	51.	0.00
MILE 31.50	794.38	3112.	0.10	30803.	1780.	10.42	0.0250	232.	56.	0.00
MILE 30.10	794.38	2942.	0.09	32465.	895.	9.98	0.0200	165.	54.	0.00
MILE 29.00	794.38	2914.	0.08	36131.	1068.	10.84	0.0200	185.	55.	0.00
MILE 27.30	794.37	2926.	0.08	37471.	1067.	11.23	0.0230	251.	57.	0.00
MILE 25.20	794.35	2989.	0.06	46359.	1065.	12.05	0.0230	278.	60.	0.00
MILE 23.10	794.33	3102.	0.08	38144.	1095.	11.48	0.0230	278.	64.	0.00

0DATE 3-15-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 17.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.54	2000.	2.76	725.	271.	2.19	0.0290	284.	4.	0.30
MILE 77.70	817.30	2281.	2.08	1097.	194.	2.58	0.0400	284.	7.	0.15
MILE 75.60	811.61	2563.	2.08	1233.	184.	2.80	0.0400	284.	5.	0.14
MILE 73.50	808.15	2845.	1.98	1436.	170.	3.13	0.0330	284.	9.	0.12
MILE 71.40	806.61	3128.	1.61	1941.	247.	2.89	0.0400	284.	9.	0.10

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 129 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE	69.30	803.49	3404.	2.10	1621.	298.	2.56	0.0340	284.	5.	0.16
MILE	67.20	798.69	3673.	2.15	1709.	331.	2.52	0.0340	287.	8.	0.17
MILE	65.10	795.26	3995.	1.62	2463.	364.	3.43	0.0320	287.	8.	0.11
MILE	63.00	794.89	4403.	1.18	3738.	352.	4.77	0.0400	287.	14.	0.06
MILE	60.90	794.58	4634.	0.97	4799.	362.	5.85	0.0450	287.	18.	0.05
MILE	58.80	794.44	2764.	0.47	5907.	359.	6.19	0.0400	-1733.	21.	0.02
MILE	57.00	794.44	2956.	0.45	6556.	402.	6.11	0.0200	260.	20.	0.02
MILE	55.00	794.45	3173.	0.48	6645.	465.	6.57	0.0200	267.	21.	0.02
MILE	53.10	794.46	3262.	0.35	9201.	574.	6.08	0.0200	273.	21.	0.02
MILE	51.00	794.48	3233.	0.33	9883.	933.	6.18	0.0200	328.	25.	0.02
MILE	48.30	794.48	3689.	0.27	13550.	1647.	4.90	0.0200	328.	26.	0.02
MILE	46.20	794.47	4093.	0.26	15962.	1843.	6.81	0.0200	287.	33.	0.02
MILE	44.10	794.47	4288.	0.15	28170.	1531.	8.12	0.0300	171.	39.	0.01
MILE	43.70	794.46	4342.	0.30	14546.	1385.	8.20	0.0300	144.	41.	0.02
MILE	42.00	794.45	4684.	0.24	19285.	1351.	6.16	0.0300	314.	44.	0.01
MILE	39.10	794.42	5527.	0.30	18424.	1372.	7.90	0.0230	342.	43.	0.01
MILE	37.00	794.41	5595.	0.17	32481.	1135.	7.36	0.0280	212.	43.	0.01
MILE	36.00	794.41	5606.	0.28	20036.	914.	8.38	0.0280	164.	45.	0.01
MILE	34.60	794.40	5630.	0.19	30382.	1243.	9.68	0.0280	164.	46.	0.01
MILE	33.60	794.39	5700.	0.09	62976.	2170.	8.18	0.0290	212.	51.	0.00
MILE	31.50	794.39	5982.	0.19	30809.	1780.	10.43	0.0250	239.	56.	0.01
MILE	30.10	794.39	5995.	0.18	32476.	895.	9.98	0.0200	171.	54.	0.01
MILE	29.00	794.39	6085.	0.17	36140.	1068.	10.84	0.0200	191.	55.	0.01
MILE	27.30	794.38	6368.	0.17	37474.	1068.	11.23	0.0230	260.	57.	0.01
MILE	25.20	794.37	6880.	0.15	46381.	1065.	12.05	0.0230	287.	60.	0.00
MILE	23.10	794.38	7006.	0.18	38191.	1097.	11.49	0.0230	287.	64.	0.01

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TIME 18.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	822.53	2000.	2.77	722.	271.	2.18	0.0290	291.	4.	0.30
MILE	77.70	817.32	2291.	2.08	1101.	194.	2.58	0.0400	291.	7.	0.15
MILE	75.60	811.62	2578.	2.08	1238.	184.	2.80	0.0400	291.	5.	0.14
MILE	73.50	808.16	2856.	1.98	1440.	171.	3.14	0.0330	291.	9.	0.12
MILE	71.40	806.61	3131.	1.61	1944.	248.	2.90	0.0400	291.	9.	0.10
MILE	69.30	803.49	3403.	2.10	1619.	298.	2.56	0.0340	291.	5.	0.16
MILE	67.20	798.69	3689.	2.16	1712.	331.	2.52	0.0340	296.	8.	0.17
MILE	65.10	795.28	3956.	1.60	2474.	365.	3.43	0.0320	296.	8.	0.11
MILE	63.00	794.97	4106.	1.09	3765.	354.	4.78	0.0400	296.	14.	0.06
MILE	60.90	794.69	4345.	0.90	4836.	363.	5.88	0.0450	296.	18.	0.04
MILE	58.80	794.54	2708.	0.46	5942.	360.	6.20	0.0400	-1725.	21.	0.02
MILE	57.00	794.52	2939.	0.45	6591.	403.	6.13	0.0200	268.	20.	0.02
MILE	55.00	794.50	3150.	0.47	6666.	466.	6.57	0.0200	275.	21.	0.02
MILE	53.10	794.48	3465.	0.38	9211.	574.	6.08	0.0200	282.	21.	0.02
MILE	51.00	794.45	4019.	0.41	9868.	932.	6.18	0.0200	339.	25.	0.02
MILE	48.30	794.43	4681.	0.35	13498.	1645.	4.90	0.0200	339.	26.	0.02

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MILE	46.20	794.43	4665.	0.29	15926.	1841.	6.81	0.0200	296.	33.	0.02
MILE	44.10	794.43	5231.	0.19	28124.	1529.	8.11	0.0300	176.	39.	0.01
MILE	43.70	794.43	5337.	0.37	14526.	1383.	8.20	0.0300	148.	41.	0.02
MILE	42.00	794.41	5808.	0.30	19240.	1349.	6.16	0.0300	324.	44.	0.01
MILE	39.10	794.39	6645.	0.36	18399.	1371.	7.89	0.0230	353.	43.	0.02
MILE	37.00	794.37	7741.	0.24	32414.	1134.	7.35	0.0280	219.	43.	0.01
MILE	36.00	794.36	8143.	0.41	19997.	912.	8.37	0.0280	169.	45.	0.02
MILE	34.60	794.34	8668.	0.29	30326.	1240.	9.67	0.0280	169.	46.	0.01
MILE	33.60	794.34	9248.	0.15	62817.	2166.	8.17	0.0290	219.	51.	0.00
MILE	31.50	794.32	10816.	0.35	30748.	1776.	10.42	0.0250	247.	56.	0.01
MILE	30.10	794.31	11496.	0.35	32390.	893.	9.96	0.0200	176.	54.	0.01
MILE	29.00	794.30	11935.	0.33	36052.	1065.	10.83	0.0200	197.	55.	0.01
MILE	27.30	794.28	12653.	0.34	37383.	1064.	11.22	0.0230	268.	57.	0.01
MILE	25.20	794.26	13347.	0.29	46260.	1062.	12.04	0.0230	296.	60.	0.01
MILE	23.10	794.25	13894.	0.36	38068.	1092.	11.47	0.0230	296.	64.	0.01

ODATE 3-15-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 19.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	822.53	2000.	2.77	722.	271.	2.18	0.0290	316.	4.	0.30
MILE	77.70	817.34	2305.	2.08	1107.	195.	2.59	0.0400	316.	7.	0.15
MILE	75.60	811.66	2600.	2.09	1247.	185.	2.82	0.0400	316.	5.	0.14
MILE	73.50	808.19	2882.	1.99	1448.	171.	3.15	0.0330	316.	9.	0.12
MILE	71.40	806.64	3164.	1.62	1954.	248.	2.91	0.0400	316.	9.	0.10
MILE	69.30	803.51	3443.	2.11	1631.	298.	2.57	0.0340	316.	5.	0.16
MILE	67.20	798.72	3722.	2.15	1728.	332.	2.53	0.0340	321.	8.	0.17
MILE	65.10	795.32	3998.	1.61	2490.	367.	3.45	0.0320	322.	8.	0.11
MILE	63.00	794.96	4363.	1.16	3763.	353.	4.78	0.0400	322.	14.	0.06
MILE	60.90	794.63	4743.	0.98	4818.	363.	5.86	0.0450	322.	18.	0.05
MILE	58.80	794.47	3021.	0.51	5919.	360.	6.19	0.0400	-1701.	21.	0.02
MILE	57.00	794.46	3320.	0.51	6565.	403.	6.12	0.0200	291.	20.	0.02
MILE	55.00	794.45	3753.	0.56	6644.	465.	6.56	0.0200	299.	21.	0.03
MILE	53.10	794.43	4216.	0.46	9180.	573.	6.07	0.0200	306.	21.	0.02
MILE	51.00	794.41	4794.	0.49	9846.	930.	6.17	0.0200	368.	25.	0.03
MILE	48.30	794.37	5965.	0.44	13420.	1641.	4.90	0.0200	368.	25.	0.03
MILE	46.20	794.33	7592.	0.48	15836.	1835.	6.79	0.0200	322.	33.	0.03
MILE	44.10	794.32	8584.	0.31	27990.	1523.	8.09	0.0300	191.	39.	0.01
MILE	43.70	794.31	8733.	0.60	14463.	1378.	8.21	0.0300	161.	41.	0.03
MILE	42.00	794.28	9261.	0.49	19077.	1343.	6.16	0.0300	352.	44.	0.02
MILE	39.10	794.24	10043.	0.55	18281.	1364.	7.88	0.0230	383.	43.	0.03
MILE	37.00	794.24	10183.	0.32	32211.	1129.	7.32	0.0280	237.	43.	0.01
MILE	36.00	794.24	10259.	0.52	19903.	909.	8.36	0.0280	184.	45.	0.02
MILE	34.60	794.25	10342.	0.34	30233.	1237.	9.66	0.0280	184.	46.	0.01
MILE	33.60	794.25	10325.	0.16	62595.	2160.	8.16	0.0290	237.	51.	0.01
MILE	31.50	794.26	10207.	0.33	30688.	1772.	10.41	0.0250	268.	55.	0.01
MILE	30.10	794.26	10291.	0.32	32339.	891.	9.95	0.0200	191.	53.	0.01

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MILE	29.00	794.26	10322.	0.29	36017.	1063.	10.82	0.0200	214.	55.	0.01
MILE	27.30	794.28	10253.	0.27	37374.	1064.	11.21	0.0230	291.	57.	0.01
MILE	25.20	794.29	10303.	0.22	46292.	1063.	12.04	0.0230	322.	60.	0.01
MILE	23.10	794.30	10522.	0.28	38115.	1094.	11.47	0.0230	322.	64.	0.01

ODATE 3-15-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 20.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	822.53	2000.	2.76	724.	271.	2.18	0.0290	342.	4.	0.30
MILE	77.70	817.38	2327.	2.08	1117.	196.	2.60	0.0400	342.	7.	0.15
MILE	75.60	811.72	2643.	2.09	1263.	187.	2.84	0.0400	342.	5.	0.14
MILE	73.50	808.26	2937.	2.01	1464.	172.	3.16	0.0330	342.	9.	0.12
MILE	71.40	806.70	3228.	1.63	1977.	249.	2.93	0.0400	342.	9.	0.10
MILE	69.30	803.56	3508.	2.12	1652.	300.	2.58	0.0340	342.	5.	0.16
MILE	67.20	798.77	3793.	2.17	1751.	335.	2.54	0.0340	346.	8.	0.17
MILE	65.10	795.31	4089.	1.64	2487.	366.	3.44	0.0320	347.	8.	0.11
MILE	63.00	794.92	4494.	1.20	3748.	353.	4.77	0.0400	347.	14.	0.06
MILE	60.90	794.53	5026.	1.05	4784.	362.	5.84	0.0450	347.	18.	0.05
MILE	58.80	794.30	3700.	0.63	5855.	358.	6.17	0.0400	-1678.	21.	0.03
MILE	57.00	794.28	4239.	0.65	6488.	400.	6.08	0.0200	314.	19.	0.03
MILE	55.00	794.26	4775.	0.73	6575.	463.	6.54	0.0200	322.	21.	0.03
MILE	53.10	794.25	5229.	0.58	9073.	570.	6.04	0.0200	330.	21.	0.03
MILE	51.00	794.25	5715.	0.59	9764.	925.	6.15	0.0200	397.	25.	0.03
MILE	48.30	794.26	6167.	0.46	13293.	1635.	4.91	0.0200	397.	25.	0.03
MILE	46.20	794.27	6221.	0.39	15779.	1831.	6.78	0.0200	347.	32.	0.02
MILE	44.10	794.28	6449.	0.23	27948.	1521.	8.09	0.0300	207.	39.	0.01
MILE	43.70	794.28	6483.	0.45	14449.	1376.	8.21	0.0300	173.	41.	0.02
MILE	42.00	794.30	6502.	0.34	19100.	1344.	6.16	0.0300	380.	44.	0.02
MILE	39.10	794.35	5844.	0.32	18371.	1369.	7.89	0.0230	413.	43.	0.02
MILE	37.00	794.40	5083.	0.16	32457.	1135.	7.35	0.0280	256.	43.	0.01
MILE	36.00	794.41	4925.	0.25	20038.	914.	8.38	0.0280	198.	45.	0.01
MILE	34.60	794.42	4764.	0.16	30409.	1244.	9.68	0.0280	198.	46.	0.01
MILE	33.60	794.43	4323.	0.07	63081.	2173.	8.19	0.0290	256.	52.	0.00
MILE	31.50	794.46	2829.	0.09	30873.	1785.	10.44	0.0250	289.	56.	0.00
MILE	30.10	794.47	2439.	0.07	32563.	898.	9.99	0.0200	207.	54.	0.00
MILE	29.00	794.48	2231.	0.06	36235.	1071.	10.86	0.0200	231.	55.	0.00
MILE	27.30	794.50	1736.	0.05	37594.	1072.	11.25	0.0230	314.	57.	0.00
MILE	25.20	794.52	1086.	0.02	46541.	1071.	12.07	0.0230	347.	60.	0.00
MILE	23.10	794.54	793.	0.02	38343.	1103.	11.51	0.0230	347.	65.	0.00

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Appendix F		Checked	ACM

TIME 21.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.55	2000.	2.75	727.	271.	2.19	0.0290	404.	4.	0.30
MILE 77.70	817.44	2373.	2.09	1135.	198.	2.62	0.0400	404.	7.	0.15
MILE 75.60	811.82	2722.	2.11	1291.	189.	2.88	0.0400	404.	5.	0.14
MILE 73.50	808.36	3033.	2.03	1492.	175.	3.20	0.0330	404.	9.	0.12
MILE 71.40	806.80	3340.	1.66	2017.	251.	2.96	0.0400	404.	9.	0.10
MILE 69.30	803.64	3628.	2.15	1689.	303.	2.61	0.0340	404.	5.	0.16
MILE 67.20	798.85	3923.	2.19	1794.	339.	2.56	0.0340	415.	8.	0.17
MILE 65.10	795.26	4249.	1.72	2467.	364.	3.43	0.0320	416.	8.	0.12
MILE 63.00	794.85	4639.	1.25	3723.	352.	4.76	0.0400	416.	14.	0.07
MILE 60.90	794.48	4955.	1.04	4766.	361.	5.83	0.0450	416.	18.	0.05
MILE 58.80	794.31	3147.	0.54	5858.	358.	6.17	0.0400	-1614.	21.	0.02
MILE 57.00	794.32	3301.	0.51	6501.	401.	6.09	0.0200	376.	20.	0.02
MILE 55.00	794.33	3439.	0.52	6598.	463.	6.55	0.0200	386.	21.	0.02
MILE 53.10	794.35	3452.	0.38	9131.	571.	6.06	0.0200	396.	21.	0.02
MILE 51.00	794.39	3133.	0.32	9834.	930.	6.17	0.0200	476.	25.	0.02
MILE 48.30	794.45	1760.	0.13	13514.	1645.	4.90	0.0200	476.	26.	0.01
MILE 46.20	794.48	371.	0.02	15968.	1844.	6.81	0.0200	416.	33.	0.00
MILE 44.10	794.51	-930.	-0.03	28223.	1533.	8.13	0.0300	248.	39.	0.00
MILE 43.70	794.52	-1096.	-0.08	14574.	1387.	8.20	0.0300	208.	42.	0.00
MILE 42.00	794.54	-1568.	-0.08	19401.	1355.	6.16	0.0300	456.	45.	0.00
MILE 39.10	794.56	-1683.	-0.09	18546.	1379.	7.91	0.0230	495.	44.	0.00
MILE 37.00	794.56	-1408.	-0.04	32723.	1141.	7.39	0.0280	307.	43.	0.00
MILE 36.00	794.56	-1195.	-0.06	20165.	919.	8.39	0.0280	238.	46.	0.00
MILE 34.60	794.57	-870.	-0.03	30557.	1250.	9.70	0.0280	238.	46.	0.00
MILE 33.60	794.58	-755.	-0.01	63461.	2183.	8.22	0.0290	307.	52.	0.00
MILE 31.50	794.57	-758.	-0.02	30976.	1791.	10.45	0.0250	347.	56.	0.00
MILE 30.10	794.58	-404.	-0.01	32673.	901.	10.01	0.0200	248.	54.	0.00
MILE 29.00	794.58	-132.	0.00	36335.	1075.	10.87	0.0200	277.	55.	0.00
MILE 27.30	794.58	226.	0.01	37678.	1075.	11.26	0.0230	376.	57.	0.00
MILE 25.20	794.59	482.	0.01	46612.	1073.	12.08	0.0230	416.	60.	0.00
MILE 23.10	794.58	807.	0.02	38382.	1104.	11.52	0.0230	416.	65.	0.00

ODATE 3-15-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 22.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.54	2000.	2.75	727.	271.	2.19	0.0290	467.	4.	0.30
MILE 77.70	817.54	2436.	2.10	1162.	201.	2.64	0.0400	467.	7.	0.15
MILE 75.60	811.98	2840.	2.13	1334.	193.	2.93	0.0400	467.	5.	0.14
MILE 73.50	808.53	3182.	2.07	1535.	178.	3.25	0.0330	467.	9.	0.12
MILE 71.40	806.95	3519.	1.69	2079.	254.	3.02	0.0400	467.	9.	0.10
MILE 69.30	803.77	3830.	2.19	1750.	307.	2.65	0.0340	467.	5.	0.16
MILE 67.20	799.01	4154.	2.21	1878.	346.	2.59	0.0340	483.	8.	0.17
MILE 65.10	795.46	4408.	1.73	2544.	373.	3.49	0.0320	485.	8.	0.12

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MILE 63.00	795.13	4379.	1.15	3824.	360.	4.82	0.0400	485.	14.	0.06
MILE 60.90	794.91	4103.	0.84	4910.	366.	5.93	0.0450	485.	18.	0.04
MILE 58.80	794.83	1767.	0.29	6055.	364.	6.24	0.0400	-1549.	22.	0.01
MILE 57.00	794.83	1570.	0.23	6724.	408.	6.19	0.0200	439.	20.	0.01
MILE 55.00	794.82	1376.	0.20	6788.	471.	6.62	0.0200	451.	21.	0.01
MILE 53.10	794.81	1267.	0.13	9412.	580.	6.14	0.0200	462.	22.	0.01
MILE 51.00	794.78	1140.	0.11	10037.	942.	6.22	0.0200	555.	25.	0.01
MILE 48.30	794.73	992.	0.07	13856.	1661.	4.90	0.0200	555.	26.	0.00
MILE 46.20	794.72	286.	0.02	16183.	1859.	6.85	0.0200	485.	33.	0.00
MILE 44.10	794.70	-283.	-0.01	28453.	1543.	8.16	0.0300	289.	40.	0.00
MILE 43.70	794.70	-348.	-0.02	14674.	1396.	8.19	0.0300	243.	42.	0.00
MILE 42.00	794.68	-536.	-0.03	19574.	1361.	6.16	0.0300	532.	45.	0.00
MILE 39.10	794.66	-994.	-0.05	18629.	1383.	7.92	0.0230	578.	44.	0.00
MILE 37.00	794.66	-1437.	-0.04	32891.	1145.	7.41	0.0280	358.	43.	0.00
MILE 36.00	794.66	-1598.	-0.08	20247.	922.	8.40	0.0280	277.	46.	0.00
MILE 34.60	794.66	-1815.	-0.06	30647.	1254.	9.72	0.0280	277.	46.	0.00
MILE 33.60	794.66	-2007.	-0.03	63691.	2189.	8.24	0.0290	358.	52.	0.00
MILE 31.50	794.66	-2334.	-0.08	31053.	1796.	10.46	0.0250	404.	56.	0.00
MILE 30.10	794.66	-2570.	-0.08	32763.	904.	10.03	0.0200	289.	54.	0.00
MILE 29.00	794.67	-2628.	-0.07	36420.	1078.	10.89	0.0200	324.	55.	0.00
MILE 27.30	794.66	-2654.	-0.07	37757.	1078.	11.27	0.0230	439.	58.	0.00
MILE 25.20	794.66	-2452.	-0.05	46697.	1076.	12.09	0.0230	485.	60.	0.00
MILE 23.10	794.68	-2403.	-0.06	38477.	1108.	11.53	0.0230	485.	65.	0.00

ODATE 3-15-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 23.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.54	2000.	2.76	725.	271.	2.19	0.0290	545.	4.	0.30
MILE 77.70	817.66	2508.	2.10	1194.	205.	2.67	0.0400	545.	7.	0.15
MILE 75.60	812.17	2978.	2.15	1386.	198.	3.00	0.0400	545.	6.	0.14
MILE 73.50	808.74	3374.	2.12	1590.	182.	3.31	0.0330	545.	10.	0.13
MILE 71.40	807.16	3762.	1.74	2162.	258.	3.09	0.0400	545.	9.	0.11
MILE 69.30	803.97	4126.	2.24	1839.	313.	2.72	0.0340	545.	5.	0.16
MILE 67.20	799.26	4467.	2.22	2014.	358.	2.64	0.0340	563.	9.	0.16
MILE 65.10	795.99	4589.	1.67	2753.	397.	3.66	0.0320	565.	9.	0.11
MILE 63.00	795.62	4649.	1.16	4001.	385.	4.93	0.0400	565.	15.	0.06
MILE 60.90	795.29	4945.	0.98	5040.	379.	6.02	0.0450	565.	19.	0.05
MILE 58.80	795.10	3361.	0.55	6156.	369.	6.28	0.0400	-1475.	22.	0.02
MILE 57.00	795.07	3709.	0.54	6828.	413.	6.25	0.0200	511.	20.	0.02
MILE 55.00	795.04	4047.	0.59	6870.	475.	6.65	0.0200	525.	22.	0.03
MILE 53.10	795.01	4296.	0.45	9537.	584.	6.18	0.0200	538.	22.	0.02
MILE 51.00	794.99	4325.	0.43	10145.	949.	6.25	0.0200	646.	26.	0.02
MILE 48.30	794.97	3479.	0.25	14142.	1674.	4.90	0.0200	646.	26.	0.01
MILE 46.20	794.95	2523.	0.15	16388.	1873.	6.89	0.0200	565.	33.	0.01
MILE 44.10	794.94	1682.	0.06	28742.	1555.	8.20	0.0300	336.	40.	0.00
MILE 43.70	794.94	1571.	0.11	14807.	1407.	8.17	0.0300	283.	42.	0.01

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 134 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 42.00	794.93	1164.	0.06	19900.	1373.	6.16	0.0300	619.	45.	0.00
MILE 39.10	794.91	643.	0.03	18833.	1395.	7.94	0.0230	673.	44.	0.00
MILE 37.00	794.89	943.	0.03	33249.	1154.	7.46	0.0280	417.	44.	0.00
MILE 36.00	794.88	987.	0.05	20422.	928.	8.42	0.0280	323.	46.	0.00
MILE 34.60	794.87	902.	0.03	30852.	1262.	9.74	0.0280	323.	46.	0.00
MILE 33.60	794.86	824.	0.01	64227.	2204.	8.27	0.0290	417.	52.	0.00
MILE 31.50	794.85	822.	0.03	31222.	1808.	10.49	0.0250	471.	56.	0.00
MILE 30.10	794.84	703.	0.02	32944.	909.	10.06	0.0200	336.	54.	0.00
MILE 29.00	794.83	761.	0.02	36582.	1084.	10.91	0.0200	377.	55.	0.00
MILE 27.30	794.81	991.	0.03	37898.	1083.	11.29	0.0230	511.	58.	0.00
MILE 25.20	794.78	1416.	0.03	46825.	1080.	12.11	0.0230	565.	60.	0.00
MILE 23.10	794.76	1625.	0.04	38553.	1111.	11.54	0.0230	565.	65.	0.00

ODATE 3-16-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 0.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.53	2000.	2.77	722.	271.	2.18	0.0290	623.	4.	0.30
MILE 77.70	817.78	2586.	2.11	1228.	209.	2.70	0.0400	623.	7.	0.15
MILE 75.60	812.38	3126.	2.17	1442.	203.	3.08	0.0400	623.	6.	0.14
MILE 73.50	808.99	3601.	2.17	1656.	187.	3.38	0.0330	623.	10.	0.13
MILE 71.40	807.39	4050.	1.80	2256.	262.	3.17	0.0400	623.	10.	0.11
MILE 69.30	804.19	4461.	2.29	1944.	321.	2.79	0.0340	623.	5.	0.16
MILE 67.20	799.53	4828.	2.23	2165.	371.	2.69	0.0340	643.	9.	0.16
MILE 65.10	796.31	5083.	1.76	2881.	412.	3.76	0.0320	645.	9.	0.12
MILE 63.00	795.88	5333.	1.30	4097.	397.	4.99	0.0400	645.	15.	0.07
MILE 60.90	795.49	5598.	1.10	5110.	387.	6.07	0.0450	645.	19.	0.05
MILE 58.80	795.27	3897.	0.63	6222.	376.	6.32	0.0400	-1401.	22.	0.03
MILE 57.00	795.25	4220.	0.61	6907.	420.	6.29	0.0200	584.	20.	0.03
MILE 55.00	795.22	4583.	0.66	6944.	483.	6.68	0.0200	599.	22.	0.03
MILE 53.10	795.21	4892.	0.51	9661.	594.	6.23	0.0200	615.	22.	0.02
MILE 51.00	795.19	5133.	0.50	10287.	960.	6.27	0.0200	737.	26.	0.03
MILE 48.30	795.15	5490.	0.38	14376.	1696.	4.94	0.0200	737.	26.	0.02
MILE 46.20	795.12	5795.	0.35	16550.	1892.	6.93	0.0200	645.	33.	0.02
MILE 44.10	795.10	6002.	0.21	28945.	1563.	8.23	0.0300	384.	40.	0.01
MILE 43.70	795.10	6070.	0.41	14900.	1415.	8.19	0.0300	323.	42.	0.02
MILE 42.00	795.06	6502.	0.32	20069.	1379.	6.17	0.0300	707.	45.	0.01
MILE 39.10	794.98	7750.	0.41	18896.	1398.	7.95	0.0230	768.	44.	0.02
MILE 37.00	794.94	8675.	0.26	33331.	1156.	7.48	0.0280	476.	44.	0.01
MILE 36.00	794.92	9013.	0.44	20453.	929.	8.42	0.0280	369.	46.	0.02
MILE 34.60	794.89	9435.	0.31	30876.	1263.	9.75	0.0280	369.	46.	0.01
MILE 33.60	794.88	9849.	0.15	64282.	2205.	8.28	0.0290	476.	52.	0.01
MILE 31.50	794.85	10968.	0.35	31230.	1808.	10.49	0.0250	538.	56.	0.01
MILE 30.10	794.83	11470.	0.35	32936.	909.	10.06	0.0200	384.	54.	0.01
MILE 29.00	794.81	11884.	0.32	36567.	1083.	10.91	0.0200	430.	55.	0.01
MILE 27.30	794.79	12666.	0.33	37879.	1082.	11.29	0.0230	584.	58.	0.01
MILE 25.20	794.76	13757.	0.29	46805.	1079.	12.11	0.0230	645.	60.	0.01

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
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MILE 23.10 794.73 14504. 0.38 38525. 1110. 11.54 0.0230 645. 65. 0.01

0DATE 3-16-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 1.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.52	2000.	2.77	721.	271.	2.18	0.0290	681.	4.	0.30
MILE 77.70	817.89	2650.	2.11	1258.	212.	2.73	0.0400	681.	7.	0.15
MILE 75.60	812.57	3262.	2.19	1492.	208.	3.14	0.0400	681.	6.	0.14
MILE 73.50	809.24	3810.	2.21	1722.	192.	3.46	0.0330	681.	10.	0.13
MILE 71.40	807.62	4329.	1.84	2349.	267.	3.25	0.0400	681.	10.	0.11
MILE 69.30	804.41	4806.	2.34	2050.	328.	2.86	0.0340	681.	6.	0.17
MILE 67.20	799.80	5234.	2.25	2327.	384.	2.75	0.0340	694.	9.	0.16
MILE 65.10	796.64	5521.	1.83	3015.	427.	3.86	0.0320	696.	10.	0.12
MILE 63.00	796.17	5800.	1.38	4202.	412.	5.05	0.0400	696.	15.	0.08
MILE 60.90	795.69	6251.	1.21	5182.	396.	6.11	0.0450	696.	19.	0.06
MILE 58.80	795.39	4899.	0.78	6267.	380.	6.35	0.0400	-1354.	22.	0.03
MILE 57.00	795.35	5487.	0.79	6950.	424.	6.31	0.0200	630.	21.	0.03
MILE 55.00	795.29	6150.	0.88	6970.	485.	6.69	0.0200	646.	22.	0.04
MILE 53.10	795.24	6869.	0.71	9681.	595.	6.24	0.0200	663.	22.	0.03
MILE 51.00	795.18	7853.	0.76	10281.	959.	6.26	0.0200	795.	26.	0.04
MILE 48.30	795.10	9499.	0.66	14314.	1689.	4.93	0.0200	795.	26.	0.04
MILE 46.20	795.06	10672.	0.65	16491.	1884.	6.91	0.0200	696.	33.	0.04
MILE 44.10	795.04	12028.	0.42	28861.	1560.	8.22	0.0300	414.	40.	0.02
MILE 43.70	795.02	12262.	0.83	14854.	1411.	8.17	0.0300	348.	42.	0.04
MILE 42.00	794.97	13244.	0.66	19948.	1375.	6.16	0.0300	762.	45.	0.03
MILE 39.10	794.87	14767.	0.79	18804.	1393.	7.94	0.0230	828.	44.	0.04
MILE 37.00	794.86	15566.	0.47	33207.	1153.	7.46	0.0280	514.	44.	0.02
MILE 36.00	794.84	15993.	0.78	20389.	927.	8.42	0.0280	398.	46.	0.03
MILE 34.60	794.81	16669.	0.54	30800.	1260.	9.74	0.0280	398.	46.	0.02
MILE 33.60	794.81	17162.	0.27	64094.	2200.	8.26	0.0290	514.	52.	0.01
MILE 31.50	794.80	18133.	0.58	31183.	1805.	10.48	0.0250	580.	56.	0.02
MILE 30.10	794.78	18781.	0.57	32889.	907.	10.05	0.0200	414.	54.	0.02
MILE 29.00	794.77	19207.	0.53	36527.	1082.	10.90	0.0200	464.	55.	0.02
MILE 27.30	794.76	19746.	0.52	37853.	1081.	11.29	0.0230	630.	58.	0.02
MILE 25.20	794.76	20231.	0.43	46801.	1079.	12.11	0.0230	696.	60.	0.01
MILE 23.10	794.75	20837.	0.54	38544.	1111.	11.54	0.0230	696.	65.	0.02

0DATE 3-16-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 2.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80 822.53 2000. 2.77 722. 271. 2.18 0.0290 740. 4. 0.30

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 136 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE	77.70	817.98	2706.	2.11	1284.	215.	2.75	0.0400	740.	7.	0.15
MILE	75.60	812.73	3376.	2.20	1536.	212.	3.20	0.0400	740.	6.	0.14
MILE	73.50	809.45	3990.	2.24	1780.	197.	3.52	0.0330	740.	10.	0.13
MILE	71.40	807.82	4577.	1.88	2430.	271.	3.32	0.0400	740.	10.	0.11
MILE	69.30	804.62	5125.	2.39	2148.	335.	2.92	0.0340	740.	6.	0.17
MILE	67.20	800.05	5623.	2.27	2474.	394.	2.81	0.0340	746.	9.	0.16
MILE	65.10	796.89	6019.	1.93	3114.	439.	3.94	0.0320	746.	10.	0.13
MILE	63.00	796.31	6559.	1.54	4255.	419.	5.08	0.0400	746.	15.	0.09
MILE	60.90	795.67	7313.	1.41	5174.	395.	6.11	0.0450	746.	19.	0.07
MILE	58.80	795.25	6189.	1.00	6213.	375.	6.32	0.0400	-1307.	22.	0.04
MILE	57.00	795.20	6971.	1.01	6883.	418.	6.27	0.0200	675.	20.	0.04
MILE	55.00	795.13	7877.	1.14	6908.	479.	6.66	0.0200	693.	22.	0.05
MILE	53.10	795.09	8770.	0.91	9587.	588.	6.20	0.0200	711.	22.	0.04
MILE	51.00	795.04	9806.	0.96	10182.	951.	6.25	0.0200	853.	26.	0.05
MILE	48.30	794.99	11160.	0.79	14164.	1675.	4.90	0.0200	853.	26.	0.05
MILE	46.20	794.95	12529.	0.76	16392.	1873.	6.89	0.0200	746.	33.	0.05
MILE	44.10	794.95	13677.	0.48	28751.	1555.	8.20	0.0300	444.	40.	0.02
MILE	43.70	794.94	13865.	0.94	14804.	1407.	8.17	0.0300	373.	42.	0.05
MILE	42.00	794.90	14546.	0.73	19858.	1371.	6.16	0.0300	818.	45.	0.03
MILE	39.10	794.84	15507.	0.83	18773.	1391.	7.93	0.0230	889.	44.	0.04
MILE	37.00	794.83	16173.	0.49	33157.	1151.	7.45	0.0280	551.	44.	0.02
MILE	36.00	794.82	16535.	0.81	20371.	926.	8.41	0.0280	427.	46.	0.03
MILE	34.60	794.82	17019.	0.55	30801.	1260.	9.74	0.0280	427.	46.	0.02
MILE	33.60	794.82	17202.	0.27	64120.	2201.	8.27	0.0290	551.	52.	0.01
MILE	31.50	794.82	17295.	0.55	31198.	1806.	10.49	0.0250	622.	56.	0.02
MILE	30.10	794.82	17730.	0.54	32924.	908.	10.06	0.0200	444.	54.	0.02
MILE	29.00	794.82	18031.	0.49	36574.	1084.	10.91	0.0200	498.	55.	0.01
MILE	27.30	794.83	18325.	0.48	37917.	1084.	11.29	0.0230	675.	58.	0.01
MILE	25.20	794.84	18634.	0.40	46887.	1082.	12.12	0.0230	746.	60.	0.01
MILE	23.10	794.83	19198.	0.50	38620.	1114.	11.55	0.0230	746.	65.	0.01

ODATE 3-16-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 3.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	822.55	2000.	2.75	729.	272.	2.19	0.0290	814.	4.	0.30
MILE	77.70	818.08	2767.	2.11	1312.	218.	2.78	0.0400	814.	7.	0.15
MILE	75.60	812.89	3494.	2.21	1580.	216.	3.25	0.0400	814.	6.	0.14
MILE	73.50	809.65	4167.	2.27	1834.	201.	3.57	0.0330	814.	10.	0.13
MILE	71.40	808.01	4818.	1.92	2507.	274.	3.38	0.0400	814.	10.	0.11
MILE	69.30	804.81	5438.	2.43	2240.	341.	2.97	0.0340	814.	6.	0.17
MILE	67.20	800.27	6018.	2.32	2590.	401.	2.89	0.0340	821.	10.	0.16
MILE	65.10	797.04	6524.	2.05	3177.	446.	3.99	0.0320	822.	10.	0.14
MILE	63.00	796.39	7133.	1.66	4284.	423.	5.10	0.0400	822.	15.	0.09
MILE	60.90	795.65	7850.	1.52	5169.	394.	6.10	0.0450	822.	19.	0.07
MILE	58.80	795.18	6651.	1.08	6186.	372.	6.30	0.0400	-1236.	22.	0.05
MILE	57.00	795.13	7370.	1.08	6852.	415.	6.26	0.0200	744.	20.	0.05

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE	55.00	795.06	8159.	1.19	6881.	476.	6.65	0.0200	764.	22.	0.05
MILE	53.10	795.03	8872.	0.93	9549.	585.	6.19	0.0200	783.	22.	0.04
MILE	51.00	794.99	9605.	0.95	10148.	949.	6.25	0.0200	940.	26.	0.05
MILE	48.30	794.95	10478.	0.74	14124.	1673.	4.90	0.0200	940.	26.	0.04
MILE	46.20	794.94	11032.	0.67	16381.	1872.	6.89	0.0200	822.	33.	0.04
MILE	44.10	794.95	11527.	0.40	28749.	1555.	8.20	0.0300	490.	40.	0.02
MILE	43.70	794.94	11634.	0.79	14806.	1407.	8.17	0.0300	411.	42.	0.04
MILE	42.00	794.92	12099.	0.61	19891.	1373.	6.16	0.0300	901.	45.	0.03
MILE	39.10	794.89	12833.	0.68	18823.	1394.	7.94	0.0230	979.	44.	0.03
MILE	37.00	794.90	13128.	0.39	33277.	1154.	7.47	0.0280	607.	44.	0.01
MILE	36.00	794.90	13357.	0.65	20439.	929.	8.42	0.0280	470.	46.	0.02
MILE	34.60	794.90	13720.	0.44	30890.	1264.	9.75	0.0280	470.	46.	0.02
MILE	33.60	794.91	13876.	0.22	64355.	2207.	8.28	0.0290	607.	52.	0.01
MILE	31.50	794.91	13986.	0.45	31279.	1811.	10.50	0.0250	685.	56.	0.02
MILE	30.10	794.91	14193.	0.43	33023.	911.	10.07	0.0200	490.	54.	0.01
MILE	29.00	794.92	14468.	0.39	36670.	1087.	10.93	0.0200	548.	55.	0.01
MILE	27.30	794.92	14940.	0.39	38007.	1087.	11.31	0.0230	744.	58.	0.01
MILE	25.20	794.92	15471.	0.33	46981.	1085.	12.13	0.0230	822.	60.	0.01
MILE	23.10	794.93	15941.	0.41	38715.	1117.	11.57	0.0230	822.	65.	0.01

ODATE 3-16-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 4.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	822.59	2000.	2.71	739.	272.	2.21	0.0290	888.	4.	0.29
MILE	77.70	818.19	2835.	2.11	1343.	221.	2.80	0.0400	888.	7.	0.15
MILE	75.60	813.06	3626.	2.23	1628.	221.	3.31	0.0400	888.	7.	0.14
MILE	73.50	809.86	4362.	2.31	1891.	205.	3.63	0.0330	888.	11.	0.13
MILE	71.40	808.20	5080.	1.96	2586.	278.	3.45	0.0400	888.	10.	0.11
MILE	69.30	805.00	5770.	2.47	2334.	347.	3.03	0.0340	888.	6.	0.17
MILE	67.20	800.48	6421.	2.37	2707.	407.	2.97	0.0340	897.	10.	0.16
MILE	65.10	797.24	6973.	2.14	3258.	455.	4.05	0.0320	898.	10.	0.14
MILE	63.00	796.55	7545.	1.74	4344.	431.	5.13	0.0400	898.	16.	0.10
MILE	60.90	795.77	8176.	1.57	5210.	399.	6.13	0.0450	898.	19.	0.08
MILE	58.80	795.28	6854.	1.10	6226.	376.	6.32	0.0400	-1166.	22.	0.05
MILE	57.00	795.23	7445.	1.08	6899.	419.	6.28	0.0200	813.	20.	0.05
MILE	55.00	795.17	8075.	1.17	6924.	481.	6.67	0.0200	834.	22.	0.05
MILE	53.10	795.14	8648.	0.90	9617.	590.	6.22	0.0200	855.	22.	0.04
MILE	51.00	795.10	9176.	0.90	10225.	955.	6.26	0.0200	1027.	26.	0.05
MILE	48.30	795.07	9520.	0.67	14266.	1685.	4.92	0.0200	1027.	26.	0.04
MILE	46.20	795.06	9438.	0.57	16486.	1883.	6.91	0.0200	898.	33.	0.03
MILE	44.10	795.05	9584.	0.33	28884.	1561.	8.22	0.0300	535.	40.	0.01
MILE	43.70	795.05	9652.	0.65	14870.	1412.	8.18	0.0300	449.	42.	0.04
MILE	42.00	795.03	10066.	0.50	20027.	1377.	6.17	0.0300	984.	45.	0.02
MILE	39.10	794.97	11366.	0.60	18883.	1397.	7.95	0.0230	1069.	44.	0.03
MILE	37.00	794.93	13028.	0.39	33326.	1155.	7.48	0.0280	663.	44.	0.01
MILE	36.00	794.91	13675.	0.67	20451.	929.	8.42	0.0280	513.	46.	0.03

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
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MILE 34.60	794.89	14518.	0.47	30878.	1264.	9.75	0.0280	513.	46.	0.02
MILE 33.60	794.89	15326.	0.24	64296.	2206.	8.28	0.0290	663.	52.	0.01
MILE 31.50	794.86	17389.	0.56	31235.	1809.	10.49	0.0250	749.	56.	0.02
MILE 30.10	794.85	18327.	0.56	32956.	909.	10.06	0.0200	535.	54.	0.02
MILE 29.00	794.84	19071.	0.52	36593.	1084.	10.91	0.0200	599.	55.	0.02
MILE 27.30	794.82	20456.	0.54	37905.	1083.	11.29	0.0230	813.	58.	0.02
MILE 25.20	794.78	22146.	0.47	46829.	1080.	12.11	0.0230	898.	60.	0.01
MILE 23.10	794.76	23455.	0.61	38553.	1111.	11.54	0.0230	898.	65.	0.02

ODATE 3-16-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 5.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.66	2000.	2.65	755.	274.	2.23	0.0290	1016.	4.	0.28
MILE 77.70	818.33	2932.	2.11	1387.	225.	2.84	0.0400	1016.	8.	0.15
MILE 75.60	813.29	3805.	2.25	1689.	226.	3.38	0.0400	1016.	7.	0.15
MILE 73.50	810.12	4613.	2.35	1962.	210.	3.70	0.0330	1016.	11.	0.14
MILE 71.40	808.44	5408.	2.02	2682.	282.	3.53	0.0400	1016.	11.	0.12
MILE 69.30	805.22	6177.	2.53	2438.	350.	3.11	0.0340	1016.	7.	0.17
MILE 67.20	800.74	6892.	2.42	2848.	415.	3.06	0.0340	1029.	10.	0.16
MILE 65.10	797.55	7448.	2.20	3384.	469.	4.14	0.0320	1030.	11.	0.14
MILE 63.00	796.84	7960.	1.79	4451.	445.	5.19	0.0400	1030.	16.	0.10
MILE 60.90	796.03	8533.	1.61	5301.	410.	6.19	0.0450	1030.	20.	0.08
MILE 58.80	795.52	7172.	1.14	6316.	385.	6.38	0.0400	-1043.	22.	0.05
MILE 57.00	795.46	7777.	1.11	7000.	428.	6.33	0.0200	932.	21.	0.05
MILE 55.00	795.38	8474.	1.21	7006.	489.	6.71	0.0200	957.	22.	0.06
MILE 53.10	795.32	9199.	0.95	9733.	599.	6.27	0.0200	981.	22.	0.04
MILE 51.00	795.25	10070.	0.97	10332.	963.	6.27	0.0200	1177.	26.	0.05
MILE 48.30	795.14	11572.	0.81	14371.	1695.	4.94	0.0200	1177.	26.	0.05
MILE 46.20	795.09	12908.	0.78	16515.	1887.	6.92	0.0200	1030.	33.	0.05
MILE 44.10	795.06	14121.	0.49	28887.	1561.	8.22	0.0300	613.	40.	0.02
MILE 43.70	795.04	14346.	0.97	14864.	1412.	8.18	0.0300	515.	42.	0.05
MILE 42.00	794.97	15351.	0.77	19949.	1375.	6.16	0.0300	1128.	45.	0.04
MILE 39.10	794.86	16934.	0.90	18789.	1392.	7.94	0.0230	1226.	44.	0.04
MILE 37.00	794.84	17635.	0.53	33181.	1152.	7.46	0.0280	760.	44.	0.02
MILE 36.00	794.82	17929.	0.88	20378.	927.	8.41	0.0280	589.	46.	0.03
MILE 34.60	794.81	18316.	0.59	30799.	1260.	9.74	0.0280	589.	46.	0.02
MILE 33.60	794.81	18663.	0.29	64099.	2200.	8.26	0.0290	760.	52.	0.01
MILE 31.50	794.80	19686.	0.63	31179.	1805.	10.48	0.0250	859.	56.	0.03
MILE 30.10	794.79	20263.	0.62	32893.	907.	10.05	0.0200	613.	54.	0.02
MILE 29.00	794.78	20682.	0.57	36539.	1082.	10.91	0.0200	687.	55.	0.02
MILE 27.30	794.78	21286.	0.56	37870.	1082.	11.29	0.0230	932.	58.	0.02
MILE 25.20	794.78	22242.	0.48	46823.	1080.	12.11	0.0230	1030.	60.	0.01
MILE 23.10	794.78	23100.	0.60	38572.	1112.	11.55	0.0230	1030.	65.	0.02

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0DATE 3-16-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 6.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.72	2000.	2.59	772.	275.	2.25	0.0290	1145.	4.	0.27
MILE 77.70	818.53	3057.	2.12	1443.	231.	2.88	0.0400	1145.	8.	0.15
MILE 75.60	813.58	4041.	2.29	1768.	234.	3.48	0.0400	1145.	7.	0.15
MILE 73.50	810.44	4943.	2.41	2053.	217.	3.79	0.0330	1145.	11.	0.14
MILE 71.40	808.73	5829.	2.08	2801.	288.	3.62	0.0400	1145.	11.	0.12
MILE 69.30	805.49	6683.	2.61	2561.	353.	3.20	0.0340	1145.	7.	0.17
MILE 67.20	801.07	7477.	2.47	3027.	425.	3.18	0.0340	1160.	10.	0.16
MILE 65.10	797.96	8039.	2.26	3550.	488.	4.25	0.0320	1162.	11.	0.15
MILE 63.00	797.19	8606.	1.88	4585.	462.	5.27	0.0400	1162.	16.	0.11
MILE 60.90	796.26	9420.	1.75	5380.	419.	6.24	0.0450	1162.	20.	0.09
MILE 58.80	795.59	8501.	1.34	6344.	387.	6.39	0.0400	-921.	23.	0.06
MILE 57.00	795.50	9502.	1.35	7017.	429.	6.34	0.0200	1051.	21.	0.06
MILE 55.00	795.39	10605.	1.51	7007.	489.	6.71	0.0200	1079.	22.	0.07
MILE 53.10	795.31	11640.	1.20	9726.	599.	6.26	0.0200	1107.	22.	0.05
MILE 51.00	795.23	12721.	1.23	10318.	962.	6.27	0.0200	1328.	26.	0.07
MILE 48.30	795.15	13751.	0.96	14372.	1695.	4.94	0.0200	1328.	26.	0.06
MILE 46.20	795.10	14407.	0.87	16531.	1889.	6.92	0.0200	1162.	33.	0.05
MILE 44.10	795.10	15239.	0.53	28935.	1562.	8.23	0.0300	692.	40.	0.02
MILE 43.70	795.08	15403.	1.03	14889.	1414.	8.19	0.0300	581.	42.	0.06
MILE 42.00	795.03	16078.	0.80	20027.	1377.	6.17	0.0300	1273.	45.	0.04
MILE 39.10	794.93	17325.	0.92	18850.	1396.	7.94	0.0230	1383.	44.	0.04
MILE 37.00	794.90	18754.	0.56	33272.	1154.	7.47	0.0280	858.	44.	0.02
MILE 36.00	794.87	19444.	0.95	20416.	928.	8.42	0.0280	664.	46.	0.04
MILE 34.60	794.85	20410.	0.66	30834.	1262.	9.74	0.0280	664.	46.	0.02
MILE 33.60	794.85	21058.	0.33	64190.	2203.	8.27	0.0290	858.	52.	0.01
MILE 31.50	794.83	22275.	0.71	31208.	1807.	10.49	0.0250	968.	56.	0.03
MILE 30.10	794.81	23173.	0.70	32915.	908.	10.06	0.0200	692.	54.	0.02
MILE 29.00	794.80	23876.	0.65	36551.	1083.	10.91	0.0200	775.	55.	0.02
MILE 27.30	794.78	24965.	0.66	37872.	1082.	11.29	0.0230	1051.	58.	0.02
MILE 25.20	794.77	26197.	0.56	46810.	1080.	12.11	0.0230	1162.	60.	0.01
MILE 23.10	794.73	27730.	0.72	38525.	1110.	11.54	0.0230	1162.	65.	0.02

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TIME 7.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.74	2000.	2.57	777.	275.	2.26	0.0290	1196.	4.	0.27
MILE 77.70	818.68	3152.	2.12	1489.	236.	2.92	0.0400	1196.	8.	0.15
MILE 75.60	813.84	4243.	2.31	1840.	240.	3.56	0.0400	1196.	7.	0.15
MILE 73.50	810.74	5253.	2.46	2138.	223.	3.86	0.0330	1196.	12.	0.14
MILE 71.40	809.01	6238.	2.14	2915.	293.	3.71	0.0400	1196.	11.	0.12

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MILE 69.30	805.75	7186.	2.68	2683.	357.	3.29	0.0340	1196.	7.	0.17
MILE 67.20	801.40	8065.	2.51	3207.	435.	3.29	0.0340	1207.	11.	0.16
MILE 65.10	798.32	8744.	2.36	3698.	505.	4.36	0.0320	1209.	11.	0.15
MILE 63.00	797.48	9444.	2.01	4694.	476.	5.33	0.0400	1209.	16.	0.11
MILE 60.90	796.42	10280.	1.89	5437.	426.	6.28	0.0450	1209.	20.	0.09
MILE 58.80	795.67	9222.	1.45	6374.	390.	6.41	0.0400	-877.	23.	0.06
MILE 57.00	795.58	10097.	1.43	7052.	432.	6.36	0.0200	1094.	21.	0.06
MILE 55.00	795.46	11085.	1.58	7038.	492.	6.73	0.0200	1123.	22.	0.07
MILE 53.10	795.39	12023.	1.23	9774.	602.	6.28	0.0200	1151.	22.	0.05
MILE 51.00	795.30	13032.	1.26	10372.	967.	6.27	0.0200	1382.	26.	0.07
MILE 48.30	795.20	14455.	1.00	14442.	1702.	4.96	0.0200	1382.	26.	0.06
MILE 46.20	795.14	15781.	0.95	16563.	1894.	6.93	0.0200	1209.	33.	0.06
MILE 44.10	795.12	16952.	0.59	28967.	1564.	8.23	0.0300	720.	40.	0.02
MILE 43.70	795.10	17181.	1.15	14900.	1415.	8.19	0.0300	604.	42.	0.06
MILE 42.00	795.02	18219.	0.91	20019.	1377.	6.17	0.0300	1324.	45.	0.04
MILE 39.10	794.89	19913.	1.06	18818.	1394.	7.94	0.0230	1439.	44.	0.05
MILE 37.00	794.89	20338.	0.61	33254.	1154.	7.47	0.0280	892.	44.	0.02
MILE 36.00	794.87	20709.	1.01	20413.	928.	8.42	0.0280	691.	46.	0.04
MILE 34.60	794.86	21316.	0.69	30844.	1262.	9.74	0.0280	691.	46.	0.02
MILE 33.60	794.86	21562.	0.34	64231.	2204.	8.27	0.0290	892.	52.	0.01
MILE 31.50	794.86	21768.	0.70	31233.	1808.	10.49	0.0250	1007.	56.	0.03
MILE 30.10	794.85	22425.	0.68	32956.	909.	10.06	0.0200	720.	54.	0.02
MILE 29.00	794.85	22875.	0.62	36601.	1084.	10.92	0.0200	806.	55.	0.02
MILE 27.30	794.85	23326.	0.61	37941.	1085.	11.30	0.0230	1094.	58.	0.02
MILE 25.20	794.86	23964.	0.51	46917.	1083.	12.12	0.0230	1209.	60.	0.01
MILE 23.10	794.87	24719.	0.64	38658.	1115.	11.56	0.0230	1209.	65.	0.02

ODATE 3-16-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 8.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.76	2000.	2.56	781.	276.	2.26	0.0290	1247.	4.	0.27
MILE 77.70	818.78	3209.	2.11	1519.	239.	2.94	0.0400	1247.	8.	0.15
MILE 75.60	814.02	4372.	2.31	1891.	245.	3.62	0.0400	1247.	8.	0.15
MILE 73.50	810.96	5472.	2.49	2202.	227.	3.92	0.0330	1247.	12.	0.14
MILE 71.40	809.22	6550.	2.18	3003.	297.	3.77	0.0400	1247.	11.	0.12
MILE 69.30	805.97	7596.	2.73	2781.	359.	3.37	0.0340	1247.	7.	0.17
MILE 67.20	801.68	8576.	2.55	3366.	443.	3.39	0.0340	1255.	11.	0.16
MILE 65.10	798.66	9341.	2.43	3838.	520.	4.45	0.0320	1256.	12.	0.16
MILE 63.00	797.78	10076.	2.10	4808.	491.	5.39	0.0400	1256.	17.	0.12
MILE 60.90	796.63	10973.	1.99	5509.	434.	6.33	0.0450	1256.	20.	0.10
MILE 58.80	795.78	10070.	1.57	6414.	394.	6.43	0.0400	-834.	23.	0.07
MILE 57.00	795.66	11089.	1.56	7089.	436.	6.38	0.0200	1136.	21.	0.07
MILE 55.00	795.52	12215.	1.73	7061.	494.	6.74	0.0200	1166.	22.	0.08
MILE 53.10	795.43	13268.	1.35	9801.	604.	6.29	0.0200	1196.	22.	0.06
MILE 51.00	795.34	14355.	1.38	10396.	969.	6.28	0.0200	1435.	26.	0.07
MILE 48.30	795.24	15346.	1.06	14496.	1708.	4.97	0.0200	1435.	26.	0.06

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Appendix F		Checked	ACM

MILE	46.20	795.20	15683.	0.94	16622.	1902.	6.95	0.0200	1256.	33.	0.06
MILE	44.10	795.20	16246.	0.56	29069.	1567.	8.25	0.0300	747.	40.	0.02
MILE	43.70	795.18	16367.	1.09	14953.	1419.	8.21	0.0300	628.	42.	0.06
MILE	42.00	795.14	16814.	0.83	20176.	1382.	6.19	0.0300	1375.	45.	0.04
MILE	39.10	795.06	17321.	0.91	18963.	1402.	7.96	0.0230	1495.	44.	0.04
MILE	37.00	795.05	18062.	0.54	33516.	1159.	7.50	0.0280	927.	44.	0.02
MILE	36.00	795.03	18478.	0.90	20550.	933.	8.44	0.0280	718.	46.	0.03
MILE	34.60	795.03	19045.	0.61	31014.	1269.	9.77	0.0280	718.	47.	0.02
MILE	33.60	795.03	19291.	0.30	64682.	2216.	8.31	0.0290	927.	52.	0.01
MILE	31.50	795.02	19511.	0.62	31380.	1818.	10.51	0.0250	1046.	56.	0.03
MILE	30.10	795.02	19799.	0.60	33135.	914.	10.09	0.0200	747.	54.	0.02
MILE	29.00	795.02	20201.	0.55	36773.	1090.	10.94	0.0200	837.	55.	0.02
MILE	27.30	795.01	20871.	0.55	38102.	1090.	11.32	0.0230	1136.	58.	0.02
MILE	25.20	795.01	21558.	0.46	47077.	1088.	12.14	0.0230	1256.	61.	0.01
MILE	23.10	795.00	22431.	0.58	38782.	1120.	11.58	0.0230	1256.	65.	0.02

ODATE 3-16-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 9.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	822.76	2000.	2.56	781.	276.	2.26	0.0290	1228.	4.	0.27
MILE	77.70	818.82	3226.	2.11	1532.	240.	2.95	0.0400	1228.	8.	0.15
MILE	75.60	814.12	4431.	2.31	1918.	248.	3.65	0.0400	1228.	8.	0.15
MILE	73.50	811.09	5596.	2.50	2240.	230.	3.95	0.0330	1228.	12.	0.14
MILE	71.40	809.35	6743.	2.21	3058.	300.	3.81	0.0400	1228.	12.	0.12
MILE	69.30	806.11	7866.	2.76	2848.	361.	3.42	0.0340	1228.	7.	0.17
MILE	67.20	801.90	8932.	2.56	3488.	450.	3.46	0.0340	1233.	11.	0.16
MILE	65.10	798.94	9821.	2.48	3952.	533.	4.53	0.0320	1234.	12.	0.16
MILE	63.00	798.02	10675.	2.18	4901.	503.	5.44	0.0400	1234.	17.	0.12
MILE	60.90	796.79	11607.	2.09	5566.	441.	6.36	0.0450	1234.	20.	0.10
MILE	58.80	795.89	10580.	1.64	6456.	398.	6.46	0.0400	-854.	23.	0.07
MILE	57.00	795.78	11433.	1.60	7141.	440.	6.41	0.0200	1116.	21.	0.07
MILE	55.00	795.65	12367.	1.74	7112.	499.	6.76	0.0200	1146.	22.	0.08
MILE	53.10	795.57	13212.	1.34	9891.	611.	6.33	0.0200	1175.	22.	0.06
MILE	51.00	795.49	13996.	1.33	10510.	978.	6.29	0.0200	1410.	26.	0.07
MILE	48.30	795.41	14649.	1.00	14715.	1730.	5.02	0.0200	1410.	26.	0.06
MILE	46.20	795.36	15066.	0.90	16772.	1922.	6.99	0.0200	1234.	34.	0.05
MILE	44.10	795.36	15331.	0.52	29271.	1574.	8.28	0.0300	734.	40.	0.02
MILE	43.70	795.34	15427.	1.02	15053.	1426.	8.24	0.0300	617.	42.	0.06
MILE	42.00	795.29	15963.	0.78	20390.	1389.	6.23	0.0300	1351.	45.	0.04
MILE	39.10	795.18	17315.	0.91	19069.	1407.	7.99	0.0230	1469.	44.	0.04
MILE	37.00	795.16	18394.	0.55	33695.	1162.	7.53	0.0280	911.	44.	0.02
MILE	36.00	795.14	18865.	0.91	20638.	934.	8.46	0.0280	705.	46.	0.03
MILE	34.60	795.12	19486.	0.63	31111.	1271.	9.78	0.0280	705.	47.	0.02
MILE	33.60	795.12	19971.	0.31	64925.	2220.	8.33	0.0290	911.	52.	0.01
MILE	31.50	795.10	21154.	0.67	31452.	1821.	10.53	0.0250	1028.	56.	0.03
MILE	30.10	795.09	21816.	0.66	33210.	915.	10.11	0.0200	734.	54.	0.02

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE	29.00	795.08	22392.	0.61	36839.	1092.	10.96	0.0200	822.	55.	0.02
MILE	27.30	795.07	23393.	0.61	38156.	1091.	11.33	0.0230	1116.	58.	0.02
MILE	25.20	795.05	24808.	0.53	47122.	1089.	12.15	0.0230	1234.	61.	0.01
MILE	23.10	795.04	25763.	0.66	38821.	1121.	11.59	0.0230	1234.	65.	0.02

ODATE 3-16-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 10.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	822.77	2000.	2.55	783.	276.	2.26	0.0290	1210.	4.	0.27
MILE	77.70	818.81	3213.	2.10	1529.	240.	2.95	0.0400	1210.	8.	0.15
MILE	75.60	814.14	4423.	2.30	1923.	248.	3.66	0.0400	1210.	8.	0.15
MILE	73.50	811.12	5619.	2.50	2251.	231.	3.96	0.0330	1210.	12.	0.14
MILE	71.40	809.40	6804.	2.21	3078.	301.	3.83	0.0400	1210.	12.	0.12
MILE	69.30	806.18	7976.	2.77	2879.	362.	3.44	0.0340	1210.	7.	0.17
MILE	67.20	802.04	9109.	2.56	3563.	454.	3.50	0.0340	1211.	11.	0.16
MILE	65.10	799.15	10095.	2.50	4040.	543.	4.58	0.0320	1212.	12.	0.16
MILE	63.00	798.23	10988.	2.21	4983.	514.	5.48	0.0400	1212.	17.	0.12
MILE	60.90	796.99	11905.	2.11	5638.	450.	6.41	0.0450	1212.	20.	0.11
MILE	58.80	796.08	10876.	1.67	6528.	404.	6.50	0.0400	-875.	23.	0.07
MILE	57.00	795.96	11740.	1.63	7222.	447.	6.45	0.0200	1096.	21.	0.07
MILE	55.00	795.82	12681.	1.77	7181.	506.	6.79	0.0200	1125.	22.	0.08
MILE	53.10	795.74	13567.	1.36	9993.	619.	6.37	0.0200	1154.	22.	0.06
MILE	51.00	795.64	14517.	1.37	10617.	986.	6.30	0.0200	1385.	26.	0.07
MILE	48.30	795.52	15727.	1.06	14869.	1745.	5.05	0.0200	1385.	27.	0.06
MILE	46.20	795.47	16426.	0.97	16870.	1936.	7.01	0.0200	1212.	34.	0.06
MILE	44.10	795.45	17295.	0.59	29389.	1579.	8.30	0.0300	721.	40.	0.02
MILE	43.70	795.42	17471.	1.16	15106.	1430.	8.26	0.0300	606.	42.	0.06
MILE	42.00	795.35	18243.	0.89	20478.	1391.	6.24	0.0300	1327.	45.	0.04
MILE	39.10	795.23	19415.	1.02	19110.	1409.	8.00	0.0230	1442.	44.	0.05
MILE	37.00	795.22	20282.	0.60	33790.	1164.	7.54	0.0280	894.	44.	0.02
MILE	36.00	795.19	20669.	1.00	20685.	935.	8.47	0.0280	692.	46.	0.04
MILE	34.60	795.18	21162.	0.68	31169.	1273.	9.80	0.0280	692.	47.	0.02
MILE	33.60	795.18	21509.	0.33	65082.	2223.	8.34	0.0290	894.	52.	0.01
MILE	31.50	795.16	22349.	0.71	31512.	1823.	10.54	0.0250	1010.	56.	0.03
MILE	30.10	795.15	22844.	0.69	33281.	916.	10.12	0.0200	721.	54.	0.02
MILE	29.00	795.15	23294.	0.63	36905.	1093.	10.97	0.0200	808.	55.	0.02
MILE	27.30	795.14	23990.	0.63	38227.	1092.	11.35	0.0230	1096.	58.	0.02
MILE	25.20	795.13	24880.	0.53	47215.	1090.	12.17	0.0230	1212.	61.	0.01
MILE	23.10	795.13	25768.	0.66	38908.	1123.	11.60	0.0230	1212.	65.	0.02

ODATE 3-16-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

TIME 11.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.78	2000.	2.54	788.	276.	2.27	0.0290	1197.	4.	0.26
MILE 77.70	818.79	3196.	2.10	1523.	239.	2.95	0.0400	1197.	8.	0.15
MILE 75.60	814.11	4397.	2.29	1917.	248.	3.65	0.0400	1197.	8.	0.15
MILE 73.50	811.12	5600.	2.49	2248.	231.	3.96	0.0330	1197.	12.	0.14
MILE 71.40	809.40	6798.	2.21	3078.	301.	3.83	0.0400	1197.	12.	0.12
MILE 69.30	806.20	7992.	2.77	2887.	362.	3.44	0.0340	1197.	7.	0.17
MILE 67.20	802.11	9161.	2.54	3604.	456.	3.53	0.0340	1198.	11.	0.16
MILE 65.10	799.30	10215.	2.49	4105.	550.	4.63	0.0320	1198.	12.	0.16
MILE 63.00	798.39	11198.	2.22	5045.	522.	5.51	0.0400	1198.	17.	0.13
MILE 60.90	797.13	12226.	2.15	5685.	455.	6.44	0.0450	1198.	21.	0.11
MILE 58.80	796.16	11327.	1.73	6561.	407.	6.52	0.0400	-888.	23.	0.08
MILE 57.00	796.04	12291.	1.69	7257.	450.	6.46	0.0200	1084.	21.	0.07
MILE 55.00	795.89	13357.	1.85	7208.	508.	6.80	0.0200	1112.	22.	0.09
MILE 53.10	795.80	14359.	1.43	10033.	622.	6.39	0.0200	1141.	23.	0.06
MILE 51.00	795.70	15399.	1.44	10664.	990.	6.31	0.0200	1369.	26.	0.08
MILE 48.30	795.60	16440.	1.10	14966.	1755.	5.07	0.0200	1369.	27.	0.07
MILE 46.20	795.54	17173.	1.01	16940.	1945.	7.03	0.0200	1198.	34.	0.06
MILE 44.10	795.53	17875.	0.61	29498.	1582.	8.32	0.0300	713.	40.	0.02
MILE 43.70	795.51	18024.	1.19	15160.	1434.	8.28	0.0300	599.	43.	0.06
MILE 42.00	795.45	18653.	0.91	20608.	1395.	6.27	0.0300	1312.	45.	0.04
MILE 39.10	795.33	19782.	1.03	19194.	1414.	8.02	0.0230	1426.	44.	0.05
MILE 37.00	795.31	20756.	0.61	33940.	1167.	7.56	0.0280	884.	44.	0.02
MILE 36.00	795.28	21254.	1.02	20760.	937.	8.49	0.0280	685.	46.	0.04
MILE 34.60	795.26	21936.	0.70	31260.	1275.	9.81	0.0280	685.	47.	0.02
MILE 33.60	795.26	22318.	0.34	65323.	2228.	8.36	0.0290	884.	52.	0.01
MILE 31.50	795.25	22980.	0.73	31598.	1827.	10.56	0.0250	998.	56.	0.03
MILE 30.10	795.24	23672.	0.71	33374.	917.	10.13	0.0200	713.	54.	0.02
MILE 29.00	795.23	24205.	0.65	36989.	1095.	10.98	0.0200	799.	56.	0.02
MILE 27.30	795.22	24931.	0.65	38312.	1094.	11.36	0.0230	1084.	58.	0.02
MILE 25.20	795.22	25850.	0.55	47310.	1092.	12.18	0.0230	1198.	61.	0.01
MILE 23.10	795.20	26913.	0.69	38976.	1125.	11.62	0.0230	1198.	65.	0.02

ODATE 3-16-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 12.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.80	2000.	2.52	793.	277.	2.28	0.0290	1183.	4.	0.26
MILE 77.70	818.77	3183.	2.10	1517.	239.	2.94	0.0400	1183.	8.	0.15
MILE 75.60	814.09	4372.	2.29	1909.	247.	3.64	0.0400	1183.	8.	0.15
MILE 73.50	811.09	5568.	2.49	2241.	230.	3.95	0.0330	1183.	12.	0.14
MILE 71.40	809.38	6764.	2.20	3069.	300.	3.82	0.0400	1183.	12.	0.12
MILE 69.30	806.19	7958.	2.76	2883.	362.	3.44	0.0340	1183.	7.	0.17
MILE 67.20	802.14	9143.	2.52	3621.	457.	3.54	0.0340	1184.	11.	0.16
MILE 65.10	799.39	10266.	2.48	4141.	554.	4.65	0.0320	1184.	12.	0.16

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE	63.00	798.48	11342.	2.23	5079.	526.	5.53	0.0400	1184.	17.	0.13
MILE	60.90	797.20	12415.	2.17	5711.	458.	6.46	0.0450	1184.	21.	0.11
MILE	58.80	796.23	11489.	1.74	6585.	410.	6.53	0.0400	-900.	23.	0.08
MILE	57.00	796.11	12418.	1.70	7286.	453.	6.48	0.0200	1071.	21.	0.07
MILE	55.00	795.96	13441.	1.86	7235.	511.	6.82	0.0200	1100.	22.	0.09
MILE	53.10	795.88	14388.	1.43	10079.	625.	6.41	0.0200	1128.	23.	0.06
MILE	51.00	795.78	15377.	1.43	10721.	994.	6.31	0.0200	1353.	26.	0.08
MILE	48.30	795.67	16561.	1.10	15064.	1764.	5.10	0.0200	1353.	27.	0.07
MILE	46.20	795.62	17395.	1.02	17009.	1955.	7.05	0.0200	1184.	34.	0.06
MILE	44.10	795.60	18208.	0.62	29590.	1586.	8.33	0.0300	705.	40.	0.03
MILE	43.70	795.58	18380.	1.21	15204.	1438.	8.30	0.0300	592.	43.	0.07
MILE	42.00	795.51	19157.	0.93	20697.	1398.	6.28	0.0300	1297.	46.	0.04
MILE	39.10	795.38	20622.	1.07	19238.	1416.	8.03	0.0230	1410.	44.	0.05
MILE	37.00	795.36	21540.	0.63	34028.	1168.	7.57	0.0280	874.	44.	0.02
MILE	36.00	795.33	22068.	1.06	20804.	938.	8.50	0.0280	677.	46.	0.04
MILE	34.60	795.31	22872.	0.73	31311.	1277.	9.82	0.0280	677.	47.	0.03
MILE	33.60	795.31	23350.	0.36	65455.	2230.	8.37	0.0290	874.	52.	0.01
MILE	31.50	795.30	24138.	0.76	31641.	1828.	10.57	0.0250	987.	56.	0.03
MILE	30.10	795.28	24911.	0.75	33425.	917.	10.14	0.0200	705.	54.	0.02
MILE	29.00	795.28	25512.	0.69	37036.	1096.	10.99	0.0200	789.	56.	0.02
MILE	27.30	795.27	26367.	0.69	38355.	1095.	11.37	0.0230	1071.	58.	0.02
MILE	25.20	795.26	27343.	0.58	47359.	1093.	12.19	0.0230	1184.	61.	0.02
MILE	23.10	795.25	28389.	0.73	39025.	1126.	11.63	0.0230	1184.	65.	0.02

ODATE 3-16-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 13.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	822.87	2000.	2.47	810.	278.	2.30	0.0290	1307.	4.	0.25
MILE	77.70	818.83	3233.	2.10	1537.	241.	2.96	0.0400	1307.	8.	0.15
MILE	75.60	814.15	4435.	2.30	1926.	248.	3.66	0.0400	1307.	8.	0.15
MILE	73.50	811.14	5629.	2.49	2256.	231.	3.96	0.0330	1307.	12.	0.14
MILE	71.40	809.42	6831.	2.21	3087.	301.	3.84	0.0400	1307.	12.	0.12
MILE	69.30	806.23	8032.	2.77	2901.	362.	3.45	0.0340	1307.	8.	0.17
MILE	67.20	802.20	9219.	2.52	3653.	459.	3.55	0.0340	1309.	11.	0.16
MILE	65.10	799.48	10339.	2.47	4180.	558.	4.67	0.0320	1309.	12.	0.16
MILE	63.00	798.58	11416.	2.23	5118.	531.	5.55	0.0400	1309.	18.	0.13
MILE	60.90	797.31	12508.	2.18	5750.	463.	6.48	0.0450	1309.	21.	0.11
MILE	58.80	796.33	11636.	1.76	6625.	413.	6.55	0.0400	-784.	23.	0.08
MILE	57.00	796.21	12623.	1.72	7331.	457.	6.50	0.0200	1184.	21.	0.08
MILE	55.00	796.05	13709.	1.89	7272.	515.	6.83	0.0200	1216.	23.	0.09
MILE	53.10	795.96	14736.	1.45	10132.	629.	6.43	0.0200	1247.	23.	0.06
MILE	51.00	795.85	15827.	1.47	10776.	998.	6.32	0.0200	1496.	27.	0.08
MILE	48.30	795.73	17092.	1.13	15149.	1773.	5.11	0.0200	1496.	27.	0.07
MILE	46.20	795.68	17911.	1.05	17067.	1963.	7.06	0.0200	1309.	34.	0.06
MILE	44.10	795.66	18809.	0.63	29666.	1589.	8.35	0.0300	779.	40.	0.03
MILE	43.70	795.64	18993.	1.25	15240.	1440.	8.31	0.0300	655.	43.	0.07

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 145 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE	42.00	795.57	19776.	0.95	20775.	1401.	6.29	0.0300	1434.	46.	0.04
MILE	39.10	795.44	20982.	1.09	19292.	1419.	8.05	0.0230	1558.	44.	0.05
MILE	37.00	795.43	21839.	0.64	34135.	1170.	7.59	0.0280	966.	44.	0.02
MILE	36.00	795.40	22300.	1.07	20862.	939.	8.52	0.0280	748.	46.	0.04
MILE	34.60	795.39	22951.	0.73	31387.	1279.	9.84	0.0280	748.	47.	0.03
MILE	33.60	795.39	23327.	0.36	65657.	2234.	8.39	0.0290	966.	52.	0.01
MILE	31.50	795.37	23983.	0.76	31710.	1831.	10.58	0.0250	1091.	57.	0.03
MILE	30.10	795.36	24548.	0.73	33513.	918.	10.15	0.0200	779.	55.	0.02
MILE	29.00	795.36	25067.	0.68	37123.	1097.	11.01	0.0200	873.	56.	0.02
MILE	27.30	795.35	25858.	0.67	38441.	1096.	11.39	0.0230	1184.	58.	0.02
MILE	25.20	795.35	26793.	0.56	47452.	1094.	12.21	0.0230	1309.	61.	0.02
MILE	23.10	795.34	27737.	0.71	39112.	1128.	11.64	0.0230	1309.	65.	0.02

ODATE 3-16-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 14.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	822.95	2000.	2.41	830.	280.	2.32	0.0290	1431.	4.	0.25
MILE	77.70	818.99	3344.	2.11	1585.	245.	2.99	0.0400	1431.	8.	0.15
MILE	75.60	814.34	4623.	2.33	1981.	253.	3.72	0.0400	1431.	8.	0.15
MILE	73.50	811.33	5858.	2.53	2311.	235.	4.01	0.0330	1431.	12.	0.14
MILE	71.40	809.58	7099.	2.25	3153.	304.	3.88	0.0400	1431.	12.	0.12
MILE	69.30	806.37	8331.	2.81	2967.	364.	3.50	0.0340	1431.	8.	0.17
MILE	67.20	802.36	9528.	2.55	3742.	463.	3.61	0.0340	1434.	12.	0.16
MILE	65.10	799.66	10608.	2.49	4254.	566.	4.72	0.0320	1434.	13.	0.16
MILE	63.00	798.75	11660.	2.25	5185.	539.	5.59	0.0400	1434.	18.	0.13
MILE	60.90	797.47	12782.	2.20	5805.	469.	6.52	0.0450	1434.	21.	0.11
MILE	58.80	796.46	11979.	1.79	6674.	418.	6.58	0.0400	-668.	23.	0.08
MILE	57.00	796.33	13038.	1.77	7384.	462.	6.53	0.0200	1297.	22.	0.08
MILE	55.00	796.17	14205.	1.94	7317.	519.	6.85	0.0200	1332.	23.	0.09
MILE	53.10	796.07	15288.	1.50	10200.	634.	6.46	0.0200	1366.	23.	0.07
MILE	51.00	795.96	16372.	1.51	10855.	1004.	6.33	0.0200	1639.	27.	0.08
MILE	48.30	795.84	17413.	1.14	15292.	1787.	5.14	0.0200	1639.	27.	0.07
MILE	46.20	795.79	18057.	1.05	17169.	1977.	7.09	0.0200	1434.	34.	0.06
MILE	44.10	795.78	18699.	0.63	29812.	1594.	8.37	0.0300	854.	41.	0.03
MILE	43.70	795.75	18847.	1.23	15312.	1446.	8.33	0.0300	717.	43.	0.07
MILE	42.00	795.69	19470.	0.93	20943.	1406.	6.32	0.0300	1571.	46.	0.04
MILE	39.10	795.58	20292.	1.05	19412.	1425.	8.08	0.0230	1707.	45.	0.05
MILE	37.00	795.58	20803.	0.61	34381.	1174.	7.63	0.0280	1058.	44.	0.02
MILE	36.00	795.56	21099.	1.00	20996.	942.	8.55	0.0280	819.	47.	0.04
MILE	34.60	795.55	21463.	0.68	31558.	1284.	9.87	0.0280	819.	47.	0.02
MILE	33.60	795.56	21556.	0.33	66114.	2243.	8.43	0.0290	1058.	53.	0.01
MILE	31.50	795.55	21606.	0.68	31874.	1838.	10.62	0.0250	1195.	57.	0.03
MILE	30.10	795.55	21861.	0.65	33714.	920.	10.19	0.0200	854.	55.	0.02
MILE	29.00	795.55	22195.	0.59	37314.	1101.	11.05	0.0200	956.	56.	0.02
MILE	27.30	795.55	22673.	0.59	38636.	1100.	11.42	0.0230	1297.	58.	0.02
MILE	25.20	795.55	23426.	0.49	47675.	1097.	12.24	0.0230	1434.	61.	0.01

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 23.10 795.55 24120. 0.61 39316. 1133. 11.68 0.0230 1434. 66. 0.02

0DATE 3-16-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 15.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	823.00	2000.	2.37	843.	281.	2.34	0.0290	1522.	4.	0.24
MILE 77.70	819.16	3451.	2.11	1637.	250.	3.03	0.0400	1522.	8.	0.15
MILE 75.60	814.59	4833.	2.36	2048.	260.	3.80	0.0400	1522.	8.	0.15
MILE 73.50	811.58	6153.	2.58	2383.	240.	4.07	0.0330	1522.	12.	0.14
MILE 71.40	809.81	7468.	2.30	3246.	308.	3.95	0.0400	1522.	12.	0.12
MILE 69.30	806.57	8762.	2.86	3063.	367.	3.57	0.0340	1522.	8.	0.17
MILE 67.20	802.60	9995.	2.58	3877.	470.	3.68	0.0340	1525.	12.	0.16
MILE 65.10	799.91	11058.	2.54	4360.	578.	4.79	0.0320	1525.	13.	0.16
MILE 63.00	798.99	12082.	2.29	5278.	551.	5.63	0.0400	1525.	18.	0.13
MILE 60.90	797.68	13191.	2.24	5880.	478.	6.56	0.0450	1525.	21.	0.11
MILE 58.80	796.64	12392.	1.84	6743.	424.	6.62	0.0400	-584.	24.	0.08
MILE 57.00	796.51	13463.	1.80	7462.	468.	6.57	0.0200	1380.	22.	0.08
MILE 55.00	796.34	14627.	1.98	7385.	525.	6.88	0.0200	1416.	23.	0.09
MILE 53.10	796.24	15673.	1.52	10307.	642.	6.50	0.0200	1453.	23.	0.07
MILE 51.00	796.13	16634.	1.51	10986.	1015.	6.34	0.0200	1743.	27.	0.08
MILE 48.30	796.03	17235.	1.11	15539.	1812.	5.20	0.0200	1743.	27.	0.07
MILE 46.20	795.99	17262.	0.99	17356.	2002.	7.13	0.0200	1525.	34.	0.06
MILE 44.10	795.98	17362.	0.58	30079.	1603.	8.41	0.0300	908.	41.	0.02
MILE 43.70	795.96	17430.	1.13	15445.	1456.	8.38	0.0300	763.	43.	0.06
MILE 42.00	795.92	17718.	0.83	21265.	1416.	6.38	0.0300	1670.	46.	0.04
MILE 39.10	795.85	17911.	0.91	19645.	1437.	8.14	0.0230	1816.	45.	0.04
MILE 37.00	795.86	18029.	0.52	34841.	1182.	7.69	0.0280	1126.	45.	0.02
MILE 36.00	795.84	18200.	0.86	21240.	947.	8.62	0.0280	872.	47.	0.03
MILE 34.60	795.84	18391.	0.58	31860.	1292.	9.93	0.0280	872.	47.	0.02
MILE 33.60	795.85	18232.	0.27	66909.	2258.	8.49	0.0290	1126.	53.	0.01
MILE 31.50	795.85	17578.	0.55	32157.	1849.	10.68	0.0250	1271.	57.	0.02
MILE 30.10	795.85	17598.	0.52	34049.	924.	10.24	0.0200	908.	55.	0.02
MILE 29.00	795.85	17808.	0.47	37627.	1107.	11.10	0.0200	1017.	56.	0.01
MILE 27.30	795.86	18040.	0.46	38947.	1105.	11.48	0.0230	1380.	59.	0.01
MILE 25.20	795.87	18428.	0.38	48026.	1103.	12.30	0.0230	1525.	61.	0.01
MILE 23.10	795.87	18928.	0.48	39627.	1141.	11.74	0.0230	1525.	66.	0.01

0DATE 3-16-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 16.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80 823.04 2000. 2.34 853. 281. 2.35 0.0290 1612. 4. 0.24

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 147 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 77.70	819.31	3545.	2.11	1684.	255.	3.07	0.0400	1612.	9.	0.14
MILE 75.60	814.82	5024.	2.38	2114.	265.	3.87	0.0400	1612.	8.	0.15
MILE 73.50	811.83	6441.	2.62	2457.	245.	4.13	0.0330	1612.	13.	0.15
MILE 71.40	810.04	7849.	2.35	3343.	312.	4.02	0.0400	1612.	12.	0.13
MILE 69.30	806.80	9227.	2.91	3169.	370.	3.64	0.0340	1612.	8.	0.18
MILE 67.20	802.88	10524.	2.61	4036.	479.	3.77	0.0340	1616.	12.	0.16
MILE 65.10	800.23	11599.	2.58	4495.	593.	4.87	0.0320	1616.	13.	0.17
MILE 63.00	799.29	12592.	2.33	5397.	566.	5.69	0.0400	1616.	18.	0.13
MILE 60.90	797.96	13657.	2.28	5981.	490.	6.63	0.0450	1616.	21.	0.12
MILE 58.80	796.91	12797.	1.87	6847.	434.	6.68	0.0400	-499.	24.	0.08
MILE 57.00	796.78	13798.	1.82	7584.	479.	6.63	0.0200	1462.	22.	0.08
MILE 55.00	796.61	14865.	1.98	7496.	536.	6.93	0.0200	1501.	23.	0.09
MILE 53.10	796.52	15788.	1.51	10484.	655.	6.58	0.0200	1539.	23.	0.07
MILE 51.00	796.43	16515.	1.47	11207.	1031.	6.37	0.0200	1847.	27.	0.08
MILE 48.30	796.34	16485.	1.03	15948.	1853.	5.29	0.0200	1847.	27.	0.06
MILE 46.20	796.31	15830.	0.90	17657.	2043.	7.21	0.0200	1616.	35.	0.05
MILE 44.10	796.31	15274.	0.50	30499.	1618.	8.48	0.0300	962.	41.	0.02
MILE 43.70	796.29	15254.	0.97	15652.	1472.	8.45	0.0300	808.	43.	0.05
MILE 42.00	796.26	15257.	0.70	21746.	1431.	6.46	0.0300	1770.	46.	0.03
MILE 39.10	796.21	15399.	0.77	19955.	1453.	8.22	0.0230	1924.	45.	0.04
MILE 37.00	796.20	15742.	0.44	35409.	1191.	7.77	0.0280	1193.	45.	0.01
MILE 36.00	796.19	16046.	0.75	21531.	952.	8.69	0.0280	924.	47.	0.03
MILE 34.60	796.18	16462.	0.51	32207.	1301.	10.00	0.0280	924.	48.	0.02
MILE 33.60	796.18	16458.	0.24	67811.	2275.	8.57	0.0290	1193.	53.	0.01
MILE 31.50	796.17	16073.	0.50	32462.	1862.	10.74	0.0250	1347.	57.	0.02
MILE 30.10	796.17	16360.	0.48	34398.	928.	10.30	0.0200	962.	55.	0.01
MILE 29.00	796.17	16742.	0.44	37944.	1114.	11.16	0.0200	1078.	56.	0.01
MILE 27.30	796.16	17236.	0.44	39251.	1110.	11.54	0.0230	1462.	59.	0.01
MILE 25.20	796.16	17893.	0.37	48353.	1108.	12.36	0.0230	1616.	62.	0.01
MILE 23.10	796.15	18607.	0.47	39900.	1147.	11.79	0.0230	1616.	66.	0.01

ODATE 3-16-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 17.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	823.02	2000.	2.36	849.	281.	2.35	0.0290	1555.	4.	0.24
MILE 77.70	819.37	3571.	2.10	1703.	257.	3.08	0.0400	1555.	9.	0.14
MILE 75.60	814.96	5117.	2.38	2152.	269.	3.91	0.0400	1555.	8.	0.15
MILE 73.50	811.98	6618.	2.64	2504.	248.	4.17	0.0330	1555.	13.	0.15
MILE 71.40	810.20	8101.	2.38	3408.	314.	4.07	0.0400	1555.	12.	0.13
MILE 69.30	806.96	9557.	2.94	3248.	372.	3.69	0.0340	1555.	8.	0.18
MILE 67.20	803.14	10932.	2.62	4180.	486.	3.85	0.0340	1556.	12.	0.16
MILE 65.10	800.55	12066.	2.60	4636.	607.	4.95	0.0320	1557.	14.	0.17
MILE 63.00	799.62	13064.	2.36	5528.	582.	5.76	0.0400	1557.	19.	0.14
MILE 60.90	798.30	14075.	2.31	6099.	503.	6.70	0.0450	1557.	22.	0.12
MILE 58.80	797.26	13117.	1.88	6981.	446.	6.75	0.0400	-555.	24.	0.08
MILE 57.00	797.13	14008.	1.81	7742.	493.	6.70	0.0200	1408.	22.	0.08

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE	55.00	796.98	14948.	1.96	7642.	550.	7.00	0.0200	1445.	23.	0.09
MILE	53.10	796.89	15763.	1.47	10714.	672.	6.67	0.0200	1482.	24.	0.06
MILE	51.00	796.79	16428.	1.43	11490.	1053.	6.40	0.0200	1779.	28.	0.08
MILE	48.30	796.70	16573.	1.01	16422.	1900.	5.39	0.0200	1779.	28.	0.06
MILE	46.20	796.66	16135.	0.90	17985.	2088.	7.29	0.0200	1557.	35.	0.05
MILE	44.10	796.64	15820.	0.51	30935.	1634.	8.55	0.0300	927.	41.	0.02
MILE	43.70	796.63	15849.	1.00	15860.	1487.	8.52	0.0300	778.	44.	0.05
MILE	42.00	796.57	16173.	0.73	22182.	1445.	6.53	0.0300	1705.	47.	0.03
MILE	39.10	796.46	17434.	0.86	20176.	1464.	8.27	0.0230	1853.	45.	0.04
MILE	37.00	796.42	18756.	0.52	35774.	1197.	7.82	0.0280	1149.	45.	0.02
MILE	36.00	796.39	19429.	0.90	21704.	956.	8.74	0.0280	889.	47.	0.03
MILE	34.60	796.36	20404.	0.63	32393.	1306.	10.04	0.0280	889.	48.	0.02
MILE	33.60	796.35	21048.	0.31	68278.	2284.	8.60	0.0290	1149.	53.	0.01
MILE	31.50	796.32	22310.	0.68	32600.	1867.	10.77	0.0250	1297.	58.	0.03
MILE	30.10	796.30	23260.	0.67	34542.	929.	10.32	0.0200	927.	55.	0.02
MILE	29.00	796.28	24076.	0.63	38065.	1116.	11.19	0.0200	1038.	57.	0.02
MILE	27.30	796.26	25403.	0.65	39347.	1112.	11.56	0.0230	1408.	59.	0.02
MILE	25.20	796.23	26919.	0.56	48432.	1109.	12.37	0.0230	1557.	62.	0.01
MILE	23.10	796.20	28260.	0.71	39949.	1148.	11.80	0.0230	1557.	66.	0.02

ODATE 3-16-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 18.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	822.98	2000.	2.38	839.	280.	2.34	0.0290	1497.	4.	0.24
MILE	77.70	819.33	3532.	2.09	1690.	256.	3.07	0.0400	1497.	9.	0.14
MILE	75.60	814.95	5078.	2.36	2149.	269.	3.90	0.0400	1497.	8.	0.15
MILE	73.50	812.00	6613.	2.64	2509.	248.	4.17	0.0330	1497.	13.	0.15
MILE	71.40	810.23	8132.	2.38	3422.	315.	4.08	0.0400	1497.	12.	0.13
MILE	69.30	807.02	9632.	2.94	3276.	372.	3.71	0.0340	1497.	8.	0.17
MILE	67.20	803.29	11066.	2.59	4269.	491.	3.90	0.0340	1497.	13.	0.15
MILE	65.10	800.81	12282.	2.58	4751.	619.	5.01	0.0320	1497.	14.	0.16
MILE	63.00	799.91	13336.	2.36	5642.	596.	5.81	0.0400	1497.	19.	0.14
MILE	60.90	798.60	14382.	2.32	6208.	516.	6.76	0.0450	1497.	22.	0.12
MILE	58.80	797.57	13484.	1.90	7099.	457.	6.82	0.0400	-610.	24.	0.08
MILE	57.00	797.44	14445.	1.83	7878.	505.	6.77	0.0200	1354.	23.	0.08
MILE	55.00	797.27	15499.	2.00	7760.	561.	7.05	0.0200	1390.	24.	0.09
MILE	53.10	797.17	16520.	1.52	10887.	685.	6.74	0.0200	1425.	24.	0.07
MILE	51.00	797.04	17643.	1.51	11685.	1067.	6.42	0.0200	1711.	28.	0.08
MILE	48.30	796.90	19127.	1.15	16692.	1927.	5.44	0.0200	1711.	28.	0.07
MILE	46.20	796.83	20092.	1.11	18146.	2110.	7.33	0.0200	1497.	35.	0.07
MILE	44.10	796.80	21096.	0.68	31131.	1641.	8.58	0.0300	891.	42.	0.03
MILE	43.70	796.76	21307.	1.34	15946.	1494.	8.55	0.0300	748.	44.	0.07
MILE	42.00	796.67	22278.	1.00	22316.	1449.	6.55	0.0300	1639.	47.	0.04
MILE	39.10	796.50	23928.	1.18	20212.	1466.	8.28	0.0230	1782.	46.	0.06
MILE	37.00	796.48	24905.	0.69	35869.	1199.	7.83	0.0280	1105.	45.	0.02
MILE	36.00	796.44	25402.	1.17	21749.	957.	8.75	0.0280	855.	47.	0.04

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE	34.60	796.42	26103.	0.80	32454.	1308.	10.05	0.0280	855.	48.	0.03
MILE	33.60	796.42	26543.	0.39	68451.	2288.	8.62	0.0290	1105.	54.	0.01
MILE	31.50	796.39	27465.	0.84	32663.	1870.	10.78	0.0250	1247.	58.	0.04
MILE	30.10	796.37	28183.	0.81	34623.	930.	10.33	0.0200	891.	56.	0.02
MILE	29.00	796.36	28767.	0.75	38147.	1118.	11.20	0.0200	998.	57.	0.02
MILE	27.30	796.35	29591.	0.75	39439.	1114.	11.58	0.0230	1354.	59.	0.02
MILE	25.20	796.34	30639.	0.63	48553.	1111.	12.39	0.0230	1497.	62.	0.02
MILE	23.10	796.33	31574.	0.79	40075.	1151.	11.82	0.0230	1497.	66.	0.02

ODATE 3-16-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 19.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	822.95	2000.	2.41	831.	280.	2.33	0.0290	1444.	4.	0.25
MILE	77.70	819.26	3482.	2.09	1667.	253.	3.05	0.0400	1444.	9.	0.14
MILE	75.60	814.87	4991.	2.35	2127.	267.	3.88	0.0400	1444.	8.	0.15
MILE	73.50	811.94	6514.	2.62	2490.	247.	4.16	0.0330	1444.	13.	0.15
MILE	71.40	810.18	8026.	2.36	3403.	314.	4.07	0.0400	1444.	12.	0.13
MILE	69.30	807.00	9531.	2.92	3267.	372.	3.71	0.0340	1444.	8.	0.17
MILE	67.20	803.36	10995.	2.55	4309.	493.	3.92	0.0340	1444.	13.	0.15
MILE	65.10	800.99	12307.	2.55	4828.	627.	5.05	0.0320	1444.	14.	0.16
MILE	63.00	800.09	13517.	2.36	5717.	606.	5.85	0.0400	1444.	19.	0.14
MILE	60.90	798.76	14776.	2.36	6266.	523.	6.80	0.0450	1444.	22.	0.12
MILE	58.80	797.67	14157.	1.98	7136.	461.	6.84	0.0400	-659.	25.	0.09
MILE	57.00	797.52	15380.	1.94	7914.	508.	6.79	0.0200	1307.	23.	0.09
MILE	55.00	797.33	16733.	2.15	7783.	563.	7.06	0.0200	1341.	24.	0.10
MILE	53.10	797.22	18008.	1.65	10918.	688.	6.75	0.0200	1376.	24.	0.07
MILE	51.00	797.09	19358.	1.65	11722.	1070.	6.43	0.0200	1651.	28.	0.09
MILE	48.30	796.96	20789.	1.24	16770.	1934.	5.46	0.0200	1651.	28.	0.07
MILE	46.20	796.89	21808.	1.20	18208.	2119.	7.34	0.0200	1444.	35.	0.07
MILE	44.10	796.88	22831.	0.73	31239.	1644.	8.59	0.0300	860.	42.	0.03
MILE	43.70	796.84	23040.	1.44	15997.	1498.	8.56	0.0300	722.	44.	0.08
MILE	42.00	796.76	23937.	1.07	22443.	1453.	6.57	0.0300	1582.	47.	0.05
MILE	39.10	796.58	25775.	1.27	20283.	1469.	8.30	0.0230	1720.	46.	0.06
MILE	37.00	796.54	27655.	0.77	35973.	1201.	7.85	0.0280	1066.	45.	0.02
MILE	36.00	796.49	28462.	1.31	21793.	958.	8.76	0.0280	825.	47.	0.05
MILE	34.60	796.46	29531.	0.91	32502.	1309.	10.06	0.0280	825.	48.	0.03
MILE	33.60	796.46	30346.	0.44	68574.	2290.	8.63	0.0290	1066.	54.	0.01
MILE	31.50	796.42	32148.	0.98	32694.	1871.	10.79	0.0250	1204.	58.	0.04
MILE	30.10	796.40	33184.	0.96	34652.	930.	10.34	0.0200	860.	56.	0.03
MILE	29.00	796.39	34035.	0.89	38170.	1118.	11.21	0.0200	963.	57.	0.03
MILE	27.30	796.36	35458.	0.90	39453.	1114.	11.58	0.0230	1307.	59.	0.03
MILE	25.20	796.34	37118.	0.76	48551.	1111.	12.39	0.0230	1444.	62.	0.02
MILE	23.10	796.30	38711.	0.97	40046.	1151.	11.82	0.0230	1444.	66.	0.03

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

ODATE 3-16-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

	TIME 20.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL INFLOW		
	DEPTH	FROUDE									
MILE	79.80	822.93	2000.	2.42	825.	279.	2.32	0.0290	1391.	4.	0.25
MILE	77.70	819.18	3428.	2.09	1642.	251.	3.04	0.0400	1391.	8.	0.14
MILE	75.60	814.76	4889.	2.33	2096.	264.	3.85	0.0400	1391.	8.	0.15
MILE	73.50	811.83	6373.	2.59	2458.	245.	4.13	0.0330	1391.	13.	0.14
MILE	71.40	810.09	7853.	2.33	3364.	313.	4.04	0.0400	1391.	12.	0.13
MILE	69.30	806.93	9335.	2.89	3234.	371.	3.68	0.0340	1391.	8.	0.17
MILE	67.20	803.35	10811.	2.51	4301.	493.	3.91	0.0340	1392.	13.	0.15
MILE	65.10	801.04	12242.	2.52	4849.	630.	5.07	0.0320	1392.	14.	0.16
MILE	63.00	800.14	13627.	2.38	5737.	608.	5.86	0.0400	1392.	19.	0.14
MILE	60.90	798.79	14987.	2.39	6277.	524.	6.81	0.0450	1392.	22.	0.12
MILE	58.80	797.68	14330.	2.01	7143.	462.	6.84	0.0400	-707.	25.	0.09
MILE	57.00	797.54	15478.	1.95	7924.	509.	6.79	0.0200	1260.	23.	0.09
MILE	55.00	797.35	16755.	2.15	7794.	564.	7.07	0.0200	1293.	24.	0.10
MILE	53.10	797.25	17975.	1.64	10938.	689.	6.76	0.0200	1326.	24.	0.07
MILE	51.00	797.12	19363.	1.65	11747.	1072.	6.43	0.0200	1591.	28.	0.09
MILE	48.30	796.98	21436.	1.28	16791.	1937.	5.46	0.0200	1591.	28.	0.08
MILE	46.20	796.89	23176.	1.27	18209.	2119.	7.34	0.0200	1392.	35.	0.08
MILE	44.10	796.87	24830.	0.80	31227.	1644.	8.59	0.0300	829.	42.	0.03
MILE	43.70	796.83	25142.	1.57	15987.	1497.	8.56	0.0300	696.	44.	0.08
MILE	42.00	796.72	26548.	1.19	22382.	1451.	6.56	0.0300	1525.	47.	0.05
MILE	39.10	796.49	29149.	1.44	20202.	1465.	8.28	0.0230	1657.	45.	0.07
MILE	37.00	796.46	30746.	0.86	35842.	1199.	7.83	0.0280	1027.	45.	0.03
MILE	36.00	796.41	31496.	1.45	21720.	956.	8.74	0.0280	795.	47.	0.05
MILE	34.60	796.38	32577.	1.01	32412.	1307.	10.04	0.0280	795.	48.	0.04
MILE	33.60	796.38	33417.	0.49	68345.	2286.	8.61	0.0290	1027.	53.	0.02
MILE	31.50	796.34	35287.	1.08	32618.	1868.	10.77	0.0250	1160.	58.	0.05
MILE	30.10	796.32	36493.	1.06	34562.	929.	10.32	0.0200	829.	56.	0.03
MILE	29.00	796.31	37350.	0.98	38088.	1117.	11.19	0.0200	928.	57.	0.03
MILE	27.30	796.29	38638.	0.98	39379.	1113.	11.56	0.0230	1260.	59.	0.03
MILE	25.20	796.28	40258.	0.83	48485.	1110.	12.38	0.0230	1392.	62.	0.02
MILE	23.10	796.26	41715.	1.04	40007.	1150.	11.81	0.0230	1392.	66.	0.03

ODATE 3-16-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

	TIME 21.0000	ELEVATION	DISCHARGE	VELOCITY	AREA	WIDTH	R(2/3)	MANN N	LOCAL INFLOW		
	DEPTH	FROUDE									
MILE	79.80	822.92	2000.	2.43	822.	279.	2.31	0.0290	1345.	4.	0.25
MILE	77.70	819.09	3376.	2.09	1617.	248.	3.02	0.0400	1345.	8.	0.14
MILE	75.60	814.63	4783.	2.32	2061.	261.	3.81	0.0400	1345.	8.	0.15
MILE	73.50	811.70	6220.	2.57	2421.	242.	4.10	0.0330	1345.	13.	0.14
MILE	71.40	809.97	7659.	2.31	3316.	312.	4.00	0.0400	1345.	12.	0.12

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
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MILE 69.30	806.84	9108.	2.86	3187.	370.	3.65	0.0340	1345.	8.	0.17
MILE 67.20	803.27	10576.	2.48	4258.	491.	3.89	0.0340	1346.	13.	0.15
MILE 65.10	801.00	12056.	2.49	4834.	628.	5.06	0.0320	1346.	14.	0.16
MILE 63.00	800.12	13515.	2.36	5728.	607.	5.86	0.0400	1346.	19.	0.14
MILE 60.90	798.78	14962.	2.39	6271.	523.	6.80	0.0450	1346.	22.	0.12
MILE 58.80	797.65	14434.	2.02	7129.	460.	6.83	0.0400	-750.	25.	0.09
MILE 57.00	797.50	15704.	1.99	7904.	507.	6.78	0.0200	1218.	23.	0.09
MILE 55.00	797.30	17121.	2.20	7772.	562.	7.06	0.0200	1250.	24.	0.10
MILE 53.10	797.19	18495.	1.70	10899.	686.	6.74	0.0200	1282.	24.	0.08
MILE 51.00	797.05	20088.	1.72	11690.	1067.	6.42	0.0200	1538.	28.	0.09
MILE 48.30	796.90	22315.	1.34	16690.	1926.	5.44	0.0200	1538.	28.	0.08
MILE 46.20	796.82	24085.	1.33	18139.	2109.	7.32	0.0200	1346.	35.	0.08
MILE 44.10	796.80	25926.	0.83	31136.	1641.	8.58	0.0300	801.	42.	0.03
MILE 43.70	796.75	26258.	1.65	15941.	1493.	8.54	0.0300	673.	44.	0.09
MILE 42.00	796.64	27667.	1.24	22273.	1447.	6.54	0.0300	1474.	47.	0.06
MILE 39.10	796.40	30377.	1.51	20120.	1461.	8.26	0.0230	1602.	45.	0.07
MILE 37.00	796.34	32854.	0.92	35645.	1195.	7.80	0.0280	993.	45.	0.03
MILE 36.00	796.27	33915.	1.57	21607.	954.	8.71	0.0280	769.	47.	0.06
MILE 34.60	796.23	35409.	1.10	32262.	1303.	10.01	0.0280	769.	48.	0.04
MILE 33.60	796.23	36701.	0.54	67944.	2278.	8.58	0.0290	993.	53.	0.02
MILE 31.50	796.18	39681.	1.22	32463.	1862.	10.74	0.0250	1121.	57.	0.05
MILE 30.10	796.14	41285.	1.20	34366.	927.	10.29	0.0200	801.	55.	0.03
MILE 29.00	796.12	42452.	1.12	37899.	1113.	11.16	0.0200	897.	56.	0.03
MILE 27.30	796.09	44383.	1.13	39179.	1109.	11.53	0.0230	1218.	59.	0.03
MILE 25.20	796.06	46571.	0.97	48243.	1106.	12.34	0.0230	1346.	62.	0.03
MILE 23.10	796.01	48779.	1.23	39764.	1144.	11.77	0.0230	1346.	66.	0.04

ODATE 3-16-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 22.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.91	2000.	2.44	821.	279.	2.31	0.0290	1299.	4.	0.25
MILE 77.70	819.02	3326.	2.09	1593.	246.	3.00	0.0400	1299.	8.	0.14
MILE 75.60	814.51	4683.	2.31	2027.	258.	3.77	0.0400	1299.	8.	0.15
MILE 73.50	811.57	6072.	2.55	2382.	240.	4.07	0.0330	1299.	12.	0.14
MILE 71.40	809.85	7466.	2.29	3266.	309.	3.97	0.0400	1299.	12.	0.12
MILE 69.30	806.72	8874.	2.83	3135.	369.	3.62	0.0340	1299.	8.	0.17
MILE 67.20	803.16	10318.	2.46	4193.	487.	3.85	0.0340	1299.	12.	0.15
MILE 65.10	800.90	11833.	2.47	4790.	624.	5.03	0.0320	1299.	14.	0.16
MILE 63.00	800.03	13372.	2.35	5689.	602.	5.84	0.0400	1299.	19.	0.13
MILE 60.90	798.67	14887.	2.39	6233.	519.	6.78	0.0450	1299.	22.	0.12
MILE 58.80	797.53	14360.	2.03	7086.	456.	6.81	0.0400	-794.	24.	0.09
MILE 57.00	797.39	15607.	1.99	7855.	503.	6.76	0.0200	1176.	23.	0.09
MILE 55.00	797.19	17016.	2.20	7729.	558.	7.04	0.0200	1206.	24.	0.10
MILE 53.10	797.08	18407.	1.70	10832.	681.	6.72	0.0200	1237.	24.	0.08
MILE 51.00	796.94	20097.	1.73	11603.	1061.	6.41	0.0200	1485.	28.	0.09
MILE 48.30	796.77	22886.	1.39	16518.	1909.	5.41	0.0200	1485.	28.	0.08

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MILE	46.20	796.67	25545.	1.42	17995.	2090.	7.29	0.0200	1299.	35.	0.09
MILE	44.10	796.63	28058.	0.91	30923.	1633.	8.54	0.0300	773.	41.	0.04
MILE	43.70	796.58	28492.	1.80	15832.	1485.	8.51	0.0300	650.	44.	0.10
MILE	42.00	796.43	30350.	1.38	21983.	1438.	6.50	0.0300	1423.	46.	0.06
MILE	39.10	796.14	33510.	1.68	19895.	1449.	8.20	0.0230	1547.	45.	0.08
MILE	37.00	796.11	35255.	1.00	35256.	1189.	7.75	0.0280	959.	45.	0.03
MILE	36.00	796.04	36066.	1.68	21407.	950.	8.66	0.0280	742.	47.	0.06
MILE	34.60	796.01	37245.	1.16	32028.	1296.	9.96	0.0280	742.	48.	0.04
MILE	33.60	796.01	38204.	0.57	67348.	2266.	8.53	0.0290	959.	53.	0.02
MILE	31.50	795.97	40351.	1.25	32269.	1854.	10.70	0.0250	1083.	57.	0.05
MILE	30.10	795.94	41645.	1.22	34149.	925.	10.26	0.0200	773.	55.	0.04
MILE	29.00	795.93	42520.	1.13	37709.	1109.	11.12	0.0200	866.	56.	0.03
MILE	27.30	795.92	43815.	1.12	39011.	1106.	11.50	0.0230	1176.	59.	0.03
MILE	25.20	795.92	45501.	0.95	48083.	1104.	12.31	0.0230	1299.	61.	0.03
MILE	23.10	795.90	47113.	1.19	39657.	1141.	11.75	0.0230	1299.	66.	0.04

ODATE 3-16-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 23.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	822.91	2000.	2.44	820.	279.	2.31	0.0290	1239.	4.	0.25
MILE	77.70	818.93	3272.	2.09	1567.	244.	2.98	0.0400	1239.	8.	0.15
MILE	75.60	814.38	4578.	2.30	1990.	254.	3.73	0.0400	1239.	8.	0.14
MILE	73.50	811.43	5919.	2.53	2341.	237.	4.04	0.0330	1239.	12.	0.14
MILE	71.40	809.72	7265.	2.26	3212.	307.	3.93	0.0400	1239.	12.	0.12
MILE	69.30	806.60	8630.	2.80	3077.	367.	3.58	0.0340	1239.	8.	0.17
MILE	67.20	803.01	10042.	2.44	4108.	483.	3.81	0.0340	1239.	12.	0.15
MILE	65.10	800.75	11568.	2.45	4722.	616.	5.00	0.0320	1239.	14.	0.16
MILE	63.00	799.87	13144.	2.34	5628.	595.	5.81	0.0400	1239.	19.	0.13
MILE	60.90	798.51	14714.	2.38	6176.	512.	6.74	0.0450	1239.	22.	0.12
MILE	58.80	797.35	14295.	2.04	7014.	450.	6.77	0.0400	-849.	24.	0.09
MILE	57.00	797.19	15663.	2.02	7768.	495.	6.72	0.0200	1121.	22.	0.09
MILE	55.00	796.99	17209.	2.25	7645.	550.	7.00	0.0200	1151.	23.	0.11
MILE	53.10	796.87	18716.	1.75	10698.	671.	6.66	0.0200	1180.	24.	0.08
MILE	51.00	796.72	20513.	1.79	11435.	1049.	6.40	0.0200	1416.	27.	0.10
MILE	48.30	796.56	23152.	1.43	16242.	1882.	5.35	0.0200	1416.	28.	0.09
MILE	46.20	796.47	25378.	1.42	17813.	2065.	7.24	0.0200	1239.	35.	0.09
MILE	44.10	796.46	27637.	0.90	30690.	1625.	8.51	0.0300	738.	41.	0.04
MILE	43.70	796.40	28021.	1.78	15721.	1477.	8.47	0.0300	620.	43.	0.10
MILE	42.00	796.27	29554.	1.36	21762.	1432.	6.46	0.0300	1357.	46.	0.06
MILE	39.10	796.01	32093.	1.62	19785.	1444.	8.17	0.0230	1475.	45.	0.08
MILE	37.00	795.97	34198.	0.98	35030.	1185.	7.72	0.0280	915.	45.	0.03
MILE	36.00	795.90	35109.	1.65	21290.	948.	8.63	0.0280	708.	47.	0.06
MILE	34.60	795.87	36373.	1.14	31885.	1292.	9.94	0.0280	708.	47.	0.04
MILE	33.60	795.87	37428.	0.56	66967.	2259.	8.50	0.0290	915.	53.	0.02
MILE	31.50	795.82	39798.	1.24	32134.	1848.	10.67	0.0250	1033.	57.	0.05
MILE	30.10	795.80	41073.	1.21	33989.	923.	10.23	0.0200	738.	55.	0.04

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MILE	29.00	795.79	42026.	1.12	37557.	1106.	11.09	0.0200	826.	56.	0.03
MILE	27.30	795.77	43601.	1.12	38854.	1103.	11.47	0.0230	1121.	59.	0.03
MILE	25.20	795.75	45433.	0.95	47895.	1101.	12.28	0.0230	1239.	61.	0.03
MILE	23.10	795.71	47373.	1.20	39473.	1137.	11.71	0.0230	1239.	66.	0.04

ODATE 3-17-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 0.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	822.91	2000.	2.44	820.	279.	2.31	0.0290	1179.	4.	0.25
MILE	77.70	818.84	3213.	2.09	1539.	241.	2.96	0.0400	1179.	8.	0.15
MILE	75.60	814.23	4462.	2.29	1950.	251.	3.69	0.0400	1179.	8.	0.14
MILE	73.50	811.28	5751.	2.51	2296.	234.	4.00	0.0330	1179.	12.	0.14
MILE	71.40	809.58	7047.	2.24	3153.	304.	3.88	0.0400	1179.	12.	0.12
MILE	69.30	806.46	8363.	2.78	3012.	365.	3.53	0.0340	1179.	8.	0.17
MILE	67.20	802.83	9738.	2.43	4004.	477.	3.75	0.0340	1179.	12.	0.15
MILE	65.10	800.53	11280.	2.44	4628.	607.	4.94	0.0320	1179.	14.	0.16
MILE	63.00	799.65	12904.	2.33	5539.	584.	5.76	0.0400	1179.	19.	0.13
MILE	60.90	798.28	14486.	2.38	6093.	503.	6.69	0.0450	1179.	22.	0.12
MILE	58.80	797.12	13978.	2.02	6927.	442.	6.72	0.0400	-905.	24.	0.09
MILE	57.00	796.97	15219.	1.98	7671.	487.	6.67	0.0200	1067.	22.	0.09
MILE	55.00	796.78	16621.	2.20	7564.	542.	6.97	0.0200	1095.	23.	0.10
MILE	53.10	796.67	17992.	1.70	10578.	662.	6.61	0.0200	1123.	23.	0.08
MILE	51.00	796.54	19648.	1.74	11295.	1038.	6.38	0.0200	1348.	27.	0.09
MILE	48.30	796.38	22277.	1.39	16007.	1858.	5.30	0.0200	1348.	27.	0.08
MILE	46.20	796.29	24747.	1.40	17642.	2041.	7.20	0.0200	1179.	34.	0.08
MILE	44.10	796.27	27078.	0.89	30449.	1616.	8.47	0.0300	702.	41.	0.04
MILE	43.70	796.22	27481.	1.76	15604.	1468.	8.43	0.0300	590.	43.	0.10
MILE	42.00	796.08	29171.	1.36	21493.	1423.	6.42	0.0300	1292.	46.	0.06
MILE	39.10	795.81	32059.	1.63	19608.	1435.	8.13	0.0230	1404.	45.	0.08
MILE	37.00	795.78	33809.	0.97	34711.	1180.	7.67	0.0280	870.	44.	0.03
MILE	36.00	795.71	34592.	1.64	21129.	944.	8.59	0.0280	674.	47.	0.06
MILE	34.60	795.68	35708.	1.13	31694.	1287.	9.90	0.0280	674.	47.	0.04
MILE	33.60	795.69	36642.	0.55	66470.	2250.	8.46	0.0290	870.	53.	0.02
MILE	31.50	795.65	38772.	1.21	31969.	1842.	10.64	0.0250	983.	57.	0.05
MILE	30.10	795.62	39982.	1.18	33800.	921.	10.20	0.0200	702.	55.	0.03
MILE	29.00	795.62	40824.	1.09	37385.	1103.	11.06	0.0200	786.	56.	0.03
MILE	27.30	795.61	42135.	1.09	38694.	1101.	11.44	0.0230	1067.	59.	0.03
MILE	25.20	795.60	43803.	0.92	47730.	1098.	12.25	0.0230	1179.	61.	0.02
MILE	23.10	795.58	45391.	1.15	39346.	1134.	11.69	0.0230	1179.	66.	0.03

ODATE 3-17-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

TIME 1.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.91	2000.	2.44	820.	279.	2.31	0.0290	1119.	4.	0.25
MILE 77.70	818.75	3152.	2.09	1510.	238.	2.94	0.0400	1119.	8.	0.15
MILE 75.60	814.08	4343.	2.28	1908.	247.	3.64	0.0400	1119.	8.	0.14
MILE 73.50	811.12	5576.	2.48	2248.	231.	3.96	0.0330	1119.	12.	0.14
MILE 71.40	809.43	6819.	2.21	3090.	301.	3.84	0.0400	1119.	12.	0.12
MILE 69.30	806.31	8084.	2.75	2942.	364.	3.48	0.0340	1119.	8.	0.17
MILE 67.20	802.61	9417.	2.42	3885.	471.	3.69	0.0340	1119.	12.	0.15
MILE 65.10	800.28	10936.	2.42	4519.	595.	4.88	0.0320	1119.	13.	0.15
MILE 63.00	799.40	12534.	2.30	5441.	572.	5.71	0.0400	1119.	18.	0.13
MILE 60.90	798.05	14079.	2.34	6011.	493.	6.64	0.0450	1119.	22.	0.12
MILE 58.80	796.91	13555.	1.98	6846.	434.	6.68	0.0400	-961.	24.	0.09
MILE 57.00	796.76	14799.	1.95	7577.	478.	6.62	0.0200	1013.	22.	0.09
MILE 55.00	796.57	16205.	2.17	7480.	534.	6.93	0.0200	1039.	23.	0.10
MILE 53.10	796.46	17579.	1.68	10447.	653.	6.56	0.0200	1066.	23.	0.07
MILE 51.00	796.33	19245.	1.73	11136.	1026.	6.36	0.0200	1279.	27.	0.09
MILE 48.30	796.18	21788.	1.38	15736.	1831.	5.24	0.0200	1279.	27.	0.08
MILE 46.20	796.09	23971.	1.37	17459.	2016.	7.16	0.0200	1119.	34.	0.08
MILE 44.10	796.08	26168.	0.87	30202.	1608.	8.43	0.0300	666.	41.	0.04
MILE 43.70	796.03	26543.	1.71	15487.	1459.	8.39	0.0300	560.	43.	0.09
MILE 42.00	795.91	28046.	1.32	21248.	1416.	6.37	0.0300	1226.	46.	0.06
MILE 39.10	795.66	30529.	1.57	19478.	1428.	8.10	0.0230	1333.	45.	0.07
MILE 37.00	795.62	32435.	0.94	34455.	1175.	7.64	0.0280	826.	44.	0.03
MILE 36.00	795.56	33263.	1.58	20998.	942.	8.55	0.0280	640.	47.	0.06
MILE 34.60	795.53	34424.	1.09	31534.	1283.	9.87	0.0280	640.	47.	0.04
MILE 33.60	795.53	35408.	0.54	66046.	2242.	8.42	0.0290	826.	53.	0.02
MILE 31.50	795.49	37648.	1.18	31822.	1836.	10.61	0.0250	933.	57.	0.05
MILE 30.10	795.47	38850.	1.16	33627.	919.	10.17	0.0200	666.	55.	0.03
MILE 29.00	795.46	39717.	1.07	37223.	1099.	11.03	0.0200	746.	56.	0.03
MILE 27.30	795.44	41130.	1.07	38530.	1098.	11.40	0.0230	1013.	58.	0.03
MILE 25.20	795.43	42827.	0.90	47542.	1095.	12.22	0.0230	1119.	61.	0.02
MILE 23.10	795.40	44574.	1.14	39171.	1129.	11.65	0.0230	1119.	65.	0.03

ODATE 3-17-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 2.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.91	2000.	2.44	820.	279.	2.31	0.0290	1059.	4.	0.25
MILE 77.70	818.65	3092.	2.09	1482.	235.	2.92	0.0400	1059.	8.	0.15
MILE 75.60	813.93	4223.	2.26	1866.	243.	3.59	0.0400	1059.	7.	0.14
MILE 73.50	810.95	5400.	2.46	2199.	227.	3.92	0.0330	1059.	12.	0.14
MILE 71.40	809.27	6587.	2.18	3025.	298.	3.79	0.0400	1059.	11.	0.12
MILE 69.30	806.16	7798.	2.72	2870.	362.	3.43	0.0340	1059.	7.	0.17
MILE 67.20	802.39	9078.	2.42	3759.	464.	3.61	0.0340	1059.	12.	0.15
MILE 65.10	800.01	10566.	2.40	4399.	582.	4.81	0.0320	1059.	13.	0.15

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 155 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE	63.00	799.13	12144.	2.28	5333.	558.	5.66	0.0400	1059.	18.	0.13
MILE	60.90	797.79	13660.	2.31	5918.	482.	6.59	0.0450	1059.	21.	0.12
MILE	58.80	796.67	13071.	1.93	6756.	426.	6.63	0.0400	-1016.	24.	0.09
MILE	57.00	796.54	14233.	1.90	7476.	470.	6.57	0.0200	958.	22.	0.08
MILE	55.00	796.36	15547.	2.10	7395.	526.	6.89	0.0200	984.	23.	0.10
MILE	53.10	796.26	16835.	1.63	10319.	643.	6.51	0.0200	1009.	23.	0.07
MILE	51.00	796.14	18405.	1.68	10988.	1015.	6.34	0.0200	1211.	27.	0.09
MILE	48.30	795.99	20885.	1.35	15487.	1807.	5.19	0.0200	1211.	27.	0.08
MILE	46.20	795.90	23198.	1.34	17280.	1992.	7.11	0.0200	1059.	34.	0.08
MILE	44.10	795.89	25405.	0.85	29954.	1599.	8.39	0.0300	631.	41.	0.03
MILE	43.70	795.84	25785.	1.68	15368.	1450.	8.35	0.0300	530.	43.	0.09
MILE	42.00	795.71	27363.	1.30	20980.	1407.	6.33	0.0300	1160.	46.	0.06
MILE	39.10	795.46	30137.	1.56	19306.	1419.	8.05	0.0230	1261.	44.	0.07
MILE	37.00	795.42	32047.	0.94	34125.	1170.	7.59	0.0280	782.	44.	0.03
MILE	36.00	795.36	32875.	1.58	20828.	938.	8.51	0.0280	605.	46.	0.06
MILE	34.60	795.33	34053.	1.09	31326.	1277.	9.83	0.0280	605.	47.	0.04
MILE	33.60	795.33	35083.	0.54	65499.	2231.	8.37	0.0290	782.	52.	0.02
MILE	31.50	795.29	37476.	1.18	31633.	1828.	10.57	0.0250	883.	56.	0.05
MILE	30.10	795.26	38765.	1.16	33404.	917.	10.14	0.0200	631.	54.	0.03
MILE	29.00	795.25	39661.	1.07	37014.	1095.	10.99	0.0200	706.	56.	0.03
MILE	27.30	795.24	41108.	1.07	38326.	1094.	11.37	0.0230	958.	58.	0.03
MILE	25.20	795.23	42865.	0.91	47317.	1092.	12.18	0.0230	1059.	61.	0.02
MILE	23.10	795.20	44591.	1.14	38976.	1125.	11.62	0.0230	1059.	65.	0.03

ODATE 3-17-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 3.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	822.91	2000.	2.44	820.	279.	2.31	0.0290	999.	4.	0.25
MILE	77.70	818.56	3033.	2.09	1453.	232.	2.89	0.0400	999.	8.	0.15
MILE	75.60	813.77	4104.	2.25	1823.	239.	3.54	0.0400	999.	7.	0.14
MILE	73.50	810.78	5223.	2.43	2150.	224.	3.87	0.0330	999.	12.	0.14
MILE	71.40	809.11	6353.	2.15	2958.	295.	3.74	0.0400	999.	11.	0.12
MILE	69.30	806.00	7508.	2.69	2795.	360.	3.38	0.0340	999.	7.	0.17
MILE	67.20	802.15	8732.	2.41	3626.	457.	3.54	0.0340	999.	11.	0.15
MILE	65.10	799.71	10173.	2.38	4275.	569.	4.73	0.0320	999.	13.	0.15
MILE	63.00	798.84	11702.	2.24	5218.	544.	5.60	0.0400	999.	18.	0.13
MILE	60.90	797.52	13164.	2.26	5823.	471.	6.53	0.0450	999.	21.	0.11
MILE	58.80	796.44	12538.	1.88	6668.	417.	6.58	0.0400	-1072.	23.	0.08
MILE	57.00	796.31	13679.	1.85	7376.	461.	6.52	0.0200	904.	22.	0.08
MILE	55.00	796.14	14973.	2.05	7307.	518.	6.85	0.0200	928.	23.	0.10
MILE	53.10	796.04	16248.	1.60	10182.	633.	6.45	0.0200	951.	23.	0.07
MILE	51.00	795.92	17832.	1.65	10825.	1002.	6.33	0.0200	1142.	27.	0.09
MILE	48.30	795.77	20392.	1.34	15198.	1778.	5.12	0.0200	1142.	27.	0.08
MILE	46.20	795.69	22729.	1.33	17076.	1964.	7.06	0.0200	999.	34.	0.08
MILE	44.10	795.67	25023.	0.84	29673.	1589.	8.35	0.0300	595.	40.	0.03
MILE	43.70	795.62	25404.	1.67	15231.	1440.	8.30	0.0300	500.	43.	0.09

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 156 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE	42.00	795.50	26892.	1.30	20683.	1398.	6.28	0.0300	1094.	46.	0.06
MILE	39.10	795.28	28783.	1.50	19153.	1411.	8.01	0.0230	1189.	44.	0.07
MILE	37.00	795.29	29421.	0.87	33903.	1166.	7.56	0.0280	737.	44.	0.03
MILE	36.00	795.25	29786.	1.44	20733.	936.	8.48	0.0280	571.	46.	0.05
MILE	34.60	795.24	30290.	0.97	31236.	1275.	9.81	0.0280	571.	47.	0.03
MILE	33.60	795.25	30550.	0.47	65283.	2227.	8.36	0.0290	737.	52.	0.02
MILE	31.50	795.24	30927.	0.98	31588.	1826.	10.56	0.0250	833.	56.	0.04
MILE	30.10	795.24	31353.	0.94	33377.	917.	10.13	0.0200	595.	54.	0.03
MILE	29.00	795.25	31660.	0.86	37006.	1095.	10.99	0.0200	666.	56.	0.03
MILE	27.30	795.26	31979.	0.83	38345.	1095.	11.37	0.0230	904.	58.	0.02
MILE	25.20	795.28	32530.	0.69	47374.	1093.	12.19	0.0230	999.	61.	0.02
MILE	23.10	795.29	33260.	0.85	39064.	1127.	11.63	0.0230	999.	65.	0.03

ODATE 3-17-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 4.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	822.91	2000.	2.44	819.	279.	2.31	0.0290	939.	4.	0.25
MILE	77.70	818.46	2973.	2.09	1425.	229.	2.87	0.0400	939.	8.	0.15
MILE	75.60	813.62	3986.	2.24	1780.	235.	3.49	0.0400	939.	7.	0.14
MILE	73.50	810.60	5046.	2.40	2100.	220.	3.83	0.0330	939.	11.	0.14
MILE	71.40	808.95	6119.	2.12	2891.	292.	3.69	0.0400	939.	11.	0.12
MILE	69.30	805.84	7215.	2.65	2720.	358.	3.32	0.0340	939.	7.	0.17
MILE	67.20	801.91	8378.	2.40	3491.	450.	3.46	0.0340	939.	11.	0.15
MILE	65.10	799.40	9769.	2.36	4144.	554.	4.65	0.0320	939.	12.	0.15
MILE	63.00	798.53	11258.	2.21	5097.	528.	5.54	0.0400	939.	18.	0.13
MILE	60.90	797.23	12686.	2.22	5720.	459.	6.46	0.0450	939.	21.	0.11
MILE	58.80	796.18	12030.	1.83	6567.	408.	6.52	0.0400	-1128.	23.	0.08
MILE	57.00	796.05	13136.	1.81	7262.	451.	6.47	0.0200	849.	21.	0.08
MILE	55.00	795.90	14380.	1.99	7210.	508.	6.81	0.0200	872.	22.	0.09
MILE	53.10	795.81	15565.	1.55	10037.	622.	6.39	0.0200	894.	23.	0.07
MILE	51.00	795.71	16919.	1.59	10670.	990.	6.31	0.0200	1073.	26.	0.09
MILE	48.30	795.61	18546.	1.24	14985.	1756.	5.08	0.0200	1073.	27.	0.07
MILE	46.20	795.57	19654.	1.16	16965.	1949.	7.03	0.0200	939.	34.	0.07
MILE	44.10	795.58	20741.	0.70	29554.	1585.	8.33	0.0300	559.	40.	0.03
MILE	43.70	795.55	20937.	1.38	15185.	1436.	8.29	0.0300	469.	43.	0.07
MILE	42.00	795.49	21678.	1.05	20665.	1397.	6.28	0.0300	1028.	45.	0.05
MILE	39.10	795.35	23204.	1.21	19210.	1414.	8.03	0.0230	1117.	44.	0.06
MILE	37.00	795.31	25068.	0.74	33941.	1167.	7.56	0.0280	693.	44.	0.02
MILE	36.00	795.27	25849.	1.25	20750.	937.	8.49	0.0280	536.	46.	0.05
MILE	34.60	795.25	26904.	0.86	31240.	1275.	9.81	0.0280	536.	47.	0.03
MILE	33.60	795.24	27789.	0.43	65267.	2227.	8.36	0.0290	693.	52.	0.01
MILE	31.50	795.21	29752.	0.94	31560.	1825.	10.55	0.0250	782.	56.	0.04
MILE	30.10	795.19	30763.	0.92	33327.	916.	10.12	0.0200	559.	54.	0.03
MILE	29.00	795.18	31584.	0.85	36943.	1094.	10.98	0.0200	626.	55.	0.03
MILE	27.30	795.16	33074.	0.86	38251.	1093.	11.35	0.0230	849.	58.	0.03
MILE	25.20	795.14	34721.	0.74	47221.	1090.	12.17	0.0230	939.	61.	0.02

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 157 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 23.10 795.10 36389. 0.94 38879. 1122. 11.60 0.0230 939. 65. 0.03

0DATE 3-17-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 5.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.90	2000.	2.44	819.	279.	2.31	0.0290	884.	4.	0.25
MILE 77.70	818.37	2916.	2.09	1398.	226.	2.85	0.0400	884.	8.	0.15
MILE 75.60	813.46	3870.	2.23	1737.	231.	3.44	0.0400	884.	7.	0.14
MILE 73.50	810.43	4872.	2.38	2050.	217.	3.78	0.0330	884.	11.	0.14
MILE 71.40	808.79	5886.	2.08	2824.	289.	3.64	0.0400	884.	11.	0.12
MILE 69.30	805.67	6924.	2.62	2645.	355.	3.27	0.0340	884.	7.	0.17
MILE 67.20	801.66	8027.	2.39	3356.	443.	3.38	0.0340	884.	11.	0.15
MILE 65.10	799.07	9367.	2.34	4008.	539.	4.56	0.0320	884.	12.	0.15
MILE 63.00	798.21	10789.	2.17	4975.	513.	5.48	0.0400	884.	17.	0.12
MILE 60.90	796.97	12077.	2.15	5628.	448.	6.40	0.0450	884.	20.	0.11
MILE 58.80	796.03	11147.	1.71	6509.	403.	6.49	0.0400	-1179.	23.	0.08
MILE 57.00	795.93	11963.	1.66	7207.	446.	6.44	0.0200	800.	21.	0.07
MILE 55.00	795.81	12870.	1.79	7176.	505.	6.79	0.0200	821.	22.	0.08
MILE 53.10	795.74	13755.	1.38	9995.	619.	6.37	0.0200	842.	22.	0.06
MILE 51.00	795.66	14861.	1.40	10629.	987.	6.30	0.0200	1010.	26.	0.08
MILE 48.30	795.54	16898.	1.13	14891.	1747.	5.06	0.0200	1010.	27.	0.07
MILE 46.20	795.47	18869.	1.12	16875.	1936.	7.01	0.0200	884.	34.	0.07
MILE 44.10	795.45	20683.	0.70	29393.	1579.	8.30	0.0300	526.	40.	0.03
MILE 43.70	795.42	21005.	1.39	15102.	1430.	8.26	0.0300	442.	42.	0.08
MILE 42.00	795.32	22434.	1.10	20430.	1390.	6.24	0.0300	968.	45.	0.05
MILE 39.10	795.12	24978.	1.31	19018.	1404.	7.98	0.0230	1053.	44.	0.06
MILE 37.00	795.11	26168.	0.78	33613.	1161.	7.52	0.0280	653.	44.	0.03
MILE 36.00	795.07	26708.	1.30	20582.	933.	8.45	0.0280	505.	46.	0.05
MILE 34.60	795.05	27511.	0.89	31039.	1269.	9.77	0.0280	505.	47.	0.03
MILE 33.60	795.05	28238.	0.44	64747.	2217.	8.31	0.0290	653.	52.	0.01
MILE 31.50	795.03	30019.	0.96	31390.	1818.	10.52	0.0250	737.	56.	0.04
MILE 30.10	795.01	31002.	0.94	33132.	914.	10.09	0.0200	526.	54.	0.03
MILE 29.00	795.01	31631.	0.86	36767.	1090.	10.94	0.0200	589.	55.	0.03
MILE 27.30	795.01	32571.	0.85	38094.	1090.	11.32	0.0230	800.	58.	0.03
MILE 25.20	795.01	33887.	0.72	47074.	1088.	12.14	0.0230	884.	61.	0.02
MILE 23.10	795.01	34904.	0.90	38792.	1120.	11.58	0.0230	884.	65.	0.03

0DATE 3-17-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 6.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80 822.90 2000. 2.45 817. 279. 2.31 0.0290 830. 4. 0.25

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 158 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 77.70	818.28	2862.	2.09	1372.	224.	2.83	0.0400	830.	8.	0.15
MILE 75.60	813.32	3759.	2.22	1697.	227.	3.39	0.0400	830.	7.	0.14
MILE 73.50	810.26	4704.	2.35	2001.	213.	3.74	0.0330	830.	11.	0.14
MILE 71.40	808.63	5664.	2.05	2759.	286.	3.59	0.0400	830.	11.	0.12
MILE 69.30	805.52	6649.	2.58	2573.	354.	3.21	0.0340	830.	7.	0.17
MILE 67.20	801.43	7693.	2.38	3229.	436.	3.30	0.0340	830.	11.	0.15
MILE 65.10	798.78	8932.	2.30	3888.	526.	4.48	0.0320	830.	12.	0.15
MILE 63.00	797.95	10215.	2.10	4874.	500.	5.42	0.0400	830.	17.	0.12
MILE 60.90	796.77	11432.	2.06	5561.	440.	6.36	0.0450	830.	20.	0.10
MILE 58.80	795.88	10618.	1.65	6453.	397.	6.45	0.0400	-1230.	23.	0.07
MILE 57.00	795.78	11602.	1.63	7139.	440.	6.41	0.0200	751.	21.	0.07
MILE 55.00	795.64	12708.	1.79	7109.	499.	6.76	0.0200	770.	22.	0.08
MILE 53.10	795.56	13800.	1.40	9883.	610.	6.33	0.0200	790.	22.	0.06
MILE 51.00	795.47	15149.	1.44	10492.	976.	6.29	0.0200	948.	26.	0.08
MILE 48.30	795.36	17116.	1.17	14652.	1723.	5.00	0.0200	948.	26.	0.07
MILE 46.20	795.30	18698.	1.12	16717.	1915.	6.97	0.0200	830.	34.	0.07
MILE 44.10	795.29	20409.	0.70	29191.	1572.	8.27	0.0300	494.	40.	0.03
MILE 43.70	795.26	20692.	1.38	15006.	1423.	8.23	0.0300	415.	42.	0.07
MILE 42.00	795.18	21751.	1.07	20244.	1384.	6.20	0.0300	909.	45.	0.05
MILE 39.10	795.03	23227.	1.23	18941.	1401.	7.96	0.0230	988.	44.	0.06
MILE 37.00	795.01	24621.	0.74	33457.	1158.	7.49	0.0280	612.	44.	0.02
MILE 36.00	794.98	25205.	1.23	20505.	931.	8.43	0.0280	474.	46.	0.05
MILE 34.60	794.96	25979.	0.84	30950.	1266.	9.76	0.0280	474.	46.	0.03
MILE 33.60	794.97	26611.	0.41	64512.	2212.	8.29	0.0290	612.	52.	0.01
MILE 31.50	794.95	28025.	0.89	31313.	1814.	10.50	0.0250	691.	56.	0.04
MILE 30.10	794.93	28754.	0.87	33047.	912.	10.08	0.0200	494.	54.	0.03
MILE 29.00	794.93	29323.	0.80	36686.	1088.	10.93	0.0200	553.	55.	0.02
MILE 27.30	794.92	30264.	0.80	38013.	1087.	11.31	0.0230	751.	58.	0.02
MILE 25.20	794.92	31295.	0.67	46977.	1085.	12.13	0.0230	830.	60.	0.02
MILE 23.10	794.90	32584.	0.84	38687.	1116.	11.56	0.0230	830.	65.	0.03

ODATE 3-17-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 7.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.90	2000.	2.45	817.	279.	2.31	0.0290	788.	4.	0.25
MILE 77.70	818.20	2814.	2.09	1349.	221.	2.81	0.0400	788.	8.	0.15
MILE 75.60	813.18	3661.	2.21	1659.	224.	3.35	0.0400	788.	7.	0.14
MILE 73.50	810.10	4554.	2.33	1957.	210.	3.70	0.0330	788.	11.	0.13
MILE 71.40	808.48	5461.	2.02	2699.	283.	3.54	0.0400	788.	11.	0.12
MILE 69.30	805.37	6389.	2.55	2507.	352.	3.16	0.0340	788.	7.	0.17
MILE 67.20	801.22	7368.	2.37	3109.	429.	3.23	0.0340	788.	11.	0.16
MILE 65.10	798.49	8548.	2.27	3766.	512.	4.40	0.0320	788.	11.	0.15
MILE 63.00	797.66	9816.	2.06	4762.	485.	5.36	0.0400	788.	17.	0.12
MILE 60.90	796.50	11014.	2.02	5466.	429.	6.30	0.0450	788.	20.	0.10
MILE 58.80	795.65	10095.	1.59	6367.	389.	6.40	0.0400	-1269.	23.	0.07
MILE 57.00	795.56	10964.	1.56	7045.	432.	6.36	0.0200	713.	21.	0.07

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 55.00	795.45	11949.	1.70	7033.	491.	6.72	0.0200	731.	22.	0.08
MILE 53.10	795.39	12902.	1.32	9773.	602.	6.28	0.0200	750.	22.	0.06
MILE 51.00	795.31	14039.	1.35	10379.	967.	6.28	0.0200	900.	26.	0.07
MILE 48.30	795.22	15761.	1.09	14475.	1705.	4.97	0.0200	900.	26.	0.07
MILE 46.20	795.17	17478.	1.05	16594.	1898.	6.94	0.0200	788.	33.	0.06
MILE 44.10	795.16	18973.	0.65	29025.	1566.	8.24	0.0300	469.	40.	0.03
MILE 43.70	795.14	19238.	1.29	14927.	1417.	8.20	0.0300	394.	42.	0.07
MILE 42.00	795.06	20374.	1.01	20078.	1379.	6.18	0.0300	863.	45.	0.05
MILE 39.10	794.91	22561.	1.20	18831.	1395.	7.94	0.0230	938.	44.	0.06
MILE 37.00	794.88	24013.	0.72	33240.	1153.	7.46	0.0280	581.	44.	0.02
MILE 36.00	794.84	24657.	1.21	20394.	927.	8.42	0.0280	450.	46.	0.05
MILE 34.60	794.83	25584.	0.83	30810.	1261.	9.74	0.0280	450.	46.	0.03
MILE 33.60	794.83	26377.	0.41	64134.	2201.	8.27	0.0290	581.	52.	0.01
MILE 31.50	794.80	28191.	0.90	31182.	1805.	10.48	0.0250	656.	56.	0.04
MILE 30.10	794.78	29260.	0.89	32888.	907.	10.05	0.0200	469.	54.	0.03
MILE 29.00	794.78	29974.	0.82	36531.	1082.	10.90	0.0200	525.	55.	0.02
MILE 27.30	794.77	31102.	0.82	37858.	1082.	11.29	0.0230	713.	58.	0.02
MILE 25.20	794.76	32540.	0.70	46801.	1079.	12.11	0.0230	788.	60.	0.02
MILE 23.10	794.74	33863.	0.88	38534.	1110.	11.54	0.0230	788.	65.	0.03

ODATE 3-17-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 8.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.89	2000.	2.46	814.	278.	2.30	0.0290	746.	4.	0.25
MILE 77.70	818.14	2773.	2.09	1329.	219.	2.79	0.0400	746.	7.	0.15
MILE 75.60	813.06	3576.	2.20	1627.	221.	3.31	0.0400	746.	7.	0.14
MILE 73.50	809.96	4419.	2.31	1917.	207.	3.66	0.0330	746.	11.	0.13
MILE 71.40	808.34	5274.	2.00	2643.	281.	3.49	0.0400	746.	11.	0.11
MILE 69.30	805.24	6149.	2.52	2444.	350.	3.12	0.0340	746.	7.	0.17
MILE 67.20	801.01	7072.	2.36	2997.	423.	3.16	0.0340	746.	10.	0.16
MILE 65.10	798.19	8187.	2.25	3644.	499.	4.32	0.0320	746.	11.	0.15
MILE 63.00	797.38	9366.	2.01	4655.	471.	5.31	0.0400	746.	16.	0.11
MILE 60.90	796.28	10468.	1.94	5388.	420.	6.25	0.0450	746.	20.	0.10
MILE 58.80	795.49	9484.	1.50	6305.	384.	6.37	0.0400	-1308.	22.	0.07
MILE 57.00	795.41	10317.	1.48	6976.	426.	6.32	0.0200	675.	21.	0.06
MILE 55.00	795.30	11256.	1.61	6974.	486.	6.70	0.0200	692.	22.	0.08
MILE 53.10	795.24	12184.	1.26	9678.	595.	6.24	0.0200	710.	22.	0.06
MILE 51.00	795.16	13369.	1.30	10266.	958.	6.26	0.0200	852.	26.	0.07
MILE 48.30	795.06	15373.	1.08	14255.	1683.	4.92	0.0200	852.	26.	0.07
MILE 46.20	795.00	17130.	1.04	16438.	1876.	6.90	0.0200	746.	33.	0.06
MILE 44.10	794.99	18952.	0.66	28801.	1557.	8.21	0.0300	444.	40.	0.03
MILE 43.70	794.96	19260.	1.30	14819.	1408.	8.17	0.0300	373.	42.	0.07
MILE 42.00	794.88	20510.	1.03	19834.	1370.	6.16	0.0300	817.	45.	0.05
MILE 39.10	794.73	22431.	1.20	18683.	1386.	7.92	0.0230	888.	44.	0.06
MILE 37.00	794.72	23603.	0.72	32973.	1147.	7.43	0.0280	550.	43.	0.02
MILE 36.00	794.68	24143.	1.19	20262.	922.	8.40	0.0280	426.	46.	0.04

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MILE 34.60	794.67	24934.	0.81	30653.	1254.	9.72	0.0280	426.	46.	0.03
MILE 33.60	794.67	25594.	0.40	63716.	2190.	8.24	0.0290	550.	52.	0.01
MILE 31.50	794.65	27058.	0.87	31047.	1796.	10.46	0.0250	621.	56.	0.04
MILE 30.10	794.64	27862.	0.85	32740.	903.	10.02	0.0200	444.	54.	0.02
MILE 29.00	794.64	28425.	0.78	36394.	1077.	10.88	0.0200	497.	55.	0.02
MILE 27.30	794.64	29299.	0.78	37728.	1077.	11.27	0.0230	675.	58.	0.02
MILE 25.20	794.64	30324.	0.65	46666.	1075.	12.09	0.0230	746.	60.	0.02
MILE 23.10	794.63	31422.	0.82	38429.	1106.	11.52	0.0230	746.	65.	0.02

ODATE 3-17-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 9.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.87	2000.	2.47	810.	278.	2.30	0.0290	710.	4.	0.25
MILE 77.70	818.07	2735.	2.09	1311.	217.	2.77	0.0400	710.	7.	0.15
MILE 75.60	812.95	3497.	2.19	1597.	218.	3.27	0.0400	710.	6.	0.14
MILE 73.50	809.82	4294.	2.28	1880.	204.	3.62	0.0330	710.	11.	0.13
MILE 71.40	808.22	5104.	1.97	2592.	278.	3.45	0.0400	710.	10.	0.11
MILE 69.30	805.11	5932.	2.49	2387.	348.	3.07	0.0340	710.	6.	0.17
MILE 67.20	800.83	6801.	2.35	2895.	418.	3.09	0.0340	710.	10.	0.16
MILE 65.10	797.91	7845.	2.22	3531.	486.	4.24	0.0320	710.	11.	0.15
MILE 63.00	797.11	8965.	1.97	4553.	458.	5.25	0.0400	710.	16.	0.11
MILE 60.90	796.04	10050.	1.89	5304.	410.	6.19	0.0450	710.	20.	0.09
MILE 58.80	795.28	9080.	1.46	6225.	376.	6.32	0.0400	-1341.	22.	0.06
MILE 57.00	795.20	9922.	1.44	6884.	418.	6.28	0.0200	642.	20.	0.06
MILE 55.00	795.10	10883.	1.58	6894.	478.	6.66	0.0200	659.	22.	0.07
MILE 53.10	795.04	11836.	1.24	9553.	586.	6.19	0.0200	676.	22.	0.05
MILE 51.00	794.97	13019.	1.28	10134.	948.	6.25	0.0200	811.	26.	0.07
MILE 48.30	794.88	14752.	1.05	14034.	1669.	4.90	0.0200	811.	26.	0.06
MILE 46.20	794.84	16353.	1.00	16286.	1866.	6.87	0.0200	710.	33.	0.06
MILE 44.10	794.83	17889.	0.63	28608.	1549.	8.18	0.0300	422.	40.	0.03
MILE 43.70	794.81	18152.	1.23	14733.	1401.	8.18	0.0300	355.	42.	0.07
MILE 42.00	794.74	19218.	0.98	19652.	1364.	6.16	0.0300	777.	45.	0.05
MILE 39.10	794.60	21190.	1.14	18574.	1380.	7.91	0.0230	845.	44.	0.05
MILE 37.00	794.57	22916.	0.70	32731.	1141.	7.39	0.0280	524.	43.	0.02
MILE 36.00	794.53	23620.	1.17	20137.	917.	8.39	0.0280	405.	46.	0.04
MILE 34.60	794.51	24589.	0.81	30494.	1248.	9.70	0.0280	405.	46.	0.03
MILE 33.60	794.51	25482.	0.40	63283.	2178.	8.21	0.0290	524.	52.	0.01
MILE 31.50	794.48	27610.	0.89	30891.	1786.	10.44	0.0250	591.	56.	0.04
MILE 30.10	794.46	28659.	0.88	32553.	897.	9.99	0.0200	422.	54.	0.03
MILE 29.00	794.46	29407.	0.81	36210.	1070.	10.85	0.0200	473.	55.	0.02
MILE 27.30	794.44	30695.	0.82	37538.	1070.	11.24	0.0230	642.	57.	0.02
MILE 25.20	794.43	32206.	0.69	46437.	1067.	12.06	0.0230	710.	60.	0.02
MILE 23.10	794.40	33674.	0.88	38210.	1098.	11.49	0.0230	710.	64.	0.03

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

0DATE 3-17-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 10.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.86	2000.	2.48	806.	278.	2.30	0.0290	673.	4.	0.26
MILE 77.70	818.01	2699.	2.09	1293.	216.	2.76	0.0400	673.	7.	0.15
MILE 75.60	812.85	3422.	2.18	1569.	215.	3.24	0.0400	673.	6.	0.14
MILE 73.50	809.70	4179.	2.26	1846.	202.	3.59	0.0330	673.	10.	0.13
MILE 71.40	808.10	4946.	1.94	2544.	276.	3.41	0.0400	673.	10.	0.11
MILE 69.30	805.00	5729.	2.46	2334.	347.	3.03	0.0340	673.	6.	0.17
MILE 67.20	800.65	6553.	2.34	2800.	412.	3.03	0.0340	673.	10.	0.16
MILE 65.10	797.64	7543.	2.21	3417.	473.	4.16	0.0320	673.	11.	0.14
MILE 63.00	796.83	8618.	1.94	4450.	445.	5.19	0.0400	673.	16.	0.11
MILE 60.90	795.80	9641.	1.85	5219.	400.	6.14	0.0450	673.	19.	0.09
MILE 58.80	795.08	8575.	1.39	6150.	369.	6.28	0.0400	-1375.	22.	0.06
MILE 57.00	795.01	9339.	1.37	6801.	410.	6.23	0.0200	609.	20.	0.06
MILE 55.00	794.92	10214.	1.50	6824.	473.	6.63	0.0200	625.	21.	0.07
MILE 53.10	794.86	11090.	1.17	9445.	581.	6.15	0.0200	641.	22.	0.05
MILE 51.00	794.79	12233.	1.22	10045.	943.	6.22	0.0200	769.	26.	0.07
MILE 48.30	794.70	14288.	1.03	13813.	1659.	4.90	0.0200	769.	26.	0.06
MILE 46.20	794.64	16307.	1.01	16112.	1854.	6.84	0.0200	673.	33.	0.06
MILE 44.10	794.63	18216.	0.64	28362.	1539.	8.15	0.0300	401.	39.	0.03
MILE 43.70	794.60	18536.	1.27	14620.	1391.	8.19	0.0300	337.	42.	0.07
MILE 42.00	794.52	19834.	1.02	19373.	1354.	6.16	0.0300	737.	45.	0.05
MILE 39.10	794.38	21660.	1.18	18392.	1370.	7.89	0.0230	802.	43.	0.06
MILE 37.00	794.38	22264.	0.69	32438.	1134.	7.35	0.0280	497.	43.	0.02
MILE 36.00	794.36	22572.	1.13	20000.	912.	8.37	0.0280	385.	45.	0.04
MILE 34.60	794.36	23026.	0.76	30343.	1241.	9.68	0.0280	385.	46.	0.03
MILE 33.60	794.36	23367.	0.37	62895.	2168.	8.18	0.0290	497.	51.	0.01
MILE 31.50	794.36	24116.	0.78	30781.	1778.	10.42	0.0250	561.	56.	0.03
MILE 30.10	794.36	24611.	0.76	32443.	894.	9.97	0.0200	401.	54.	0.02
MILE 29.00	794.36	24920.	0.69	36116.	1067.	10.84	0.0200	449.	55.	0.02
MILE 27.30	794.37	25300.	0.68	37468.	1067.	11.23	0.0230	609.	57.	0.02
MILE 25.20	794.39	25943.	0.56	46392.	1066.	12.05	0.0230	673.	60.	0.01
MILE 23.10	794.40	26584.	0.70	38210.	1098.	11.49	0.0230	673.	64.	0.02

0DATE 3-17-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 11.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.84	2000.	2.49	802.	277.	2.29	0.0290	633.	4.	0.26
MILE 77.70	817.95	2660.	2.09	1276.	214.	2.74	0.0400	633.	7.	0.15
MILE 75.60	812.75	3344.	2.17	1541.	213.	3.20	0.0400	633.	6.	0.14
MILE 73.50	809.57	4062.	2.24	1812.	199.	3.55	0.0330	633.	10.	0.13
MILE 71.40	807.98	4790.	1.92	2496.	274.	3.38	0.0400	633.	10.	0.11

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 162 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 69.30	804.88	5535.	2.43	2276.	343.	3.00	0.0340	633.	6.	0.17
MILE 67.20	800.49	6318.	2.33	2713.	408.	2.97	0.0340	633.	10.	0.16
MILE 65.10	797.36	7250.	2.19	3307.	461.	4.08	0.0320	633.	10.	0.14
MILE 63.00	796.57	8267.	1.90	4351.	431.	5.14	0.0400	633.	16.	0.11
MILE 60.90	795.56	9278.	1.81	5134.	390.	6.08	0.0450	633.	19.	0.09
MILE 58.80	794.85	8276.	1.37	6062.	364.	6.24	0.0400	-1412.	22.	0.06
MILE 57.00	794.78	9096.	1.36	6700.	407.	6.18	0.0200	573.	20.	0.06
MILE 55.00	794.68	10024.	1.49	6735.	469.	6.60	0.0200	588.	21.	0.07
MILE 53.10	794.63	10924.	1.17	9304.	577.	6.11	0.0200	603.	21.	0.05
MILE 51.00	794.58	11997.	1.21	9932.	936.	6.19	0.0200	724.	25.	0.07
MILE 48.30	794.52	13363.	0.98	13598.	1649.	4.90	0.0200	724.	26.	0.06
MILE 46.20	794.50	14341.	0.90	15981.	1845.	6.82	0.0200	633.	33.	0.05
MILE 44.10	794.50	15377.	0.55	28214.	1532.	8.13	0.0300	377.	39.	0.02
MILE 43.70	794.49	15543.	1.07	14559.	1386.	8.20	0.0300	317.	41.	0.06
MILE 42.00	794.46	16057.	0.83	19298.	1351.	6.16	0.0300	693.	44.	0.04
MILE 39.10	794.42	16234.	0.88	18430.	1372.	7.90	0.0230	754.	43.	0.04
MILE 37.00	794.44	16341.	0.50	32535.	1137.	7.36	0.0280	467.	43.	0.02
MILE 36.00	794.44	16449.	0.82	20065.	915.	8.38	0.0280	362.	45.	0.03
MILE 34.60	794.45	16554.	0.54	30438.	1245.	9.69	0.0280	362.	46.	0.02
MILE 33.60	794.46	16442.	0.26	63158.	2175.	8.20	0.0290	467.	52.	0.01
MILE 31.50	794.47	15905.	0.51	30885.	1785.	10.44	0.0250	528.	56.	0.02
MILE 30.10	794.48	15819.	0.49	32575.	898.	10.00	0.0200	377.	54.	0.01
MILE 29.00	794.49	15852.	0.44	36248.	1072.	10.86	0.0200	422.	55.	0.01
MILE 27.30	794.51	15822.	0.42	37605.	1072.	11.25	0.0230	573.	57.	0.01
MILE 25.20	794.53	15757.	0.34	46551.	1071.	12.07	0.0230	633.	60.	0.01
MILE 23.10	794.54	16088.	0.42	38344.	1103.	11.51	0.0230	633.	65.	0.01

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TIME 12.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.83	2000.	2.50	799.	277.	2.29	0.0290	593.	4.	0.26
MILE 77.70	817.88	2619.	2.08	1257.	212.	2.73	0.0400	593.	7.	0.15
MILE 75.60	812.64	3263.	2.16	1511.	210.	3.17	0.0400	593.	6.	0.14
MILE 73.50	809.44	3942.	2.22	1776.	197.	3.51	0.0330	593.	10.	0.13
MILE 71.40	807.86	4631.	1.89	2446.	271.	3.33	0.0400	593.	10.	0.11
MILE 69.30	804.76	5338.	2.41	2217.	339.	2.96	0.0340	593.	6.	0.17
MILE 67.20	800.33	6079.	2.31	2626.	403.	2.91	0.0340	593.	10.	0.16
MILE 65.10	797.08	6974.	2.18	3192.	448.	4.00	0.0320	593.	10.	0.14
MILE 63.00	796.29	7962.	1.87	4247.	418.	5.08	0.0400	593.	15.	0.10
MILE 60.90	795.32	8860.	1.75	5051.	380.	6.03	0.0450	593.	19.	0.08
MILE 58.80	794.69	7592.	1.26	6002.	362.	6.22	0.0400	-1449.	22.	0.05
MILE 57.00	794.64	8154.	1.23	6643.	405.	6.15	0.0200	536.	20.	0.05
MILE 55.00	794.59	8767.	1.31	6698.	468.	6.58	0.0200	551.	21.	0.06
MILE 53.10	794.57	9294.	1.00	9264.	576.	6.10	0.0200	565.	21.	0.04
MILE 51.00	794.55	9751.	0.98	9918.	935.	6.19	0.0200	678.	25.	0.05
MILE 48.30	794.54	9939.	0.73	13630.	1651.	4.90	0.0200	678.	26.	0.04

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
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MILE 46.20	794.55	9922.	0.62	16030.	1848.	6.82	0.0200	593.	33.	0.04
MILE 44.10	794.57	9783.	0.35	28294.	1536.	8.14	0.0300	353.	39.	0.01
MILE 43.70	794.57	9801.	0.67	14601.	1390.	8.19	0.0300	296.	42.	0.04
MILE 42.00	794.56	10037.	0.52	19428.	1356.	6.16	0.0300	649.	45.	0.02
MILE 39.10	794.51	11521.	0.62	18502.	1376.	7.90	0.0230	706.	44.	0.03
MILE 37.00	794.48	13169.	0.40	32586.	1138.	7.37	0.0280	438.	43.	0.01
MILE 36.00	794.46	13875.	0.69	20077.	915.	8.38	0.0280	339.	45.	0.03
MILE 34.60	794.44	14881.	0.49	30424.	1245.	9.69	0.0280	339.	46.	0.02
MILE 33.60	794.43	15782.	0.25	63081.	2173.	8.19	0.0290	438.	52.	0.01
MILE 31.50	794.41	17842.	0.58	30827.	1781.	10.43	0.0250	494.	56.	0.02
MILE 30.10	794.39	18928.	0.58	32479.	895.	9.98	0.0200	353.	54.	0.02
MILE 29.00	794.38	19717.	0.55	36135.	1068.	10.84	0.0200	395.	55.	0.02
MILE 27.30	794.36	21149.	0.56	37459.	1067.	11.23	0.0230	536.	57.	0.02
MILE 25.20	794.33	22863.	0.49	46335.	1064.	12.05	0.0230	593.	60.	0.01
MILE 23.10	794.30	24230.	0.64	38115.	1094.	11.47	0.0230	593.	64.	0.02

ODATE 3-17-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 13.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.82	2000.	2.51	797.	277.	2.28	0.0290	555.	4.	0.26
MILE 77.70	817.82	2579.	2.08	1238.	210.	2.71	0.0400	555.	7.	0.15
MILE 75.60	812.53	3182.	2.15	1482.	207.	3.13	0.0400	555.	6.	0.14
MILE 73.50	809.30	3821.	2.20	1740.	194.	3.47	0.0330	555.	10.	0.13
MILE 71.40	807.74	4472.	1.87	2396.	269.	3.29	0.0400	555.	10.	0.11
MILE 69.30	804.64	5143.	2.38	2158.	335.	2.92	0.0340	555.	6.	0.17
MILE 67.20	800.18	5852.	2.30	2545.	398.	2.86	0.0340	555.	9.	0.16
MILE 65.10	796.84	6677.	2.16	3096.	437.	3.93	0.0320	555.	10.	0.14
MILE 63.00	796.11	7483.	1.79	4181.	409.	5.04	0.0400	555.	15.	0.10
MILE 60.90	795.28	8099.	1.61	5039.	379.	6.02	0.0450	555.	19.	0.08
MILE 58.80	794.80	6515.	1.08	6043.	364.	6.24	0.0400	-1485.	22.	0.05
MILE 57.00	794.77	6834.	1.02	6697.	407.	6.18	0.0200	502.	20.	0.04
MILE 55.00	794.73	7198.	1.07	6751.	470.	6.60	0.0200	515.	21.	0.05
MILE 53.10	794.69	7637.	0.82	9340.	578.	6.12	0.0200	529.	21.	0.04
MILE 51.00	794.64	8364.	0.84	9963.	938.	6.20	0.0200	634.	25.	0.05
MILE 48.30	794.54	10231.	0.75	13625.	1651.	4.90	0.0200	634.	26.	0.05
MILE 46.20	794.49	11731.	0.73	15981.	1845.	6.82	0.0200	555.	33.	0.04
MILE 44.10	794.46	13349.	0.47	28164.	1530.	8.12	0.0300	330.	39.	0.02
MILE 43.70	794.44	13629.	0.94	14535.	1384.	8.20	0.0300	278.	41.	0.05
MILE 42.00	794.37	14866.	0.77	19186.	1347.	6.16	0.0300	608.	44.	0.04
MILE 39.10	794.24	17072.	0.93	18277.	1364.	7.88	0.0230	661.	43.	0.04
MILE 37.00	794.22	18221.	0.57	32174.	1128.	7.31	0.0280	410.	43.	0.02
MILE 36.00	794.19	18683.	0.94	19864.	907.	8.36	0.0280	317.	45.	0.04
MILE 34.60	794.17	19381.	0.64	30156.	1233.	9.65	0.0280	317.	46.	0.02
MILE 33.60	794.17	20149.	0.32	62364.	2153.	8.14	0.0290	410.	51.	0.01
MILE 31.50	794.14	22213.	0.73	30587.	1765.	10.39	0.0250	462.	55.	0.03
MILE 30.10	794.13	23124.	0.72	32204.	887.	9.93	0.0200	330.	53.	0.02

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MILE	29.00	794.12	23718.	0.66	35876.	1058.	10.80	0.0200	370.	54.	0.02
MILE	27.30	794.11	24703.	0.66	37210.	1058.	11.19	0.0230	502.	57.	0.02
MILE	25.20	794.10	25909.	0.56	46079.	1056.	12.01	0.0230	555.	60.	0.01
MILE	23.10	794.10	26906.	0.71	37925.	1087.	11.44	0.0230	555.	64.	0.02

ODATE 3-17-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 14.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	822.81	2000.	2.52	795.	277.	2.28	0.0290	517.	4.	0.26
MILE	77.70	817.75	2540.	2.08	1221.	208.	2.70	0.0400	517.	7.	0.15
MILE	75.60	812.42	3105.	2.14	1453.	205.	3.09	0.0400	517.	6.	0.14
MILE	73.50	809.17	3707.	2.17	1705.	191.	3.44	0.0330	517.	10.	0.13
MILE	71.40	807.62	4324.	1.84	2348.	267.	3.25	0.0400	517.	10.	0.11
MILE	69.30	804.53	4965.	2.36	2104.	332.	2.89	0.0340	517.	6.	0.17
MILE	67.20	800.05	5635.	2.28	2475.	395.	2.81	0.0340	517.	9.	0.16
MILE	65.10	796.70	6358.	2.09	3038.	430.	3.88	0.0320	517.	10.	0.14
MILE	63.00	796.00	7091.	1.71	4142.	404.	5.01	0.0400	517.	15.	0.09
MILE	60.90	795.19	7920.	1.58	5006.	375.	5.99	0.0450	517.	19.	0.08
MILE	58.80	794.65	6843.	1.14	5984.	362.	6.22	0.0400	-1520.	22.	0.05
MILE	57.00	794.59	7597.	1.15	6618.	404.	6.14	0.0200	468.	20.	0.05
MILE	55.00	794.51	8461.	1.27	6670.	466.	6.57	0.0200	480.	21.	0.06
MILE	53.10	794.46	9355.	1.02	9199.	574.	6.08	0.0200	492.	21.	0.04
MILE	51.00	794.40	10532.	1.07	9841.	930.	6.17	0.0200	591.	25.	0.06
MILE	48.30	794.32	12270.	0.92	13370.	1638.	4.90	0.0200	591.	25.	0.06
MILE	46.20	794.28	13949.	0.88	15787.	1831.	6.78	0.0200	517.	32.	0.05
MILE	44.10	794.26	15621.	0.56	27927.	1520.	8.09	0.0300	308.	39.	0.02
MILE	43.70	794.25	15882.	1.10	14428.	1375.	8.21	0.0300	259.	41.	0.06
MILE	42.00	794.19	16798.	0.89	18961.	1339.	6.16	0.0300	566.	44.	0.04
MILE	39.10	794.11	17675.	0.97	18168.	1358.	7.87	0.0230	616.	43.	0.05
MILE	37.00	794.11	18203.	0.57	31995.	1124.	7.29	0.0280	382.	43.	0.02
MILE	36.00	794.10	18419.	0.93	19787.	904.	8.35	0.0280	295.	45.	0.04
MILE	34.60	794.10	18650.	0.62	30087.	1230.	9.64	0.0280	295.	46.	0.02
MILE	33.60	794.11	18772.	0.30	62206.	2149.	8.13	0.0290	382.	51.	0.01
MILE	31.50	794.11	18999.	0.62	30554.	1763.	10.39	0.0250	431.	55.	0.03
MILE	30.10	794.11	19174.	0.60	32183.	886.	9.93	0.0200	308.	53.	0.02
MILE	29.00	794.12	19295.	0.54	35869.	1058.	10.80	0.0200	345.	54.	0.02
MILE	27.30	794.13	19387.	0.52	37227.	1059.	11.19	0.0230	468.	57.	0.02
MILE	25.20	794.14	19591.	0.42	46122.	1057.	12.02	0.0230	517.	60.	0.01
MILE	23.10	794.14	20087.	0.53	37963.	1088.	11.45	0.0230	517.	64.	0.02

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Appendix F		Checked	ACM

TIME 15.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.81	2000.	2.52	793.	277.	2.28	0.0290	491.	4.	0.26
MILE 77.70	817.70	2510.	2.08	1206.	206.	2.68	0.0400	491.	7.	0.15
MILE 75.60	812.33	3043.	2.13	1428.	202.	3.06	0.0400	491.	6.	0.14
MILE 73.50	809.05	3610.	2.16	1674.	189.	3.40	0.0330	491.	10.	0.13
MILE 71.40	807.51	4191.	1.82	2305.	265.	3.22	0.0400	491.	10.	0.11
MILE 69.30	804.42	4789.	2.33	2052.	328.	2.86	0.0340	491.	6.	0.16
MILE 67.20	799.91	5409.	2.26	2393.	389.	2.77	0.0340	491.	9.	0.16
MILE 65.10	796.46	6136.	2.09	2941.	419.	3.81	0.0320	491.	9.	0.14
MILE 63.00	795.73	7001.	1.73	4042.	390.	4.95	0.0400	491.	15.	0.09
MILE 60.90	794.88	7862.	1.60	4901.	366.	5.92	0.0450	491.	18.	0.08
MILE 58.80	794.34	6664.	1.14	5868.	358.	6.18	0.0400	-1544.	21.	0.05
MILE 57.00	794.29	7335.	1.13	6491.	400.	6.08	0.0200	444.	19.	0.05
MILE 55.00	794.23	8105.	1.23	6564.	462.	6.54	0.0200	456.	21.	0.06
MILE 53.10	794.21	8811.	0.97	9046.	569.	6.03	0.0200	467.	21.	0.04
MILE 51.00	794.19	9574.	0.98	9733.	924.	6.14	0.0200	561.	25.	0.05
MILE 48.30	794.17	10473.	0.79	13199.	1630.	4.91	0.0200	561.	25.	0.05
MILE 46.20	794.17	11327.	0.72	15689.	1824.	6.76	0.0200	491.	32.	0.04
MILE 44.10	794.18	11977.	0.43	27827.	1516.	8.07	0.0300	292.	39.	0.02
MILE 43.70	794.17	12100.	0.84	14391.	1371.	8.22	0.0300	245.	41.	0.05
MILE 42.00	794.16	12639.	0.67	18925.	1337.	6.16	0.0300	537.	44.	0.03
MILE 39.10	794.10	14086.	0.78	18164.	1357.	7.87	0.0230	584.	43.	0.04
MILE 37.00	794.08	15396.	0.48	31949.	1123.	7.28	0.0280	362.	43.	0.02
MILE 36.00	794.06	15985.	0.81	19759.	903.	8.35	0.0280	280.	45.	0.03
MILE 34.60	794.05	16824.	0.56	30037.	1228.	9.64	0.0280	280.	46.	0.02
MILE 33.60	794.05	17497.	0.28	62055.	2145.	8.12	0.0290	362.	51.	0.01
MILE 31.50	794.04	18879.	0.62	30491.	1759.	10.38	0.0250	409.	55.	0.03
MILE 30.10	794.02	19735.	0.61	32094.	884.	9.91	0.0200	292.	53.	0.02
MILE 29.00	794.02	20347.	0.57	35771.	1055.	10.78	0.0200	327.	54.	0.02
MILE 27.30	794.01	21389.	0.58	37112.	1054.	11.17	0.0230	444.	57.	0.02
MILE 25.20	794.00	22601.	0.49	45967.	1052.	12.00	0.0230	491.	59.	0.01
MILE 23.10	793.97	23801.	0.63	37802.	1082.	11.42	0.0230	491.	64.	0.02

ODATE 3-17-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 16.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.78	2000.	2.54	787.	276.	2.27	0.0290	464.	4.	0.27
MILE 77.70	817.66	2487.	2.08	1195.	205.	2.67	0.0400	464.	7.	0.15
MILE 75.60	812.26	2992.	2.12	1408.	200.	3.03	0.0400	464.	6.	0.14
MILE 73.50	808.95	3523.	2.14	1646.	187.	3.37	0.0330	464.	10.	0.13
MILE 71.40	807.41	4065.	1.80	2264.	263.	3.18	0.0400	464.	10.	0.11
MILE 69.30	804.31	4621.	2.31	2001.	325.	2.83	0.0340	464.	6.	0.16
MILE 67.20	799.76	5207.	2.26	2304.	382.	2.74	0.0340	464.	9.	0.16
MILE 65.10	796.18	5909.	2.09	2831.	406.	3.72	0.0320	464.	9.	0.14

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MILE	63.00	795.48	6689.	1.69	3949.	378.	4.90	0.0400	464.	14.	0.09
MILE	60.90	794.71	7339.	1.52	4842.	364.	5.88	0.0450	464.	18.	0.07
MILE	58.80	794.26	5844.	1.00	5839.	357.	6.17	0.0400	-1569.	21.	0.04
MILE	57.00	794.23	6244.	0.97	6466.	399.	6.07	0.0200	420.	19.	0.04
MILE	55.00	794.20	6699.	1.02	6549.	461.	6.53	0.0200	431.	21.	0.05
MILE	53.10	794.17	7185.	0.80	9022.	568.	6.03	0.0200	442.	21.	0.04
MILE	51.00	794.14	7903.	0.81	9706.	922.	6.13	0.0200	530.	25.	0.04
MILE	48.30	794.08	9526.	0.73	13088.	1625.	4.91	0.0200	530.	25.	0.05
MILE	46.20	794.05	10874.	0.70	15583.	1817.	6.74	0.0200	464.	32.	0.04
MILE	44.10	794.03	12303.	0.44	27648.	1508.	8.05	0.0300	276.	39.	0.02
MILE	43.70	794.02	12549.	0.88	14308.	1364.	8.23	0.0300	232.	41.	0.05
MILE	42.00	793.97	13592.	0.73	18692.	1329.	6.16	0.0300	508.	44.	0.03
MILE	39.10	793.90	15063.	0.84	17997.	1348.	7.85	0.0230	552.	43.	0.04
MILE	37.00	793.91	15400.	0.49	31673.	1116.	7.24	0.0280	343.	43.	0.02
MILE	36.00	793.90	15617.	0.80	19628.	898.	8.33	0.0280	265.	45.	0.03
MILE	34.60	793.90	16006.	0.54	29884.	1222.	9.62	0.0280	265.	45.	0.02
MILE	33.60	793.90	16324.	0.26	61653.	2134.	8.09	0.0290	343.	51.	0.01
MILE	31.50	793.90	17027.	0.56	30368.	1751.	10.36	0.0250	387.	55.	0.02
MILE	30.10	793.90	17502.	0.55	31966.	880.	9.89	0.0200	276.	53.	0.02
MILE	29.00	793.91	17780.	0.50	35660.	1051.	10.76	0.0200	309.	54.	0.02
MILE	27.30	793.91	18098.	0.49	37018.	1051.	11.16	0.0230	420.	57.	0.01
MILE	25.20	793.93	18478.	0.40	45893.	1049.	11.99	0.0230	464.	59.	0.01
MILE	23.10	793.95	18891.	0.50	37783.	1081.	11.42	0.0230	464.	64.	0.01

ODATE 3-17-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 17.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	822.76	2000.	2.56	780.	276.	2.26	0.0290	443.	4.	0.27
MILE	77.70	817.62	2463.	2.08	1184.	204.	2.66	0.0400	443.	7.	0.15
MILE	75.60	812.19	2941.	2.12	1389.	199.	3.01	0.0400	443.	6.	0.14
MILE	73.50	808.85	3441.	2.12	1620.	185.	3.34	0.0330	443.	10.	0.13
MILE	71.40	807.32	3952.	1.77	2227.	261.	3.15	0.0400	443.	10.	0.11
MILE	69.30	804.22	4482.	2.29	1957.	322.	2.80	0.0340	443.	6.	0.16
MILE	67.20	799.64	5040.	2.26	2232.	376.	2.72	0.0340	443.	9.	0.16
MILE	65.10	795.99	5665.	2.06	2753.	397.	3.66	0.0320	443.	9.	0.14
MILE	63.00	795.31	6337.	1.63	3890.	370.	4.86	0.0400	443.	14.	0.09
MILE	60.90	794.58	7045.	1.47	4798.	362.	5.85	0.0450	443.	18.	0.07
MILE	58.80	794.12	5782.	1.00	5787.	355.	6.15	0.0400	-1588.	21.	0.04
MILE	57.00	794.08	6381.	1.00	6401.	397.	6.04	0.0200	401.	19.	0.04
MILE	55.00	794.03	7056.	1.09	6488.	459.	6.51	0.0200	412.	21.	0.05
MILE	53.10	794.00	7726.	0.87	8919.	565.	5.99	0.0200	422.	21.	0.04
MILE	51.00	793.97	8521.	0.89	9621.	917.	6.11	0.0200	507.	25.	0.05
MILE	48.30	793.94	9364.	0.72	12941.	1618.	4.91	0.0200	507.	25.	0.05
MILE	46.20	793.93	9997.	0.65	15484.	1810.	6.72	0.0200	443.	32.	0.04
MILE	44.10	793.94	10679.	0.39	27542.	1503.	8.03	0.0300	264.	39.	0.02
MILE	43.70	793.94	10782.	0.76	14265.	1360.	8.24	0.0300	222.	41.	0.04

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
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MILE 42.00	793.93	11055.	0.59	18644.	1327.	6.16	0.0300	486.	44.	0.03
MILE 39.10	793.93	11099.	0.62	18022.	1349.	7.85	0.0230	528.	43.	0.03
MILE 37.00	793.93	11528.	0.36	31711.	1117.	7.25	0.0280	327.	43.	0.01
MILE 36.00	793.93	11701.	0.60	19655.	899.	8.33	0.0280	253.	45.	0.02
MILE 34.60	793.94	11868.	0.40	29931.	1224.	9.62	0.0280	253.	45.	0.01
MILE 33.60	793.95	11923.	0.19	61785.	2138.	8.10	0.0290	327.	51.	0.01
MILE 31.50	793.95	11944.	0.39	30414.	1754.	10.36	0.0250	369.	55.	0.02
MILE 30.10	793.96	11967.	0.37	32027.	882.	9.90	0.0200	264.	53.	0.01
MILE 29.00	793.97	12062.	0.34	35721.	1053.	10.77	0.0200	296.	54.	0.01
MILE 27.30	793.98	12237.	0.33	37081.	1053.	11.17	0.0230	401.	57.	0.01
MILE 25.20	793.98	12466.	0.27	45950.	1051.	12.00	0.0230	443.	59.	0.01
MILE 23.10	793.98	12879.	0.34	37811.	1082.	11.42	0.0230	443.	64.	0.01

ODATE 3-17-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 18.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.74	2000.	2.58	776.	275.	2.26	0.0290	423.	4.	0.27
MILE 77.70	817.58	2439.	2.08	1173.	202.	2.65	0.0400	423.	7.	0.15
MILE 75.60	812.12	2894.	2.11	1372.	197.	2.98	0.0400	423.	6.	0.14
MILE 73.50	808.77	3371.	2.11	1597.	183.	3.32	0.0330	423.	10.	0.13
MILE 71.40	807.24	3859.	1.76	2195.	260.	3.12	0.0400	423.	9.	0.11
MILE 69.30	804.14	4359.	2.27	1919.	319.	2.77	0.0340	423.	5.	0.16
MILE 67.20	799.52	4875.	2.25	2163.	370.	2.69	0.0340	423.	9.	0.16
MILE 65.10	795.78	5480.	2.05	2669.	388.	3.59	0.0320	423.	9.	0.14
MILE 63.00	795.10	6173.	1.62	3814.	359.	4.81	0.0400	423.	14.	0.09
MILE 60.90	794.39	6776.	1.43	4737.	360.	5.81	0.0450	423.	18.	0.07
MILE 58.80	794.00	5233.	0.91	5742.	354.	6.14	0.0400	-1608.	21.	0.04
MILE 57.00	793.98	5604.	0.88	6358.	396.	6.01	0.0200	382.	19.	0.04
MILE 55.00	793.96	6016.	0.93	6461.	458.	6.50	0.0200	392.	20.	0.04
MILE 53.10	793.96	6348.	0.71	8894.	564.	5.99	0.0200	402.	21.	0.03
MILE 51.00	793.96	6605.	0.69	9617.	916.	6.11	0.0200	483.	25.	0.04
MILE 48.30	793.97	6811.	0.53	12965.	1619.	4.91	0.0200	483.	25.	0.03
MILE 46.20	793.97	7122.	0.46	15513.	1812.	6.73	0.0200	423.	32.	0.03
MILE 44.10	793.98	7169.	0.26	27585.	1505.	8.04	0.0300	252.	39.	0.01
MILE 43.70	793.98	7198.	0.50	14287.	1362.	8.23	0.0300	211.	41.	0.03
MILE 42.00	793.98	7388.	0.39	18704.	1329.	6.16	0.0300	463.	44.	0.02
MILE 39.10	793.98	7868.	0.44	18062.	1352.	7.85	0.0230	503.	43.	0.02
MILE 37.00	793.99	7885.	0.25	31804.	1119.	7.26	0.0280	312.	43.	0.01
MILE 36.00	794.00	7929.	0.40	19704.	901.	8.34	0.0280	241.	45.	0.02
MILE 34.60	794.00	8008.	0.27	29989.	1226.	9.63	0.0280	241.	46.	0.01
MILE 33.60	794.01	8032.	0.13	61937.	2142.	8.11	0.0290	312.	51.	0.00
MILE 31.50	794.01	8060.	0.26	30468.	1758.	10.37	0.0250	352.	55.	0.01
MILE 30.10	794.02	8114.	0.25	32089.	884.	9.91	0.0200	252.	53.	0.01
MILE 29.00	794.02	8205.	0.23	35778.	1055.	10.78	0.0200	282.	54.	0.01
MILE 27.30	794.03	8382.	0.23	37133.	1055.	11.18	0.0230	382.	57.	0.01
MILE 25.20	794.04	8763.	0.19	46012.	1053.	12.00	0.0230	423.	60.	0.01

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MILE 23.10 794.05 8947. 0.24 37878. 1085. 11.44 0.0230 423. 64. 0.01

ODATE 3-17-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 19.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.73	2000.	2.59	772.	275.	2.25	0.0290	403.	4.	0.27
MILE 77.70	817.55	2419.	2.08	1163.	201.	2.64	0.0400	403.	7.	0.15
MILE 75.60	812.06	2852.	2.10	1356.	195.	2.96	0.0400	403.	6.	0.14
MILE 73.50	808.69	3305.	2.10	1576.	181.	3.29	0.0330	403.	9.	0.13
MILE 71.40	807.16	3766.	1.74	2164.	258.	3.09	0.0400	403.	9.	0.11
MILE 69.30	804.06	4239.	2.25	1881.	316.	2.75	0.0340	403.	5.	0.16
MILE 67.20	799.41	4734.	2.25	2102.	365.	2.67	0.0340	403.	9.	0.17
MILE 65.10	795.62	5292.	2.03	2609.	381.	3.55	0.0320	403.	9.	0.14
MILE 63.00	795.01	5801.	1.53	3781.	355.	4.79	0.0400	403.	14.	0.08
MILE 60.90	794.42	6182.	1.30	4744.	360.	5.81	0.0450	403.	18.	0.06
MILE 58.80	794.10	4506.	0.78	5780.	355.	6.15	0.0400	-1625.	21.	0.03
MILE 57.00	794.09	4757.	0.74	6403.	397.	6.04	0.0200	365.	19.	0.03
MILE 55.00	794.07	4999.	0.77	6502.	459.	6.51	0.0200	375.	21.	0.04
MILE 53.10	794.06	5212.	0.58	8955.	566.	6.00	0.0200	384.	21.	0.03
MILE 51.00	794.05	5412.	0.56	9662.	919.	6.12	0.0200	461.	25.	0.03
MILE 48.30	794.05	5471.	0.42	13054.	1623.	4.91	0.0200	461.	25.	0.03
MILE 46.20	794.05	5033.	0.32	15589.	1817.	6.74	0.0200	403.	32.	0.02
MILE 44.10	794.06	5014.	0.18	27678.	1509.	8.05	0.0300	240.	39.	0.01
MILE 43.70	794.06	5027.	0.35	14328.	1366.	8.23	0.0300	202.	41.	0.02
MILE 42.00	794.05	5104.	0.27	18794.	1333.	6.16	0.0300	442.	44.	0.01
MILE 39.10	794.05	5242.	0.29	18125.	1355.	7.86	0.0230	480.	43.	0.01
MILE 37.00	794.05	5749.	0.18	31901.	1122.	7.28	0.0280	298.	43.	0.01
MILE 36.00	794.05	5956.	0.30	19747.	903.	8.34	0.0280	230.	45.	0.01
MILE 34.60	794.04	6213.	0.21	30031.	1228.	9.64	0.0280	230.	46.	0.01
MILE 33.60	794.04	6427.	0.10	62037.	2144.	8.12	0.0290	298.	51.	0.00
MILE 31.50	794.04	6945.	0.23	30495.	1759.	10.38	0.0250	336.	55.	0.01
MILE 30.10	794.04	7205.	0.22	32111.	884.	9.91	0.0200	240.	53.	0.01
MILE 29.00	794.04	7438.	0.21	35794.	1055.	10.78	0.0200	269.	54.	0.01
MILE 27.30	794.04	7846.	0.21	37141.	1055.	11.18	0.0230	365.	57.	0.01
MILE 25.20	794.03	8278.	0.18	46007.	1053.	12.00	0.0230	403.	60.	0.00
MILE 23.10	794.03	8741.	0.23	37859.	1084.	11.43	0.0230	403.	64.	0.01

ODATE 3-17-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 20.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80 822.71 2000. 2.60 768. 275. 2.25 0.0290 384. 4. 0.27

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 77.70	817.51	2400.	2.08	1154.	200.	2.63	0.0400	384.	7.	0.15
MILE 75.60	812.00	2810.	2.10	1340.	194.	2.94	0.0400	384.	6.	0.14
MILE 73.50	808.61	3242.	2.08	1556.	180.	3.27	0.0330	384.	9.	0.12
MILE 71.40	807.09	3683.	1.72	2135.	257.	3.07	0.0400	384.	9.	0.11
MILE 69.30	803.99	4140.	2.24	1849.	314.	2.72	0.0340	384.	5.	0.16
MILE 67.20	799.33	4615.	2.25	2055.	361.	2.65	0.0340	384.	9.	0.17
MILE 65.10	795.57	5111.	1.98	2588.	378.	3.53	0.0320	384.	9.	0.13
MILE 63.00	795.01	5526.	1.46	3780.	354.	4.79	0.0400	384.	14.	0.08
MILE 60.90	794.48	5852.	1.23	4767.	361.	5.83	0.0450	384.	18.	0.06
MILE 58.80	794.22	4076.	0.70	5824.	356.	6.16	0.0400	-1643.	21.	0.03
MILE 57.00	794.21	4268.	0.66	6455.	399.	6.06	0.0200	348.	19.	0.03
MILE 55.00	794.19	4504.	0.69	6548.	461.	6.53	0.0200	357.	21.	0.03
MILE 53.10	794.18	4752.	0.53	9027.	568.	6.03	0.0200	366.	21.	0.02
MILE 51.00	794.16	5006.	0.52	9720.	923.	6.14	0.0200	439.	25.	0.03
MILE 48.30	794.14	5294.	0.40	13159.	1628.	4.91	0.0200	439.	25.	0.02
MILE 46.20	794.12	5700.	0.36	15648.	1821.	6.75	0.0200	384.	32.	0.02
MILE 44.10	794.11	5842.	0.21	27745.	1512.	8.06	0.0300	229.	39.	0.01
MILE 43.70	794.11	5878.	0.41	14356.	1368.	8.22	0.0300	192.	41.	0.02
MILE 42.00	794.10	6070.	0.32	18843.	1334.	6.16	0.0300	421.	44.	0.02
MILE 39.10	794.07	6549.	0.36	18135.	1356.	7.86	0.0230	457.	43.	0.02
MILE 37.00	794.06	6698.	0.21	31912.	1122.	7.28	0.0280	284.	43.	0.01
MILE 36.00	794.06	6795.	0.34	19753.	903.	8.35	0.0280	220.	45.	0.01
MILE 34.60	794.05	6954.	0.23	30039.	1228.	9.64	0.0280	220.	46.	0.01
MILE 33.60	794.05	7059.	0.11	62060.	2145.	8.12	0.0290	284.	51.	0.00
MILE 31.50	794.05	7304.	0.24	30501.	1760.	10.38	0.0250	320.	55.	0.01
MILE 30.10	794.04	7529.	0.23	32115.	884.	9.92	0.0200	229.	53.	0.01
MILE 29.00	794.04	7685.	0.21	35796.	1056.	10.78	0.0200	256.	54.	0.01
MILE 27.30	794.04	7890.	0.21	37144.	1055.	11.18	0.0230	348.	57.	0.01
MILE 25.20	794.04	8242.	0.18	46017.	1054.	12.00	0.0230	384.	60.	0.00
MILE 23.10	794.04	8560.	0.23	37868.	1084.	11.43	0.0230	384.	64.	0.01

ODATE 3-17-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 21.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.70	2000.	2.61	767.	275.	2.24	0.0290	369.	4.	0.27
MILE 77.70	817.48	2379.	2.08	1145.	199.	2.63	0.0400	369.	7.	0.15
MILE 75.60	811.94	2771.	2.09	1324.	192.	2.92	0.0400	369.	5.	0.14
MILE 73.50	808.55	3190.	2.07	1540.	178.	3.25	0.0330	369.	9.	0.12
MILE 71.40	807.03	3616.	1.71	2112.	256.	3.05	0.0400	369.	9.	0.10
MILE 69.30	803.93	4053.	2.23	1821.	312.	2.70	0.0340	369.	5.	0.16
MILE 67.20	799.26	4500.	2.23	2015.	358.	2.64	0.0340	369.	9.	0.17
MILE 65.10	795.55	4954.	1.92	2581.	377.	3.52	0.0320	369.	9.	0.13
MILE 63.00	795.03	5346.	1.41	3786.	355.	4.80	0.0400	369.	14.	0.08
MILE 60.90	794.52	5739.	1.20	4780.	361.	5.84	0.0450	369.	18.	0.06
MILE 58.80	794.25	4171.	0.71	5833.	357.	6.17	0.0400	-1657.	21.	0.03
MILE 57.00	794.22	4535.	0.70	6462.	399.	6.07	0.0200	334.	19.	0.03

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MILE	55.00	794.20	4918.	0.75	6551.	462.	6.53	0.0200	343.	21.	0.04
MILE	53.10	794.19	5257.	0.58	9031.	568.	6.03	0.0200	351.	21.	0.03
MILE	51.00	794.17	5620.	0.58	9723.	923.	6.14	0.0200	422.	25.	0.03
MILE	48.30	794.15	6050.	0.46	13171.	1629.	4.91	0.0200	422.	25.	0.03
MILE	46.20	794.14	6239.	0.40	15667.	1823.	6.76	0.0200	369.	32.	0.02
MILE	44.10	794.14	6603.	0.24	27774.	1513.	8.06	0.0300	220.	39.	0.01
MILE	43.70	794.13	6668.	0.46	14369.	1369.	8.22	0.0300	184.	41.	0.03
MILE	42.00	794.12	6909.	0.37	18876.	1336.	6.16	0.0300	404.	44.	0.02
MILE	39.10	794.10	7309.	0.40	18163.	1357.	7.87	0.0230	439.	43.	0.02
MILE	37.00	794.10	7772.	0.24	31970.	1123.	7.29	0.0280	272.	43.	0.01
MILE	36.00	794.09	8010.	0.40	19778.	904.	8.35	0.0280	211.	45.	0.02
MILE	34.60	794.08	8352.	0.28	30064.	1229.	9.64	0.0280	211.	46.	0.01
MILE	33.60	794.08	8561.	0.14	62123.	2147.	8.12	0.0290	272.	51.	0.00
MILE	31.50	794.07	8874.	0.29	30524.	1761.	10.38	0.0250	307.	55.	0.01
MILE	30.10	794.07	9121.	0.28	32139.	885.	9.92	0.0200	220.	53.	0.01
MILE	29.00	794.06	9334.	0.26	35817.	1056.	10.79	0.0200	246.	54.	0.01
MILE	27.30	794.06	9676.	0.26	37160.	1056.	11.18	0.0230	334.	57.	0.01
MILE	25.20	794.05	10031.	0.22	46025.	1054.	12.01	0.0230	369.	60.	0.01
MILE	23.10	794.04	10491.	0.28	37868.	1084.	11.43	0.0230	369.	64.	0.01

ODATE 3-17-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 22.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	822.70	2000.	2.61	765.	274.	2.24	0.0290	354.	4.	0.28
MILE	77.70	817.46	2366.	2.08	1138.	199.	2.62	0.0400	354.	7.	0.15
MILE	75.60	811.90	2744.	2.09	1312.	191.	2.90	0.0400	354.	5.	0.14
MILE	73.50	808.50	3146.	2.06	1527.	177.	3.24	0.0330	354.	9.	0.12
MILE	71.40	806.98	3554.	1.70	2092.	255.	3.03	0.0400	354.	9.	0.10
MILE	69.30	803.87	3967.	2.21	1795.	310.	2.69	0.0340	354.	5.	0.16
MILE	67.20	799.18	4387.	2.22	1974.	354.	2.62	0.0340	354.	8.	0.17
MILE	65.10	795.49	4835.	1.89	2556.	375.	3.50	0.0320	354.	8.	0.13
MILE	63.00	794.97	5278.	1.40	3767.	354.	4.78	0.0400	354.	14.	0.08
MILE	60.90	794.48	5687.	1.19	4764.	361.	5.83	0.0450	354.	18.	0.06
MILE	58.80	794.22	4057.	0.70	5822.	356.	6.16	0.0400	-1672.	21.	0.03
MILE	57.00	794.20	4367.	0.68	6452.	399.	6.06	0.0200	320.	19.	0.03
MILE	55.00	794.18	4724.	0.72	6544.	461.	6.53	0.0200	328.	21.	0.03
MILE	53.10	794.17	5076.	0.56	9022.	568.	6.03	0.0200	337.	21.	0.02
MILE	51.00	794.16	5491.	0.57	9717.	923.	6.14	0.0200	404.	25.	0.03
MILE	48.30	794.14	6137.	0.47	13159.	1628.	4.91	0.0200	404.	25.	0.03
MILE	46.20	794.13	6773.	0.43	15653.	1822.	6.75	0.0200	354.	32.	0.03
MILE	44.10	794.12	7303.	0.26	27755.	1513.	8.06	0.0300	210.	39.	0.01
MILE	43.70	794.12	7402.	0.52	14360.	1368.	8.22	0.0300	177.	41.	0.03
MILE	42.00	794.10	7852.	0.42	18850.	1335.	6.16	0.0300	387.	44.	0.02
MILE	39.10	794.07	8731.	0.48	18134.	1356.	7.86	0.0230	421.	43.	0.02
MILE	37.00	794.06	9143.	0.29	31911.	1122.	7.28	0.0280	261.	43.	0.01
MILE	36.00	794.05	9341.	0.47	19750.	903.	8.34	0.0280	202.	45.	0.02

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 34.60	794.05	9635.	0.32	30034.	1228.	9.64	0.0280	202.	46.	0.01
MILE 33.60	794.05	9867.	0.16	62048.	2145.	8.12	0.0290	261.	51.	0.01
MILE 31.50	794.04	10393.	0.34	30495.	1759.	10.38	0.0250	295.	55.	0.01
MILE 30.10	794.04	10795.	0.34	32107.	884.	9.91	0.0200	210.	53.	0.01
MILE 29.00	794.03	11049.	0.31	35789.	1055.	10.78	0.0200	236.	54.	0.01
MILE 27.30	794.03	11383.	0.31	37136.	1055.	11.18	0.0230	320.	57.	0.01
MILE 25.20	794.03	11751.	0.26	46007.	1053.	12.00	0.0230	354.	60.	0.01
MILE 23.10	794.03	12108.	0.32	37859.	1084.	11.43	0.0230	354.	64.	0.01

ODATE 3-17-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 23.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.67	2000.	2.63	759.	274.	2.23	0.0290	340.	4.	0.28
MILE 77.70	817.44	2355.	2.08	1133.	198.	2.61	0.0400	340.	7.	0.15
MILE 75.60	811.86	2719.	2.09	1301.	190.	2.89	0.0400	340.	5.	0.14
MILE 73.50	808.45	3103.	2.05	1515.	176.	3.22	0.0330	340.	9.	0.12
MILE 71.40	806.93	3489.	1.68	2072.	254.	3.01	0.0400	340.	9.	0.10
MILE 69.30	803.81	3883.	2.20	1768.	308.	2.67	0.0340	340.	5.	0.16
MILE 67.20	799.11	4283.	2.22	1933.	351.	2.61	0.0340	340.	8.	0.17
MILE 65.10	795.42	4715.	1.87	2527.	371.	3.48	0.0320	340.	8.	0.13
MILE 63.00	794.91	5148.	1.37	3746.	353.	4.77	0.0400	340.	14.	0.07
MILE 60.90	794.43	5572.	1.17	4750.	360.	5.82	0.0450	340.	18.	0.06
MILE 58.80	794.17	4004.	0.69	5806.	356.	6.16	0.0400	-1685.	21.	0.03
MILE 57.00	794.15	4370.	0.68	6432.	398.	6.05	0.0200	307.	19.	0.03
MILE 55.00	794.13	4782.	0.73	6525.	460.	6.52	0.0200	315.	21.	0.03
MILE 53.10	794.12	5194.	0.58	8989.	567.	6.02	0.0200	324.	21.	0.03
MILE 51.00	794.10	5710.	0.59	9687.	921.	6.13	0.0200	388.	25.	0.03
MILE 48.30	794.08	6483.	0.50	13090.	1625.	4.91	0.0200	388.	25.	0.03
MILE 46.20	794.07	7070.	0.45	15603.	1818.	6.74	0.0200	340.	32.	0.03
MILE 44.10	794.07	7721.	0.28	27690.	1510.	8.05	0.0300	202.	39.	0.01
MILE 43.70	794.06	7829.	0.55	14331.	1366.	8.23	0.0300	170.	41.	0.03
MILE 42.00	794.05	8239.	0.44	18788.	1332.	6.16	0.0300	372.	44.	0.02
MILE 39.10	794.03	8884.	0.49	18102.	1354.	7.86	0.0230	404.	43.	0.02
MILE 37.00	794.02	9484.	0.30	31852.	1120.	7.27	0.0280	251.	43.	0.01
MILE 36.00	794.02	9738.	0.49	19721.	901.	8.34	0.0280	194.	45.	0.02
MILE 34.60	794.01	10081.	0.34	29998.	1227.	9.63	0.0280	194.	46.	0.01
MILE 33.60	794.01	10361.	0.17	61952.	2142.	8.11	0.0290	251.	51.	0.01
MILE 31.50	794.01	10958.	0.36	30465.	1757.	10.37	0.0250	283.	55.	0.02
MILE 30.10	794.01	11205.	0.35	32076.	883.	9.91	0.0200	202.	53.	0.01
MILE 29.00	794.01	11417.	0.32	35761.	1054.	10.78	0.0200	226.	54.	0.01
MILE 27.30	794.01	11807.	0.32	37110.	1054.	11.17	0.0230	307.	57.	0.01
MILE 25.20	794.00	12286.	0.27	45973.	1052.	12.00	0.0230	340.	60.	0.01
MILE 23.10	794.00	12728.	0.34	37830.	1083.	11.43	0.0230	340.	64.	0.01

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

ODATE 3-18-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 0.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.65	2000.	2.66	753.	274.	2.22	0.0290	326.	4.	0.28
MILE 77.70	817.41	2341.	2.08	1126.	197.	2.61	0.0400	326.	7.	0.15
MILE 75.60	811.81	2690.	2.09	1289.	189.	2.87	0.0400	326.	5.	0.14
MILE 73.50	808.40	3056.	2.04	1501.	175.	3.21	0.0330	326.	9.	0.12
MILE 71.40	806.88	3426.	1.67	2050.	253.	2.99	0.0400	326.	9.	0.10
MILE 69.30	803.76	3805.	2.18	1744.	307.	2.65	0.0340	326.	5.	0.16
MILE 67.20	799.04	4188.	2.21	1895.	348.	2.59	0.0340	326.	8.	0.17
MILE 65.10	795.32	4610.	1.85	2489.	367.	3.45	0.0320	326.	8.	0.13
MILE 63.00	794.82	5071.	1.37	3713.	351.	4.76	0.0400	326.	14.	0.07
MILE 60.90	794.34	5517.	1.17	4719.	359.	5.79	0.0450	326.	18.	0.06
MILE 58.80	794.09	3928.	0.68	5775.	355.	6.15	0.0400	-1697.	21.	0.03
MILE 57.00	794.08	4272.	0.67	6398.	397.	6.03	0.0200	295.	19.	0.03
MILE 55.00	794.06	4664.	0.72	6498.	459.	6.51	0.0200	303.	21.	0.03
MILE 53.10	794.05	5046.	0.56	8948.	566.	6.00	0.0200	310.	21.	0.02
MILE 51.00	794.04	5505.	0.57	9656.	919.	6.12	0.0200	373.	25.	0.03
MILE 48.30	794.02	6231.	0.48	13029.	1622.	4.91	0.0200	373.	25.	0.03
MILE 46.20	794.01	6925.	0.45	15554.	1815.	6.73	0.0200	326.	32.	0.03
MILE 44.10	794.02	7462.	0.27	27628.	1507.	8.04	0.0300	194.	39.	0.01
MILE 43.70	794.01	7546.	0.53	14305.	1364.	8.23	0.0300	163.	41.	0.03
MILE 42.00	794.01	7803.	0.42	18739.	1330.	6.16	0.0300	357.	44.	0.02
MILE 39.10	794.03	7516.	0.42	18106.	1354.	7.86	0.0230	388.	43.	0.02
MILE 37.00	794.07	6681.	0.21	31930.	1122.	7.28	0.0280	241.	43.	0.01
MILE 36.00	794.08	6379.	0.32	19775.	904.	8.35	0.0280	186.	45.	0.01
MILE 34.60	794.10	5950.	0.20	30089.	1231.	9.64	0.0280	186.	46.	0.01
MILE 33.60	794.11	5443.	0.09	62222.	2149.	8.13	0.0290	241.	51.	0.00
MILE 31.50	794.13	4193.	0.14	30579.	1765.	10.39	0.0250	272.	55.	0.01
MILE 30.10	794.15	3717.	0.12	32228.	888.	9.94	0.0200	194.	53.	0.00
MILE 29.00	794.17	3414.	0.10	35920.	1060.	10.81	0.0200	217.	54.	0.00
MILE 27.30	794.19	2771.	0.07	37288.	1061.	11.20	0.0230	295.	57.	0.00
MILE 25.20	794.22	2122.	0.05	46209.	1060.	12.03	0.0230	326.	60.	0.00
MILE 23.10	794.25	1617.	0.04	38068.	1092.	11.47	0.0230	326.	64.	0.00

ODATE 3-18-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 1.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.64	2000.	2.67	749.	273.	2.22	0.0290	311.	4.	0.28
MILE 77.70	817.38	2323.	2.08	1119.	196.	2.60	0.0400	311.	7.	0.15
MILE 75.60	811.76	2656.	2.08	1276.	188.	2.86	0.0400	311.	5.	0.14
MILE 73.50	808.34	3007.	2.02	1487.	174.	3.19	0.0330	311.	9.	0.12
MILE 71.40	806.82	3362.	1.66	2027.	252.	2.97	0.0400	311.	9.	0.10

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 69.30	803.71	3727.	2.17	1720.	305.	2.63	0.0340	311.	5.	0.16
MILE 67.20	798.97	4097.	2.21	1857.	344.	2.58	0.0340	311.	8.	0.17
MILE 65.10	795.21	4506.	1.84	2447.	362.	3.41	0.0320	311.	8.	0.12
MILE 63.00	794.72	4938.	1.34	3681.	350.	4.74	0.0400	311.	14.	0.07
MILE 60.90	794.27	5350.	1.14	4695.	358.	5.78	0.0450	311.	18.	0.06
MILE 58.80	794.03	3744.	0.65	5753.	354.	6.14	0.0400	-1711.	21.	0.03
MILE 57.00	794.02	4052.	0.64	6375.	396.	6.02	0.0200	282.	19.	0.03
MILE 55.00	794.02	4343.	0.67	6482.	459.	6.51	0.0200	289.	21.	0.03
MILE 53.10	794.03	4505.	0.50	8936.	565.	6.00	0.0200	297.	21.	0.02
MILE 51.00	794.06	4402.	0.46	9665.	919.	6.12	0.0200	356.	25.	0.02
MILE 48.30	794.12	3209.	0.24	13137.	1627.	4.91	0.0200	356.	25.	0.02
MILE 46.20	794.16	1819.	0.12	15683.	1824.	6.76	0.0200	311.	32.	0.01
MILE 44.10	794.20	550.	0.02	27848.	1517.	8.07	0.0300	185.	39.	0.00
MILE 43.70	794.21	356.	0.02	14408.	1373.	8.22	0.0300	156.	41.	0.00
MILE 42.00	794.25	-415.	-0.02	19031.	1341.	6.16	0.0300	341.	44.	0.00
MILE 39.10	794.30	-1278.	-0.07	18327.	1367.	7.88	0.0230	371.	43.	0.00
MILE 37.00	794.31	-1173.	-0.04	32317.	1132.	7.33	0.0280	230.	43.	0.00
MILE 36.00	794.32	-1074.	-0.05	19964.	911.	8.37	0.0280	178.	45.	0.00
MILE 34.60	794.33	-980.	-0.03	30316.	1240.	9.67	0.0280	178.	46.	0.00
MILE 33.60	794.34	-1096.	-0.02	62819.	2166.	8.17	0.0290	230.	51.	0.00
MILE 31.50	794.34	-1690.	-0.05	30767.	1777.	10.42	0.0250	260.	56.	0.00
MILE 30.10	794.35	-1828.	-0.06	32435.	894.	9.97	0.0200	185.	54.	0.00
MILE 29.00	794.36	-1818.	-0.05	36110.	1067.	10.84	0.0200	208.	55.	0.00
MILE 27.30	794.37	-1769.	-0.05	37463.	1067.	11.23	0.0230	282.	57.	0.00
MILE 25.20	794.37	-1744.	-0.04	46373.	1065.	12.05	0.0230	311.	60.	0.00
MILE 23.10	794.36	-1651.	-0.04	38172.	1096.	11.48	0.0230	311.	64.	0.00

ODATE 3-18-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 2.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.63	2000.	2.67	748.	273.	2.22	0.0290	297.	4.	0.28
MILE 77.70	817.35	2306.	2.08	1111.	196.	2.59	0.0400	297.	7.	0.15
MILE 75.60	811.71	2621.	2.08	1262.	187.	2.84	0.0400	297.	5.	0.14
MILE 73.50	808.29	2957.	2.01	1472.	173.	3.17	0.0330	297.	9.	0.12
MILE 71.40	806.76	3297.	1.65	2004.	250.	2.95	0.0400	297.	9.	0.10
MILE 69.30	803.65	3650.	2.15	1696.	303.	2.61	0.0340	297.	5.	0.16
MILE 67.20	798.90	4009.	2.20	1821.	341.	2.57	0.0340	297.	8.	0.17
MILE 65.10	795.15	4397.	1.82	2420.	359.	3.39	0.0320	297.	8.	0.12
MILE 63.00	794.74	4611.	1.25	3685.	350.	4.74	0.0400	297.	14.	0.07
MILE 60.90	794.45	4460.	0.94	4755.	360.	5.82	0.0450	297.	18.	0.05
MILE 58.80	794.37	2030.	0.35	5880.	358.	6.18	0.0400	-1724.	21.	0.02
MILE 57.00	794.39	1703.	0.26	6535.	402.	6.10	0.0200	269.	20.	0.01
MILE 55.00	794.42	1324.	0.20	6634.	465.	6.56	0.0200	276.	21.	0.01
MILE 53.10	794.44	932.	0.10	9185.	573.	6.08	0.0200	283.	21.	0.00
MILE 51.00	794.45	370.	0.04	9865.	932.	6.17	0.0200	339.	25.	0.00
MILE 48.30	794.43	-257.	-0.02	13500.	1645.	4.90	0.0200	339.	26.	0.00

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 46.20	794.44	-1264.	-0.08	15930.	1841.	6.81	0.0200	297.	33.	0.00
MILE 44.10	794.43	-2157.	-0.08	28128.	1529.	8.11	0.0300	177.	39.	0.00
MILE 43.70	794.43	-2264.	-0.16	14528.	1383.	8.20	0.0300	148.	41.	-0.01
MILE 42.00	794.42	-2516.	-0.13	19247.	1349.	6.16	0.0300	325.	44.	-0.01
MILE 39.10	794.40	-2609.	-0.14	18413.	1371.	7.89	0.0230	353.	43.	-0.01
MILE 37.00	794.41	-3110.	-0.10	32476.	1135.	7.36	0.0280	219.	43.	0.00
MILE 36.00	794.41	-3251.	-0.16	20037.	914.	8.38	0.0280	170.	45.	-0.01
MILE 34.60	794.40	-3367.	-0.11	30389.	1243.	9.68	0.0280	170.	46.	0.00
MILE 33.60	794.40	-3478.	-0.06	63001.	2171.	8.19	0.0290	219.	52.	0.00
MILE 31.50	794.41	-3680.	-0.12	30824.	1781.	10.43	0.0250	247.	56.	-0.01
MILE 30.10	794.41	-3667.	-0.11	32496.	896.	9.98	0.0200	177.	54.	0.00
MILE 29.00	794.41	-3630.	-0.10	36162.	1069.	10.84	0.0200	198.	55.	0.00
MILE 27.30	794.41	-3601.	-0.10	37504.	1069.	11.23	0.0230	269.	57.	0.00
MILE 25.20	794.42	-3525.	-0.08	46425.	1067.	12.06	0.0230	297.	60.	0.00
MILE 23.10	794.43	-3542.	-0.09	38239.	1099.	11.49	0.0230	297.	64.	0.00

ODATE 3-18-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 3.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.63	2000.	2.67	749.	273.	2.22	0.0290	283.	4.	0.28
MILE 77.70	817.33	2290.	2.07	1104.	195.	2.59	0.0400	283.	7.	0.15
MILE 75.60	811.67	2590.	2.07	1249.	185.	2.82	0.0400	283.	5.	0.14
MILE 73.50	808.23	2911.	2.00	1457.	172.	3.16	0.0330	283.	9.	0.12
MILE 71.40	806.71	3240.	1.63	1982.	249.	2.93	0.0400	283.	9.	0.10
MILE 69.30	803.61	3590.	2.14	1676.	302.	2.60	0.0340	283.	5.	0.16
MILE 67.20	798.87	3946.	2.19	1806.	340.	2.56	0.0340	283.	8.	0.17
MILE 65.10	795.41	4173.	1.65	2526.	371.	3.48	0.0320	283.	8.	0.11
MILE 63.00	795.11	4052.	1.06	3818.	360.	4.82	0.0400	283.	14.	0.06
MILE 60.90	794.87	4062.	0.83	4898.	365.	5.92	0.0450	283.	18.	0.04
MILE 58.80	794.76	2156.	0.36	6026.	363.	6.23	0.0400	-1738.	22.	0.02
MILE 57.00	794.74	2185.	0.33	6686.	406.	6.18	0.0200	256.	20.	0.01
MILE 55.00	794.72	2166.	0.32	6749.	470.	6.60	0.0200	262.	21.	0.01
MILE 53.10	794.69	2190.	0.23	9341.	578.	6.12	0.0200	269.	21.	0.01
MILE 51.00	794.66	2185.	0.22	9975.	938.	6.20	0.0200	323.	25.	0.01
MILE 48.30	794.63	1519.	0.11	13737.	1656.	4.90	0.0200	323.	26.	0.01
MILE 46.20	794.62	580.	0.04	16093.	1852.	6.84	0.0200	283.	33.	0.00
MILE 44.10	794.61	-117.	0.00	28343.	1538.	8.14	0.0300	168.	39.	0.00
MILE 43.70	794.61	-234.	-0.02	14625.	1392.	8.19	0.0300	141.	42.	0.00
MILE 42.00	794.61	-812.	-0.04	19481.	1358.	6.16	0.0300	310.	45.	0.00
MILE 39.10	794.61	-2058.	-0.11	18582.	1381.	7.91	0.0230	337.	44.	-0.01
MILE 37.00	794.61	-2524.	-0.08	32796.	1143.	7.40	0.0280	209.	43.	0.00
MILE 36.00	794.61	-2710.	-0.13	20199.	920.	8.39	0.0280	162.	46.	-0.01
MILE 34.60	794.61	-3046.	-0.10	30591.	1252.	9.71	0.0280	162.	46.	0.00
MILE 33.60	794.61	-3468.	-0.05	63544.	2185.	8.22	0.0290	209.	52.	0.00
MILE 31.50	794.60	-4512.	-0.15	31004.	1793.	10.46	0.0250	236.	56.	-0.01
MILE 30.10	794.60	-4921.	-0.15	32699.	902.	10.02	0.0200	168.	54.	0.00

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE	29.00	794.60	-5132.	-0.14	36355.	1076.	10.88	0.0200	188.	55.	0.00
MILE	27.30	794.60	-5528.	-0.15	37693.	1076.	11.26	0.0230	256.	58.	0.00
MILE	25.20	794.59	-5942.	-0.13	46620.	1073.	12.08	0.0230	283.	60.	0.00
MILE	23.10	794.59	-6209.	-0.16	38391.	1105.	11.52	0.0230	283.	65.	0.00

ODATE 3-18-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 4.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	822.63	2000.	2.67	748.	273.	2.22	0.0290	268.	4.	0.28
MILE	77.70	817.31	2277.	2.07	1098.	194.	2.58	0.0400	268.	7.	0.15
MILE	75.60	811.63	2566.	2.07	1239.	184.	2.80	0.0400	268.	5.	0.14
MILE	73.50	808.19	2878.	1.99	1446.	171.	3.14	0.0330	268.	9.	0.12
MILE	71.40	806.66	3198.	1.63	1965.	249.	2.92	0.0400	268.	9.	0.10
MILE	69.30	803.57	3530.	2.13	1659.	300.	2.59	0.0340	268.	5.	0.16
MILE	67.20	798.84	3843.	2.15	1786.	338.	2.55	0.0340	268.	8.	0.16
MILE	65.10	795.56	4109.	1.59	2586.	378.	3.53	0.0320	268.	9.	0.11
MILE	63.00	795.23	4358.	1.13	3860.	365.	4.84	0.0400	268.	14.	0.06
MILE	60.90	794.95	4570.	0.93	4923.	366.	5.94	0.0450	268.	18.	0.04
MILE	58.80	794.82	2703.	0.45	6048.	364.	6.24	0.0400	-1751.	22.	0.02
MILE	57.00	794.81	2864.	0.43	6715.	407.	6.19	0.0200	243.	20.	0.02
MILE	55.00	794.81	3036.	0.45	6783.	471.	6.61	0.0200	249.	21.	0.02
MILE	53.10	794.82	3044.	0.32	9421.	581.	6.15	0.0200	256.	22.	0.01
MILE	51.00	794.84	2738.	0.27	10068.	944.	6.23	0.0200	307.	26.	0.01
MILE	48.30	794.85	1922.	0.14	13993.	1668.	4.90	0.0200	307.	26.	0.01
MILE	46.20	794.84	1416.	0.09	16292.	1866.	6.87	0.0200	268.	33.	0.01
MILE	44.10	794.84	540.	0.02	28620.	1550.	8.18	0.0300	160.	40.	0.00
MILE	43.70	794.84	418.	0.03	14751.	1402.	8.18	0.0300	134.	42.	0.00
MILE	42.00	794.83	7.	0.00	19772.	1368.	6.16	0.0300	294.	45.	0.00
MILE	39.10	794.80	-136.	-0.01	18746.	1390.	7.93	0.0230	320.	44.	0.00
MILE	37.00	794.78	-132.	0.00	33074.	1149.	7.44	0.0280	198.	43.	0.00
MILE	36.00	794.77	-111.	-0.01	20333.	925.	8.41	0.0280	153.	46.	0.00
MILE	34.60	794.76	-105.	0.00	30744.	1258.	9.73	0.0280	153.	46.	0.00
MILE	33.60	794.75	-188.	0.00	63942.	2196.	8.25	0.0290	198.	52.	0.00
MILE	31.50	794.74	-505.	-0.02	31129.	1801.	10.47	0.0250	224.	56.	0.00
MILE	30.10	794.73	-628.	-0.02	32837.	906.	10.04	0.0200	160.	54.	0.00
MILE	29.00	794.73	-606.	-0.02	36481.	1080.	10.90	0.0200	179.	55.	0.00
MILE	27.30	794.71	-471.	-0.01	37805.	1080.	11.28	0.0230	243.	58.	0.00
MILE	25.20	794.70	-252.	-0.01	46737.	1077.	12.10	0.0230	268.	60.	0.00
MILE	23.10	794.68	-194.	-0.01	38477.	1108.	11.53	0.0230	268.	65.	0.00

ODATE 3-18-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

TIME 5.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.61	2000.	2.69	744.	273.	2.21	0.0290	257.	4.	0.29
MILE 77.70	817.29	2270.	2.08	1093.	194.	2.58	0.0400	257.	7.	0.15
MILE 75.60	811.59	2549.	2.07	1230.	183.	2.79	0.0400	257.	5.	0.14
MILE 73.50	808.15	2845.	1.98	1436.	170.	3.13	0.0330	257.	9.	0.12
MILE 71.40	806.62	3143.	1.61	1947.	248.	2.90	0.0400	257.	9.	0.10
MILE 69.30	803.52	3444.	2.11	1634.	299.	2.57	0.0340	257.	5.	0.16
MILE 67.20	798.78	3746.	2.14	1754.	335.	2.54	0.0340	257.	8.	0.16
MILE 65.10	795.61	4027.	1.55	2603.	380.	3.54	0.0320	257.	9.	0.10
MILE 63.00	795.33	4122.	1.06	3896.	370.	4.86	0.0400	257.	14.	0.06
MILE 60.90	795.11	4146.	0.83	4978.	371.	5.98	0.0450	257.	19.	0.04
MILE 58.80	795.00	2251.	0.37	6118.	366.	6.26	0.0400	-1762.	22.	0.02
MILE 57.00	794.99	2320.	0.34	6793.	410.	6.23	0.0200	232.	20.	0.01
MILE 55.00	794.98	2356.	0.34	6849.	474.	6.64	0.0200	238.	21.	0.02
MILE 53.10	794.97	2465.	0.26	9510.	583.	6.17	0.0200	244.	22.	0.01
MILE 51.00	794.94	2755.	0.27	10121.	947.	6.24	0.0200	293.	26.	0.01
MILE 48.30	794.91	3433.	0.24	14071.	1671.	4.90	0.0200	293.	26.	0.01
MILE 46.20	794.90	3392.	0.21	16347.	1870.	6.88	0.0200	257.	33.	0.01
MILE 44.10	794.89	3793.	0.13	28679.	1552.	8.19	0.0300	153.	40.	0.01
MILE 43.70	794.88	3871.	0.26	14776.	1405.	8.18	0.0300	128.	42.	0.01
MILE 42.00	794.86	4222.	0.21	19814.	1370.	6.16	0.0300	281.	45.	0.01
MILE 39.10	794.84	4530.	0.24	18776.	1392.	7.93	0.0230	305.	44.	0.01
MILE 37.00	794.84	4420.	0.13	33170.	1152.	7.45	0.0280	189.	44.	0.00
MILE 36.00	794.83	4393.	0.22	20383.	927.	8.41	0.0280	147.	46.	0.01
MILE 34.60	794.82	4379.	0.14	30804.	1260.	9.74	0.0280	147.	46.	0.01
MILE 33.60	794.82	4374.	0.07	64105.	2201.	8.26	0.0290	189.	52.	0.00
MILE 31.50	794.81	4439.	0.14	31191.	1806.	10.48	0.0250	214.	56.	0.01
MILE 30.10	794.80	4511.	0.14	32907.	908.	10.05	0.0200	153.	54.	0.00
MILE 29.00	794.79	4549.	0.12	36548.	1083.	10.91	0.0200	171.	55.	0.00
MILE 27.30	794.78	4519.	0.12	37874.	1082.	11.29	0.0230	232.	58.	0.00
MILE 25.20	794.78	4443.	0.09	46821.	1080.	12.11	0.0230	257.	60.	0.00
MILE 23.10	794.78	4243.	0.11	38572.	1112.	11.55	0.0230	257.	65.	0.00

ODATE 3-18-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 6.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.58	2000.	2.72	736.	272.	2.20	0.0290	245.	4.	0.29
MILE 77.70	817.27	2260.	2.08	1089.	193.	2.57	0.0400	245.	7.	0.15
MILE 75.60	811.56	2525.	2.07	1221.	183.	2.78	0.0400	245.	5.	0.14
MILE 73.50	808.10	2802.	1.97	1423.	169.	3.12	0.0330	245.	9.	0.12
MILE 71.40	806.56	3082.	1.60	1925.	247.	2.88	0.0400	245.	9.	0.10
MILE 69.30	803.46	3369.	2.09	1610.	297.	2.55	0.0340	245.	5.	0.16
MILE 67.20	798.73	3655.	2.11	1729.	333.	2.53	0.0340	245.	8.	0.16
MILE 65.10	795.70	3908.	1.48	2637.	384.	3.57	0.0320	245.	9.	0.10

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 177 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 63.00	795.39	4199.	1.07	3917.	373.	4.88	0.0400	245.	14.	0.06
MILE 60.90	795.11	4585.	0.92	4979.	371.	5.98	0.0450	245.	19.	0.04
MILE 58.80	794.96	2930.	0.48	6104.	366.	6.26	0.0400	-1773.	22.	0.02
MILE 57.00	794.95	3225.	0.48	6774.	409.	6.22	0.0200	221.	20.	0.02
MILE 55.00	794.93	3603.	0.53	6829.	473.	6.63	0.0200	227.	21.	0.02
MILE 53.10	794.92	3984.	0.42	9479.	582.	6.16	0.0200	233.	22.	0.02
MILE 51.00	794.90	4377.	0.43	10102.	946.	6.24	0.0200	280.	26.	0.02
MILE 48.30	794.90	4619.	0.33	14053.	1670.	4.90	0.0200	280.	26.	0.02
MILE 46.20	794.88	5108.	0.31	16330.	1869.	6.88	0.0200	245.	33.	0.02
MILE 44.10	794.88	5376.	0.19	28672.	1552.	8.19	0.0300	146.	40.	0.01
MILE 43.70	794.88	5415.	0.37	14774.	1404.	8.18	0.0300	122.	42.	0.02
MILE 42.00	794.87	5534.	0.28	19827.	1370.	6.16	0.0300	268.	45.	0.01
MILE 39.10	794.85	6117.	0.33	18783.	1392.	7.94	0.0230	291.	44.	0.02
MILE 37.00	794.82	7088.	0.21	33141.	1151.	7.45	0.0280	181.	44.	0.01
MILE 36.00	794.81	7447.	0.37	20366.	926.	8.41	0.0280	140.	46.	0.01
MILE 34.60	794.80	7867.	0.26	30788.	1260.	9.73	0.0280	140.	46.	0.01
MILE 33.60	794.80	8200.	0.13	64065.	2199.	8.26	0.0290	181.	52.	0.00
MILE 31.50	794.79	8911.	0.29	31170.	1804.	10.48	0.0250	204.	56.	0.01
MILE 30.10	794.78	9239.	0.28	32887.	907.	10.05	0.0200	146.	54.	0.01
MILE 29.00	794.78	9491.	0.26	36533.	1082.	10.90	0.0200	163.	55.	0.01
MILE 27.30	794.77	9928.	0.26	37862.	1082.	11.29	0.0230	221.	58.	0.01
MILE 25.20	794.76	10327.	0.22	46804.	1079.	12.11	0.0230	245.	60.	0.01
MILE 23.10	794.74	10733.	0.28	38534.	1110.	11.54	0.0230	245.	65.	0.01

ODATE 3-18-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 7.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.57	2000.	2.73	733.	272.	2.20	0.0290	236.	4.	0.29
MILE 77.70	817.25	2244.	2.07	1082.	192.	2.56	0.0400	236.	7.	0.15
MILE 75.60	811.51	2494.	2.06	1209.	181.	2.76	0.0400	236.	5.	0.14
MILE 73.50	808.05	2757.	1.96	1410.	168.	3.10	0.0330	236.	9.	0.12
MILE 71.40	806.51	3022.	1.59	1903.	246.	2.86	0.0400	236.	9.	0.10
MILE 69.30	803.41	3292.	2.08	1586.	295.	2.53	0.0340	236.	5.	0.16
MILE 67.20	798.66	3569.	2.11	1695.	329.	2.51	0.0340	236.	8.	0.16
MILE 65.10	795.61	3897.	1.50	2602.	380.	3.54	0.0320	236.	9.	0.10
MILE 63.00	795.29	4269.	1.10	3883.	369.	4.86	0.0400	236.	14.	0.06
MILE 60.90	795.02	4581.	0.93	4947.	368.	5.95	0.0450	236.	18.	0.04
MILE 58.80	794.87	2886.	0.48	6071.	364.	6.24	0.0400	-1781.	22.	0.02
MILE 57.00	794.87	3164.	0.47	6740.	408.	6.20	0.0200	213.	20.	0.02
MILE 55.00	794.86	3485.	0.51	6803.	472.	6.62	0.0200	219.	21.	0.02
MILE 53.10	794.86	3805.	0.40	9442.	581.	6.15	0.0200	225.	22.	0.02
MILE 51.00	794.84	4281.	0.43	10070.	944.	6.23	0.0200	270.	26.	0.02
MILE 48.30	794.81	5508.	0.39	13952.	1666.	4.90	0.0200	270.	26.	0.02
MILE 46.20	794.80	6577.	0.40	16255.	1864.	6.87	0.0200	236.	33.	0.02
MILE 44.10	794.79	7410.	0.26	28563.	1547.	8.18	0.0300	140.	40.	0.01
MILE 43.70	794.79	7554.	0.51	14723.	1400.	8.18	0.0300	118.	42.	0.03

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE	42.00	794.77	8192.	0.42	19690.	1365.	6.16	0.0300	258.	45.	0.02
MILE	39.10	794.72	9483.	0.51	18679.	1386.	7.92	0.0230	281.	44.	0.02
MILE	37.00	794.72	10034.	0.30	32974.	1147.	7.43	0.0280	174.	43.	0.01
MILE	36.00	794.71	10269.	0.51	20281.	923.	8.40	0.0280	135.	46.	0.02
MILE	34.60	794.70	10628.	0.35	30681.	1255.	9.72	0.0280	135.	46.	0.01
MILE	33.60	794.69	10981.	0.17	63781.	2192.	8.24	0.0290	174.	52.	0.01
MILE	31.50	794.69	11861.	0.38	31079.	1798.	10.47	0.0250	197.	56.	0.02
MILE	30.10	794.68	12317.	0.38	32781.	904.	10.03	0.0200	140.	54.	0.01
MILE	29.00	794.68	12617.	0.35	36430.	1078.	10.89	0.0200	157.	55.	0.01
MILE	27.30	794.67	13137.	0.35	37760.	1078.	11.27	0.0230	213.	58.	0.01
MILE	25.20	794.66	13835.	0.30	46695.	1076.	12.09	0.0230	236.	60.	0.01
MILE	23.10	794.66	14263.	0.37	38458.	1107.	11.53	0.0230	236.	65.	0.01

ODATE 3-18-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 8.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	822.58	2000.	2.72	735.	272.	2.20	0.0290	227.	4.	0.29
MILE	77.70	817.22	2229.	2.07	1076.	192.	2.56	0.0400	227.	7.	0.15
MILE	75.60	811.47	2463.	2.06	1198.	180.	2.75	0.0400	227.	5.	0.14
MILE	73.50	807.99	2712.	1.94	1396.	167.	3.08	0.0330	227.	9.	0.12
MILE	71.40	806.45	2964.	1.58	1880.	245.	2.84	0.0400	227.	9.	0.10
MILE	69.30	803.36	3227.	2.06	1563.	294.	2.51	0.0340	227.	5.	0.16
MILE	67.20	798.60	3500.	2.10	1663.	327.	2.50	0.0340	227.	8.	0.16
MILE	65.10	795.51	3811.	1.49	2565.	376.	3.51	0.0320	227.	9.	0.10
MILE	63.00	795.19	4186.	1.09	3847.	364.	4.83	0.0400	227.	14.	0.06
MILE	60.90	794.89	4657.	0.95	4905.	366.	5.93	0.0450	227.	18.	0.05
MILE	58.80	794.73	3153.	0.52	6015.	363.	6.23	0.0400	-1789.	22.	0.02
MILE	57.00	794.72	3515.	0.53	6675.	406.	6.17	0.0200	205.	20.	0.02
MILE	55.00	794.71	3905.	0.58	6743.	469.	6.60	0.0200	211.	21.	0.03
MILE	53.10	794.69	4342.	0.46	9343.	578.	6.12	0.0200	216.	21.	0.02
MILE	51.00	794.68	5015.	0.50	9984.	939.	6.21	0.0200	259.	25.	0.03
MILE	48.30	794.66	6196.	0.45	13764.	1657.	4.90	0.0200	259.	26.	0.03
MILE	46.20	794.65	7050.	0.44	16121.	1854.	6.84	0.0200	227.	33.	0.03
MILE	44.10	794.65	8174.	0.29	28387.	1540.	8.15	0.0300	135.	39.	0.01
MILE	43.70	794.64	8350.	0.57	14643.	1393.	8.19	0.0300	114.	42.	0.03
MILE	42.00	794.63	8979.	0.46	19514.	1359.	6.16	0.0300	249.	45.	0.02
MILE	39.10	794.63	9425.	0.51	18597.	1382.	7.91	0.0230	270.	44.	0.02
MILE	37.00	794.64	9559.	0.29	32854.	1144.	7.41	0.0280	168.	43.	0.01
MILE	36.00	794.64	9616.	0.48	20230.	921.	8.40	0.0280	130.	46.	0.02
MILE	34.60	794.65	9678.	0.32	30635.	1253.	9.71	0.0280	130.	46.	0.01
MILE	33.60	794.65	9713.	0.15	63674.	2189.	8.23	0.0290	168.	52.	0.00
MILE	31.50	794.66	9808.	0.32	31056.	1797.	10.46	0.0250	189.	56.	0.01
MILE	30.10	794.67	9889.	0.30	32767.	904.	10.03	0.0200	135.	54.	0.01
MILE	29.00	794.67	9933.	0.27	36427.	1078.	10.89	0.0200	151.	55.	0.01
MILE	27.30	794.68	9895.	0.26	37773.	1079.	11.27	0.0230	205.	58.	0.01
MILE	25.20	794.70	9710.	0.21	46732.	1077.	12.10	0.0230	227.	60.	0.01

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 23.10 794.71 9746. 0.25 38506. 1109. 11.54 0.0230 227. 65. 0.01

ODATE 3-18-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 9.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.60	2000.	2.70	740.	272.	2.21	0.0290	219.	4.	0.29
MILE 77.70	817.21	2217.	2.07	1071.	191.	2.55	0.0400	219.	7.	0.15
MILE 75.60	811.44	2439.	2.05	1188.	179.	2.73	0.0400	219.	5.	0.14
MILE 73.50	807.94	2675.	1.93	1383.	166.	3.07	0.0330	219.	9.	0.12
MILE 71.40	806.40	2917.	1.57	1861.	244.	2.82	0.0400	219.	9.	0.10
MILE 69.30	803.32	3171.	2.05	1544.	292.	2.50	0.0340	219.	5.	0.16
MILE 67.20	798.53	3433.	2.11	1630.	323.	2.49	0.0340	219.	8.	0.17
MILE 65.10	795.34	3768.	1.51	2498.	368.	3.45	0.0320	219.	8.	0.10
MILE 63.00	795.01	4216.	1.12	3781.	355.	4.79	0.0400	219.	14.	0.06
MILE 60.90	794.70	4671.	0.96	4841.	364.	5.88	0.0450	219.	18.	0.05
MILE 58.80	794.55	3061.	0.51	5946.	360.	6.20	0.0400	-1796.	21.	0.02
MILE 57.00	794.54	3392.	0.51	6599.	404.	6.13	0.0200	198.	20.	0.02
MILE 55.00	794.54	3790.	0.57	6679.	467.	6.58	0.0200	204.	21.	0.03
MILE 53.10	794.54	4140.	0.45	9251.	575.	6.10	0.0200	209.	21.	0.02
MILE 51.00	794.56	4438.	0.45	9923.	935.	6.19	0.0200	251.	25.	0.02
MILE 48.30	794.58	4483.	0.33	13677.	1653.	4.90	0.0200	251.	26.	0.02
MILE 46.20	794.60	4886.	0.30	16071.	1851.	6.83	0.0200	219.	33.	0.02
MILE 44.10	794.62	4902.	0.17	28349.	1538.	8.15	0.0300	131.	39.	0.01
MILE 43.70	794.62	4901.	0.34	14630.	1392.	8.19	0.0300	110.	42.	0.02
MILE 42.00	794.64	4841.	0.25	19525.	1359.	6.16	0.0300	240.	45.	0.01
MILE 39.10	794.67	4860.	0.26	18632.	1384.	7.92	0.0230	261.	44.	0.01
MILE 37.00	794.68	5067.	0.15	32908.	1146.	7.42	0.0280	162.	43.	0.01
MILE 36.00	794.68	5185.	0.26	20261.	922.	8.40	0.0280	125.	46.	0.01
MILE 34.60	794.70	5314.	0.17	30680.	1255.	9.72	0.0280	125.	46.	0.01
MILE 33.60	794.70	5289.	0.08	63799.	2192.	8.24	0.0290	162.	52.	0.00
MILE 31.50	794.71	5012.	0.16	31099.	1799.	10.47	0.0250	183.	56.	0.01
MILE 30.10	794.72	5017.	0.15	32820.	905.	10.04	0.0200	131.	54.	0.00
MILE 29.00	794.73	5050.	0.14	36480.	1080.	10.90	0.0200	146.	55.	0.00
MILE 27.30	794.74	5092.	0.13	37830.	1081.	11.28	0.0230	198.	58.	0.00
MILE 25.20	794.75	5250.	0.11	46791.	1079.	12.10	0.0230	219.	60.	0.00
MILE 23.10	794.75	5426.	0.14	38544.	1111.	11.54	0.0230	219.	65.	0.00

ODATE 3-18-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 10.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80 822.62 2000. 2.68 745. 273. 2.21 0.0290 212. 4. 0.29

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 180 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 77.70	817.19	2209.	2.07	1068.	191.	2.55	0.0400	212.	6.	0.15
MILE 75.60	811.41	2423.	2.05	1181.	179.	2.72	0.0400	212.	5.	0.14
MILE 73.50	807.91	2649.	1.93	1373.	165.	3.05	0.0330	212.	9.	0.12
MILE 71.40	806.36	2880.	1.56	1845.	243.	2.80	0.0400	212.	9.	0.10
MILE 69.30	803.28	3124.	2.04	1528.	291.	2.49	0.0340	212.	5.	0.16
MILE 67.20	798.47	3379.	2.11	1599.	321.	2.47	0.0340	212.	8.	0.17
MILE 65.10	795.19	3693.	1.51	2438.	361.	3.40	0.0320	212.	8.	0.10
MILE 63.00	794.90	3970.	1.06	3742.	353.	4.77	0.0400	212.	14.	0.06
MILE 60.90	794.68	4086.	0.85	4832.	363.	5.87	0.0450	212.	18.	0.04
MILE 58.80	794.58	2147.	0.36	5960.	361.	6.21	0.0400	-1803.	22.	0.02
MILE 57.00	794.59	2205.	0.33	6620.	404.	6.14	0.0200	192.	20.	0.01
MILE 55.00	794.61	2231.	0.33	6705.	468.	6.59	0.0200	197.	21.	0.02
MILE 53.10	794.62	2193.	0.24	9298.	577.	6.11	0.0200	202.	21.	0.01
MILE 51.00	794.64	2079.	0.21	9964.	938.	6.20	0.0200	242.	25.	0.01
MILE 48.30	794.65	2020.	0.15	13755.	1657.	4.90	0.0200	242.	26.	0.01
MILE 46.20	794.67	1513.	0.09	16136.	1855.	6.84	0.0200	212.	33.	0.01
MILE 44.10	794.68	1271.	0.04	28423.	1541.	8.16	0.0300	126.	39.	0.00
MILE 43.70	794.68	1263.	0.09	14663.	1395.	8.19	0.0300	106.	42.	0.00
MILE 42.00	794.68	1391.	0.07	19580.	1361.	6.16	0.0300	232.	45.	0.00
MILE 39.10	794.68	1877.	0.10	18644.	1384.	7.92	0.0230	252.	44.	0.00
MILE 37.00	794.69	2144.	0.07	32928.	1146.	7.42	0.0280	156.	43.	0.00
MILE 36.00	794.69	2299.	0.11	20265.	922.	8.40	0.0280	121.	46.	0.00
MILE 34.60	794.68	2587.	0.08	30667.	1255.	9.72	0.0280	121.	46.	0.00
MILE 33.60	794.68	2874.	0.05	63745.	2191.	8.24	0.0290	156.	52.	0.00
MILE 31.50	794.68	3565.	0.11	31074.	1798.	10.47	0.0250	176.	56.	0.00
MILE 30.10	794.68	3934.	0.12	32782.	904.	10.03	0.0200	126.	54.	0.00
MILE 29.00	794.68	4214.	0.12	36435.	1079.	10.89	0.0200	141.	55.	0.00
MILE 27.30	794.68	4716.	0.12	37769.	1078.	11.27	0.0230	192.	58.	0.00
MILE 25.20	794.67	5209.	0.11	46709.	1076.	12.09	0.0230	212.	60.	0.00
MILE 23.10	794.68	5612.	0.15	38477.	1108.	11.53	0.0230	212.	65.	0.00

ODATE 3-18-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 11.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.63	2000.	2.67	749.	273.	2.22	0.0290	203.	4.	0.28
MILE 77.70	817.18	2203.	2.07	1065.	190.	2.55	0.0400	203.	6.	0.15
MILE 75.60	811.39	2410.	2.05	1176.	178.	2.72	0.0400	203.	5.	0.14
MILE 73.50	807.88	2629.	1.93	1365.	165.	3.05	0.0330	203.	9.	0.12
MILE 71.40	806.33	2854.	1.56	1833.	242.	2.79	0.0400	203.	9.	0.10
MILE 69.30	803.25	3093.	2.04	1517.	290.	2.48	0.0340	203.	5.	0.16
MILE 67.20	798.44	3337.	2.11	1583.	319.	2.47	0.0340	203.	8.	0.17
MILE 65.10	795.25	3542.	1.44	2460.	363.	3.42	0.0320	203.	8.	0.10
MILE 63.00	795.02	3576.	0.95	3783.	355.	4.79	0.0400	203.	14.	0.05
MILE 60.90	794.85	3598.	0.74	4889.	365.	5.91	0.0450	203.	18.	0.04
MILE 58.80	794.78	1577.	0.26	6034.	363.	6.23	0.0400	-1812.	22.	0.01
MILE 57.00	794.78	1545.	0.23	6701.	407.	6.18	0.0200	183.	20.	0.01

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE	55.00	794.77	1529.	0.23	6769.	470.	6.61	0.0200	188.	21.	0.01
MILE	53.10	794.76	1626.	0.17	9382.	579.	6.14	0.0200	193.	21.	0.01
MILE	51.00	794.74	1846.	0.18	10015.	941.	6.21	0.0200	232.	25.	0.01
MILE	48.30	794.71	2113.	0.15	13831.	1660.	4.90	0.0200	232.	26.	0.01
MILE	46.20	794.70	2285.	0.14	16165.	1857.	6.85	0.0200	203.	33.	0.01
MILE	44.10	794.69	2560.	0.09	28436.	1542.	8.16	0.0300	121.	39.	0.00
MILE	43.70	794.68	2612.	0.18	14666.	1395.	8.19	0.0300	101.	42.	0.01
MILE	42.00	794.67	2850.	0.15	19563.	1361.	6.16	0.0300	222.	45.	0.01
MILE	39.10	794.64	3349.	0.18	18611.	1382.	7.92	0.0230	241.	44.	0.01
MILE	37.00	794.62	3989.	0.12	32822.	1143.	7.40	0.0280	150.	43.	0.00
MILE	36.00	794.62	4207.	0.21	20207.	920.	8.40	0.0280	116.	46.	0.01
MILE	34.60	794.61	4471.	0.15	30592.	1252.	9.71	0.0280	116.	46.	0.01
MILE	33.60	794.60	4785.	0.08	63537.	2185.	8.22	0.0290	150.	52.	0.00
MILE	31.50	794.59	5703.	0.18	30991.	1792.	10.45	0.0250	169.	56.	0.01
MILE	30.10	794.58	6131.	0.19	32679.	901.	10.01	0.0200	121.	54.	0.01
MILE	29.00	794.58	6404.	0.18	36333.	1075.	10.87	0.0200	135.	55.	0.01
MILE	27.30	794.57	6864.	0.18	37664.	1075.	11.26	0.0230	183.	57.	0.01
MILE	25.20	794.56	7448.	0.16	46583.	1072.	12.08	0.0230	203.	60.	0.00
MILE	23.10	794.55	7962.	0.21	38353.	1103.	11.51	0.0230	203.	65.	0.01

ODATE 3-18-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 12.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	822.64	2000.	2.67	750.	273.	2.22	0.0290	194.	4.	0.28
MILE	77.70	817.17	2197.	2.07	1062.	190.	2.54	0.0400	194.	6.	0.15
MILE	75.60	811.37	2400.	2.05	1171.	178.	2.71	0.0400	194.	5.	0.14
MILE	73.50	807.85	2614.	1.92	1359.	164.	3.04	0.0330	194.	9.	0.12
MILE	71.40	806.31	2834.	1.55	1824.	242.	2.78	0.0400	194.	9.	0.10
MILE	69.30	803.23	3062.	2.03	1507.	289.	2.47	0.0340	194.	5.	0.16
MILE	67.20	798.41	3282.	2.09	1571.	318.	2.46	0.0340	194.	8.	0.17
MILE	65.10	795.36	3460.	1.38	2506.	369.	3.46	0.0320	194.	8.	0.09
MILE	63.00	795.10	3684.	0.97	3814.	359.	4.81	0.0400	194.	14.	0.05
MILE	60.90	794.88	3960.	0.81	4900.	366.	5.92	0.0450	194.	18.	0.04
MILE	58.80	794.76	2257.	0.37	6029.	363.	6.23	0.0400	-1820.	22.	0.02
MILE	57.00	794.75	2543.	0.38	6688.	407.	6.18	0.0200	175.	20.	0.02
MILE	55.00	794.73	2894.	0.43	6752.	470.	6.60	0.0200	180.	21.	0.02
MILE	53.10	794.71	3220.	0.34	9354.	578.	6.13	0.0200	185.	21.	0.02
MILE	51.00	794.69	3601.	0.36	9993.	939.	6.21	0.0200	222.	25.	0.02
MILE	48.30	794.66	4346.	0.32	13769.	1657.	4.90	0.0200	222.	26.	0.02
MILE	46.20	794.64	5289.	0.33	16109.	1854.	6.84	0.0200	194.	33.	0.02
MILE	44.10	794.62	5956.	0.21	28359.	1539.	8.15	0.0300	115.	39.	0.01
MILE	43.70	794.62	6063.	0.41	14630.	1392.	8.19	0.0300	97.	42.	0.02
MILE	42.00	794.60	6499.	0.33	19472.	1358.	6.16	0.0300	212.	45.	0.02
MILE	39.10	794.55	7431.	0.40	18537.	1378.	7.91	0.0230	231.	44.	0.02
MILE	37.00	794.54	8142.	0.25	32682.	1140.	7.39	0.0280	143.	43.	0.01
MILE	36.00	794.52	8393.	0.42	20133.	917.	8.39	0.0280	111.	46.	0.02

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 182 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 34.60	794.51	8721.	0.29	30497.	1248.	9.70	0.0280	111.	46.	0.01
MILE 33.60	794.51	9075.	0.14	63281.	2178.	8.21	0.0290	143.	52.	0.00
MILE 31.50	794.50	9989.	0.32	30906.	1787.	10.44	0.0250	162.	56.	0.01
MILE 30.10	794.49	10285.	0.32	32578.	898.	10.00	0.0200	115.	54.	0.01
MILE 29.00	794.48	10517.	0.29	36234.	1071.	10.86	0.0200	129.	55.	0.01
MILE 27.30	794.47	11012.	0.29	37565.	1071.	11.24	0.0230	175.	57.	0.01
MILE 25.20	794.45	11726.	0.25	46468.	1068.	12.06	0.0230	194.	60.	0.01
MILE 23.10	794.44	12334.	0.32	38249.	1099.	11.49	0.0230	194.	64.	0.01

ODATE 3-18-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 13.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.63	2000.	2.67	748.	273.	2.22	0.0290	185.	4.	0.28
MILE 77.70	817.16	2193.	2.07	1060.	190.	2.54	0.0400	185.	6.	0.15
MILE 75.60	811.35	2390.	2.05	1166.	177.	2.70	0.0400	185.	5.	0.14
MILE 73.50	807.83	2597.	1.92	1354.	164.	3.03	0.0330	185.	9.	0.12
MILE 71.40	806.28	2806.	1.55	1813.	241.	2.77	0.0400	185.	8.	0.10
MILE 69.30	803.20	3015.	2.02	1493.	288.	2.46	0.0340	185.	5.	0.16
MILE 67.20	798.37	3224.	2.08	1547.	316.	2.45	0.0340	185.	8.	0.17
MILE 65.10	795.27	3486.	1.41	2469.	364.	3.43	0.0320	185.	8.	0.10
MILE 63.00	794.98	3855.	1.02	3771.	354.	4.79	0.0400	185.	14.	0.06
MILE 60.90	794.72	4288.	0.89	4845.	364.	5.88	0.0450	185.	18.	0.04
MILE 58.80	794.57	2774.	0.47	5954.	361.	6.21	0.0400	-1828.	21.	0.02
MILE 57.00	794.56	3151.	0.48	6606.	404.	6.14	0.0200	168.	20.	0.02
MILE 55.00	794.55	3561.	0.53	6682.	467.	6.58	0.0200	172.	21.	0.02
MILE 53.10	794.54	3989.	0.43	9246.	575.	6.09	0.0200	177.	21.	0.02
MILE 51.00	794.52	4633.	0.47	9905.	934.	6.19	0.0200	212.	25.	0.03
MILE 48.30	794.50	5901.	0.43	13583.	1649.	4.90	0.0200	212.	26.	0.03
MILE 46.20	794.49	6973.	0.44	15980.	1845.	6.82	0.0200	185.	33.	0.03
MILE 44.10	794.48	8162.	0.29	28191.	1531.	8.12	0.0300	110.	39.	0.01
MILE 43.70	794.48	8356.	0.57	14554.	1385.	8.20	0.0300	93.	41.	0.03
MILE 42.00	794.46	9133.	0.47	19294.	1351.	6.16	0.0300	203.	44.	0.02
MILE 39.10	794.42	10173.	0.55	18427.	1372.	7.90	0.0230	221.	43.	0.03
MILE 37.00	794.42	10594.	0.33	32501.	1136.	7.36	0.0280	137.	43.	0.01
MILE 36.00	794.42	10783.	0.54	20044.	914.	8.38	0.0280	106.	45.	0.02
MILE 34.60	794.41	11071.	0.36	30394.	1243.	9.68	0.0280	106.	46.	0.01
MILE 33.60	794.41	11332.	0.18	63014.	2171.	8.19	0.0290	137.	52.	0.01
MILE 31.50	794.41	11953.	0.39	30825.	1781.	10.43	0.0250	154.	56.	0.02
MILE 30.10	794.40	12331.	0.38	32489.	895.	9.98	0.0200	110.	54.	0.01
MILE 29.00	794.40	12540.	0.35	36153.	1068.	10.84	0.0200	124.	55.	0.01
MILE 27.30	794.40	12800.	0.34	37493.	1068.	11.23	0.0230	168.	57.	0.01
MILE 25.20	794.40	13075.	0.28	46408.	1066.	12.06	0.0230	185.	60.	0.01
MILE 23.10	794.40	13396.	0.35	38210.	1098.	11.49	0.0230	185.	64.	0.01

TVA

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

0DATE 3-18-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 14.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.62	2000.	2.69	744.	273.	2.21	0.0290	177.	4.	0.29
MILE 77.70	817.15	2186.	2.07	1056.	189.	2.54	0.0400	177.	6.	0.15
MILE 75.60	811.33	2374.	2.05	1160.	177.	2.69	0.0400	177.	5.	0.14
MILE 73.50	807.80	2570.	1.91	1346.	163.	3.02	0.0330	177.	9.	0.12
MILE 71.40	806.25	2767.	1.54	1799.	241.	2.76	0.0400	177.	8.	0.10
MILE 69.30	803.16	2967.	2.01	1476.	287.	2.45	0.0340	177.	4.	0.16
MILE 67.20	798.31	3177.	2.09	1520.	313.	2.44	0.0340	177.	8.	0.17
MILE 65.10	795.07	3467.	1.45	2391.	355.	3.36	0.0320	177.	8.	0.10
MILE 63.00	794.77	3886.	1.05	3697.	351.	4.75	0.0400	177.	14.	0.06
MILE 60.90	794.49	4333.	0.91	4770.	361.	5.83	0.0450	177.	18.	0.04
MILE 58.80	794.35	2756.	0.47	5871.	358.	6.18	0.0400	-1836.	21.	0.02
MILE 57.00	794.34	3113.	0.48	6512.	401.	6.09	0.0200	160.	20.	0.02
MILE 55.00	794.33	3550.	0.54	6601.	464.	6.55	0.0200	164.	21.	0.03
MILE 53.10	794.33	4006.	0.44	9118.	571.	6.06	0.0200	168.	21.	0.02
MILE 51.00	794.33	4599.	0.47	9803.	928.	6.16	0.0200	202.	25.	0.03
MILE 48.30	794.33	5490.	0.41	13377.	1639.	4.90	0.0200	202.	25.	0.03
MILE 46.20	794.33	6477.	0.41	15833.	1834.	6.79	0.0200	177.	33.	0.02
MILE 44.10	794.34	7368.	0.26	28011.	1524.	8.10	0.0300	105.	39.	0.01
MILE 43.70	794.33	7506.	0.52	14475.	1379.	8.21	0.0300	88.	41.	0.03
MILE 42.00	794.33	8001.	0.42	19138.	1345.	6.16	0.0300	194.	44.	0.02
MILE 39.10	794.33	8690.	0.47	18351.	1368.	7.89	0.0230	210.	43.	0.02
MILE 37.00	794.33	9188.	0.28	32354.	1132.	7.34	0.0280	130.	43.	0.01
MILE 36.00	794.33	9424.	0.47	19976.	911.	8.37	0.0280	101.	45.	0.02
MILE 34.60	794.34	9757.	0.32	30323.	1240.	9.67	0.0280	101.	46.	0.01
MILE 33.60	794.34	9983.	0.16	62835.	2166.	8.17	0.0290	130.	51.	0.01
MILE 31.50	794.34	10361.	0.34	30769.	1778.	10.42	0.0250	147.	56.	0.01
MILE 30.10	794.35	10654.	0.33	32430.	894.	9.97	0.0200	105.	54.	0.01
MILE 29.00	794.35	10820.	0.30	36104.	1067.	10.83	0.0200	118.	55.	0.01
MILE 27.30	794.36	11008.	0.29	37457.	1067.	11.23	0.0230	160.	57.	0.01
MILE 25.20	794.37	11168.	0.24	46376.	1065.	12.05	0.0230	177.	60.	0.01
MILE 23.10	794.37	11530.	0.30	38182.	1097.	11.48	0.0230	177.	64.	0.01

0DATE 3-18-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 15.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.61	2000.	2.69	744.	273.	2.21	0.0290	171.	4.	0.29
MILE 77.70	817.13	2175.	2.07	1052.	189.	2.53	0.0400	171.	6.	0.15
MILE 75.60	811.30	2353.	2.04	1152.	176.	2.68	0.0400	171.	5.	0.14
MILE 73.50	807.76	2540.	1.90	1336.	162.	3.01	0.0330	171.	9.	0.12
MILE 71.40	806.21	2730.	1.53	1784.	240.	2.75	0.0400	171.	8.	0.10

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 69.30	803.13	2929.	2.00	1463.	286.	2.43	0.0340	171.	4.	0.16
MILE 67.20	798.26	3137.	2.10	1494.	310.	2.43	0.0340	171.	8.	0.17
MILE 65.10	794.87	3419.	1.48	2312.	347.	3.30	0.0320	171.	8.	0.10
MILE 63.00	794.57	3790.	1.04	3629.	348.	4.71	0.0400	171.	14.	0.06
MILE 60.90	794.32	4103.	0.87	4713.	359.	5.79	0.0450	171.	18.	0.04
MILE 58.80	794.20	2376.	0.41	5818.	356.	6.16	0.0400	-1841.	21.	0.02
MILE 57.00	794.20	2618.	0.41	6454.	399.	6.06	0.0200	155.	19.	0.02
MILE 55.00	794.21	2900.	0.44	6554.	462.	6.53	0.0200	159.	21.	0.02
MILE 53.10	794.21	3163.	0.35	9048.	569.	6.03	0.0200	163.	21.	0.02
MILE 51.00	794.22	3475.	0.36	9749.	925.	6.14	0.0200	196.	25.	0.02
MILE 48.30	794.23	4018.	0.30	13264.	1633.	4.91	0.0200	196.	25.	0.02
MILE 46.20	794.24	4561.	0.29	15752.	1829.	6.77	0.0200	171.	32.	0.02
MILE 44.10	794.25	4976.	0.18	27907.	1519.	8.08	0.0300	102.	39.	0.01
MILE 43.70	794.25	5051.	0.35	14430.	1375.	8.21	0.0300	86.	41.	0.02
MILE 42.00	794.26	5384.	0.28	19041.	1342.	6.16	0.0300	188.	44.	0.01
MILE 39.10	794.26	6120.	0.33	18290.	1364.	7.88	0.0230	204.	43.	0.02
MILE 37.00	794.26	6594.	0.20	32241.	1130.	7.32	0.0280	126.	43.	0.01
MILE 36.00	794.26	6839.	0.34	19919.	909.	8.36	0.0280	98.	45.	0.01
MILE 34.60	794.26	7236.	0.24	30247.	1237.	9.66	0.0280	98.	46.	0.01
MILE 33.60	794.26	7561.	0.12	62625.	2160.	8.16	0.0290	126.	51.	0.00
MILE 31.50	794.27	8198.	0.27	30698.	1773.	10.41	0.0250	143.	55.	0.01
MILE 30.10	794.27	8551.	0.26	32352.	891.	9.96	0.0200	102.	53.	0.01
MILE 29.00	794.27	8802.	0.24	36027.	1064.	10.82	0.0200	114.	55.	0.01
MILE 27.30	794.27	9248.	0.25	37373.	1064.	11.21	0.0230	155.	57.	0.01
MILE 25.20	794.28	9769.	0.21	46273.	1062.	12.04	0.0230	171.	60.	0.01
MILE 23.10	794.28	10238.	0.27	38096.	1093.	11.47	0.0230	171.	64.	0.01

ODATE 3-18-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 16.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.62	2000.	2.68	746.	273.	2.22	0.0290	166.	4.	0.29
MILE 77.70	817.12	2166.	2.07	1048.	188.	2.53	0.0400	166.	6.	0.15
MILE 75.60	811.28	2336.	2.04	1145.	175.	2.67	0.0400	166.	5.	0.14
MILE 73.50	807.73	2517.	1.89	1328.	162.	3.00	0.0330	166.	9.	0.12
MILE 71.40	806.18	2703.	1.53	1772.	239.	2.73	0.0400	166.	8.	0.10
MILE 69.30	803.11	2901.	2.00	1452.	285.	2.43	0.0340	166.	4.	0.16
MILE 67.20	798.22	3104.	2.10	1475.	308.	2.42	0.0340	166.	8.	0.17
MILE 65.10	794.75	3341.	1.47	2268.	343.	3.26	0.0320	166.	8.	0.10
MILE 63.00	794.49	3569.	0.99	3599.	347.	4.70	0.0400	166.	13.	0.05
MILE 60.90	794.28	3758.	0.80	4698.	358.	5.78	0.0450	166.	18.	0.04
MILE 58.80	794.19	1923.	0.33	5811.	356.	6.16	0.0400	-1846.	21.	0.01
MILE 57.00	794.19	2049.	0.32	6447.	399.	6.06	0.0200	150.	19.	0.01
MILE 55.00	794.19	2183.	0.33	6548.	461.	6.53	0.0200	154.	21.	0.02
MILE 53.10	794.19	2341.	0.26	9036.	568.	6.03	0.0200	158.	21.	0.01
MILE 51.00	794.19	2600.	0.27	9734.	924.	6.14	0.0200	190.	25.	0.01
MILE 48.30	794.18	3167.	0.24	13210.	1631.	4.91	0.0200	190.	25.	0.01

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MILE 46.20	794.19	3508.	0.22	15705.	1825.	6.76	0.0200	166.	32.	0.01
MILE 44.10	794.18	4021.	0.14	27830.	1516.	8.07	0.0300	99.	39.	0.01
MILE 43.70	794.18	4112.	0.29	14395.	1372.	8.22	0.0300	83.	41.	0.02
MILE 42.00	794.18	4498.	0.24	18948.	1338.	6.16	0.0300	182.	44.	0.01
MILE 39.10	794.18	5017.	0.28	18227.	1361.	7.87	0.0230	197.	43.	0.01
MILE 37.00	794.18	5378.	0.17	32111.	1127.	7.31	0.0280	122.	43.	0.01
MILE 36.00	794.18	5493.	0.28	19856.	907.	8.36	0.0280	95.	45.	0.01
MILE 34.60	794.19	5640.	0.19	30172.	1234.	9.65	0.0280	95.	46.	0.01
MILE 33.60	794.19	5856.	0.09	62420.	2155.	8.14	0.0290	122.	51.	0.00
MILE 31.50	794.18	6543.	0.21	30624.	1768.	10.40	0.0250	138.	55.	0.01
MILE 30.10	794.19	6820.	0.21	32265.	889.	9.94	0.0200	99.	53.	0.01
MILE 29.00	794.19	7002.	0.19	35945.	1061.	10.81	0.0200	111.	54.	0.01
MILE 27.30	794.19	7316.	0.20	37292.	1061.	11.20	0.0230	150.	57.	0.01
MILE 25.20	794.19	7699.	0.17	46181.	1059.	12.03	0.0230	166.	60.	0.00
MILE 23.10	794.20	8027.	0.21	38020.	1090.	11.46	0.0230	166.	64.	0.01

ODATE 3-18-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 17.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.63	2000.	2.67	749.	273.	2.22	0.0290	162.	4.	0.28
MILE 77.70	817.11	2162.	2.07	1047.	188.	2.53	0.0400	162.	6.	0.15
MILE 75.60	811.26	2328.	2.04	1141.	175.	2.67	0.0400	162.	5.	0.14
MILE 73.50	807.71	2504.	1.89	1323.	161.	2.99	0.0330	162.	9.	0.12
MILE 71.40	806.16	2687.	1.52	1764.	239.	2.73	0.0400	162.	8.	0.10
MILE 69.30	803.09	2879.	1.99	1445.	285.	2.42	0.0340	162.	4.	0.16
MILE 67.20	798.19	3072.	2.10	1461.	307.	2.41	0.0340	162.	7.	0.17
MILE 65.10	794.73	3269.	1.45	2259.	342.	3.26	0.0320	162.	8.	0.10
MILE 63.00	794.47	3468.	0.96	3594.	347.	4.69	0.0400	162.	13.	0.05
MILE 60.90	794.26	3695.	0.79	4693.	358.	5.78	0.0450	162.	18.	0.04
MILE 58.80	794.17	1908.	0.33	5804.	356.	6.16	0.0400	-1849.	21.	0.01
MILE 57.00	794.16	2085.	0.32	6436.	398.	6.05	0.0200	147.	19.	0.01
MILE 55.00	794.16	2295.	0.35	6535.	461.	6.53	0.0200	151.	21.	0.02
MILE 53.10	794.15	2507.	0.28	9012.	568.	6.02	0.0200	154.	21.	0.01
MILE 51.00	794.15	2742.	0.28	9713.	922.	6.13	0.0200	185.	25.	0.02
MILE 48.30	794.15	2976.	0.23	13172.	1629.	4.91	0.0200	185.	25.	0.01
MILE 46.20	794.14	3397.	0.22	15670.	1823.	6.76	0.0200	162.	32.	0.01
MILE 44.10	794.15	3714.	0.13	27783.	1514.	8.07	0.0300	96.	39.	0.01
MILE 43.70	794.14	3766.	0.26	14375.	1370.	8.22	0.0300	81.	41.	0.01
MILE 42.00	794.14	3977.	0.21	18903.	1337.	6.16	0.0300	178.	44.	0.01
MILE 39.10	794.14	4449.	0.24	18192.	1359.	7.87	0.0230	193.	43.	0.01
MILE 37.00	794.13	4996.	0.16	32025.	1125.	7.29	0.0280	120.	43.	0.01
MILE 36.00	794.13	5173.	0.26	19811.	905.	8.35	0.0280	93.	45.	0.01
MILE 34.60	794.13	5379.	0.18	30113.	1232.	9.65	0.0280	93.	46.	0.01
MILE 33.60	794.13	5631.	0.09	62260.	2150.	8.13	0.0290	120.	51.	0.00
MILE 31.50	794.12	6333.	0.21	30567.	1764.	10.39	0.0250	135.	55.	0.01
MILE 30.10	794.12	6503.	0.20	32196.	887.	9.93	0.0200	96.	53.	0.01

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MILE	29.00	794.12	6656.	0.19	35876.	1058.	10.80	0.0200	108.	54.	0.01
MILE	27.30	794.12	7029.	0.19	37222.	1058.	11.19	0.0230	147.	57.	0.01
MILE	25.20	794.12	7614.	0.17	46097.	1056.	12.02	0.0230	162.	60.	0.00
MILE	23.10	794.11	8072.	0.21	37935.	1087.	11.44	0.0230	162.	64.	0.01

ODATE 3-18-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 18.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	822.63	2000.	2.68	747.	273.	2.22	0.0290	158.	4.	0.29
MILE	77.70	817.11	2163.	2.07	1046.	188.	2.53	0.0400	158.	6.	0.15
MILE	75.60	811.26	2328.	2.04	1140.	175.	2.66	0.0400	158.	5.	0.14
MILE	73.50	807.70	2501.	1.89	1321.	161.	2.99	0.0330	158.	9.	0.12
MILE	71.40	806.15	2677.	1.52	1759.	239.	2.72	0.0400	158.	8.	0.10
MILE	69.30	803.08	2859.	1.99	1439.	284.	2.42	0.0340	158.	4.	0.16
MILE	67.20	798.16	3039.	2.10	1447.	306.	2.41	0.0340	158.	7.	0.17
MILE	65.10	794.68	3239.	1.45	2241.	341.	3.24	0.0320	158.	8.	0.10
MILE	63.00	794.43	3455.	0.97	3578.	346.	4.68	0.0400	158.	13.	0.05
MILE	60.90	794.22	3644.	0.78	4679.	358.	5.77	0.0450	158.	18.	0.04
MILE	58.80	794.13	1843.	0.32	5790.	355.	6.15	0.0400	-1853.	21.	0.01
MILE	57.00	794.13	2029.	0.32	6420.	398.	6.04	0.0200	143.	19.	0.01
MILE	55.00	794.12	2241.	0.34	6521.	460.	6.52	0.0200	147.	21.	0.02
MILE	53.10	794.12	2438.	0.27	8990.	567.	6.02	0.0200	151.	21.	0.01
MILE	51.00	794.12	2694.	0.28	9695.	921.	6.13	0.0200	181.	25.	0.02
MILE	48.30	794.10	3288.	0.25	13121.	1626.	4.91	0.0200	181.	25.	0.02
MILE	46.20	794.10	3807.	0.24	15629.	1820.	6.75	0.0200	158.	32.	0.01
MILE	44.10	794.09	4328.	0.16	27722.	1511.	8.06	0.0300	94.	39.	0.01
MILE	43.70	794.09	4419.	0.31	14347.	1367.	8.23	0.0300	79.	41.	0.02
MILE	42.00	794.08	4820.	0.26	18828.	1334.	6.16	0.0300	173.	44.	0.01
MILE	39.10	794.06	5520.	0.30	18131.	1355.	7.86	0.0230	188.	43.	0.01
MILE	37.00	794.06	5911.	0.19	31916.	1122.	7.28	0.0280	117.	43.	0.01
MILE	36.00	794.06	6070.	0.31	19754.	903.	8.35	0.0280	90.	45.	0.01
MILE	34.60	794.05	6308.	0.21	30035.	1228.	9.64	0.0280	90.	46.	0.01
MILE	33.60	794.05	6560.	0.11	62045.	2145.	8.12	0.0290	117.	51.	0.00
MILE	31.50	794.05	7219.	0.24	30499.	1760.	10.38	0.0250	132.	55.	0.01
MILE	30.10	794.04	7532.	0.23	32113.	884.	9.92	0.0200	94.	53.	0.01
MILE	29.00	794.04	7735.	0.22	35793.	1055.	10.78	0.0200	106.	54.	0.01
MILE	27.30	794.03	8081.	0.22	37137.	1055.	11.18	0.0230	143.	57.	0.01
MILE	25.20	794.03	8547.	0.19	46006.	1053.	12.00	0.0230	158.	60.	0.00
MILE	23.10	794.03	8969.	0.24	37859.	1084.	11.43	0.0230	158.	64.	0.01

ODATE 3-18-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

TIME 19.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.61	2000.	2.69	743.	273.	2.21	0.0290	155.	4.	0.29
MILE 77.70	817.11	2163.	2.07	1046.	188.	2.53	0.0400	155.	6.	0.15
MILE 75.60	811.25	2328.	2.04	1139.	175.	2.66	0.0400	155.	5.	0.14
MILE 73.50	807.70	2496.	1.89	1319.	161.	2.99	0.0330	155.	8.	0.12
MILE 71.40	806.14	2667.	1.52	1756.	239.	2.72	0.0400	155.	8.	0.10
MILE 69.30	803.06	2839.	1.98	1432.	284.	2.41	0.0340	155.	4.	0.16
MILE 67.20	798.13	3012.	2.10	1435.	304.	2.40	0.0340	155.	7.	0.17
MILE 65.10	794.64	3203.	1.44	2222.	339.	3.23	0.0320	155.	8.	0.10
MILE 63.00	794.38	3424.	0.96	3561.	345.	4.67	0.0400	155.	13.	0.05
MILE 60.90	794.16	3687.	0.79	4659.	357.	5.75	0.0450	155.	18.	0.04
MILE 58.80	794.06	1970.	0.34	5763.	354.	6.14	0.0400	-1856.	21.	0.01
MILE 57.00	794.05	2192.	0.34	6388.	397.	6.03	0.0200	140.	19.	0.02
MILE 55.00	794.04	2445.	0.38	6492.	459.	6.51	0.0200	144.	21.	0.02
MILE 53.10	794.04	2728.	0.31	8940.	565.	6.00	0.0200	148.	21.	0.01
MILE 51.00	794.03	3139.	0.33	9650.	918.	6.12	0.0200	177.	25.	0.02
MILE 48.30	794.02	3807.	0.29	13023.	1622.	4.91	0.0200	177.	25.	0.02
MILE 46.20	794.01	4406.	0.28	15553.	1815.	6.73	0.0200	155.	32.	0.02
MILE 44.10	794.01	5082.	0.18	27620.	1507.	8.04	0.0300	92.	39.	0.01
MILE 43.70	794.01	5193.	0.36	14302.	1363.	8.23	0.0300	77.	41.	0.02
MILE 42.00	794.00	5626.	0.30	18725.	1330.	6.16	0.0300	170.	44.	0.01
MILE 39.10	793.99	6245.	0.35	18070.	1352.	7.85	0.0230	184.	43.	0.02
MILE 37.00	793.98	6632.	0.21	31791.	1119.	7.26	0.0280	114.	43.	0.01
MILE 36.00	793.98	6828.	0.35	19693.	900.	8.34	0.0280	89.	45.	0.01
MILE 34.60	793.98	7132.	0.24	29966.	1225.	9.63	0.0280	89.	45.	0.01
MILE 33.60	793.98	7371.	0.12	61866.	2140.	8.10	0.0290	114.	51.	0.00
MILE 31.50	793.98	7857.	0.26	30438.	1755.	10.37	0.0250	129.	55.	0.01
MILE 30.10	793.97	8229.	0.26	32040.	882.	9.90	0.0200	92.	53.	0.01
MILE 29.00	793.97	8435.	0.24	35724.	1053.	10.77	0.0200	103.	54.	0.01
MILE 27.30	793.97	8672.	0.23	37076.	1053.	11.17	0.0230	140.	57.	0.01
MILE 25.20	793.98	8871.	0.19	45945.	1051.	12.00	0.0230	155.	59.	0.01
MILE 23.10	793.97	9276.	0.25	37802.	1082.	11.42	0.0230	155.	64.	0.01

ODATE 3-18-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 20.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.59	2000.	2.71	737.	272.	2.20	0.0290	151.	4.	0.29
MILE 77.70	817.10	2160.	2.07	1044.	188.	2.53	0.0400	151.	6.	0.15
MILE 75.60	811.24	2322.	2.04	1137.	175.	2.66	0.0400	151.	5.	0.14
MILE 73.50	807.69	2488.	1.89	1317.	161.	2.99	0.0330	151.	8.	0.12
MILE 71.40	806.13	2653.	1.52	1751.	238.	2.71	0.0400	151.	8.	0.10
MILE 69.30	803.05	2821.	1.98	1426.	283.	2.40	0.0340	151.	4.	0.16
MILE 67.20	798.11	2988.	2.10	1423.	303.	2.40	0.0340	151.	7.	0.17
MILE 65.10	794.55	3187.	1.46	2188.	336.	3.20	0.0320	151.	8.	0.10

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE	63.00	794.27	3469.	0.98	3525.	344.	4.65	0.0400	151.	13.	0.05
MILE	60.90	794.05	3754.	0.81	4620.	356.	5.72	0.0450	151.	18.	0.04
MILE	58.80	793.94	2021.	0.35	5720.	353.	6.13	0.0400	-1859.	21.	0.02
MILE	57.00	793.94	2265.	0.36	6339.	395.	6.00	0.0200	137.	19.	0.02
MILE	55.00	793.93	2564.	0.40	6450.	457.	6.49	0.0200	141.	20.	0.02
MILE	53.10	793.93	2855.	0.32	8876.	563.	5.98	0.0200	144.	21.	0.01
MILE	51.00	793.93	3204.	0.33	9601.	915.	6.10	0.0200	173.	25.	0.02
MILE	48.30	793.93	3778.	0.29	12923.	1617.	4.91	0.0200	173.	25.	0.02
MILE	46.20	793.92	4486.	0.29	15475.	1809.	6.72	0.0200	151.	32.	0.02
MILE	44.10	793.92	5085.	0.18	27519.	1502.	8.03	0.0300	90.	39.	0.01
MILE	43.70	793.92	5197.	0.36	14257.	1359.	8.24	0.0300	76.	41.	0.02
MILE	42.00	793.91	5763.	0.31	18616.	1326.	6.16	0.0300	166.	44.	0.01
MILE	39.10	793.85	7640.	0.43	17956.	1346.	7.84	0.0230	180.	43.	0.02
MILE	37.00	793.80	9445.	0.30	31502.	1112.	7.22	0.0280	112.	43.	0.01
MILE	36.00	793.78	10198.	0.52	19534.	894.	8.32	0.0280	87.	45.	0.02
MILE	34.60	793.76	11299.	0.38	29745.	1216.	9.60	0.0280	87.	45.	0.01
MILE	33.60	793.75	12358.	0.20	61244.	2123.	8.06	0.0290	112.	51.	0.01
MILE	31.50	793.72	14786.	0.49	30207.	1740.	10.33	0.0250	126.	55.	0.02
MILE	30.10	793.70	15949.	0.50	31755.	874.	9.85	0.0200	90.	53.	0.01
MILE	29.00	793.68	16721.	0.47	35439.	1043.	10.73	0.0200	101.	54.	0.01
MILE	27.30	793.66	18116.	0.49	36771.	1042.	11.12	0.0230	137.	57.	0.01
MILE	25.20	793.63	19695.	0.43	45565.	1039.	11.95	0.0230	151.	59.	0.01
MILE	23.10	793.59	21091.	0.56	37441.	1068.	11.36	0.0230	151.	64.	0.02

ODATE 3-18-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 21.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	822.57	2000.	2.73	733.	272.	2.20	0.0290	149.	4.	0.29
MILE	77.70	817.10	2155.	2.07	1042.	188.	2.52	0.0400	149.	6.	0.15
MILE	75.60	811.23	2313.	2.04	1133.	174.	2.65	0.0400	149.	5.	0.14
MILE	73.50	807.67	2475.	1.88	1314.	161.	2.98	0.0330	149.	8.	0.12
MILE	71.40	806.11	2637.	1.51	1745.	238.	2.71	0.0400	149.	8.	0.10
MILE	69.30	803.03	2802.	1.97	1420.	283.	2.40	0.0340	149.	4.	0.16
MILE	67.20	798.08	2968.	2.10	1411.	302.	2.39	0.0340	149.	7.	0.17
MILE	65.10	794.44	3166.	1.47	2147.	332.	3.16	0.0320	149.	7.	0.10
MILE	63.00	794.17	3418.	0.98	3490.	342.	4.63	0.0400	149.	13.	0.05
MILE	60.90	793.95	3656.	0.80	4588.	355.	5.70	0.0450	149.	17.	0.04
MILE	58.80	793.85	1914.	0.34	5686.	352.	6.12	0.0400	-1862.	21.	0.01
MILE	57.00	793.84	2154.	0.34	6298.	394.	5.98	0.0200	135.	19.	0.02
MILE	55.00	793.83	2479.	0.39	6410.	456.	6.48	0.0200	138.	20.	0.02
MILE	53.10	793.80	2943.	0.33	8798.	561.	5.96	0.0200	142.	21.	0.01
MILE	51.00	793.76	3856.	0.41	9515.	910.	6.08	0.0200	170.	24.	0.02
MILE	48.30	793.68	6302.	0.50	12655.	1603.	4.92	0.0200	170.	25.	0.03
MILE	46.20	793.65	8480.	0.56	15229.	1792.	6.67	0.0200	149.	32.	0.03
MILE	44.10	793.61	10625.	0.39	27148.	1486.	7.97	0.0300	89.	38.	0.02
MILE	43.70	793.60	10974.	0.78	14090.	1344.	8.26	0.0300	74.	41.	0.04

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
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MILE 42.00	793.54	12421.	0.68	18173.	1309.	6.16	0.0300	163.	44.	0.03
MILE 39.10	793.43	14736.	0.84	17618.	1326.	7.80	0.0230	177.	42.	0.04
MILE 37.00	793.42	15721.	0.51	30885.	1097.	7.13	0.0280	110.	42.	0.02
MILE 36.00	793.40	16096.	0.84	19230.	882.	8.29	0.0280	85.	44.	0.03
MILE 34.60	793.38	16672.	0.57	29377.	1200.	9.55	0.0280	85.	45.	0.02
MILE 33.60	793.38	17371.	0.29	60268.	2096.	7.99	0.0290	110.	50.	0.01
MILE 31.50	793.36	19287.	0.65	29887.	1719.	10.28	0.0250	124.	55.	0.03
MILE 30.10	793.35	20114.	0.64	31395.	863.	9.79	0.0200	89.	53.	0.02
MILE 29.00	793.35	20578.	0.59	35105.	1031.	10.67	0.0200	99.	54.	0.02
MILE 27.30	793.34	21312.	0.58	36458.	1030.	11.08	0.0230	135.	56.	0.02
MILE 25.20	793.33	22213.	0.49	45246.	1028.	11.90	0.0230	149.	59.	0.01
MILE 23.10	793.34	22973.	0.62	37205.	1059.	11.33	0.0230	149.	63.	0.02

ODATE 3-18-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 22.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.56	2000.	2.74	731.	272.	2.19	0.0290	146.	4.	0.29
MILE 77.70	817.09	2151.	2.07	1040.	188.	2.52	0.0400	146.	6.	0.15
MILE 75.60	811.22	2304.	2.04	1130.	174.	2.65	0.0400	146.	5.	0.14
MILE 73.50	807.66	2462.	1.88	1310.	160.	2.98	0.0330	146.	8.	0.12
MILE 71.40	806.10	2621.	1.51	1739.	238.	2.70	0.0400	146.	8.	0.10
MILE 69.30	803.02	2785.	1.97	1414.	282.	2.39	0.0340	146.	4.	0.16
MILE 67.20	798.06	2948.	2.11	1400.	301.	2.39	0.0340	146.	7.	0.17
MILE 65.10	794.31	3147.	1.50	2098.	327.	3.12	0.0320	146.	7.	0.10
MILE 63.00	793.97	3622.	1.06	3422.	339.	4.60	0.0400	146.	13.	0.06
MILE 60.90	793.63	4324.	0.97	4480.	351.	5.62	0.0450	146.	17.	0.05
MILE 58.80	793.42	3117.	0.56	5529.	347.	6.06	0.0400	-1864.	20.	0.02
MILE 57.00	793.40	3750.	0.61	6110.	388.	5.89	0.0200	132.	19.	0.03
MILE 55.00	793.37	4477.	0.72	6243.	449.	6.42	0.0200	136.	20.	0.03
MILE 53.10	793.35	5237.	0.61	8528.	552.	5.87	0.0200	139.	20.	0.03
MILE 51.00	793.33	6295.	0.68	9297.	896.	6.02	0.0200	167.	24.	0.04
MILE 48.30	793.30	8042.	0.66	12246.	1582.	4.94	0.0200	167.	24.	0.04
MILE 46.20	793.28	9804.	0.66	14909.	1769.	6.61	0.0200	146.	31.	0.04
MILE 44.10	793.28	11571.	0.43	26750.	1469.	7.92	0.0300	87.	38.	0.02
MILE 43.70	793.27	11834.	0.85	13921.	1329.	8.29	0.0300	73.	40.	0.05
MILE 42.00	793.25	12681.	0.71	17833.	1295.	6.17	0.0300	160.	43.	0.03
MILE 39.10	793.24	12952.	0.74	17467.	1318.	7.79	0.0230	174.	42.	0.04
MILE 37.00	793.28	12729.	0.42	30658.	1092.	7.10	0.0280	108.	42.	0.01
MILE 36.00	793.29	12621.	0.66	19143.	879.	8.28	0.0280	84.	44.	0.02
MILE 34.60	793.32	12395.	0.42	29310.	1198.	9.54	0.0280	84.	45.	0.02
MILE 33.60	793.33	12099.	0.20	60131.	2092.	7.98	0.0290	108.	50.	0.01
MILE 31.50	793.35	11309.	0.38	29873.	1718.	10.28	0.0250	122.	55.	0.02
MILE 30.10	793.37	10903.	0.35	31413.	864.	9.79	0.0200	87.	53.	0.01
MILE 29.00	793.39	10618.	0.30	35146.	1032.	10.68	0.0200	97.	54.	0.01
MILE 27.30	793.42	10045.	0.27	36536.	1033.	11.09	0.0230	132.	56.	0.01
MILE 25.20	793.45	9485.	0.21	45375.	1032.	11.92	0.0230	146.	59.	0.01

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
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MILE 23.10 793.48 9323. 0.25 37337. 1064. 11.35 0.0230 146. 63. 0.01

ODATE 3-18-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 23.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.56	2000.	2.74	729.	272.	2.19	0.0290	144.	4.	0.29
MILE 77.70	817.08	2147.	2.07	1038.	187.	2.52	0.0400	144.	6.	0.15
MILE 75.60	811.21	2296.	2.04	1127.	174.	2.64	0.0400	144.	5.	0.14
MILE 73.50	807.64	2450.	1.88	1306.	160.	2.97	0.0330	144.	8.	0.12
MILE 71.40	806.08	2605.	1.50	1733.	238.	2.70	0.0400	144.	8.	0.10
MILE 69.30	803.00	2759.	1.96	1406.	282.	2.39	0.0340	144.	4.	0.15
MILE 67.20	798.01	2911.	2.11	1377.	298.	2.37	0.0340	144.	7.	0.17
MILE 65.10	793.94	3154.	1.61	1956.	314.	3.00	0.0320	144.	7.	0.11
MILE 63.00	793.53	3743.	1.14	3277.	333.	4.51	0.0400	144.	13.	0.06
MILE 60.90	793.17	4298.	0.99	4328.	345.	5.51	0.0450	144.	17.	0.05
MILE 58.80	793.00	2766.	0.51	5376.	342.	6.01	0.0400	-1866.	20.	0.02
MILE 57.00	793.00	3176.	0.53	5939.	382.	5.80	0.0200	130.	18.	0.02
MILE 55.00	793.00	3657.	0.60	6107.	443.	6.37	0.0200	134.	20.	0.03
MILE 53.10	793.03	4043.	0.49	8334.	546.	5.81	0.0200	137.	20.	0.02
MILE 51.00	793.07	4315.	0.47	9167.	888.	5.98	0.0200	164.	24.	0.03
MILE 48.30	793.15	4098.	0.34	12088.	1573.	4.95	0.0200	164.	24.	0.02
MILE 46.20	793.20	3928.	0.26	14838.	1764.	6.59	0.0200	144.	31.	0.02
MILE 44.10	793.25	3431.	0.13	26715.	1468.	7.91	0.0300	86.	38.	0.01
MILE 43.70	793.26	3365.	0.24	13916.	1328.	8.29	0.0300	72.	40.	0.01
MILE 42.00	793.30	3205.	0.18	17896.	1298.	6.17	0.0300	158.	43.	0.01
MILE 39.10	793.32	4099.	0.23	17531.	1321.	7.79	0.0230	171.	42.	0.01
MILE 37.00	793.31	5424.	0.18	30711.	1093.	7.11	0.0280	106.	42.	0.01
MILE 36.00	793.31	6000.	0.31	19158.	880.	8.28	0.0280	82.	44.	0.01
MILE 34.60	793.31	6797.	0.23	29300.	1197.	9.54	0.0280	82.	45.	0.01
MILE 33.60	793.31	7459.	0.12	60069.	2091.	7.97	0.0290	106.	50.	0.00
MILE 31.50	793.30	8776.	0.29	29830.	1715.	10.27	0.0250	120.	55.	0.01
MILE 30.10	793.30	9505.	0.30	31334.	861.	9.78	0.0200	86.	52.	0.01
MILE 29.00	793.29	10051.	0.29	35049.	1029.	10.66	0.0200	96.	54.	0.01
MILE 27.30	793.29	11110.	0.31	36406.	1028.	11.07	0.0230	130.	56.	0.01
MILE 25.20	793.27	12359.	0.27	45174.	1026.	11.89	0.0230	144.	59.	0.01
MILE 23.10	793.24	13451.	0.36	37110.	1055.	11.31	0.0230	144.	63.	0.01

ODATE 3-19-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 0.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80 822.55 2000. 2.75 728. 272. 2.19 0.0290 142. 4. 0.30

TVA

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 77.70	817.08	2144.	2.07	1037.	187.	2.52	0.0400	142.	6.	0.15
MILE 75.60	811.20	2289.	2.04	1124.	173.	2.64	0.0400	142.	5.	0.14
MILE 73.50	807.63	2436.	1.87	1302.	160.	2.97	0.0330	142.	8.	0.12
MILE 71.40	806.06	2582.	1.50	1724.	237.	2.69	0.0400	142.	8.	0.10
MILE 69.30	802.98	2728.	1.96	1395.	281.	2.38	0.0340	142.	4.	0.15
MILE 67.20	797.96	2880.	2.13	1355.	296.	2.36	0.0340	142.	7.	0.18
MILE 65.10	793.67	3089.	1.67	1854.	304.	2.91	0.0320	142.	7.	0.12
MILE 63.00	793.34	3294.	1.03	3213.	330.	4.48	0.0400	142.	12.	0.06
MILE 60.90	793.17	3132.	0.72	4328.	345.	5.51	0.0450	142.	17.	0.04
MILE 58.80	793.16	731.	0.13	5435.	344.	6.03	0.0400	-1869.	20.	0.01
MILE 57.00	793.19	424.	0.07	6022.	385.	5.84	0.0200	128.	18.	0.00
MILE 55.00	793.22	120.	0.02	6186.	446.	6.40	0.0200	131.	20.	0.00
MILE 53.10	793.23	-17.	0.00	8454.	550.	5.85	0.0200	135.	20.	0.00
MILE 51.00	793.21	173.	0.02	9239.	893.	6.00	0.0200	162.	24.	0.00
MILE 48.30	793.15	1729.	0.14	12093.	1574.	4.95	0.0200	162.	24.	0.01
MILE 46.20	793.14	2514.	0.17	14790.	1761.	6.59	0.0200	142.	31.	0.01
MILE 44.10	793.12	3654.	0.14	26558.	1461.	7.89	0.0300	84.	38.	0.01
MILE 43.70	793.11	3845.	0.28	13842.	1321.	8.30	0.0300	71.	40.	0.02
MILE 42.00	793.09	4594.	0.26	17650.	1288.	6.17	0.0300	155.	43.	0.01
MILE 39.10	793.11	4765.	0.27	17361.	1311.	7.77	0.0230	169.	42.	0.01
MILE 37.00	793.17	3322.	0.11	30486.	1088.	7.07	0.0280	104.	42.	0.00
MILE 36.00	793.19	2814.	0.15	19066.	876.	8.27	0.0280	81.	44.	0.01
MILE 34.60	793.22	2239.	0.08	29210.	1193.	9.53	0.0280	81.	45.	0.00
MILE 33.60	793.23	1727.	0.03	59853.	2085.	7.96	0.0290	104.	50.	0.00
MILE 31.50	793.25	667.	0.02	29788.	1712.	10.27	0.0250	118.	54.	0.00
MILE 30.10	793.28	278.	0.01	31316.	861.	9.77	0.0200	84.	52.	0.00
MILE 29.00	793.30	-89.	0.00	35053.	1029.	10.66	0.0200	94.	54.	0.00
MILE 27.30	793.33	-979.	-0.03	36447.	1030.	11.07	0.0230	128.	56.	0.00
MILE 25.20	793.38	-1960.	-0.04	45299.	1030.	11.91	0.0230	142.	59.	0.00
MILE 23.10	793.45	-2652.	-0.07	37309.	1063.	11.34	0.0230	142.	63.	0.00

ODATE 3-19-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 1.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.55	2000.	2.74	729.	272.	2.19	0.0290	139.	4.	0.30
MILE 77.70	817.07	2139.	2.07	1035.	187.	2.52	0.0400	139.	6.	0.15
MILE 75.60	811.18	2278.	2.03	1120.	173.	2.64	0.0400	139.	5.	0.14
MILE 73.50	807.61	2419.	1.87	1296.	159.	2.96	0.0330	139.	8.	0.12
MILE 71.40	806.04	2562.	1.49	1716.	237.	2.68	0.0400	139.	8.	0.10
MILE 69.30	802.96	2716.	1.96	1389.	281.	2.37	0.0340	139.	4.	0.15
MILE 67.20	797.96	2889.	2.13	1357.	296.	2.37	0.0340	139.	7.	0.18
MILE 65.10	793.86	3012.	1.56	1928.	311.	2.97	0.0320	139.	7.	0.11
MILE 63.00	793.57	3058.	0.93	3289.	334.	4.52	0.0400	139.	13.	0.05
MILE 60.90	793.31	3484.	0.80	4374.	347.	5.55	0.0450	139.	17.	0.04
MILE 58.80	793.17	2012.	0.37	5437.	344.	6.03	0.0400	-1871.	20.	0.02
MILE 57.00	793.15	2347.	0.39	6003.	384.	5.83	0.0200	126.	18.	0.02

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 192 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE	55.00	793.13	2623.	0.43	6153.	445.	6.38	0.0200	129.	20.	0.02
MILE	53.10	793.12	2761.	0.33	8389.	548.	5.82	0.0200	132.	20.	0.01
MILE	51.00	793.13	2538.	0.28	9199.	890.	5.99	0.0200	159.	24.	0.02
MILE	48.30	793.22	186.	0.02	12162.	1577.	4.94	0.0200	159.	24.	0.00
MILE	46.20	793.26	-1852.	-0.12	14891.	1768.	6.61	0.0200	139.	31.	-0.01
MILE	44.10	793.31	-3590.	-0.13	26784.	1471.	7.92	0.0300	83.	38.	-0.01
MILE	43.70	793.32	-3880.	-0.28	13945.	1331.	8.28	0.0300	70.	40.	-0.02
MILE	42.00	793.38	-5112.	-0.28	17981.	1301.	6.17	0.0300	152.	43.	-0.01
MILE	39.10	793.43	-6175.	-0.35	17619.	1326.	7.80	0.0230	166.	42.	-0.02
MILE	37.00	793.42	-5263.	-0.17	30887.	1097.	7.13	0.0280	103.	42.	-0.01
MILE	36.00	793.42	-4858.	-0.25	19249.	883.	8.29	0.0280	79.	44.	-0.01
MILE	34.60	793.43	-4414.	-0.15	29424.	1202.	9.55	0.0280	79.	45.	-0.01
MILE	33.60	793.43	-4240.	-0.07	60410.	2100.	8.00	0.0290	103.	51.	0.00
MILE	31.50	793.43	-4282.	-0.14	29943.	1722.	10.29	0.0250	116.	55.	-0.01
MILE	30.10	793.43	-4192.	-0.13	31469.	865.	9.80	0.0200	83.	53.	0.00
MILE	29.00	793.43	-4015.	-0.11	35183.	1033.	10.68	0.0200	93.	54.	0.00
MILE	27.30	793.43	-3557.	-0.10	36545.	1033.	11.09	0.0230	126.	56.	0.00
MILE	25.20	793.40	-2988.	-0.07	45320.	1030.	11.91	0.0230	139.	59.	0.00
MILE	23.10	793.36	-2335.	-0.06	37224.	1059.	11.33	0.0230	139.	63.	0.00

ODATE 3-19-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 2.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	822.57	2000.	2.73	732.	272.	2.20	0.0290	137.	4.	0.29
MILE	77.70	817.06	2133.	2.06	1033.	187.	2.51	0.0400	137.	6.	0.15
MILE	75.60	811.17	2269.	2.03	1117.	173.	2.63	0.0400	137.	5.	0.14
MILE	73.50	807.59	2413.	1.87	1293.	159.	2.95	0.0330	137.	8.	0.12
MILE	71.40	806.03	2562.	1.50	1713.	237.	2.68	0.0400	137.	8.	0.10
MILE	69.30	802.97	2722.	1.96	1391.	281.	2.38	0.0340	137.	4.	0.15
MILE	67.20	797.95	2866.	2.12	1351.	296.	2.36	0.0340	137.	7.	0.17
MILE	65.10	793.75	3037.	1.61	1884.	307.	2.93	0.0320	137.	7.	0.11
MILE	63.00	793.48	3141.	0.96	3258.	332.	4.50	0.0400	137.	12.	0.05
MILE	60.90	793.41	2597.	0.59	4407.	348.	5.57	0.0450	137.	17.	0.03
MILE	58.80	793.46	-382.	-0.07	5545.	347.	6.07	0.0400	-1873.	20.	0.00
MILE	57.00	793.50	-906.	-0.15	6150.	389.	5.91	0.0200	124.	19.	-0.01
MILE	55.00	793.52	-1339.	-0.21	6298.	451.	6.44	0.0200	127.	20.	-0.01
MILE	53.10	793.55	-1759.	-0.20	8647.	556.	5.91	0.0200	130.	20.	-0.01
MILE	51.00	793.57	-2236.	-0.24	9417.	904.	6.05	0.0200	156.	24.	-0.01
MILE	48.30	793.53	-1955.	-0.16	12487.	1595.	4.93	0.0200	156.	25.	-0.01
MILE	46.20	793.52	-1965.	-0.13	15120.	1784.	6.65	0.0200	137.	32.	-0.01
MILE	44.10	793.49	-2167.	-0.08	26998.	1480.	7.95	0.0300	81.	38.	0.00
MILE	43.70	793.48	-2178.	-0.16	14029.	1339.	8.27	0.0300	68.	40.	-0.01
MILE	42.00	793.44	-2077.	-0.12	18060.	1304.	6.16	0.0300	150.	43.	-0.01
MILE	39.10	793.38	-1455.	-0.08	17575.	1324.	7.80	0.0230	163.	42.	0.00
MILE	37.00	793.37	-2202.	-0.07	30809.	1096.	7.12	0.0280	101.	42.	0.00
MILE	36.00	793.37	-2492.	-0.13	19205.	881.	8.28	0.0280	78.	44.	0.00

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 193 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 34.60	793.36	-2760.	-0.09	29348.	1199.	9.54	0.0280	78.	45.	0.00
MILE 33.60	793.35	-2810.	-0.05	60182.	2094.	7.98	0.0290	101.	50.	0.00
MILE 31.50	793.34	-2549.	-0.09	29867.	1717.	10.28	0.0250	114.	55.	0.00
MILE 30.10	793.34	-2569.	-0.08	31384.	863.	9.79	0.0200	81.	53.	0.00
MILE 29.00	793.34	-2566.	-0.07	35097.	1030.	10.67	0.0200	91.	54.	0.00
MILE 27.30	793.33	-2487.	-0.07	36449.	1030.	11.07	0.0230	124.	56.	0.00
MILE 25.20	793.34	-2193.	-0.05	45252.	1028.	11.91	0.0230	137.	59.	0.00
MILE 23.10	793.36	-2046.	-0.05	37224.	1059.	11.33	0.0230	137.	63.	0.00

ODATE 3-19-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 3.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.58	2000.	2.72	735.	272.	2.20	0.0290	134.	4.	0.29
MILE 77.70	817.06	2134.	2.07	1033.	187.	2.51	0.0400	134.	6.	0.15
MILE 75.60	811.17	2271.	2.03	1117.	173.	2.63	0.0400	134.	5.	0.14
MILE 73.50	807.59	2415.	1.87	1293.	159.	2.95	0.0330	134.	8.	0.12
MILE 71.40	806.03	2561.	1.50	1712.	237.	2.68	0.0400	134.	8.	0.10
MILE 69.30	802.96	2713.	1.95	1388.	281.	2.37	0.0340	134.	4.	0.15
MILE 67.20	797.97	2873.	2.11	1359.	297.	2.37	0.0340	134.	7.	0.17
MILE 65.10	794.21	2889.	1.40	2059.	324.	3.09	0.0320	134.	7.	0.10
MILE 63.00	794.02	2614.	0.76	3440.	340.	4.61	0.0400	134.	13.	0.04
MILE 60.90	793.85	2742.	0.60	4553.	353.	5.68	0.0450	134.	17.	0.03
MILE 58.80	793.75	1064.	0.19	5649.	351.	6.10	0.0400	-1876.	21.	0.01
MILE 57.00	793.71	1177.	0.19	6244.	392.	5.96	0.0200	121.	19.	0.01
MILE 55.00	793.66	1214.	0.19	6349.	453.	6.46	0.0200	124.	20.	0.01
MILE 53.10	793.60	1381.	0.16	8676.	557.	5.92	0.0200	127.	20.	0.01
MILE 51.00	793.54	1852.	0.20	9401.	903.	6.05	0.0200	153.	24.	0.01
MILE 48.30	793.51	1631.	0.13	12466.	1593.	4.93	0.0200	153.	25.	0.01
MILE 46.20	793.50	817.	0.05	15101.	1783.	6.65	0.0200	134.	32.	0.00
MILE 44.10	793.48	1181.	0.04	26994.	1480.	7.95	0.0300	80.	38.	0.00
MILE 43.70	793.48	1204.	0.09	14030.	1339.	8.27	0.0300	67.	40.	0.00
MILE 42.00	793.49	986.	0.05	18118.	1307.	6.16	0.0300	147.	43.	0.00
MILE 39.10	793.52	-107.	-0.01	17689.	1330.	7.81	0.0230	159.	43.	0.00
MILE 37.00	793.53	-289.	-0.01	31060.	1102.	7.16	0.0280	99.	42.	0.00
MILE 36.00	793.53	-396.	-0.02	19335.	887.	8.30	0.0280	76.	45.	0.00
MILE 34.60	793.54	-636.	-0.02	29525.	1207.	9.57	0.0280	76.	45.	0.00
MILE 33.60	793.54	-909.	-0.01	60678.	2107.	8.02	0.0290	99.	51.	0.00
MILE 31.50	793.53	-1544.	-0.05	30037.	1729.	10.31	0.0250	111.	55.	0.00
MILE 30.10	793.52	-1945.	-0.06	31572.	868.	9.82	0.0200	80.	53.	0.00
MILE 29.00	793.52	-2212.	-0.06	35277.	1037.	10.70	0.0200	89.	54.	0.00
MILE 27.30	793.52	-2701.	-0.07	36636.	1037.	11.10	0.0230	121.	56.	0.00
MILE 25.20	793.51	-3199.	-0.07	45432.	1034.	11.93	0.0230	134.	59.	0.00
MILE 23.10	793.50	-3660.	-0.10	37356.	1064.	11.35	0.0230	134.	64.	0.00

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 194 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

0DATE 3-19-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 4.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.56	2000.	2.74	731.	272.	2.20	0.0290	131.	4.	0.29
MILE 77.70	817.06	2138.	2.07	1034.	187.	2.52	0.0400	131.	6.	0.15
MILE 75.60	811.17	2277.	2.04	1117.	173.	2.63	0.0400	131.	5.	0.14
MILE 73.50	807.60	2419.	1.87	1294.	159.	2.96	0.0330	131.	8.	0.12
MILE 71.40	806.03	2565.	1.50	1713.	237.	2.68	0.0400	131.	8.	0.10
MILE 69.30	802.96	2713.	1.95	1390.	281.	2.37	0.0340	131.	4.	0.15
MILE 67.20	797.96	2841.	2.10	1356.	296.	2.37	0.0340	131.	7.	0.17
MILE 65.10	794.18	3007.	1.47	2049.	323.	3.08	0.0320	131.	7.	0.10
MILE 63.00	793.88	3458.	1.02	3391.	338.	4.58	0.0400	131.	13.	0.06
MILE 60.90	793.64	3814.	0.85	4483.	351.	5.62	0.0450	131.	17.	0.04
MILE 58.80	793.55	1919.	0.34	5575.	348.	6.08	0.0400	-1878.	20.	0.02
MILE 57.00	793.55	2163.	0.35	6173.	390.	5.92	0.0200	119.	19.	0.02
MILE 55.00	793.56	2538.	0.40	6310.	451.	6.44	0.0200	122.	20.	0.02
MILE 53.10	793.58	2690.	0.31	8667.	557.	5.91	0.0200	125.	20.	0.01
MILE 51.00	793.63	2477.	0.26	9449.	906.	6.06	0.0200	150.	24.	0.01
MILE 48.30	793.67	1592.	0.13	12635.	1602.	4.92	0.0200	150.	25.	0.01
MILE 46.20	793.65	1931.	0.13	15234.	1792.	6.67	0.0200	131.	32.	0.01
MILE 44.10	793.65	1076.	0.04	27189.	1488.	7.98	0.0300	78.	38.	0.00
MILE 43.70	793.65	929.	0.07	14115.	1346.	8.26	0.0300	66.	41.	0.00
MILE 42.00	793.65	335.	0.02	18307.	1314.	6.16	0.0300	144.	44.	0.00
MILE 39.10	793.62	357.	0.02	17773.	1335.	7.82	0.0230	156.	43.	0.00
MILE 37.00	793.60	228.	0.01	31168.	1104.	7.17	0.0280	97.	42.	0.00
MILE 36.00	793.59	194.	0.01	19384.	888.	8.30	0.0280	75.	45.	0.00
MILE 34.60	793.60	142.	0.00	29586.	1209.	9.58	0.0280	75.	45.	0.00
MILE 33.60	793.60	-3.	0.00	60840.	2112.	8.03	0.0290	97.	51.	0.00
MILE 31.50	793.59	-561.	-0.02	30090.	1732.	10.31	0.0250	109.	55.	0.00
MILE 30.10	793.60	-875.	-0.03	31650.	871.	9.83	0.0200	78.	53.	0.00
MILE 29.00	793.60	-971.	-0.03	35357.	1040.	10.71	0.0200	87.	54.	0.00
MILE 27.30	793.60	-991.	-0.03	36716.	1040.	11.11	0.0230	119.	57.	0.00
MILE 25.20	793.61	-958.	-0.02	45549.	1038.	11.94	0.0230	131.	59.	0.00
MILE 23.10	793.60	-878.	-0.02	37451.	1068.	11.37	0.0230	131.	64.	0.00

0DATE 3-19-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 5.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.54	2000.	2.76	724.	271.	2.19	0.0290	128.	4.	0.30
MILE 77.70	817.06	2138.	2.07	1034.	187.	2.52	0.0400	128.	6.	0.15
MILE 75.60	811.17	2278.	2.04	1118.	173.	2.63	0.0400	128.	5.	0.14
MILE 73.50	807.60	2418.	1.87	1294.	159.	2.96	0.0330	128.	8.	0.12
MILE 71.40	806.03	2556.	1.49	1712.	237.	2.68	0.0400	128.	8.	0.10

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 195 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 69.30	802.95	2686.	1.94	1382.	280.	2.37	0.0340	128.	4.	0.15
MILE 67.20	797.93	2824.	2.10	1343.	295.	2.36	0.0340	128.	7.	0.17
MILE 65.10	794.07	2991.	1.49	2006.	319.	3.04	0.0320	128.	7.	0.10
MILE 63.00	793.87	2965.	0.88	3388.	338.	4.58	0.0400	128.	13.	0.05
MILE 60.90	793.75	2775.	0.61	4519.	352.	5.65	0.0450	128.	17.	0.03
MILE 58.80	793.68	829.	0.15	5624.	350.	6.10	0.0400	-1881.	21.	0.01
MILE 57.00	793.68	854.	0.14	6229.	392.	5.95	0.0200	116.	19.	0.01
MILE 55.00	793.68	765.	0.12	6358.	453.	6.46	0.0200	119.	20.	0.01
MILE 53.10	793.68	726.	0.08	8724.	558.	5.93	0.0200	122.	20.	0.00
MILE 51.00	793.66	922.	0.10	9466.	907.	6.07	0.0200	147.	24.	0.01
MILE 48.30	793.65	1589.	0.13	12622.	1601.	4.92	0.0200	147.	25.	0.01
MILE 46.20	793.68	965.	0.06	15259.	1794.	6.68	0.0200	128.	32.	0.00
MILE 44.10	793.68	1342.	0.05	27221.	1490.	7.98	0.0300	76.	38.	0.00
MILE 43.70	793.67	1433.	0.10	14128.	1348.	8.26	0.0300	64.	41.	0.01
MILE 42.00	793.66	1968.	0.11	18319.	1314.	6.16	0.0300	141.	44.	0.01
MILE 39.10	793.61	3564.	0.20	17765.	1335.	7.82	0.0230	153.	43.	0.01
MILE 37.00	793.59	4887.	0.16	31155.	1104.	7.17	0.0280	95.	42.	0.01
MILE 36.00	793.57	5447.	0.28	19362.	888.	8.30	0.0280	73.	45.	0.01
MILE 34.60	793.53	6305.	0.21	29519.	1207.	9.57	0.0280	73.	45.	0.01
MILE 33.60	793.51	7199.	0.12	60622.	2106.	8.01	0.0290	95.	51.	0.00
MILE 31.50	793.49	9378.	0.31	29998.	1726.	10.30	0.0250	107.	55.	0.01
MILE 30.10	793.45	10426.	0.33	31497.	866.	9.81	0.0200	76.	53.	0.01
MILE 29.00	793.43	11078.	0.31	35182.	1033.	10.68	0.0200	86.	54.	0.01
MILE 27.30	793.39	12221.	0.33	36507.	1032.	11.08	0.0230	116.	56.	0.01
MILE 25.20	793.34	13608.	0.30	45252.	1028.	11.91	0.0230	128.	59.	0.01
MILE 23.10	793.31	14497.	0.39	37176.	1057.	11.32	0.0230	128.	63.	0.01

ODATE 3-19-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 6.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.51	2000.	2.79	718.	271.	2.18	0.0290	126.	4.	0.30
MILE 77.70	817.06	2135.	2.07	1032.	187.	2.51	0.0400	126.	6.	0.15
MILE 75.60	811.16	2269.	2.04	1115.	172.	2.63	0.0400	126.	5.	0.14
MILE 73.50	807.58	2404.	1.86	1291.	159.	2.95	0.0330	126.	8.	0.12
MILE 71.40	806.01	2539.	1.49	1706.	236.	2.67	0.0400	126.	8.	0.10
MILE 69.30	802.94	2679.	1.94	1378.	280.	2.36	0.0340	126.	4.	0.15
MILE 67.20	797.94	2821.	2.10	1344.	295.	2.36	0.0340	126.	7.	0.17
MILE 65.10	794.19	2926.	1.43	2051.	323.	3.08	0.0320	126.	7.	0.10
MILE 63.00	793.95	3023.	0.88	3417.	339.	4.59	0.0400	126.	13.	0.05
MILE 60.90	793.79	3216.	0.71	4532.	353.	5.66	0.0450	126.	17.	0.03
MILE 58.80	793.73	1242.	0.22	5641.	350.	6.10	0.0400	-1883.	21.	0.01
MILE 57.00	793.73	1277.	0.20	6248.	392.	5.96	0.0200	114.	19.	0.01
MILE 55.00	793.70	1473.	0.23	6363.	454.	6.46	0.0200	117.	20.	0.01
MILE 53.10	793.66	1899.	0.22	8713.	558.	5.93	0.0200	120.	20.	0.01
MILE 51.00	793.61	2765.	0.29	9437.	905.	6.06	0.0200	144.	24.	0.02
MILE 48.30	793.52	4852.	0.39	12472.	1594.	4.93	0.0200	144.	25.	0.02

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE	46.20	793.46	6832.	0.45	15065.	1780.	6.64	0.0200	126.	32.	0.03
MILE	44.10	793.42	8682.	0.32	26914.	1476.	7.94	0.0300	75.	38.	0.01
MILE	43.70	793.40	8969.	0.64	13989.	1335.	8.28	0.0300	63.	40.	0.03
MILE	42.00	793.35	10078.	0.56	17946.	1300.	6.17	0.0300	138.	43.	0.03
MILE	39.10	793.25	11751.	0.67	17476.	1318.	7.79	0.0230	150.	42.	0.03
MILE	37.00	793.25	12122.	0.40	30601.	1091.	7.09	0.0280	93.	42.	0.01
MILE	36.00	793.24	12240.	0.64	19100.	877.	8.27	0.0280	72.	44.	0.02
MILE	34.60	793.23	12460.	0.43	29228.	1194.	9.53	0.0280	72.	45.	0.02
MILE	33.60	793.23	12774.	0.21	59875.	2085.	7.96	0.0290	93.	50.	0.01
MILE	31.50	793.22	13691.	0.46	29761.	1710.	10.26	0.0250	105.	54.	0.02
MILE	30.10	793.23	13967.	0.45	31261.	859.	9.76	0.0200	75.	52.	0.01
MILE	29.00	793.23	14051.	0.40	34986.	1026.	10.65	0.0200	84.	54.	0.01
MILE	27.30	793.24	14011.	0.39	36357.	1027.	11.06	0.0230	114.	56.	0.01
MILE	25.20	793.26	13790.	0.31	45162.	1025.	11.89	0.0230	126.	59.	0.01
MILE	23.10	793.27	14004.	0.38	37138.	1056.	11.32	0.0230	126.	63.	0.01

ODATE 3-19-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 7.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	822.50	2000.	2.79	716.	271.	2.17	0.0290	123.	4.	0.30
MILE	77.70	817.05	2126.	2.07	1029.	186.	2.51	0.0400	123.	6.	0.15
MILE	75.60	811.14	2256.	2.03	1110.	172.	2.62	0.0400	123.	5.	0.14
MILE	73.50	807.57	2391.	1.86	1287.	158.	2.95	0.0330	123.	8.	0.11
MILE	71.40	806.00	2528.	1.49	1701.	236.	2.67	0.0400	123.	8.	0.10
MILE	69.30	802.93	2666.	1.94	1375.	279.	2.36	0.0340	123.	4.	0.15
MILE	67.20	797.92	2796.	2.09	1336.	294.	2.36	0.0340	123.	7.	0.17
MILE	65.10	794.13	2947.	1.45	2031.	321.	3.06	0.0320	123.	7.	0.10
MILE	63.00	793.81	3439.	1.02	3368.	337.	4.57	0.0400	123.	13.	0.06
MILE	60.90	793.48	4147.	0.94	4431.	349.	5.59	0.0450	123.	17.	0.05
MILE	58.80	793.27	2985.	0.55	5476.	345.	6.04	0.0400	-1886.	20.	0.02
MILE	57.00	793.25	3681.	0.61	6048.	386.	5.86	0.0200	111.	18.	0.03
MILE	55.00	793.23	4452.	0.72	6190.	446.	6.40	0.0200	114.	20.	0.03
MILE	53.10	793.21	5179.	0.61	8444.	549.	5.84	0.0200	117.	20.	0.03
MILE	51.00	793.20	6012.	0.65	9231.	892.	6.00	0.0200	141.	24.	0.04
MILE	48.30	793.20	6965.	0.57	12137.	1576.	4.94	0.0200	141.	24.	0.04
MILE	46.20	793.19	8193.	0.55	14833.	1764.	6.59	0.0200	123.	31.	0.03
MILE	44.10	793.21	8959.	0.34	26668.	1466.	7.90	0.0300	73.	38.	0.01
MILE	43.70	793.21	9063.	0.65	13890.	1326.	8.29	0.0300	61.	40.	0.04
MILE	42.00	793.21	9330.	0.52	17788.	1294.	6.17	0.0300	135.	43.	0.02
MILE	39.10	793.18	10481.	0.60	17412.	1314.	7.78	0.0230	146.	42.	0.03
MILE	37.00	793.14	12443.	0.41	30429.	1087.	7.06	0.0280	91.	42.	0.01
MILE	36.00	793.12	13193.	0.69	19006.	874.	8.26	0.0280	70.	44.	0.03
MILE	34.60	793.10	14113.	0.49	29097.	1189.	9.51	0.0280	70.	45.	0.02
MILE	33.60	793.10	14882.	0.25	59511.	2075.	7.93	0.0290	91.	50.	0.01
MILE	31.50	793.08	16438.	0.55	29630.	1701.	10.24	0.0250	102.	54.	0.02
MILE	30.10	793.07	17112.	0.55	31094.	854.	9.73	0.0200	73.	52.	0.02

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MILE	29.00	793.06	17615.	0.51	34816.	1020.	10.62	0.0200	82.	53.	0.02
MILE	27.30	793.04	18695.	0.52	36169.	1020.	11.03	0.0230	111.	56.	0.02
MILE	25.20	793.01	20310.	0.45	44891.	1016.	11.86	0.0230	123.	59.	0.01
MILE	23.10	792.96	21664.	0.59	36845.	1045.	11.27	0.0230	123.	63.	0.02

ODATE 3-19-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 8.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	822.50	2000.	2.79	716.	271.	2.17	0.0290	120.	4.	0.30
MILE	77.70	817.04	2122.	2.07	1027.	186.	2.51	0.0400	120.	6.	0.16
MILE	75.60	811.13	2247.	2.03	1106.	172.	2.62	0.0400	120.	5.	0.14
MILE	73.50	807.55	2378.	1.85	1283.	158.	2.94	0.0330	120.	8.	0.11
MILE	71.40	805.98	2508.	1.48	1694.	236.	2.66	0.0400	120.	8.	0.10
MILE	69.30	802.91	2634.	1.93	1365.	279.	2.35	0.0340	120.	4.	0.15
MILE	67.20	797.87	2758.	2.10	1313.	292.	2.34	0.0340	120.	7.	0.17
MILE	65.10	793.73	2974.	1.58	1877.	306.	2.93	0.0320	120.	7.	0.11
MILE	63.00	793.36	3516.	1.09	3218.	331.	4.48	0.0400	120.	12.	0.06
MILE	60.90	793.06	3916.	0.91	4289.	344.	5.48	0.0450	120.	17.	0.05
MILE	58.80	792.94	2155.	0.40	5355.	341.	6.00	0.0400	-1888.	20.	0.02
MILE	57.00	792.95	2369.	0.40	5920.	382.	5.79	0.0200	109.	18.	0.02
MILE	55.00	792.97	2631.	0.43	6094.	442.	6.36	0.0200	112.	19.	0.02
MILE	53.10	792.98	2939.	0.35	8308.	545.	5.80	0.0200	115.	20.	0.02
MILE	51.00	792.99	3560.	0.39	9126.	886.	5.97	0.0200	137.	24.	0.02
MILE	48.30	792.95	5873.	0.49	11889.	1563.	4.96	0.0200	137.	24.	0.03
MILE	46.20	792.93	7870.	0.54	14605.	1748.	6.55	0.0200	120.	31.	0.03
MILE	44.10	792.92	9823.	0.37	26323.	1451.	7.85	0.0300	72.	38.	0.02
MILE	43.70	792.91	10166.	0.74	13741.	1312.	8.32	0.0300	60.	40.	0.04
MILE	42.00	792.86	11700.	0.67	17392.	1278.	6.18	0.0300	132.	43.	0.03
MILE	39.10	792.77	14268.	0.83	17089.	1295.	7.74	0.0230	143.	42.	0.04
MILE	37.00	792.79	14549.	0.49	29863.	1073.	6.98	0.0280	89.	41.	0.02
MILE	36.00	792.78	14711.	0.79	18739.	863.	8.23	0.0280	69.	44.	0.03
MILE	34.60	792.77	15117.	0.53	28770.	1175.	9.47	0.0280	69.	44.	0.02
MILE	33.60	792.77	15693.	0.27	58635.	2051.	7.86	0.0290	89.	50.	0.01
MILE	31.50	792.76	17341.	0.59	29348.	1682.	10.20	0.0250	100.	54.	0.02
MILE	30.10	792.76	18103.	0.59	30772.	844.	9.68	0.0200	72.	52.	0.02
MILE	29.00	792.75	18511.	0.54	34514.	1009.	10.57	0.0200	80.	53.	0.02
MILE	27.30	792.76	19076.	0.53	35888.	1009.	10.99	0.0230	109.	56.	0.02
MILE	25.20	792.77	19574.	0.44	44633.	1008.	11.82	0.0230	120.	58.	0.01
MILE	23.10	792.80	20029.	0.55	36694.	1039.	11.24	0.0230	120.	63.	0.02

ODATE 3-19-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

TIME 9.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.50	2000.	2.79	716.	271.	2.17	0.0290	118.	4.	0.30
MILE 77.70	817.03	2119.	2.07	1026.	186.	2.51	0.0400	118.	6.	0.16
MILE 75.60	811.12	2238.	2.03	1103.	171.	2.61	0.0400	118.	5.	0.14
MILE 73.50	807.53	2359.	1.85	1278.	158.	2.93	0.0330	118.	8.	0.11
MILE 71.40	805.95	2479.	1.47	1683.	235.	2.65	0.0400	118.	8.	0.10
MILE 69.30	802.88	2599.	1.92	1352.	278.	2.34	0.0340	118.	4.	0.15
MILE 67.20	797.83	2730.	2.11	1294.	290.	2.34	0.0340	118.	7.	0.18
MILE 65.10	793.51	2896.	1.61	1797.	299.	2.85	0.0320	118.	7.	0.12
MILE 63.00	793.17	3191.	1.01	3156.	328.	4.44	0.0400	118.	12.	0.06
MILE 60.90	792.87	3688.	0.87	4226.	342.	5.44	0.0450	118.	16.	0.04
MILE 58.80	792.69	2309.	0.44	5268.	338.	5.97	0.0400	-1891.	20.	0.02
MILE 57.00	792.68	2766.	0.48	5805.	378.	5.73	0.0200	106.	18.	0.02
MILE 55.00	792.66	3269.	0.55	5982.	437.	6.32	0.0200	109.	19.	0.03
MILE 53.10	792.64	3871.	0.48	8103.	538.	5.73	0.0200	112.	19.	0.02
MILE 51.00	792.61	4798.	0.54	8940.	874.	5.92	0.0200	134.	23.	0.03
MILE 48.30	792.60	6148.	0.53	11539.	1543.	4.99	0.0200	134.	24.	0.03
MILE 46.20	792.60	7192.	0.50	14321.	1727.	6.49	0.0200	118.	31.	0.03
MILE 44.10	792.61	8699.	0.34	25953.	1434.	7.80	0.0300	70.	37.	0.01
MILE 43.70	792.60	8921.	0.66	13591.	1297.	8.35	0.0300	59.	40.	0.04
MILE 42.00	792.60	9564.	0.56	17096.	1266.	6.19	0.0300	129.	43.	0.03
MILE 39.10	792.62	9768.	0.58	16972.	1289.	7.73	0.0230	140.	42.	0.03
MILE 37.00	792.63	10742.	0.36	29605.	1067.	6.94	0.0280	87.	41.	0.01
MILE 36.00	792.63	11094.	0.60	18623.	858.	8.22	0.0280	67.	44.	0.02
MILE 34.60	792.64	11460.	0.40	28644.	1169.	9.45	0.0280	67.	44.	0.01
MILE 33.60	792.64	11737.	0.20	58310.	2042.	7.84	0.0290	87.	50.	0.01
MILE 31.50	792.65	12294.	0.42	29246.	1675.	10.18	0.0250	98.	54.	0.02
MILE 30.10	792.66	12493.	0.41	30672.	841.	9.66	0.0200	70.	52.	0.01
MILE 29.00	792.67	12596.	0.37	34430.	1006.	10.56	0.0200	78.	53.	0.01
MILE 27.30	792.69	12745.	0.36	35821.	1007.	10.98	0.0230	106.	56.	0.01
MILE 25.20	792.70	13030.	0.29	44553.	1005.	11.81	0.0230	118.	58.	0.01
MILE 23.10	792.69	13631.	0.37	36590.	1035.	11.23	0.0230	118.	63.	0.01

ODATE 3-19-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 10.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.51	2000.	2.79	718.	271.	2.18	0.0290	115.	4.	0.30
MILE 77.70	817.02	2112.	2.06	1023.	186.	2.50	0.0400	115.	6.	0.15
MILE 75.60	811.10	2225.	2.02	1099.	171.	2.60	0.0400	115.	5.	0.14
MILE 73.50	807.50	2339.	1.84	1271.	157.	2.93	0.0330	115.	8.	0.11
MILE 71.40	805.93	2455.	1.47	1672.	235.	2.64	0.0400	115.	8.	0.10
MILE 69.30	802.85	2575.	1.92	1342.	277.	2.33	0.0340	115.	4.	0.15
MILE 67.20	797.79	2694.	2.11	1277.	288.	2.33	0.0340	115.	7.	0.18
MILE 65.10	793.26	2850.	1.68	1702.	290.	2.76	0.0320	115.	6.	0.12

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 199 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 63.00	792.83	3328.	1.09	3047.	323.	4.38	0.0400	115.	12.	0.06
MILE 60.90	792.50	3746.	0.91	4104.	338.	5.34	0.0450	115.	16.	0.05
MILE 58.80	792.37	1999.	0.39	5153.	334.	5.93	0.0400	-1893.	19.	0.02
MILE 57.00	792.38	2267.	0.40	5678.	374.	5.66	0.0200	104.	18.	0.02
MILE 55.00	792.39	2637.	0.45	5884.	433.	6.28	0.0200	107.	19.	0.02
MILE 53.10	792.41	2938.	0.37	7967.	534.	5.69	0.0200	109.	19.	0.02
MILE 51.00	792.44	3166.	0.36	8854.	868.	5.90	0.0200	131.	23.	0.02
MILE 48.30	792.47	3552.	0.31	11420.	1536.	5.00	0.0200	131.	24.	0.02
MILE 46.20	792.47	4656.	0.33	14210.	1719.	6.47	0.0200	115.	31.	0.02
MILE 44.10	792.50	4798.	0.19	25825.	1429.	7.78	0.0300	68.	37.	0.01
MILE 43.70	792.50	4828.	0.36	13541.	1292.	8.36	0.0300	57.	39.	0.02
MILE 42.00	792.52	5012.	0.29	17010.	1262.	6.19	0.0300	126.	43.	0.01
MILE 39.10	792.54	5516.	0.33	16907.	1285.	7.72	0.0230	137.	42.	0.02
MILE 37.00	792.58	4890.	0.17	29531.	1065.	6.93	0.0280	85.	41.	0.01
MILE 36.00	792.59	4737.	0.25	18598.	857.	8.22	0.0280	66.	44.	0.01
MILE 34.60	792.62	4640.	0.16	28623.	1168.	9.45	0.0280	66.	44.	0.01
MILE 33.60	792.63	4487.	0.08	58263.	2041.	7.84	0.0290	85.	50.	0.00
MILE 31.50	792.65	3997.	0.14	29246.	1675.	10.18	0.0250	96.	54.	0.01
MILE 30.10	792.66	3906.	0.13	30674.	841.	9.66	0.0200	68.	52.	0.00
MILE 29.00	792.67	3847.	0.11	34433.	1006.	10.56	0.0200	77.	53.	0.00
MILE 27.30	792.69	3723.	0.10	35829.	1007.	10.98	0.0230	104.	56.	0.00
MILE 25.20	792.72	3703.	0.08	44579.	1006.	11.82	0.0230	115.	58.	0.00
MILE 23.10	792.75	3695.	0.10	36647.	1037.	11.23	0.0230	115.	63.	0.00

ODATE 3-19-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 11.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.54	2000.	2.76	724.	271.	2.19	0.0290	112.	4.	0.30
MILE 77.70	817.02	2105.	2.06	1021.	185.	2.50	0.0400	112.	6.	0.15
MILE 75.60	811.08	2212.	2.02	1094.	171.	2.60	0.0400	112.	5.	0.14
MILE 73.50	807.48	2322.	1.84	1264.	157.	2.92	0.0330	112.	8.	0.11
MILE 71.40	805.90	2432.	1.46	1662.	234.	2.63	0.0400	112.	8.	0.10
MILE 69.30	802.83	2539.	1.91	1330.	276.	2.32	0.0340	112.	4.	0.15
MILE 67.20	797.74	2649.	2.11	1255.	286.	2.32	0.0340	112.	7.	0.18
MILE 65.10	793.07	2795.	1.71	1633.	283.	2.70	0.0320	112.	6.	0.13
MILE 63.00	792.70	2965.	0.99	3002.	321.	4.35	0.0400	112.	12.	0.06
MILE 60.90	792.47	3029.	0.74	4093.	337.	5.33	0.0450	112.	16.	0.04
MILE 58.80	792.38	1144.	0.22	5157.	334.	5.93	0.0400	-1896.	19.	0.01
MILE 57.00	792.38	1203.	0.21	5680.	374.	5.66	0.0200	101.	18.	0.01
MILE 55.00	792.40	1174.	0.20	5888.	433.	6.28	0.0200	104.	19.	0.01
MILE 53.10	792.42	1090.	0.14	7974.	534.	5.69	0.0200	107.	19.	0.01
MILE 51.00	792.44	942.	0.11	8858.	869.	5.90	0.0200	128.	23.	0.01
MILE 48.30	792.49	337.	0.03	11439.	1537.	4.99	0.0200	128.	24.	0.00
MILE 46.20	792.54	-1042.	-0.07	14271.	1724.	6.48	0.0200	112.	31.	0.00
MILE 44.10	792.56	-1372.	-0.05	25905.	1432.	7.79	0.0300	67.	37.	0.00
MILE 43.70	792.57	-1428.	-0.11	13575.	1296.	8.35	0.0300	56.	40.	-0.01

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 200 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 42.00	792.60	-1743.	-0.10	17096.	1266.	6.19	0.0300	123.	43.	0.00
MILE 39.10	792.68	-2928.	-0.17	17018.	1291.	7.73	0.0230	134.	42.	-0.01
MILE 37.00	792.72	-3099.	-0.10	29750.	1070.	6.97	0.0280	83.	41.	0.00
MILE 36.00	792.73	-3143.	-0.17	18702.	862.	8.23	0.0280	64.	44.	-0.01
MILE 34.60	792.74	-3252.	-0.11	28747.	1174.	9.46	0.0280	64.	44.	0.00
MILE 33.60	792.75	-3466.	-0.06	58592.	2050.	7.86	0.0290	83.	50.	0.00
MILE 31.50	792.77	-4108.	-0.14	29354.	1683.	10.20	0.0250	93.	54.	-0.01
MILE 30.10	792.79	-4308.	-0.14	30803.	845.	9.68	0.0200	67.	52.	0.00
MILE 29.00	792.80	-4432.	-0.13	34557.	1011.	10.58	0.0200	75.	53.	0.00
MILE 27.30	792.81	-4711.	-0.13	35944.	1011.	11.00	0.0230	101.	56.	0.00
MILE 25.20	792.83	-5101.	-0.11	44696.	1010.	11.83	0.0230	112.	58.	0.00
MILE 23.10	792.84	-5118.	-0.14	36732.	1040.	11.25	0.0230	112.	63.	0.00

ODATE 3-19-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 12.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.57	2000.	2.73	732.	272.	2.20	0.0290	109.	4.	0.29
MILE 77.70	817.01	2100.	2.06	1019.	185.	2.50	0.0400	109.	6.	0.15
MILE 75.60	811.07	2201.	2.02	1091.	170.	2.59	0.0400	109.	5.	0.14
MILE 73.50	807.45	2302.	1.83	1257.	156.	2.91	0.0330	109.	8.	0.11
MILE 71.40	805.87	2404.	1.46	1650.	234.	2.62	0.0400	109.	8.	0.10
MILE 69.30	802.80	2511.	1.90	1319.	275.	2.31	0.0340	109.	4.	0.15
MILE 67.20	797.72	2636.	2.11	1248.	285.	2.31	0.0340	109.	7.	0.18
MILE 65.10	793.10	2767.	1.69	1642.	284.	2.71	0.0320	109.	6.	0.12
MILE 63.00	792.81	2663.	0.88	3038.	323.	4.37	0.0400	109.	12.	0.05
MILE 60.90	792.69	2357.	0.57	4166.	340.	5.39	0.0450	109.	16.	0.03
MILE 58.80	792.69	-178.	-0.03	5267.	338.	5.97	0.0400	-1898.	20.	0.00
MILE 57.00	792.71	-552.	-0.09	5818.	378.	5.73	0.0200	99.	18.	0.00
MILE 55.00	792.72	-893.	-0.15	6004.	438.	6.33	0.0200	102.	19.	-0.01
MILE 53.10	792.73	-1240.	-0.15	8160.	540.	5.75	0.0200	104.	19.	-0.01
MILE 51.00	792.75	-1881.	-0.21	9011.	878.	5.94	0.0200	125.	23.	-0.01
MILE 48.30	792.78	-3444.	-0.29	11722.	1553.	4.97	0.0200	125.	24.	-0.02
MILE 46.20	792.78	-4299.	-0.30	14476.	1738.	6.52	0.0200	109.	31.	-0.02
MILE 44.10	792.79	-5743.	-0.22	26174.	1444.	7.83	0.0300	65.	38.	-0.01
MILE 43.70	792.79	-5947.	-0.43	13684.	1306.	8.33	0.0300	55.	40.	-0.02
MILE 42.00	792.81	-6517.	-0.38	17331.	1275.	6.18	0.0300	120.	43.	-0.02
MILE 39.10	792.81	-6637.	-0.39	17120.	1297.	7.75	0.0230	130.	42.	-0.02
MILE 37.00	792.80	-6943.	-0.23	29888.	1074.	6.99	0.0280	81.	42.	-0.01
MILE 36.00	792.80	-6989.	-0.37	18761.	864.	8.23	0.0280	63.	44.	-0.01
MILE 34.60	792.81	-6947.	-0.24	28814.	1177.	9.47	0.0280	63.	44.	-0.01
MILE 33.60	792.81	-6907.	-0.12	58760.	2055.	7.87	0.0290	81.	50.	0.00
MILE 31.50	792.80	-6830.	-0.23	29387.	1685.	10.20	0.0250	91.	54.	-0.01
MILE 30.10	792.80	-6716.	-0.22	30821.	846.	9.69	0.0200	65.	52.	-0.01
MILE 29.00	792.80	-6607.	-0.19	34562.	1011.	10.58	0.0200	73.	53.	-0.01
MILE 27.30	792.80	-6369.	-0.18	35936.	1011.	11.00	0.0230	99.	56.	-0.01
MILE 25.20	792.80	-6033.	-0.14	44669.	1009.	11.83	0.0230	109.	58.	0.00

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 23.10 792.80 -5888. -0.16 36694. 1039. 11.24 0.0230 109. 63. 0.00

0DATE 3-19-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 13.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.61	2000.	2.70	742.	273.	2.21	0.0290	107.	4.	0.29
MILE 77.70	817.00	2095.	2.06	1018.	185.	2.50	0.0400	107.	6.	0.15
MILE 75.60	811.06	2191.	2.01	1087.	170.	2.59	0.0400	107.	5.	0.14
MILE 73.50	807.43	2289.	1.83	1251.	155.	2.90	0.0330	107.	8.	0.11
MILE 71.40	805.85	2394.	1.46	1642.	233.	2.61	0.0400	107.	8.	0.10
MILE 69.30	802.80	2516.	1.91	1318.	275.	2.31	0.0340	107.	4.	0.15
MILE 67.20	797.74	2656.	2.11	1257.	286.	2.32	0.0340	107.	7.	0.18
MILE 65.10	793.41	2744.	1.56	1758.	295.	2.82	0.0320	107.	6.	0.11
MILE 63.00	793.23	2377.	0.75	3175.	329.	4.45	0.0400	107.	12.	0.04
MILE 60.90	793.15	1974.	0.46	4319.	345.	5.50	0.0450	107.	17.	0.02
MILE 58.80	793.11	-259.	-0.05	5416.	343.	6.02	0.0400	-1901.	20.	0.00
MILE 57.00	793.09	-452.	-0.08	5979.	384.	5.82	0.0200	97.	18.	0.00
MILE 55.00	793.07	-726.	-0.12	6133.	444.	6.38	0.0200	99.	20.	-0.01
MILE 53.10	793.06	-1001.	-0.12	8351.	546.	5.81	0.0200	102.	20.	-0.01
MILE 51.00	793.03	-1291.	-0.14	9146.	887.	5.98	0.0200	122.	24.	-0.01
MILE 48.30	792.98	-1757.	-0.15	11921.	1564.	4.96	0.0200	122.	24.	-0.01
MILE 46.20	792.97	-2676.	-0.18	14640.	1750.	6.56	0.0200	107.	31.	-0.01
MILE 44.10	792.94	-2939.	-0.11	26354.	1452.	7.86	0.0300	64.	38.	0.00
MILE 43.70	792.94	-2972.	-0.22	13756.	1313.	8.32	0.0300	53.	40.	-0.01
MILE 42.00	792.91	-3072.	-0.18	17447.	1280.	6.18	0.0300	117.	43.	-0.01
MILE 39.10	792.87	-3184.	-0.19	17168.	1300.	7.75	0.0230	127.	42.	-0.01
MILE 37.00	792.84	-2608.	-0.09	29955.	1075.	7.00	0.0280	79.	42.	0.00
MILE 36.00	792.83	-2428.	-0.13	18780.	865.	8.24	0.0280	61.	44.	0.00
MILE 34.60	792.80	-2237.	-0.08	28802.	1176.	9.47	0.0280	61.	44.	0.00
MILE 33.60	792.79	-1983.	-0.03	58692.	2053.	7.87	0.0290	79.	50.	0.00
MILE 31.50	792.77	-1254.	-0.04	29357.	1683.	10.20	0.0250	89.	54.	0.00
MILE 30.10	792.76	-1108.	-0.04	30774.	844.	9.68	0.0200	64.	52.	0.00
MILE 29.00	792.75	-952.	-0.03	34505.	1009.	10.57	0.0200	71.	53.	0.00
MILE 27.30	792.72	-526.	-0.01	35854.	1008.	10.98	0.0230	97.	56.	0.00
MILE 25.20	792.69	137.	0.00	44545.	1005.	11.81	0.0230	107.	58.	0.00
MILE 23.10	792.67	684.	0.02	36572.	1034.	11.22	0.0230	107.	63.	0.00

0DATE 3-19-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 14.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80 822.64 2000. 2.66 752. 273. 2.22 0.0290 104. 4. 0.28

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE	77.70	817.00	2093.	2.06	1017.	185.	2.50	0.0400	104.	6.	0.15
MILE	75.60	811.05	2191.	2.02	1087.	170.	2.59	0.0400	104.	5.	0.14
MILE	73.50	807.42	2296.	1.84	1250.	155.	2.90	0.0330	104.	8.	0.11
MILE	71.40	805.86	2411.	1.47	1645.	233.	2.61	0.0400	104.	8.	0.10
MILE	69.30	802.82	2545.	1.92	1327.	276.	2.32	0.0340	104.	4.	0.15
MILE	67.20	797.77	2670.	2.10	1270.	287.	2.32	0.0340	104.	7.	0.18
MILE	65.10	793.67	2744.	1.48	1855.	304.	2.91	0.0320	104.	7.	0.11
MILE	63.00	793.43	2804.	0.86	3242.	332.	4.49	0.0400	104.	12.	0.05
MILE	60.90	793.25	3006.	0.69	4354.	346.	5.53	0.0450	104.	17.	0.03
MILE	58.80	793.17	1212.	0.22	5438.	344.	6.03	0.0400	-1903.	20.	0.01
MILE	57.00	793.15	1390.	0.23	6006.	385.	5.83	0.0200	94.	18.	0.01
MILE	55.00	793.13	1633.	0.27	6152.	445.	6.38	0.0200	97.	20.	0.01
MILE	53.10	793.10	1912.	0.23	8374.	547.	5.82	0.0200	99.	20.	0.01
MILE	51.00	793.06	2336.	0.25	9160.	888.	5.98	0.0200	119.	24.	0.01
MILE	48.30	793.00	3123.	0.26	11934.	1565.	4.96	0.0200	119.	24.	0.02
MILE	46.20	792.95	4074.	0.28	14618.	1749.	6.55	0.0200	104.	31.	0.02
MILE	44.10	792.91	4584.	0.17	26316.	1450.	7.85	0.0300	62.	38.	0.01
MILE	43.70	792.91	4678.	0.34	13740.	1312.	8.32	0.0300	52.	40.	0.02
MILE	42.00	792.86	5163.	0.30	17391.	1278.	6.18	0.0300	114.	43.	0.01
MILE	39.10	792.77	6248.	0.37	17093.	1296.	7.74	0.0230	124.	42.	0.02
MILE	37.00	792.73	6640.	0.22	29778.	1071.	6.97	0.0280	77.	41.	0.01
MILE	36.00	792.72	6743.	0.36	18693.	861.	8.23	0.0280	60.	44.	0.01
MILE	34.60	792.69	6900.	0.24	28699.	1172.	9.46	0.0280	60.	44.	0.01
MILE	33.60	792.68	7203.	0.12	58418.	2045.	7.85	0.0290	77.	50.	0.00
MILE	31.50	792.66	8244.	0.28	29254.	1676.	10.18	0.0250	87.	54.	0.01
MILE	30.10	792.63	8639.	0.28	30645.	841.	9.65	0.0200	62.	52.	0.01
MILE	29.00	792.62	8880.	0.26	34378.	1004.	10.55	0.0200	69.	53.	0.01
MILE	27.30	792.59	9303.	0.26	35732.	1003.	10.96	0.0230	94.	55.	0.01
MILE	25.20	792.57	9795.	0.22	44417.	1001.	11.79	0.0230	104.	58.	0.01
MILE	23.10	792.55	10075.	0.28	36458.	1029.	11.20	0.0230	104.	63.	0.01

ODATE 3-19-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 15.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	822.66	2000.	2.65	755.	274.	2.23	0.0290	102.	4.	0.28
MILE	77.70	817.01	2101.	2.06	1019.	185.	2.50	0.0400	102.	6.	0.15
MILE	75.60	811.07	2208.	2.02	1091.	170.	2.59	0.0400	102.	5.	0.14
MILE	73.50	807.45	2319.	1.85	1256.	156.	2.91	0.0330	102.	8.	0.11
MILE	71.40	805.88	2437.	1.47	1654.	234.	2.62	0.0400	102.	8.	0.10
MILE	69.30	802.83	2554.	1.92	1333.	276.	2.33	0.0340	102.	4.	0.15
MILE	67.20	797.76	2656.	2.10	1266.	287.	2.32	0.0340	102.	7.	0.18
MILE	65.10	793.59	2782.	1.52	1827.	302.	2.88	0.0320	102.	7.	0.11
MILE	63.00	793.28	3162.	0.99	3191.	330.	4.46	0.0400	102.	12.	0.06
MILE	60.90	793.00	3656.	0.86	4270.	343.	5.47	0.0450	102.	16.	0.04
MILE	58.80	792.85	2230.	0.42	5322.	340.	5.99	0.0400	-1905.	20.	0.02
MILE	57.00	792.83	2726.	0.46	5868.	380.	5.76	0.0200	92.	18.	0.02

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 203 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE	55.00	792.81	3290.	0.55	6036.	440.	6.34	0.0200	95.	19.	0.03
MILE	53.10	792.79	3865.	0.47	8195.	541.	5.76	0.0200	97.	20.	0.02
MILE	51.00	792.77	4699.	0.52	9021.	879.	5.94	0.0200	116.	23.	0.03
MILE	48.30	792.74	6363.	0.54	11679.	1551.	4.97	0.0200	116.	24.	0.03
MILE	46.20	792.72	7938.	0.55	14422.	1735.	6.51	0.0200	102.	31.	0.03
MILE	44.10	792.70	9527.	0.37	26068.	1439.	7.82	0.0300	61.	38.	0.02
MILE	43.70	792.69	9764.	0.72	13636.	1302.	8.34	0.0300	51.	40.	0.04
MILE	42.00	792.66	10542.	0.61	17169.	1269.	6.19	0.0300	112.	43.	0.03
MILE	39.10	792.63	11179.	0.66	16976.	1289.	7.73	0.0230	121.	42.	0.03
MILE	37.00	792.63	11476.	0.39	29611.	1067.	6.95	0.0280	75.	41.	0.01
MILE	36.00	792.62	11586.	0.62	18620.	858.	8.22	0.0280	58.	44.	0.02
MILE	34.60	792.62	11682.	0.41	28628.	1169.	9.45	0.0280	58.	44.	0.01
MILE	33.60	792.62	11676.	0.20	58259.	2041.	7.84	0.0290	75.	50.	0.01
MILE	31.50	792.63	11483.	0.39	29229.	1674.	10.18	0.0250	85.	54.	0.02
MILE	30.10	792.63	11294.	0.37	30640.	841.	9.65	0.0200	61.	52.	0.01
MILE	29.00	792.63	11147.	0.32	34393.	1005.	10.55	0.0200	68.	53.	0.01
MILE	27.30	792.64	10854.	0.30	35776.	1005.	10.97	0.0230	92.	56.	0.01
MILE	25.20	792.65	10643.	0.24	44501.	1003.	11.81	0.0230	102.	58.	0.01
MILE	23.10	792.65	10596.	0.29	36553.	1033.	11.22	0.0230	102.	63.	0.01

ODATE 3-19-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 16.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	822.62	2000.	2.68	746.	273.	2.22	0.0290	100.	4.	0.29
MILE	77.70	817.02	2113.	2.07	1023.	186.	2.50	0.0400	100.	6.	0.16
MILE	75.60	811.09	2226.	2.03	1096.	171.	2.60	0.0400	100.	5.	0.14
MILE	73.50	807.47	2336.	1.85	1262.	156.	2.91	0.0330	100.	8.	0.11
MILE	71.40	805.90	2444.	1.47	1659.	234.	2.62	0.0400	100.	8.	0.10
MILE	69.30	802.82	2541.	1.91	1330.	276.	2.32	0.0340	100.	4.	0.15
MILE	67.20	797.73	2631.	2.10	1253.	285.	2.31	0.0340	100.	7.	0.18
MILE	65.10	793.30	2768.	1.61	1718.	291.	2.78	0.0320	100.	6.	0.12
MILE	63.00	792.92	3234.	1.05	3075.	324.	4.39	0.0400	100.	12.	0.06
MILE	60.90	792.60	3722.	0.90	4138.	339.	5.37	0.0450	100.	16.	0.05
MILE	58.80	792.45	2193.	0.42	5181.	335.	5.94	0.0400	-1908.	19.	0.02
MILE	57.00	792.45	2600.	0.46	5707.	375.	5.67	0.0200	90.	18.	0.02
MILE	55.00	792.45	3077.	0.52	5905.	434.	6.29	0.0200	92.	19.	0.02
MILE	53.10	792.45	3530.	0.44	7995.	535.	5.69	0.0200	95.	19.	0.02
MILE	51.00	792.47	4074.	0.46	8870.	869.	5.90	0.0200	114.	23.	0.03
MILE	48.30	792.50	4860.	0.42	11449.	1538.	4.99	0.0200	114.	24.	0.03
MILE	46.20	792.52	5637.	0.40	14251.	1722.	6.48	0.0200	100.	31.	0.02
MILE	44.10	792.55	6128.	0.24	25883.	1431.	7.79	0.0300	59.	37.	0.01
MILE	43.70	792.55	6204.	0.46	13565.	1295.	8.35	0.0300	50.	40.	0.02
MILE	42.00	792.57	6454.	0.38	17068.	1264.	6.19	0.0300	109.	43.	0.02
MILE	39.10	792.61	6634.	0.39	16963.	1288.	7.73	0.0230	119.	42.	0.02
MILE	37.00	792.65	6324.	0.21	29639.	1068.	6.95	0.0280	73.	41.	0.01
MILE	36.00	792.66	6278.	0.34	18648.	859.	8.22	0.0280	57.	44.	0.01

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MILE 34.60	792.68	6243.	0.22	28682.	1171.	9.45	0.0280	57.	44.	0.01
MILE 33.60	792.69	6050.	0.10	58423.	2046.	7.85	0.0290	73.	50.	0.00
MILE 31.50	792.71	5328.	0.18	29302.	1679.	10.19	0.0250	83.	54.	0.01
MILE 30.10	792.72	5261.	0.17	30738.	843.	9.67	0.0200	59.	52.	0.00
MILE 29.00	792.73	5186.	0.15	34494.	1008.	10.57	0.0200	66.	53.	0.00
MILE 27.30	792.75	4890.	0.14	35887.	1009.	10.99	0.0230	90.	56.	0.00
MILE 25.20	792.78	4390.	0.10	44645.	1008.	11.83	0.0230	100.	58.	0.00
MILE 23.10	792.80	4160.	0.11	36694.	1039.	11.24	0.0230	100.	63.	0.00

ODATE 3-19-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 17.0000 ELEVATION\ DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.57	2000.	2.73	733.	272.	2.20	0.0290	98.	4.	0.29
MILE 77.70	817.02	2114.	2.07	1023.	186.	2.50	0.0400	98.	6.	0.16
MILE 75.60	811.09	2225.	2.03	1096.	171.	2.60	0.0400	98.	5.	0.14
MILE 73.50	807.47	2331.	1.85	1262.	156.	2.92	0.0330	98.	8.	0.11
MILE 71.40	805.89	2429.	1.47	1657.	234.	2.62	0.0400	98.	8.	0.10
MILE 69.30	802.80	2514.	1.90	1321.	275.	2.32	0.0340	98.	4.	0.15
MILE 67.20	797.69	2597.	2.10	1234.	284.	2.31	0.0340	98.	7.	0.18
MILE 65.10	793.04	2718.	1.68	1622.	282.	2.69	0.0320	98.	6.	0.12
MILE 63.00	792.66	3016.	1.01	2991.	321.	4.34	0.0400	98.	12.	0.06
MILE 60.90	792.42	3166.	0.78	4077.	337.	5.32	0.0450	98.	16.	0.04
MILE 58.80	792.35	1190.	0.23	5146.	334.	5.93	0.0400	-1909.	19.	0.01
MILE 57.00	792.36	1205.	0.21	5672.	374.	5.66	0.0200	88.	18.	0.01
MILE 55.00	792.39	1203.	0.20	5884.	433.	6.28	0.0200	91.	19.	0.01
MILE 53.10	792.42	1157.	0.15	7975.	534.	5.69	0.0200	93.	19.	0.01
MILE 51.00	792.46	1010.	0.11	8865.	869.	5.90	0.0200	111.	23.	0.01
MILE 48.30	792.51	471.	0.04	11460.	1538.	4.99	0.0200	111.	24.	0.00
MILE 46.20	792.56	-310.	-0.02	14286.	1725.	6.48	0.0200	98.	31.	0.00
MILE 44.10	792.59	-905.	-0.03	25939.	1434.	7.80	0.0300	58.	37.	0.00
MILE 43.70	792.60	-993.	-0.07	13590.	1297.	8.35	0.0300	49.	40.	0.00
MILE 42.00	792.63	-1293.	-0.08	17136.	1267.	6.19	0.0300	107.	43.	0.00
MILE 39.10	792.68	-1451.	-0.09	17021.	1292.	7.73	0.0230	116.	42.	0.00
MILE 37.00	792.70	-1233.	-0.04	29721.	1070.	6.96	0.0280	72.	41.	0.00
MILE 36.00	792.71	-1070.	-0.06	18686.	861.	8.23	0.0280	56.	44.	0.00
MILE 34.60	792.72	-813.	-0.03	28728.	1173.	9.46	0.0280	56.	44.	0.00
MILE 33.60	792.73	-693.	-0.01	58537.	2049.	7.86	0.0290	72.	50.	0.00
MILE 31.50	792.74	-644.	-0.02	29327.	1681.	10.19	0.0250	81.	54.	0.00
MILE 30.10	792.75	-441.	-0.01	30764.	844.	9.68	0.0200	58.	52.	0.00
MILE 29.00	792.76	-315.	-0.01	34517.	1009.	10.57	0.0200	65.	53.	0.00
MILE 27.30	792.77	-170.	0.00	35906.	1010.	10.99	0.0230	88.	56.	0.00
MILE 25.20	792.79	-72.	0.00	44649.	1008.	11.83	0.0230	98.	58.	0.00
MILE 23.10	792.79	123.	0.00	36685.	1038.	11.24	0.0230	98.	63.	0.00

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ODATE 3-19-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 18.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.55	2000.	2.75	727.	271.	2.19	0.0290	96.	4.	0.30
MILE 77.70	817.01	2102.	2.06	1019.	185.	2.50	0.0400	96.	6.	0.15
MILE 75.60	811.07	2203.	2.02	1090.	170.	2.59	0.0400	96.	5.	0.14
MILE 73.50	807.45	2303.	1.83	1256.	156.	2.91	0.0330	96.	8.	0.11
MILE 71.40	805.86	2396.	1.46	1646.	233.	2.61	0.0400	96.	8.	0.10
MILE 69.30	802.78	2483.	1.90	1309.	275.	2.31	0.0340	96.	4.	0.15
MILE 67.20	797.67	2583.	2.11	1226.	283.	2.30	0.0340	96.	7.	0.18
MILE 65.10	793.04	2695.	1.66	1621.	282.	2.69	0.0320	96.	6.	0.12
MILE 63.00	792.78	2531.	0.84	3029.	322.	4.37	0.0400	96.	12.	0.05
MILE 60.90	792.68	2172.	0.52	4164.	340.	5.39	0.0450	96.	16.	0.03
MILE 58.80	792.68	-302.	-0.06	5264.	338.	5.97	0.0400	-1911.	20.	0.00
MILE 57.00	792.70	-672.	-0.12	5813.	378.	5.73	0.0200	86.	18.	-0.01
MILE 55.00	792.71	-1060.	-0.18	6001.	438.	6.33	0.0200	89.	19.	-0.01
MILE 53.10	792.72	-1380.	-0.17	8151.	540.	5.75	0.0200	91.	19.	-0.01
MILE 51.00	792.71	-1747.	-0.19	8992.	877.	5.94	0.0200	109.	23.	-0.01
MILE 48.30	792.70	-2303.	-0.20	11644.	1549.	4.98	0.0200	109.	24.	-0.01
MILE 46.20	792.70	-2925.	-0.20	14410.	1734.	6.51	0.0200	96.	31.	-0.01
MILE 44.10	792.70	-3558.	-0.14	26070.	1440.	7.82	0.0300	57.	38.	-0.01
MILE 43.70	792.70	-3651.	-0.27	13641.	1302.	8.34	0.0300	48.	40.	-0.01
MILE 42.00	792.71	-3970.	-0.23	17220.	1271.	6.18	0.0300	105.	43.	-0.01
MILE 39.10	792.73	-4513.	-0.26	17057.	1294.	7.74	0.0230	114.	42.	-0.01
MILE 37.00	792.75	-5183.	-0.17	29809.	1072.	6.97	0.0280	71.	41.	-0.01
MILE 36.00	792.76	-5452.	-0.29	18727.	863.	8.23	0.0280	55.	44.	-0.01
MILE 34.60	792.77	-5793.	-0.20	28775.	1175.	9.47	0.0280	55.	44.	-0.01
MILE 33.60	792.78	-6067.	-0.10	58659.	2052.	7.87	0.0290	71.	50.	0.00
MILE 31.50	792.78	-6584.	-0.22	29369.	1684.	10.20	0.0250	80.	54.	-0.01
MILE 30.10	792.80	-6894.	-0.22	30816.	846.	9.68	0.0200	57.	52.	-0.01
MILE 29.00	792.81	-7051.	-0.20	34565.	1011.	10.58	0.0200	64.	53.	-0.01
MILE 27.30	792.81	-7256.	-0.20	35945.	1011.	11.00	0.0230	86.	56.	-0.01
MILE 25.20	792.83	-7394.	-0.17	44693.	1010.	11.83	0.0230	96.	58.	0.00
MILE 23.10	792.85	-7561.	-0.21	36741.	1040.	11.25	0.0230	96.	63.	-0.01

ODATE 3-19-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 19.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	822.57	2000.	2.73	732.	272.	2.20	0.0290	94.	4.	0.29
MILE 77.70	816.99	2087.	2.06	1014.	184.	2.49	0.0400	94.	6.	0.15
MILE 75.60	811.04	2176.	2.01	1081.	169.	2.58	0.0400	94.	5.	0.14
MILE 73.50	807.40	2270.	1.82	1245.	155.	2.89	0.0330	94.	8.	0.11
MILE 71.40	805.83	2367.	1.45	1632.	233.	2.60	0.0400	94.	8.	0.10

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MILE 69.30	802.77	2478.	1.90	1305.	274.	2.30	0.0340	94.	4.	0.15
MILE 67.20	797.70	2609.	2.11	1238.	284.	2.31	0.0340	94.	7.	0.18
MILE 65.10	793.36	2685.	1.54	1739.	293.	2.80	0.0320	94.	6.	0.11
MILE 63.00	793.14	2475.	0.79	3147.	328.	4.44	0.0400	94.	12.	0.04
MILE 60.90	793.01	2382.	0.56	4273.	344.	5.47	0.0450	94.	16.	0.03
MILE 58.80	792.96	343.	0.06	5362.	341.	6.00	0.0400	-1913.	20.	0.00
MILE 57.00	792.95	255.	0.04	5918.	382.	5.79	0.0200	85.	18.	0.00
MILE 55.00	792.93	78.	0.01	6082.	442.	6.36	0.0200	87.	19.	0.00
MILE 53.10	792.92	-188.	-0.02	8272.	544.	5.79	0.0200	89.	20.	0.00
MILE 51.00	792.92	-696.	-0.08	9092.	884.	5.96	0.0200	107.	24.	0.00
MILE 48.30	792.92	-2137.	-0.18	11857.	1561.	4.96	0.0200	107.	24.	-0.01
MILE 46.20	792.92	-3495.	-0.24	14596.	1747.	6.55	0.0200	94.	31.	-0.01
MILE 44.10	792.92	-4594.	-0.17	26326.	1451.	7.85	0.0300	56.	38.	-0.01
MILE 43.70	792.92	-4769.	-0.35	13747.	1312.	8.32	0.0300	47.	40.	-0.02
MILE 42.00	792.93	-5456.	-0.31	17467.	1281.	6.18	0.0300	103.	43.	-0.01
MILE 39.10	792.94	-6426.	-0.37	17224.	1303.	7.76	0.0230	112.	42.	-0.02
MILE 37.00	792.93	-6453.	-0.21	30092.	1078.	7.02	0.0280	69.	42.	-0.01
MILE 36.00	792.93	-6525.	-0.35	18857.	868.	8.24	0.0280	54.	44.	-0.01
MILE 34.60	792.93	-6718.	-0.23	28925.	1181.	9.49	0.0280	54.	44.	-0.01
MILE 33.60	792.92	-6871.	-0.12	59052.	2063.	7.90	0.0290	69.	50.	0.00
MILE 31.50	792.91	-7125.	-0.24	29484.	1691.	10.22	0.0250	78.	54.	-0.01
MILE 30.10	792.91	-7383.	-0.24	30934.	849.	9.71	0.0200	56.	52.	-0.01
MILE 29.00	792.91	-7461.	-0.22	34668.	1015.	10.60	0.0200	62.	53.	-0.01
MILE 27.30	792.90	-7431.	-0.21	36031.	1014.	11.01	0.0230	85.	56.	-0.01
MILE 25.20	792.88	-7255.	-0.16	44755.	1012.	11.84	0.0230	94.	58.	0.00
MILE 23.10	792.87	-7283.	-0.20	36760.	1041.	11.25	0.0230	94.	63.	-0.01

ODATE 3-19-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 20.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	826.04	6280.	3.65	1722.	336.	3.28	0.0290	92.	7.	0.28
MILE 77.70	820.14	5788.	2.96	1956.	280.	3.27	0.0400	92.	9.	0.20
MILE 75.60	812.35	3896.	2.72	1432.	203.	3.06	0.0400	92.	6.	0.18
MILE 73.50	807.66	2763.	2.11	1311.	160.	2.98	0.0330	92.	8.	0.13
MILE 71.40	805.87	2477.	1.50	1650.	234.	2.62	0.0400	92.	8.	0.10
MILE 69.30	802.79	2508.	1.91	1313.	275.	2.31	0.0340	92.	4.	0.15
MILE 67.20	797.71	2610.	2.10	1244.	285.	2.31	0.0340	92.	7.	0.18
MILE 65.10	793.49	2695.	1.51	1789.	298.	2.85	0.0320	92.	6.	0.11
MILE 63.00	793.29	2636.	0.83	3194.	330.	4.47	0.0400	92.	12.	0.05
MILE 60.90	793.18	2480.	0.57	4330.	346.	5.51	0.0450	92.	17.	0.03
MILE 58.80	793.15	289.	0.05	5432.	343.	6.03	0.0400	-1915.	20.	0.00
MILE 57.00	793.15	173.	0.03	6006.	385.	5.83	0.0200	83.	18.	0.00
MILE 55.00	793.15	55.	0.01	6162.	445.	6.39	0.0200	85.	20.	0.00
MILE 53.10	793.15	-88.	-0.01	8409.	548.	5.83	0.0200	87.	20.	0.00
MILE 51.00	793.15	-313.	-0.03	9207.	891.	6.00	0.0200	105.	24.	0.00
MILE 48.30	793.13	-613.	-0.05	12069.	1572.	4.95	0.0200	105.	24.	0.00

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Appendix F		Checked	ACM

MILE 46.20	793.11	-958.	-0.06	14763.	1759.	6.58	0.0200	92.	31.	0.00
MILE 44.10	793.09	-1472.	-0.06	26529.	1460.	7.88	0.0300	55.	38.	0.00
MILE 43.70	793.09	-1549.	-0.11	13831.	1320.	8.30	0.0300	46.	40.	-0.01
MILE 42.00	793.07	-1819.	-0.10	17622.	1287.	6.17	0.0300	101.	43.	0.00
MILE 39.10	793.04	-2356.	-0.14	17302.	1308.	7.77	0.0230	109.	42.	-0.01
MILE 37.00	793.03	-3059.	-0.10	30251.	1082.	7.04	0.0280	68.	42.	0.00
MILE 36.00	793.02	-3382.	-0.18	18934.	871.	8.25	0.0280	52.	44.	-0.01
MILE 34.60	793.02	-3826.	-0.13	29018.	1185.	9.50	0.0280	52.	45.	0.00
MILE 33.60	793.02	-4144.	-0.07	59300.	2070.	7.91	0.0290	68.	50.	0.00
MILE 31.50	793.01	-4672.	-0.16	29569.	1697.	10.23	0.0250	77.	54.	-0.01
MILE 30.10	793.01	-5122.	-0.17	31032.	852.	9.72	0.0200	55.	52.	0.00
MILE 29.00	793.00	-5348.	-0.15	34761.	1018.	10.61	0.0200	61.	53.	0.00
MILE 27.30	793.00	-5615.	-0.16	36124.	1018.	11.02	0.0230	83.	56.	0.00
MILE 25.20	793.00	-5798.	-0.13	44878.	1016.	11.86	0.0230	92.	58.	0.00
MILE 23.10	793.00	-6171.	-0.17	36883.	1046.	11.27	0.0230	92.	63.	0.00

ODATE 3-19-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 21.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	827.54	10440.	4.80	2175.	357.	3.76	0.0290	90.	9.	0.34
MILE 77.70	822.86	10097.	3.50	2883.	363.	4.18	0.0400	90.	12.	0.22
MILE 75.60	815.61	8428.	3.60	2343.	285.	4.09	0.0400	90.	9.	0.22
MILE 73.50	809.88	6092.	3.21	1896.	206.	3.64	0.0330	90.	11.	0.19
MILE 71.40	807.04	4346.	2.06	2114.	256.	3.05	0.0400	90.	9.	0.13
MILE 69.30	803.11	3104.	2.13	1455.	286.	2.43	0.0340	90.	4.	0.17
MILE 67.20	797.79	2735.	2.14	1278.	288.	2.33	0.0340	90.	7.	0.18
MILE 65.10	793.67	2708.	1.46	1855.	304.	2.91	0.0320	90.	7.	0.10
MILE 63.00	793.46	2660.	0.82	3252.	332.	4.50	0.0400	90.	12.	0.05
MILE 60.90	793.31	2740.	0.63	4374.	347.	5.55	0.0450	90.	17.	0.03
MILE 58.80	793.24	914.	0.17	5464.	345.	6.04	0.0400	-1916.	20.	0.01
MILE 57.00	793.23	1028.	0.17	6036.	386.	5.85	0.0200	82.	18.	0.01
MILE 55.00	793.21	1113.	0.18	6183.	446.	6.40	0.0200	84.	20.	0.01
MILE 53.10	793.20	1184.	0.14	8434.	549.	5.84	0.0200	86.	20.	0.01
MILE 51.00	793.18	1235.	0.13	9225.	892.	6.00	0.0200	103.	24.	0.01
MILE 48.30	793.18	909.	0.07	12126.	1575.	4.94	0.0200	103.	24.	0.00
MILE 46.20	793.18	447.	0.03	14823.	1763.	6.59	0.0200	90.	31.	0.00
MILE 44.10	793.18	284.	0.01	26632.	1464.	7.90	0.0300	54.	38.	0.00
MILE 43.70	793.18	255.	0.02	13876.	1324.	8.30	0.0300	45.	40.	0.00
MILE 42.00	793.18	105.	0.01	17749.	1292.	6.17	0.0300	99.	43.	0.00
MILE 39.10	793.16	-114.	-0.01	17403.	1314.	7.78	0.0230	108.	42.	0.00
MILE 37.00	793.15	178.	0.01	30447.	1087.	7.07	0.0280	67.	42.	0.00
MILE 36.00	793.14	296.	0.02	19026.	874.	8.26	0.0280	52.	44.	0.00
MILE 34.60	793.13	414.	0.01	29124.	1190.	9.51	0.0280	52.	45.	0.00
MILE 33.60	793.12	449.	0.01	59582.	2077.	7.94	0.0290	67.	50.	0.00
MILE 31.50	793.12	394.	0.01	29665.	1704.	10.25	0.0250	75.	54.	0.00
MILE 30.10	793.10	353.	0.01	31134.	855.	9.74	0.0200	54.	52.	0.00

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE	29.00	793.09	354.	0.01	34852.	1021.	10.63	0.0200	60.	53.	0.00
MILE	27.30	793.08	377.	0.01	36205.	1021.	11.04	0.0230	82.	56.	0.00
MILE	25.20	793.06	400.	0.01	44948.	1018.	11.87	0.0230	90.	59.	0.00
MILE	23.10	793.04	324.	0.01	36921.	1047.	11.28	0.0230	90.	63.	0.00

ODATE 3-19-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 22.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	827.71	10780.	4.84	2226.	359.	3.82	0.0290	89.	9.	0.34
MILE	77.70	823.48	10708.	3.46	3098.	382.	4.37	0.0400	89.	13.	0.21
MILE	75.60	817.28	10292.	3.62	2845.	328.	4.53	0.0400	89.	11.	0.22
MILE	73.50	812.16	9308.	3.64	2558.	252.	4.21	0.0330	89.	13.	0.20
MILE	71.40	809.29	7990.	2.64	3031.	298.	3.79	0.0400	89.	11.	0.15
MILE	69.30	804.77	6257.	2.82	2222.	340.	2.96	0.0340	89.	6.	0.19
MILE	67.20	798.68	4281.	2.51	1707.	331.	2.52	0.0340	89.	8.	0.19
MILE	65.10	793.83	3277.	1.71	1914.	310.	2.96	0.0320	89.	7.	0.12
MILE	63.00	793.49	3125.	0.96	3263.	333.	4.51	0.0400	89.	12.	0.05
MILE	60.90	793.30	3076.	0.70	4372.	347.	5.54	0.0450	89.	17.	0.03
MILE	58.80	793.24	1023.	0.19	5464.	345.	6.04	0.0400	-1918.	20.	0.01
MILE	57.00	793.24	1050.	0.17	6041.	386.	5.85	0.0200	80.	18.	0.01
MILE	55.00	793.23	1147.	0.19	6191.	446.	6.40	0.0200	82.	20.	0.01
MILE	53.10	793.23	1257.	0.15	8456.	550.	5.85	0.0200	85.	20.	0.01
MILE	51.00	793.23	1416.	0.15	9246.	893.	6.01	0.0200	101.	24.	0.01
MILE	48.30	793.21	1962.	0.16	12147.	1577.	4.94	0.0200	101.	24.	0.01
MILE	46.20	793.19	2651.	0.18	14828.	1764.	6.59	0.0200	89.	31.	0.01
MILE	44.10	793.17	2953.	0.11	26625.	1464.	7.90	0.0300	53.	38.	0.00
MILE	43.70	793.17	3010.	0.22	13871.	1324.	8.30	0.0300	44.	40.	0.01
MILE	42.00	793.15	3296.	0.19	17718.	1291.	6.17	0.0300	97.	43.	0.01
MILE	39.10	793.11	4049.	0.23	17360.	1311.	7.77	0.0230	106.	42.	0.01
MILE	37.00	793.09	4179.	0.14	30354.	1085.	7.05	0.0280	66.	42.	0.00
MILE	36.00	793.09	4259.	0.22	18981.	873.	8.26	0.0280	51.	44.	0.01
MILE	34.60	793.08	4405.	0.15	29075.	1188.	9.51	0.0280	51.	45.	0.01
MILE	33.60	793.07	4507.	0.08	59453.	2074.	7.93	0.0290	66.	50.	0.00
MILE	31.50	793.07	4700.	0.16	29622.	1701.	10.24	0.0250	74.	54.	0.01
MILE	30.10	793.06	4957.	0.16	31089.	854.	9.73	0.0200	53.	52.	0.00
MILE	29.00	793.06	5094.	0.15	34814.	1020.	10.62	0.0200	59.	53.	0.00
MILE	27.30	793.05	5205.	0.14	36179.	1020.	11.03	0.0230	80.	56.	0.00
MILE	25.20	793.06	5182.	0.12	44943.	1018.	11.86	0.0230	89.	59.	0.00
MILE	23.10	793.05	5288.	0.14	36930.	1048.	11.28	0.0230	89.	63.	0.00

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Appendix F		Checked	ACM

TIME 23.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	827.75	10890.	4.87	2238.	359.	3.83	0.0290	88.	9.	0.34
MILE 77.70	823.71	10908.	3.44	3175.	389.	4.43	0.0400	88.	13.	0.21
MILE 75.60	817.86	10782.	3.56	3025.	343.	4.68	0.0400	88.	11.	0.21
MILE 73.50	813.10	10425.	3.66	2846.	271.	4.43	0.0330	88.	14.	0.20
MILE 71.40	810.46	9927.	2.82	3518.	317.	4.15	0.0400	88.	13.	0.15
MILE 69.30	806.24	9217.	3.17	2909.	363.	3.46	0.0340	88.	8.	0.20
MILE 67.20	800.56	8050.	2.93	2752.	410.	3.00	0.0340	88.	10.	0.20
MILE 65.10	794.77	5673.	2.50	2273.	344.	3.27	0.0320	88.	8.	0.17
MILE 63.00	793.95	4615.	1.35	3417.	339.	4.59	0.0400	88.	13.	0.07
MILE 60.90	793.47	4306.	0.97	4428.	349.	5.59	0.0450	88.	17.	0.05
MILE 58.80	793.26	2401.	0.44	5471.	345.	6.04	0.0400	-1918.	20.	0.02
MILE 57.00	793.22	2508.	0.42	6034.	385.	5.85	0.0200	80.	18.	0.02
MILE 55.00	793.18	2612.	0.42	6172.	446.	6.39	0.0200	82.	20.	0.02
MILE 53.10	793.15	2768.	0.33	8406.	548.	5.83	0.0200	84.	20.	0.01
MILE 51.00	793.11	3089.	0.34	9190.	890.	5.99	0.0200	100.	24.	0.02
MILE 48.30	793.08	3715.	0.31	12024.	1570.	4.95	0.0200	100.	24.	0.02
MILE 46.20	793.08	3993.	0.27	14736.	1757.	6.57	0.0200	88.	31.	0.02
MILE 44.10	793.08	4576.	0.17	26511.	1459.	7.88	0.0300	52.	38.	0.01
MILE 43.70	793.08	4665.	0.34	13824.	1320.	8.30	0.0300	44.	40.	0.02
MILE 42.00	793.07	4950.	0.28	17630.	1287.	6.17	0.0300	96.	43.	0.01
MILE 39.10	793.08	5097.	0.29	17334.	1310.	7.77	0.0230	105.	42.	0.01
MILE 37.00	793.09	5195.	0.17	30343.	1084.	7.05	0.0280	65.	42.	0.01
MILE 36.00	793.08	5295.	0.28	18981.	873.	8.26	0.0280	50.	44.	0.01
MILE 34.60	793.09	5460.	0.19	29082.	1188.	9.51	0.0280	50.	45.	0.01
MILE 33.60	793.09	5500.	0.09	59483.	2075.	7.93	0.0290	65.	50.	0.00
MILE 31.50	793.09	5372.	0.18	29641.	1702.	10.24	0.0250	73.	54.	0.01
MILE 30.10	793.09	5433.	0.17	31118.	855.	9.74	0.0200	52.	52.	0.01
MILE 29.00	793.09	5448.	0.16	34845.	1021.	10.63	0.0200	59.	53.	0.00
MILE 27.30	793.09	5377.	0.15	36212.	1021.	11.04	0.0230	80.	56.	0.00
MILE 25.20	793.09	5272.	0.12	44979.	1019.	11.87	0.0230	88.	59.	0.00
MILE 23.10	793.09	5278.	0.14	36968.	1049.	11.29	0.0230	88.	63.	0.00

ODATE 3-20-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 0.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	827.74	10890.	4.87	2237.	359.	3.83	0.0290	87.	9.	0.34
MILE 77.70	823.78	10963.	3.42	3202.	391.	4.46	0.0400	87.	13.	0.21
MILE 75.60	818.11	10992.	3.54	3102.	349.	4.74	0.0400	87.	12.	0.21
MILE 73.50	813.52	10913.	3.67	2976.	279.	4.52	0.0330	87.	14.	0.20
MILE 71.40	810.96	10741.	2.88	3728.	323.	4.30	0.0400	87.	13.	0.15
MILE 69.30	806.84	10417.	3.26	3191.	370.	3.65	0.0340	87.	8.	0.20
MILE 67.20	801.49	9827.	3.01	3260.	437.	3.32	0.0340	87.	11.	0.19
MILE 65.10	796.17	8631.	3.05	2828.	406.	3.72	0.0320	87.	9.	0.20

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE	63.00	794.81	7324.	1.97	3711.	351.	4.76	0.0400	87.	14.	0.11
MILE	60.90	793.75	6753.	1.49	4521.	352.	5.65	0.0450	87.	17.	0.07
MILE	58.80	793.28	4605.	0.84	5477.	345.	6.04	0.0400	-1919.	20.	0.04
MILE	57.00	793.22	4578.	0.76	6035.	385.	5.85	0.0200	79.	18.	0.03
MILE	55.00	793.17	4581.	0.74	6168.	445.	6.39	0.0200	81.	20.	0.04
MILE	53.10	793.14	4574.	0.54	8400.	548.	5.83	0.0200	83.	20.	0.02
MILE	51.00	793.12	4485.	0.49	9191.	890.	5.99	0.0200	99.	24.	0.03
MILE	48.30	793.10	4177.	0.35	12037.	1571.	4.95	0.0200	99.	24.	0.02
MILE	46.20	793.08	4165.	0.28	14740.	1757.	6.58	0.0200	87.	31.	0.02
MILE	44.10	793.09	3918.	0.15	26521.	1459.	7.88	0.0300	52.	38.	0.01
MILE	43.70	793.09	3883.	0.28	13829.	1320.	8.30	0.0300	44.	40.	0.02
MILE	42.00	793.09	3773.	0.21	17645.	1288.	6.17	0.0300	95.	43.	0.01
MILE	39.10	793.08	3772.	0.22	17337.	1310.	7.77	0.0230	104.	42.	0.01
MILE	37.00	793.08	3720.	0.12	30338.	1084.	7.05	0.0280	64.	42.	0.00
MILE	36.00	793.08	3704.	0.20	18981.	873.	8.26	0.0280	50.	44.	0.01
MILE	34.60	793.09	3678.	0.13	29087.	1188.	9.51	0.0280	50.	45.	0.00
MILE	33.60	793.09	3622.	0.06	59500.	2075.	7.93	0.0290	64.	50.	0.00
MILE	31.50	793.10	3461.	0.12	29647.	1702.	10.24	0.0250	72.	54.	0.00
MILE	30.10	793.10	3463.	0.11	31135.	855.	9.74	0.0200	52.	52.	0.00
MILE	29.00	793.11	3480.	0.10	34867.	1022.	10.63	0.0200	58.	53.	0.00
MILE	27.30	793.12	3478.	0.10	36240.	1022.	11.04	0.0230	79.	56.	0.00
MILE	25.20	793.12	3381.	0.08	45016.	1020.	11.87	0.0230	87.	59.	0.00
MILE	23.10	793.13	3354.	0.09	37006.	1051.	11.29	0.0230	87.	63.	0.00

ODATE 3-20-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 1.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
 DEPTH FROUDE

MILE	79.80	827.73	10890.	4.88	2232.	359.	3.82	0.0290	86.	9.	0.34
MILE	77.70	823.81	10967.	3.42	3210.	392.	4.46	0.0400	86.	13.	0.21
MILE	75.60	818.19	11011.	3.52	3129.	351.	4.76	0.0400	86.	12.	0.21
MILE	73.50	813.64	10991.	3.64	3016.	282.	4.55	0.0330	86.	14.	0.20
MILE	71.40	811.11	10937.	2.89	3789.	324.	4.34	0.0400	86.	13.	0.15
MILE	69.30	807.05	10846.	3.30	3291.	373.	3.72	0.0340	86.	8.	0.20
MILE	67.20	801.94	10668.	3.04	3507.	451.	3.47	0.0340	86.	11.	0.19
MILE	65.10	797.07	10093.	3.16	3189.	447.	4.00	0.0320	86.	10.	0.21
MILE	63.00	795.60	9176.	2.30	3993.	383.	4.92	0.0400	86.	15.	0.13
MILE	60.90	794.17	8578.	1.84	4660.	357.	5.75	0.0450	86.	18.	0.09
MILE	58.80	793.45	6339.	1.14	5540.	347.	6.07	0.0400	-1920.	20.	0.05
MILE	57.00	793.38	6249.	1.02	6101.	388.	5.88	0.0200	78.	19.	0.05
MILE	55.00	793.31	6131.	0.99	6219.	448.	6.41	0.0200	80.	20.	0.05
MILE	53.10	793.27	5988.	0.71	8476.	550.	5.85	0.0200	82.	20.	0.03
MILE	51.00	793.23	5755.	0.62	9247.	893.	6.01	0.0200	98.	24.	0.03
MILE	48.30	793.19	5258.	0.43	12135.	1576.	4.94	0.0200	98.	24.	0.03
MILE	46.20	793.18	4566.	0.31	14827.	1763.	6.59	0.0200	86.	31.	0.02
MILE	44.10	793.18	3977.	0.15	26634.	1464.	7.90	0.0300	51.	38.	0.01
MILE	43.70	793.18	3880.	0.28	13877.	1324.	8.30	0.0300	43.	40.	0.02

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE	42.00	793.18	3458.	0.19	17751.	1292.	6.17	0.0300	94.	43.	0.01
MILE	39.10	793.19	2461.	0.14	17427.	1315.	7.78	0.0230	103.	42.	0.01
MILE	37.00	793.21	1778.	0.06	30537.	1089.	7.08	0.0280	64.	42.	0.00
MILE	36.00	793.21	1496.	0.08	19081.	877.	8.27	0.0280	49.	44.	0.00
MILE	34.60	793.22	1082.	0.04	29214.	1194.	9.53	0.0280	49.	45.	0.00
MILE	33.60	793.22	673.	0.01	59846.	2085.	7.96	0.0290	64.	50.	0.00
MILE	31.50	793.23	-259.	-0.01	29763.	1710.	10.26	0.0250	72.	54.	0.00
MILE	30.10	793.23	-736.	-0.02	31269.	859.	9.77	0.0200	51.	52.	0.00
MILE	29.00	793.24	-992.	-0.03	34995.	1027.	10.65	0.0200	57.	54.	0.00
MILE	27.30	793.24	-1362.	-0.04	36364.	1027.	11.06	0.0230	78.	56.	0.00
MILE	25.20	793.25	-1636.	-0.04	45153.	1025.	11.89	0.0230	86.	59.	0.00
MILE	23.10	793.26	-1977.	-0.05	37129.	1056.	11.31	0.0230	86.	63.	0.00

ODATE 3-20-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 2.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	827.77	10890.	4.85	2245.	360.	3.83	0.0290	85.	9.	0.34
MILE	77.70	823.81	10943.	3.41	3210.	392.	4.47	0.0400	85.	13.	0.21
MILE	75.60	818.20	10975.	3.51	3130.	351.	4.76	0.0400	85.	12.	0.21
MILE	73.50	813.67	11003.	3.64	3025.	282.	4.56	0.0330	85.	14.	0.20
MILE	71.40	811.16	11032.	2.90	3811.	325.	4.36	0.0400	85.	13.	0.15
MILE	69.30	807.16	11055.	3.31	3339.	374.	3.75	0.0340	85.	8.	0.20
MILE	67.20	802.17	11026.	3.03	3634.	458.	3.54	0.0340	85.	11.	0.19
MILE	65.10	797.59	10745.	3.16	3400.	471.	4.15	0.0320	85.	11.	0.21
MILE	63.00	796.12	10195.	2.44	4183.	409.	5.04	0.0400	85.	15.	0.13
MILE	60.90	794.50	9793.	2.05	4773.	361.	5.83	0.0450	85.	18.	0.10
MILE	58.80	793.62	7592.	1.36	5602.	349.	6.09	0.0400	-1921.	21.	0.06
MILE	57.00	793.54	7465.	1.21	6171.	390.	5.92	0.0200	77.	19.	0.05
MILE	55.00	793.47	7286.	1.16	6280.	450.	6.43	0.0200	79.	20.	0.05
MILE	53.10	793.44	7048.	0.82	8580.	554.	5.89	0.0200	81.	20.	0.04
MILE	51.00	793.42	6571.	0.70	9341.	899.	6.03	0.0200	97.	24.	0.04
MILE	48.30	793.41	5247.	0.42	12360.	1588.	4.93	0.0200	97.	24.	0.03
MILE	46.20	793.41	3920.	0.26	15019.	1777.	6.63	0.0200	85.	32.	0.02
MILE	44.10	793.41	2761.	0.10	26902.	1476.	7.94	0.0300	51.	38.	0.00
MILE	43.70	793.41	2591.	0.19	13991.	1335.	8.28	0.0300	43.	40.	0.01
MILE	42.00	793.40	2025.	0.11	18012.	1303.	6.17	0.0300	93.	43.	0.01
MILE	39.10	793.38	1481.	0.08	17578.	1324.	7.80	0.0230	101.	42.	0.00
MILE	37.00	793.36	1478.	0.05	30790.	1095.	7.12	0.0280	63.	42.	0.00
MILE	36.00	793.36	1460.	0.08	19194.	881.	8.28	0.0280	49.	44.	0.00
MILE	34.60	793.34	1418.	0.05	29337.	1199.	9.54	0.0280	49.	45.	0.00
MILE	33.60	793.34	1414.	0.02	60158.	2093.	7.98	0.0290	63.	50.	0.00
MILE	31.50	793.33	1486.	0.05	29855.	1716.	10.28	0.0250	71.	55.	0.00
MILE	30.10	793.32	1435.	0.05	31360.	862.	9.78	0.0200	51.	53.	0.00
MILE	29.00	793.31	1465.	0.04	35070.	1029.	10.67	0.0200	57.	54.	0.00
MILE	27.30	793.30	1618.	0.04	36421.	1029.	11.07	0.0230	77.	56.	0.00
MILE	25.20	793.28	1811.	0.04	45190.	1026.	11.90	0.0230	85.	59.	0.00

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 23.10 793.27 1813. 0.05 37138. 1056. 11.32 0.0230 85. 63. 0.00

ODATE 3-20-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 3.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	827.81	10890.	4.82	2258.	360.	3.85	0.0290	84.	9.	0.34
MILE 77.70	823.82	10951.	3.41	3215.	392.	4.47	0.0400	84.	13.	0.21
MILE 75.60	818.21	10996.	3.51	3134.	352.	4.76	0.0400	84.	12.	0.21
MILE 73.50	813.69	11042.	3.64	3032.	283.	4.56	0.0330	84.	14.	0.20
MILE 71.40	811.19	11094.	2.90	3823.	325.	4.37	0.0400	84.	13.	0.15
MILE 69.30	807.20	11144.	3.32	3361.	375.	3.77	0.0340	84.	9.	0.20
MILE 67.20	802.28	11169.	3.02	3698.	461.	3.58	0.0340	84.	12.	0.19
MILE 65.10	797.90	11043.	3.13	3524.	485.	4.24	0.0320	84.	11.	0.20
MILE 63.00	796.45	10709.	2.49	4309.	426.	5.11	0.0400	84.	15.	0.14
MILE 60.90	794.81	10356.	2.12	4878.	365.	5.91	0.0450	84.	18.	0.10
MILE 58.80	793.91	8025.	1.41	5707.	353.	6.12	0.0400	-1922.	21.	0.06
MILE 57.00	793.83	7804.	1.24	6292.	394.	5.98	0.0200	76.	19.	0.05
MILE 55.00	793.75	7576.	1.19	6381.	454.	6.47	0.0200	78.	20.	0.06
MILE 53.10	793.70	7388.	0.85	8735.	559.	5.94	0.0200	80.	20.	0.04
MILE 51.00	793.64	7179.	0.76	9456.	906.	6.06	0.0200	96.	24.	0.04
MILE 48.30	793.57	7029.	0.56	12535.	1597.	4.93	0.0200	96.	25.	0.04
MILE 46.20	793.54	6940.	0.46	15133.	1785.	6.65	0.0200	84.	32.	0.03
MILE 44.10	793.51	6757.	0.25	27029.	1481.	7.96	0.0300	50.	38.	0.01
MILE 43.70	793.51	6719.	0.48	14042.	1340.	8.27	0.0300	42.	41.	0.03
MILE 42.00	793.48	6511.	0.36	18099.	1306.	6.16	0.0300	92.	43.	0.02
MILE 39.10	793.46	5551.	0.31	17642.	1328.	7.81	0.0230	100.	42.	0.02
MILE 37.00	793.47	4355.	0.14	30969.	1099.	7.14	0.0280	62.	42.	0.00
MILE 36.00	793.48	3877.	0.20	19291.	885.	8.29	0.0280	48.	44.	0.01
MILE 34.60	793.48	3192.	0.11	29473.	1205.	9.56	0.0280	48.	45.	0.00
MILE 33.60	793.48	2490.	0.04	60544.	2104.	8.01	0.0290	62.	51.	0.00
MILE 31.50	793.49	852.	0.03	30001.	1726.	10.30	0.0250	70.	55.	0.00
MILE 30.10	793.50	120.	0.00	31544.	867.	9.81	0.0200	50.	53.	0.00
MILE 29.00	793.50	-357.	-0.01	35256.	1036.	10.70	0.0200	56.	54.	0.00
MILE 27.30	793.51	-1254.	-0.03	36621.	1036.	11.10	0.0230	76.	56.	0.00
MILE 25.20	793.52	-2215.	-0.05	45452.	1035.	11.93	0.0230	84.	59.	0.00
MILE 23.10	793.54	-3001.	-0.08	37394.	1066.	11.36	0.0230	84.	64.	0.00

ODATE 3-20-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 4.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80 827.83 10890. 4.81 2263. 361. 3.85 0.0290 83. 9. 0.34

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 213 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 77.70	823.84	10963.	3.40	3220.	393.	4.47	0.0400	83.	13.	0.21
MILE 75.60	818.23	11025.	3.51	3141.	352.	4.77	0.0400	83.	12.	0.21
MILE 73.50	813.72	11084.	3.65	3039.	283.	4.57	0.0330	83.	15.	0.20
MILE 71.40	811.21	11146.	2.91	3833.	326.	4.37	0.0400	83.	13.	0.15
MILE 69.30	807.23	11205.	3.32	3375.	375.	3.78	0.0340	83.	9.	0.20
MILE 67.20	802.35	11247.	3.01	3736.	463.	3.60	0.0340	83.	12.	0.19
MILE 65.10	798.10	11180.	3.10	3606.	495.	4.29	0.0320	83.	11.	0.20
MILE 63.00	796.69	10978.	2.50	4397.	438.	5.16	0.0400	83.	16.	0.14
MILE 60.90	795.01	10861.	2.20	4945.	367.	5.95	0.0450	83.	18.	0.11
MILE 58.80	793.98	8939.	1.56	5735.	354.	6.13	0.0400	-1923.	21.	0.07
MILE 57.00	793.88	9054.	1.43	6315.	395.	5.99	0.0200	75.	19.	0.06
MILE 55.00	793.78	9145.	1.43	6394.	455.	6.47	0.0200	77.	20.	0.07
MILE 53.10	793.73	9145.	1.04	8757.	559.	5.94	0.0200	79.	20.	0.05
MILE 51.00	793.70	8917.	0.94	9485.	908.	6.07	0.0200	95.	24.	0.05
MILE 48.30	793.70	7675.	0.61	12671.	1604.	4.92	0.0200	95.	25.	0.04
MILE 46.20	793.71	6225.	0.41	15283.	1796.	6.68	0.0200	83.	32.	0.02
MILE 44.10	793.72	4900.	0.18	27280.	1492.	7.99	0.0300	49.	39.	0.01
MILE 43.70	793.73	4685.	0.33	14155.	1350.	8.25	0.0300	42.	41.	0.02
MILE 42.00	793.74	3797.	0.21	18413.	1318.	6.16	0.0300	91.	44.	0.01
MILE 39.10	793.76	2558.	0.14	17881.	1341.	7.83	0.0230	99.	43.	0.01
MILE 37.00	793.75	2241.	0.07	31413.	1110.	7.21	0.0280	61.	42.	0.00
MILE 36.00	793.75	2195.	0.11	19506.	893.	8.32	0.0280	47.	45.	0.00
MILE 34.60	793.75	2120.	0.07	29734.	1216.	9.60	0.0280	47.	45.	0.00
MILE 33.60	793.75	1824.	0.03	61243.	2123.	8.06	0.0290	61.	51.	0.00
MILE 31.50	793.75	739.	0.02	30231.	1742.	10.34	0.0250	69.	55.	0.00
MILE 30.10	793.74	430.	0.01	31798.	875.	9.86	0.0200	49.	53.	0.00
MILE 29.00	793.74	275.	0.01	35492.	1045.	10.74	0.0200	55.	54.	0.00
MILE 27.30	793.74	-22.	0.00	36848.	1045.	11.13	0.0230	75.	57.	0.00
MILE 25.20	793.73	-448.	-0.01	45675.	1042.	11.96	0.0230	83.	59.	0.00
MILE 23.10	793.71	-770.	-0.02	37555.	1072.	11.38	0.0230	83.	64.	0.00

ODATE 3-20-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 5.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	827.83	10890.	4.81	2265.	361.	3.85	0.0290	82.	9.	0.34
MILE 77.70	823.84	10968.	3.40	3222.	393.	4.48	0.0400	82.	13.	0.21
MILE 75.60	818.24	11042.	3.51	3145.	352.	4.77	0.0400	82.	12.	0.21
MILE 73.50	813.73	11111.	3.65	3044.	283.	4.57	0.0330	82.	15.	0.20
MILE 71.40	811.23	11177.	2.91	3840.	326.	4.38	0.0400	82.	13.	0.15
MILE 69.30	807.25	11239.	3.32	3384.	375.	3.78	0.0340	82.	9.	0.19
MILE 67.20	802.39	11287.	3.00	3759.	464.	3.61	0.0340	82.	12.	0.19
MILE 65.10	798.21	11281.	3.09	3651.	500.	4.32	0.0320	82.	11.	0.20
MILE 63.00	796.81	11207.	2.52	4441.	443.	5.19	0.0400	82.	16.	0.14
MILE 60.90	795.13	11055.	2.22	4985.	372.	5.98	0.0450	82.	19.	0.11
MILE 58.80	794.16	8730.	1.50	5802.	356.	6.16	0.0400	-1924.	21.	0.07
MILE 57.00	794.09	8432.	1.32	6406.	397.	6.04	0.0200	74.	19.	0.06

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MILE	55.00	794.03	8079.	1.25	6487.	459.	6.51	0.0200	76.	21.	0.06
MILE	53.10	794.00	7700.	0.86	8920.	565.	5.99	0.0200	78.	21.	0.04
MILE	51.00	793.98	7157.	0.74	9625.	917.	6.11	0.0200	94.	25.	0.04
MILE	48.30	793.94	6456.	0.50	12934.	1617.	4.91	0.0200	94.	25.	0.03
MILE	46.20	793.92	5803.	0.38	15474.	1809.	6.72	0.0200	82.	32.	0.02
MILE	44.10	793.91	5066.	0.18	27506.	1502.	8.03	0.0300	49.	39.	0.01
MILE	43.70	793.91	4983.	0.35	14251.	1359.	8.24	0.0300	41.	41.	0.02
MILE	42.00	793.88	4907.	0.26	18582.	1325.	6.16	0.0300	90.	44.	0.01
MILE	39.10	793.80	5847.	0.33	17918.	1343.	7.84	0.0230	98.	43.	0.02
MILE	37.00	793.76	6462.	0.21	31430.	1110.	7.21	0.0280	61.	42.	0.01
MILE	36.00	793.74	6740.	0.35	19500.	893.	8.32	0.0280	47.	45.	0.01
MILE	34.60	793.71	7191.	0.24	29701.	1214.	9.59	0.0280	47.	45.	0.01
MILE	33.60	793.70	7642.	0.13	61123.	2120.	8.05	0.0290	61.	51.	0.00
MILE	31.50	793.68	8716.	0.29	30168.	1737.	10.33	0.0250	68.	55.	0.01
MILE	30.10	793.66	9327.	0.29	31713.	872.	9.84	0.0200	49.	53.	0.01
MILE	29.00	793.64	9741.	0.28	35399.	1041.	10.72	0.0200	55.	54.	0.01
MILE	27.30	793.62	10455.	0.28	36729.	1040.	11.12	0.0230	74.	57.	0.01
MILE	25.20	793.59	11118.	0.24	45528.	1037.	11.94	0.0230	82.	59.	0.01
MILE	23.10	793.57	11592.	0.31	37422.	1067.	11.36	0.0230	82.	64.	0.01

ODATE 3-20-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 6.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	827.78	10760.	4.79	2248.	360.	3.84	0.0290	81.	9.	0.34
MILE	77.70	823.80	10855.	3.39	3205.	391.	4.46	0.0400	81.	13.	0.21
MILE	75.60	818.22	10971.	3.50	3138.	352.	4.76	0.0400	81.	12.	0.21
MILE	73.50	813.73	11080.	3.64	3043.	283.	4.57	0.0330	81.	15.	0.20
MILE	71.40	811.23	11173.	2.91	3841.	326.	4.38	0.0400	81.	13.	0.15
MILE	69.30	807.26	11257.	3.32	3389.	375.	3.79	0.0340	81.	9.	0.19
MILE	67.20	802.42	11328.	3.00	3778.	465.	3.63	0.0340	81.	12.	0.19
MILE	65.10	798.31	11331.	3.07	3695.	504.	4.35	0.0320	81.	11.	0.20
MILE	63.00	796.97	11201.	2.49	4502.	451.	5.22	0.0400	81.	16.	0.14
MILE	60.90	795.37	11055.	2.18	5069.	382.	6.04	0.0450	81.	19.	0.11
MILE	58.80	794.40	9008.	1.53	5892.	359.	6.19	0.0400	-1925.	21.	0.07
MILE	57.00	794.31	9002.	1.38	6500.	400.	6.08	0.0200	73.	20.	0.06
MILE	55.00	794.21	9005.	1.37	6555.	462.	6.53	0.0200	75.	21.	0.06
MILE	53.10	794.13	9130.	1.01	8999.	567.	6.02	0.0200	77.	21.	0.04
MILE	51.00	794.04	9534.	0.99	9658.	919.	6.12	0.0200	93.	25.	0.05
MILE	48.30	793.92	10695.	0.83	12913.	1616.	4.91	0.0200	93.	25.	0.05
MILE	46.20	793.87	11399.	0.74	15423.	1806.	6.71	0.0200	81.	32.	0.04
MILE	44.10	793.83	12302.	0.45	27408.	1498.	8.01	0.0300	48.	39.	0.02
MILE	43.70	793.81	12433.	0.88	14201.	1354.	8.24	0.0300	41.	41.	0.05
MILE	42.00	793.75	12871.	0.70	18427.	1319.	6.16	0.0300	89.	44.	0.03
MILE	39.10	793.68	12884.	0.72	17817.	1338.	7.83	0.0230	97.	43.	0.03
MILE	37.00	793.68	12430.	0.40	31306.	1107.	7.19	0.0280	60.	42.	0.01
MILE	36.00	793.68	12222.	0.63	19449.	891.	8.31	0.0280	46.	45.	0.02

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MILE 34.60	793.67	11914.	0.40	29661.	1213.	9.59	0.0280	46.	45.	0.01
MILE 33.60	793.67	11650.	0.19	61046.	2117.	8.04	0.0290	60.	51.	0.01
MILE 31.50	793.67	11147.	0.37	30162.	1737.	10.33	0.0250	68.	55.	0.02
MILE 30.10	793.67	10836.	0.34	31725.	873.	9.85	0.0200	48.	53.	0.01
MILE 29.00	793.67	10591.	0.30	35428.	1042.	10.72	0.0200	54.	54.	0.01
MILE 27.30	793.68	10091.	0.27	36787.	1042.	11.13	0.0230	73.	57.	0.01
MILE 25.20	793.68	9601.	0.21	45623.	1041.	11.95	0.0230	81.	59.	0.01
MILE 23.10	793.70	9097.	0.24	37546.	1072.	11.38	0.0230	81.	64.	0.01

ODATE 3-20-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 7.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	827.79	10770.	4.79	2251.	360.	3.84	0.0290	81.	9.	0.34
MILE 77.70	823.79	10852.	3.39	3202.	391.	4.46	0.0400	81.	13.	0.21
MILE 75.60	818.19	10939.	3.50	3130.	351.	4.76	0.0400	81.	12.	0.21
MILE 73.50	813.71	11035.	3.64	3036.	283.	4.56	0.0330	81.	15.	0.20
MILE 71.40	811.22	11133.	2.90	3835.	326.	4.38	0.0400	81.	13.	0.15
MILE 69.30	807.26	11230.	3.32	3387.	375.	3.78	0.0340	81.	9.	0.19
MILE 67.20	802.44	11315.	2.99	3788.	466.	3.63	0.0340	81.	12.	0.18
MILE 65.10	798.39	11346.	3.04	3727.	508.	4.38	0.0320	81.	11.	0.20
MILE 63.00	797.04	11357.	2.51	4528.	455.	5.24	0.0400	81.	16.	0.14
MILE 60.90	795.33	11513.	2.28	5057.	381.	6.03	0.0450	81.	19.	0.11
MILE 58.80	794.21	9845.	1.69	5820.	356.	6.16	0.0400	-1925.	21.	0.07
MILE 57.00	794.10	10139.	1.58	6408.	398.	6.04	0.0200	73.	19.	0.07
MILE 55.00	793.98	10490.	1.62	6468.	458.	6.50	0.0200	75.	20.	0.08
MILE 53.10	793.92	10825.	1.22	8868.	563.	5.98	0.0200	77.	21.	0.05
MILE 51.00	793.87	11150.	1.17	9568.	913.	6.10	0.0200	93.	25.	0.06
MILE 48.30	793.83	11095.	0.87	12811.	1611.	4.92	0.0200	93.	25.	0.05
MILE 46.20	793.81	11137.	0.72	15375.	1802.	6.70	0.0200	81.	32.	0.04
MILE 44.10	793.83	11004.	0.40	27401.	1497.	8.01	0.0300	48.	39.	0.02
MILE 43.70	793.82	10975.	0.77	14204.	1355.	8.24	0.0300	41.	41.	0.04
MILE 42.00	793.81	10788.	0.58	18500.	1321.	6.16	0.0300	89.	44.	0.03
MILE 39.10	793.78	10864.	0.61	17899.	1342.	7.84	0.0230	97.	43.	0.03
MILE 37.00	793.75	11671.	0.37	31416.	1110.	7.21	0.0280	60.	42.	0.01
MILE 36.00	793.74	11920.	0.61	19499.	893.	8.32	0.0280	46.	45.	0.02
MILE 34.60	793.74	12145.	0.41	29723.	1215.	9.59	0.0280	46.	45.	0.01
MILE 33.60	793.73	12345.	0.20	61209.	2122.	8.06	0.0290	60.	51.	0.01
MILE 31.50	793.72	12787.	0.42	30206.	1740.	10.33	0.0250	68.	55.	0.02
MILE 30.10	793.72	12866.	0.40	31773.	874.	9.86	0.0200	48.	53.	0.01
MILE 29.00	793.71	13010.	0.37	35469.	1044.	10.73	0.0200	54.	54.	0.01
MILE 27.30	793.71	13413.	0.36	36816.	1043.	11.13	0.0230	73.	57.	0.01
MILE 25.20	793.69	13819.	0.30	45631.	1041.	11.95	0.0230	81.	59.	0.01
MILE 23.10	793.66	14164.	0.38	37508.	1070.	11.38	0.0230	81.	64.	0.01

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 216 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

ODATE 3-20-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 8.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	827.77	10720.	4.78	2244.	360.	3.83	0.0290	81.	9.	0.34
MILE 77.70	823.76	10808.	3.38	3195.	390.	4.45	0.0400	81.	13.	0.21
MILE 75.60	818.18	10906.	3.49	3124.	351.	4.75	0.0400	81.	12.	0.21
MILE 73.50	813.69	11003.	3.63	3030.	283.	4.56	0.0330	81.	14.	0.20
MILE 71.40	811.20	11093.	2.90	3828.	325.	4.37	0.0400	81.	13.	0.15
MILE 69.30	807.24	11177.	3.31	3378.	375.	3.78	0.0340	81.	9.	0.19
MILE 67.20	802.43	11260.	2.98	3781.	465.	3.63	0.0340	81.	12.	0.18
MILE 65.10	798.38	11357.	3.05	3721.	507.	4.37	0.0320	81.	11.	0.20
MILE 63.00	797.00	11486.	2.54	4513.	453.	5.23	0.0400	81.	16.	0.14
MILE 60.90	795.26	11587.	2.30	5030.	378.	6.01	0.0450	81.	19.	0.11
MILE 58.80	794.17	9581.	1.65	5804.	356.	6.16	0.0400	-1925.	21.	0.07
MILE 57.00	794.07	9563.	1.49	6398.	397.	6.03	0.0200	73.	19.	0.07
MILE 55.00	793.98	9542.	1.48	6468.	458.	6.50	0.0200	75.	20.	0.07
MILE 53.10	793.93	9516.	1.07	8878.	563.	5.98	0.0200	77.	21.	0.05
MILE 51.00	793.88	9538.	1.00	9577.	914.	6.10	0.0200	93.	25.	0.05
MILE 48.30	793.81	10120.	0.79	12793.	1610.	4.92	0.0200	93.	25.	0.05
MILE 46.20	793.78	10742.	0.70	15345.	1800.	6.69	0.0200	81.	32.	0.04
MILE 44.10	793.77	11211.	0.41	27330.	1494.	8.00	0.0300	48.	39.	0.02
MILE 43.70	793.75	11306.	0.80	14170.	1351.	8.25	0.0300	41.	41.	0.04
MILE 42.00	793.71	11830.	0.64	18381.	1317.	6.16	0.0300	89.	44.	0.03
MILE 39.10	793.63	13022.	0.73	17781.	1336.	7.82	0.0230	97.	43.	0.04
MILE 37.00	793.63	13253.	0.42	31221.	1105.	7.18	0.0280	60.	42.	0.01
MILE 36.00	793.62	13354.	0.69	19402.	889.	8.31	0.0280	46.	45.	0.03
MILE 34.60	793.61	13542.	0.46	29596.	1210.	9.58	0.0280	46.	45.	0.02
MILE 33.60	793.61	13787.	0.23	60865.	2112.	8.03	0.0290	60.	51.	0.01
MILE 31.50	793.60	14510.	0.48	30098.	1733.	10.32	0.0250	68.	55.	0.02
MILE 30.10	793.59	14906.	0.47	31644.	870.	9.83	0.0200	48.	53.	0.01
MILE 29.00	793.59	15104.	0.43	35345.	1039.	10.71	0.0200	54.	54.	0.01
MILE 27.30	793.59	15392.	0.42	36700.	1039.	11.11	0.0230	73.	56.	0.01
MILE 25.20	793.59	15857.	0.35	45524.	1037.	11.94	0.0230	81.	59.	0.01
MILE 23.10	793.60	16002.	0.43	37451.	1068.	11.37	0.0230	81.	64.	0.01

ODATE 3-20-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 9.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	827.74	10660.	4.76	2237.	359.	3.83	0.0290	81.	9.	0.34
MILE 77.70	823.73	10747.	3.38	3184.	389.	4.44	0.0400	81.	13.	0.21
MILE 75.60	818.15	10845.	3.48	3114.	350.	4.75	0.0400	81.	12.	0.21
MILE 73.50	813.66	10945.	3.62	3022.	282.	4.55	0.0330	81.	14.	0.19
MILE 71.40	811.18	11040.	2.89	3818.	325.	4.36	0.0400	81.	13.	0.15

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Appendix F		Checked	ACM

MILE 69.30	807.22	11134.	3.30	3370.	375.	3.77	0.0340	81.	9.	0.19
MILE 67.20	802.41	11233.	2.98	3773.	465.	3.62	0.0340	81.	12.	0.18
MILE 65.10	798.37	11334.	3.05	3717.	507.	4.37	0.0320	81.	11.	0.20
MILE 63.00	797.00	11419.	2.53	4514.	453.	5.23	0.0400	81.	16.	0.14
MILE 60.90	795.27	11528.	2.29	5036.	378.	6.02	0.0450	81.	19.	0.11
MILE 58.80	794.16	9735.	1.68	5801.	356.	6.16	0.0400	-1924.	21.	0.07
MILE 57.00	794.05	9916.	1.55	6388.	397.	6.03	0.0200	74.	19.	0.07
MILE 55.00	793.93	10117.	1.57	6451.	457.	6.49	0.0200	76.	20.	0.07
MILE 53.10	793.86	10357.	1.17	8835.	562.	5.97	0.0200	78.	21.	0.05
MILE 51.00	793.79	10752.	1.13	9529.	911.	6.08	0.0200	93.	24.	0.06
MILE 48.30	793.71	11401.	0.90	12681.	1604.	4.92	0.0200	93.	25.	0.06
MILE 46.20	793.68	11682.	0.77	15259.	1794.	6.68	0.0200	81.	32.	0.05
MILE 44.10	793.67	12274.	0.45	27215.	1489.	7.98	0.0300	48.	38.	0.02
MILE 43.70	793.66	12364.	0.88	14120.	1347.	8.26	0.0300	41.	41.	0.05
MILE 42.00	793.62	12665.	0.69	18270.	1313.	6.16	0.0300	89.	44.	0.03
MILE 39.10	793.56	12998.	0.73	17722.	1332.	7.82	0.0230	97.	43.	0.04
MILE 37.00	793.54	13757.	0.44	31076.	1102.	7.16	0.0280	60.	42.	0.01
MILE 36.00	793.52	14051.	0.73	19327.	886.	8.30	0.0280	47.	45.	0.03
MILE 34.60	793.51	14441.	0.49	29501.	1206.	9.56	0.0280	47.	45.	0.02
MILE 33.60	793.51	14811.	0.24	60607.	2105.	8.01	0.0290	60.	51.	0.01
MILE 31.50	793.50	15676.	0.52	30005.	1726.	10.30	0.0250	68.	55.	0.02
MILE 30.10	793.49	16095.	0.51	31532.	867.	9.81	0.0200	48.	53.	0.01
MILE 29.00	793.48	16384.	0.46	35236.	1035.	10.69	0.0200	54.	54.	0.01
MILE 27.30	793.48	16861.	0.46	36590.	1035.	11.10	0.0230	74.	56.	0.01
MILE 25.20	793.47	17191.	0.38	45390.	1033.	11.92	0.0230	81.	59.	0.01
MILE 23.10	793.45	17780.	0.48	37309.	1063.	11.34	0.0230	81.	63.	0.01

ODATE 3-20-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 10.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
 DEPTH FROUDE

MILE 79.80	827.75	10660.	4.76	2240.	360.	3.83	0.0290	82.	9.	0.34
MILE 77.70	823.72	10738.	3.38	3181.	389.	4.44	0.0400	82.	13.	0.21
MILE 75.60	818.12	10818.	3.48	3107.	349.	4.74	0.0400	82.	12.	0.21
MILE 73.50	813.64	10906.	3.62	3014.	281.	4.55	0.0330	82.	14.	0.19
MILE 71.40	811.16	10998.	2.89	3809.	325.	4.36	0.0400	82.	13.	0.15
MILE 69.30	807.20	11093.	3.30	3362.	375.	3.77	0.0340	82.	9.	0.19
MILE 67.20	802.40	11190.	2.97	3764.	464.	3.62	0.0340	82.	12.	0.18
MILE 65.10	798.34	11301.	3.05	3707.	506.	4.36	0.0320	82.	11.	0.20
MILE 63.00	796.96	11446.	2.54	4498.	451.	5.22	0.0400	82.	16.	0.14
MILE 60.90	795.18	11624.	2.32	5005.	375.	5.99	0.0450	82.	19.	0.11
MILE 58.80	794.04	9799.	1.70	5755.	354.	6.14	0.0400	-1924.	21.	0.07
MILE 57.00	793.93	9935.	1.57	6336.	395.	6.00	0.0200	74.	19.	0.07
MILE 55.00	793.82	10118.	1.58	6407.	456.	6.48	0.0200	76.	20.	0.07
MILE 53.10	793.76	10331.	1.18	8770.	560.	5.95	0.0200	78.	20.	0.05
MILE 51.00	793.69	10634.	1.12	9481.	908.	6.07	0.0200	93.	24.	0.06
MILE 48.30	793.62	11293.	0.90	12582.	1599.	4.92	0.0200	93.	25.	0.06

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MILE	46.20	793.57	12359.	0.82	15162.	1787.	6.66	0.0200	82.	32.	0.05
MILE	44.10	793.56	13044.	0.48	27085.	1484.	7.97	0.0300	49.	38.	0.02
MILE	43.70	793.55	13156.	0.94	14062.	1342.	8.27	0.0300	41.	41.	0.05
MILE	42.00	793.50	13619.	0.75	18131.	1307.	6.16	0.0300	90.	44.	0.04
MILE	39.10	793.43	14281.	0.81	17617.	1326.	7.80	0.0230	97.	42.	0.04
MILE	37.00	793.44	14154.	0.46	30906.	1098.	7.13	0.0280	60.	42.	0.02
MILE	36.00	793.43	14149.	0.73	19251.	883.	8.29	0.0280	47.	44.	0.03
MILE	34.60	793.43	14180.	0.48	29422.	1202.	9.55	0.0280	47.	45.	0.02
MILE	33.60	793.43	14160.	0.23	60410.	2100.	8.00	0.0290	60.	51.	0.01
MILE	31.50	793.44	14055.	0.47	29950.	1723.	10.29	0.0250	68.	55.	0.02
MILE	30.10	793.44	14161.	0.45	31480.	866.	9.80	0.0200	49.	53.	0.01
MILE	29.00	793.44	14160.	0.40	35195.	1034.	10.69	0.0200	54.	54.	0.01
MILE	27.30	793.45	14032.	0.38	36563.	1034.	11.09	0.0230	74.	56.	0.01
MILE	25.20	793.46	14060.	0.31	45383.	1033.	11.92	0.0230	82.	59.	0.01
MILE	23.10	793.47	14061.	0.38	37328.	1063.	11.35	0.0230	82.	63.	0.01

ODATE 3-20-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 11.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	827.79	10720.	4.76	2250.	360.	3.84	0.0290	82.	9.	0.34
MILE	77.70	823.75	10791.	3.38	3189.	390.	4.45	0.0400	82.	13.	0.21
MILE	75.60	818.13	10848.	3.49	3109.	349.	4.74	0.0400	82.	12.	0.21
MILE	73.50	813.63	10910.	3.62	3012.	281.	4.55	0.0330	82.	14.	0.20
MILE	71.40	811.15	10983.	2.89	3804.	325.	4.35	0.0400	82.	13.	0.15
MILE	69.30	807.19	11063.	3.30	3355.	375.	3.76	0.0340	82.	8.	0.19
MILE	67.20	802.38	11153.	2.97	3752.	464.	3.61	0.0340	82.	12.	0.18
MILE	65.10	798.30	11270.	3.05	3690.	504.	4.35	0.0320	82.	11.	0.20
MILE	63.00	796.91	11421.	2.55	4477.	448.	5.21	0.0400	82.	16.	0.14
MILE	60.90	795.11	11598.	2.33	4979.	372.	5.98	0.0450	82.	19.	0.11
MILE	58.80	793.93	9833.	1.72	5717.	353.	6.13	0.0400	-1924.	21.	0.08
MILE	57.00	793.82	10059.	1.60	6288.	394.	5.98	0.0200	74.	19.	0.07
MILE	55.00	793.69	10309.	1.62	6362.	454.	6.46	0.0200	76.	20.	0.08
MILE	53.10	793.63	10527.	1.21	8695.	557.	5.92	0.0200	78.	20.	0.05
MILE	51.00	793.57	10776.	1.14	9419.	904.	6.05	0.0200	93.	24.	0.06
MILE	48.30	793.52	11049.	0.89	12474.	1594.	4.93	0.0200	93.	25.	0.06
MILE	46.20	793.50	11021.	0.73	15103.	1783.	6.65	0.0200	82.	32.	0.04
MILE	44.10	793.51	11184.	0.41	27021.	1481.	7.96	0.0300	49.	38.	0.02
MILE	43.70	793.50	11205.	0.80	14038.	1339.	8.27	0.0300	41.	40.	0.04
MILE	42.00	793.49	11208.	0.62	18111.	1306.	6.16	0.0300	89.	43.	0.03
MILE	39.10	793.47	10819.	0.61	17652.	1328.	7.81	0.0230	97.	42.	0.03
MILE	37.00	793.49	10712.	0.35	30990.	1100.	7.15	0.0280	60.	42.	0.01
MILE	36.00	793.49	10697.	0.55	19297.	885.	8.29	0.0280	47.	44.	0.02
MILE	34.60	793.49	10662.	0.36	29480.	1205.	9.56	0.0280	47.	45.	0.01
MILE	33.60	793.49	10537.	0.17	60566.	2104.	8.01	0.0290	60.	51.	0.01
MILE	31.50	793.50	10062.	0.34	30009.	1727.	10.30	0.0250	68.	55.	0.01
MILE	30.10	793.51	9855.	0.31	31554.	868.	9.82	0.0200	49.	53.	0.01

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Appendix F		Checked	ACM

MILE	29.00	793.51	9787.	0.28	35268.	1036.	10.70	0.0200	54.	54.	0.01
MILE	27.30	793.52	9696.	0.26	36633.	1037.	11.10	0.0230	74.	56.	0.01
MILE	25.20	793.52	9448.	0.21	45453.	1035.	11.93	0.0230	82.	59.	0.01
MILE	23.10	793.53	9443.	0.25	37385.	1066.	11.36	0.0230	82.	64.	0.01

ODATE 3-20-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 12.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	827.79	10720.	4.76	2252.	360.	3.84	0.0290	82.	9.	0.34
MILE	77.70	823.76	10796.	3.38	3192.	390.	4.45	0.0400	82.	13.	0.21
MILE	75.60	818.14	10866.	3.49	3113.	350.	4.75	0.0400	82.	12.	0.21
MILE	73.50	813.64	10932.	3.63	3015.	282.	4.55	0.0330	82.	14.	0.20
MILE	71.40	811.15	11001.	2.89	3806.	325.	4.36	0.0400	82.	13.	0.15
MILE	69.30	807.19	11071.	3.30	3355.	375.	3.76	0.0340	82.	8.	0.19
MILE	67.20	802.36	11146.	2.98	3745.	463.	3.61	0.0340	82.	12.	0.18
MILE	65.10	798.26	11253.	3.06	3673.	502.	4.34	0.0320	82.	11.	0.20
MILE	63.00	796.85	11411.	2.56	4455.	445.	5.20	0.0400	82.	16.	0.14
MILE	60.90	795.03	11558.	2.33	4953.	368.	5.96	0.0450	82.	19.	0.11
MILE	58.80	793.88	9632.	1.69	5698.	352.	6.12	0.0400	-1924.	21.	0.07
MILE	57.00	793.78	9654.	1.54	6273.	393.	5.97	0.0200	74.	19.	0.07
MILE	55.00	793.68	9669.	1.52	6358.	453.	6.46	0.0200	76.	20.	0.07
MILE	53.10	793.64	9660.	1.11	8699.	558.	5.92	0.0200	78.	20.	0.05
MILE	51.00	793.60	9572.	1.01	9433.	905.	6.06	0.0200	93.	24.	0.06
MILE	48.30	793.57	9207.	0.73	12529.	1597.	4.93	0.0200	93.	25.	0.05
MILE	46.20	793.56	8925.	0.59	15151.	1787.	6.66	0.0200	82.	32.	0.04
MILE	44.10	793.57	8504.	0.31	27090.	1484.	7.97	0.0300	49.	38.	0.01
MILE	43.70	793.56	8450.	0.60	14070.	1342.	8.26	0.0300	41.	41.	0.03
MILE	42.00	793.55	8323.	0.46	18189.	1309.	6.16	0.0300	89.	44.	0.02
MILE	39.10	793.53	8454.	0.48	17696.	1331.	7.81	0.0230	97.	43.	0.02
MILE	37.00	793.52	8583.	0.28	31042.	1101.	7.15	0.0280	60.	42.	0.01
MILE	36.00	793.52	8627.	0.45	19321.	886.	8.30	0.0280	47.	45.	0.02
MILE	34.60	793.52	8682.	0.29	29507.	1206.	9.57	0.0280	47.	45.	0.01
MILE	33.60	793.52	8762.	0.14	60628.	2106.	8.01	0.0290	60.	51.	0.00
MILE	31.50	793.51	9039.	0.30	30015.	1727.	10.30	0.0250	68.	55.	0.01
MILE	30.10	793.51	9201.	0.29	31555.	868.	9.82	0.0200	49.	53.	0.01
MILE	29.00	793.51	9303.	0.26	35263.	1036.	10.70	0.0200	54.	54.	0.01
MILE	27.30	793.51	9488.	0.26	36620.	1036.	11.10	0.0230	74.	56.	0.01
MILE	25.20	793.50	9800.	0.22	45429.	1034.	11.93	0.0230	82.	59.	0.01
MILE	23.10	793.50	9898.	0.26	37356.	1064.	11.35	0.0230	82.	64.	0.01

ODATE 3-20-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TVA

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

TIME 13.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	827.77	10660.	4.75	2246.	360.	3.84	0.0290	82.	9.	0.33
MILE 77.70	823.74	10745.	3.37	3185.	390.	4.44	0.0400	82.	13.	0.21
MILE 75.60	818.13	10837.	3.48	3111.	350.	4.74	0.0400	82.	12.	0.21
MILE 73.50	813.64	10926.	3.62	3015.	282.	4.55	0.0330	82.	14.	0.20
MILE 71.40	811.15	11009.	2.89	3808.	325.	4.36	0.0400	82.	13.	0.15
MILE 69.30	807.19	11089.	3.30	3357.	375.	3.76	0.0340	82.	8.	0.19
MILE 67.20	802.36	11169.	2.98	3745.	463.	3.61	0.0340	82.	12.	0.18
MILE 65.10	798.24	11259.	3.07	3666.	501.	4.33	0.0320	82.	11.	0.20
MILE 63.00	796.84	11346.	2.55	4452.	445.	5.19	0.0400	82.	16.	0.14
MILE 60.90	795.08	11384.	2.29	4967.	370.	5.97	0.0450	82.	19.	0.11
MILE 58.80	793.99	9351.	1.63	5737.	354.	6.13	0.0400	-1924.	21.	0.07
MILE 57.00	793.89	9312.	1.47	6320.	395.	5.99	0.0200	74.	19.	0.06
MILE 55.00	793.80	9259.	1.45	6400.	455.	6.48	0.0200	76.	20.	0.07
MILE 53.10	793.75	9211.	1.05	8764.	560.	5.95	0.0200	78.	20.	0.05
MILE 51.00	793.69	9172.	0.97	9480.	908.	6.07	0.0200	93.	24.	0.05
MILE 48.30	793.63	9237.	0.73	12595.	1600.	4.92	0.0200	93.	25.	0.05
MILE 46.20	793.60	9137.	0.60	15193.	1789.	6.66	0.0200	82.	32.	0.04
MILE 44.10	793.59	9176.	0.34	27124.	1485.	7.97	0.0300	49.	38.	0.01
MILE 43.70	793.59	9177.	0.65	14083.	1344.	8.26	0.0300	41.	41.	0.04
MILE 42.00	793.56	9123.	0.50	18203.	1310.	6.16	0.0300	89.	44.	0.02
MILE 39.10	793.55	8503.	0.48	17715.	1332.	7.81	0.0230	97.	43.	0.02
MILE 37.00	793.57	7810.	0.25	31124.	1103.	7.16	0.0280	60.	42.	0.01
MILE 36.00	793.57	7530.	0.39	19367.	888.	8.30	0.0280	47.	45.	0.01
MILE 34.60	793.58	7135.	0.24	29569.	1209.	9.57	0.0280	47.	45.	0.01
MILE 33.60	793.58	6760.	0.11	60806.	2111.	8.03	0.0290	60.	51.	0.00
MILE 31.50	793.59	5899.	0.20	30091.	1732.	10.31	0.0250	68.	55.	0.01
MILE 30.10	793.60	5364.	0.17	31653.	871.	9.83	0.0200	49.	53.	0.00
MILE 29.00	793.61	5059.	0.14	35363.	1040.	10.71	0.0200	54.	54.	0.00
MILE 27.30	793.62	4579.	0.12	36729.	1040.	11.12	0.0230	74.	57.	0.00
MILE 25.20	793.63	4088.	0.09	45567.	1039.	11.95	0.0230	82.	59.	0.00
MILE 23.10	793.65	3664.	0.10	37498.	1070.	11.37	0.0230	82.	64.	0.00

ODATE 3-20-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 14.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	827.80	10720.	4.75	2255.	360.	3.84	0.0290	82.	9.	0.33
MILE 77.70	823.75	10794.	3.38	3192.	390.	4.45	0.0400	82.	13.	0.21
MILE 75.60	818.14	10858.	3.49	3112.	350.	4.74	0.0400	82.	12.	0.21
MILE 73.50	813.64	10929.	3.63	3015.	282.	4.55	0.0330	82.	14.	0.20
MILE 71.40	811.15	11009.	2.89	3807.	325.	4.36	0.0400	82.	13.	0.15
MILE 69.30	807.20	11095.	3.30	3359.	375.	3.77	0.0340	82.	8.	0.19
MILE 67.20	802.37	11183.	2.98	3749.	464.	3.61	0.0340	82.	12.	0.18
MILE 65.10	798.26	11259.	3.07	3672.	502.	4.34	0.0320	82.	11.	0.20

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
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MILE 63.00	796.87	11310.	2.53	4462.	446.	5.20	0.0400	82.	16.	0.14
MILE 60.90	795.12	11368.	2.28	4983.	372.	5.98	0.0450	82.	19.	0.11
MILE 58.80	794.02	9459.	1.65	5750.	354.	6.14	0.0400	-1924.	21.	0.07
MILE 57.00	793.92	9532.	1.51	6333.	395.	6.00	0.0200	74.	19.	0.07
MILE 55.00	793.82	9593.	1.50	6409.	456.	6.48	0.0200	76.	20.	0.07
MILE 53.10	793.77	9601.	1.09	8782.	560.	5.95	0.0200	78.	20.	0.05
MILE 51.00	793.74	9450.	0.99	9503.	909.	6.08	0.0200	93.	24.	0.05
MILE 48.30	793.72	8562.	0.67	12696.	1605.	4.92	0.0200	93.	25.	0.04
MILE 46.20	793.72	7650.	0.50	15297.	1797.	6.68	0.0200	82.	32.	0.03
MILE 44.10	793.74	6724.	0.25	27294.	1493.	8.00	0.0300	49.	39.	0.01
MILE 43.70	793.74	6580.	0.46	14160.	1351.	8.25	0.0300	41.	41.	0.03
MILE 42.00	793.74	6017.	0.33	18414.	1318.	6.16	0.0300	89.	44.	0.02
MILE 39.10	793.73	5518.	0.31	17864.	1340.	7.83	0.0230	97.	43.	0.01
MILE 37.00	793.72	5759.	0.18	31365.	1109.	7.20	0.0280	60.	42.	0.01
MILE 36.00	793.71	5846.	0.30	19479.	892.	8.31	0.0280	47.	45.	0.01
MILE 34.60	793.71	5906.	0.20	29698.	1214.	9.59	0.0280	47.	45.	0.01
MILE 33.60	793.71	5911.	0.10	61139.	2120.	8.05	0.0290	60.	51.	0.00
MILE 31.50	793.70	5875.	0.19	30188.	1739.	10.33	0.0250	68.	55.	0.01
MILE 30.10	793.70	5923.	0.19	31750.	874.	9.85	0.0200	49.	53.	0.01
MILE 29.00	793.69	5995.	0.17	35446.	1043.	10.73	0.0200	54.	54.	0.01
MILE 27.30	793.68	6162.	0.17	36794.	1043.	11.13	0.0230	74.	57.	0.00
MILE 25.20	793.67	6362.	0.14	45612.	1040.	11.95	0.0230	82.	59.	0.00
MILE 23.10	793.65	6496.	0.17	37498.	1070.	11.37	0.0230	82.	64.	0.01

ODATE 3-20-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 15.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	827.99	11160.	4.83	2312.	363.	3.90	0.0290	82.	9.	0.34
MILE 77.70	823.93	11188.	3.44	3253.	396.	4.50	0.0400	82.	13.	0.21
MILE 75.60	818.25	11128.	3.54	3146.	352.	4.77	0.0400	82.	12.	0.21
MILE 73.50	813.69	11080.	3.66	3031.	283.	4.56	0.0330	82.	14.	0.20
MILE 71.40	811.18	11089.	2.90	3818.	325.	4.36	0.0400	82.	13.	0.15
MILE 69.30	807.21	11129.	3.31	3364.	375.	3.77	0.0340	82.	9.	0.19
MILE 67.20	802.38	11192.	2.98	3751.	464.	3.61	0.0340	82.	12.	0.18
MILE 65.10	798.27	11263.	3.06	3677.	502.	4.34	0.0320	82.	11.	0.20
MILE 63.00	796.87	11316.	2.53	4470.	447.	5.20	0.0400	82.	16.	0.14
MILE 60.90	795.18	11289.	2.26	5004.	375.	5.99	0.0450	82.	19.	0.11
MILE 58.80	794.16	9112.	1.57	5803.	356.	6.16	0.0400	-1924.	21.	0.07
MILE 57.00	794.08	8941.	1.40	6402.	397.	6.04	0.0200	74.	19.	0.06
MILE 55.00	794.00	8739.	1.35	6477.	458.	6.50	0.0200	76.	21.	0.06
MILE 53.10	793.96	8536.	0.96	8897.	564.	5.99	0.0200	78.	21.	0.04
MILE 51.00	793.92	8297.	0.86	9597.	915.	6.10	0.0200	93.	25.	0.05
MILE 48.30	793.86	8282.	0.64	12845.	1613.	4.92	0.0200	93.	25.	0.04
MILE 46.20	793.83	8241.	0.54	15391.	1803.	6.70	0.0200	82.	32.	0.03
MILE 44.10	793.81	8187.	0.30	27386.	1497.	8.01	0.0300	49.	39.	0.01
MILE 43.70	793.81	8192.	0.58	14196.	1354.	8.25	0.0300	41.	41.	0.03

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MILE 42.00	793.77	8303.	0.45	18450.	1320.	6.16	0.0300	89.	44.	0.02
MILE 39.10	793.72	8634.	0.48	17850.	1339.	7.83	0.0230	97.	43.	0.02
MILE 37.00	793.71	8377.	0.27	31351.	1109.	7.20	0.0280	60.	42.	0.01
MILE 36.00	793.70	8305.	0.43	19471.	892.	8.31	0.0280	47.	45.	0.02
MILE 34.60	793.70	8270.	0.28	29684.	1213.	9.59	0.0280	47.	45.	0.01
MILE 33.60	793.69	8253.	0.14	61099.	2119.	8.05	0.0290	60.	51.	0.00
MILE 31.50	793.69	8259.	0.27	30177.	1738.	10.33	0.0250	68.	55.	0.01
MILE 30.10	793.68	8302.	0.26	31735.	873.	9.85	0.0200	49.	53.	0.01
MILE 29.00	793.68	8311.	0.23	35431.	1042.	10.73	0.0200	54.	54.	0.01
MILE 27.30	793.67	8277.	0.23	36784.	1042.	11.13	0.0230	74.	57.	0.01
MILE 25.20	793.68	8255.	0.18	45617.	1040.	11.95	0.0230	82.	59.	0.00
MILE 23.10	793.68	8199.	0.22	37527.	1071.	11.38	0.0230	82.	64.	0.01

ODATE 3-20-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 16.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	827.80	10720.	4.75	2255.	360.	3.84	0.0290	82.	9.	0.33
MILE 77.70	823.82	10843.	3.38	3212.	392.	4.47	0.0400	82.	13.	0.21
MILE 75.60	818.26	11025.	3.50	3151.	353.	4.77	0.0400	82.	12.	0.21
MILE 73.50	813.75	11161.	3.66	3051.	284.	4.57	0.0330	82.	15.	0.20
MILE 71.40	811.25	11241.	2.92	3847.	326.	4.38	0.0400	82.	13.	0.15
MILE 69.30	807.26	11287.	3.33	3389.	375.	3.79	0.0340	82.	9.	0.20
MILE 67.20	802.41	11309.	3.00	3773.	465.	3.62	0.0340	82.	12.	0.19
MILE 65.10	798.32	11306.	3.06	3697.	505.	4.36	0.0320	82.	11.	0.20
MILE 63.00	796.96	11270.	2.50	4499.	451.	5.22	0.0400	82.	16.	0.14
MILE 60.90	795.30	11267.	2.23	5044.	379.	6.02	0.0450	82.	19.	0.11
MILE 58.80	794.25	9378.	1.61	5836.	357.	6.17	0.0400	-1924.	21.	0.07
MILE 57.00	794.15	9490.	1.48	6432.	398.	6.05	0.0200	74.	19.	0.06
MILE 55.00	794.05	9605.	1.48	6494.	459.	6.51	0.0200	76.	21.	0.07
MILE 53.10	793.98	9739.	1.09	8909.	564.	5.99	0.0200	78.	21.	0.05
MILE 51.00	793.92	9922.	1.03	9597.	915.	6.10	0.0200	93.	25.	0.06
MILE 48.30	793.86	10003.	0.78	12847.	1613.	4.92	0.0200	93.	25.	0.05
MILE 46.20	793.84	9860.	0.64	15397.	1804.	6.70	0.0200	82.	32.	0.04
MILE 44.10	793.83	9916.	0.36	27405.	1498.	8.01	0.0300	49.	39.	0.01
MILE 43.70	793.82	9916.	0.70	14204.	1355.	8.24	0.0300	41.	41.	0.04
MILE 42.00	793.80	9835.	0.53	18483.	1321.	6.16	0.0300	89.	44.	0.03
MILE 39.10	793.76	9549.	0.53	17888.	1342.	7.83	0.0230	97.	43.	0.03
MILE 37.00	793.76	9706.	0.31	31423.	1110.	7.21	0.0280	60.	42.	0.01
MILE 36.00	793.75	9790.	0.50	19505.	893.	8.32	0.0280	47.	45.	0.02
MILE 34.60	793.74	9886.	0.33	29726.	1215.	9.59	0.0280	47.	45.	0.01
MILE 33.60	793.74	9894.	0.16	61214.	2122.	8.06	0.0290	60.	51.	0.01
MILE 31.50	793.73	9776.	0.32	30217.	1741.	10.33	0.0250	68.	55.	0.01
MILE 30.10	793.73	9776.	0.31	31783.	875.	9.86	0.0200	49.	53.	0.01
MILE 29.00	793.72	9794.	0.28	35478.	1044.	10.73	0.0200	54.	54.	0.01
MILE 27.30	793.72	9799.	0.27	36828.	1044.	11.13	0.0230	74.	57.	0.01
MILE 25.20	793.71	9724.	0.21	45655.	1042.	11.96	0.0230	82.	59.	0.01

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Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
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MILE 23.10 793.70 9788. 0.26 37546. 1072. 11.38 0.0230 82. 64. 0.01

0DATE 3-20-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 17.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	827.77	10660.	4.75	2244.	360.	3.83	0.0290	82.	9.	0.34
MILE 77.70	823.76	10764.	3.37	3192.	390.	4.45	0.0400	82.	13.	0.21
MILE 75.60	818.19	10899.	3.48	3128.	351.	4.76	0.0400	82.	12.	0.21
MILE 73.50	813.72	11044.	3.63	3040.	283.	4.57	0.0330	82.	15.	0.20
MILE 71.40	811.24	11172.	2.91	3842.	326.	4.38	0.0400	82.	13.	0.15
MILE 69.30	807.28	11286.	3.32	3396.	376.	3.79	0.0340	82.	9.	0.19
MILE 67.20	802.45	11372.	3.00	3796.	466.	3.64	0.0340	82.	12.	0.19
MILE 65.10	798.37	11399.	3.06	3720.	507.	4.37	0.0320	82.	11.	0.20
MILE 63.00	797.00	11416.	2.53	4513.	453.	5.23	0.0400	82.	16.	0.14
MILE 60.90	795.29	11469.	2.28	5041.	379.	6.02	0.0450	82.	19.	0.11
MILE 58.80	794.21	9521.	1.64	5822.	356.	6.16	0.0400	-1924.	21.	0.07
MILE 57.00	794.12	9571.	1.49	6417.	398.	6.04	0.0200	74.	19.	0.07
MILE 55.00	794.02	9642.	1.49	6483.	459.	6.51	0.0200	76.	21.	0.07
MILE 53.10	793.97	9705.	1.09	8899.	564.	5.99	0.0200	78.	21.	0.05
MILE 51.00	793.92	9745.	1.02	9597.	915.	6.10	0.0200	93.	25.	0.06
MILE 48.30	793.87	9828.	0.76	12858.	1613.	4.91	0.0200	93.	25.	0.05
MILE 46.20	793.84	10168.	0.66	15400.	1804.	6.70	0.0200	82.	32.	0.04
MILE 44.10	793.84	10236.	0.37	27415.	1498.	8.01	0.0300	49.	39.	0.02
MILE 43.70	793.83	10253.	0.72	14209.	1355.	8.24	0.0300	41.	41.	0.04
MILE 42.00	793.80	10377.	0.56	18490.	1321.	6.16	0.0300	89.	44.	0.03
MILE 39.10	793.75	10812.	0.60	17878.	1341.	7.83	0.0230	97.	43.	0.03
MILE 37.00	793.74	10858.	0.35	31403.	1110.	7.20	0.0280	60.	42.	0.01
MILE 36.00	793.74	10882.	0.56	19497.	893.	8.32	0.0280	47.	45.	0.02
MILE 34.60	793.73	10921.	0.37	29723.	1215.	9.59	0.0280	47.	45.	0.01
MILE 33.60	793.74	10952.	0.18	61211.	2122.	8.06	0.0290	60.	51.	0.01
MILE 31.50	793.73	11039.	0.37	30213.	1740.	10.33	0.0250	68.	55.	0.02
MILE 30.10	793.72	11142.	0.35	31781.	874.	9.86	0.0200	49.	53.	0.01
MILE 29.00	793.72	11197.	0.32	35478.	1044.	10.73	0.0200	54.	54.	0.01
MILE 27.30	793.72	11254.	0.31	36832.	1044.	11.13	0.0230	74.	57.	0.01
MILE 25.20	793.72	11340.	0.25	45668.	1042.	11.96	0.0230	82.	59.	0.01
MILE 23.10	793.72	11347.	0.30	37565.	1073.	11.38	0.0230	82.	64.	0.01

0DATE 3-20-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 18.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80 827.78 10720. 4.77 2249. 360. 3.84 0.0290 82. 9. 0.34

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 224 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 77.70	823.76	10803.	3.38	3194.	390.	4.45	0.0400	82.	13.	0.21
MILE 75.60	818.16	10887.	3.49	3120.	350.	4.75	0.0400	82.	12.	0.21
MILE 73.50	813.68	10982.	3.63	3028.	282.	4.56	0.0330	82.	14.	0.20
MILE 71.40	811.20	11085.	2.90	3826.	325.	4.37	0.0400	82.	13.	0.15
MILE 69.30	807.25	11193.	3.31	3381.	375.	3.78	0.0340	82.	9.	0.19
MILE 67.20	802.44	11304.	2.98	3790.	466.	3.63	0.0340	82.	12.	0.18
MILE 65.10	798.40	11401.	3.06	3728.	508.	4.38	0.0320	82.	11.	0.20
MILE 63.00	797.03	11461.	2.53	4524.	454.	5.23	0.0400	82.	16.	0.14
MILE 60.90	795.31	11514.	2.28	5050.	380.	6.02	0.0450	82.	19.	0.11
MILE 58.80	794.23	9602.	1.65	5827.	357.	6.16	0.0400	-1924.	21.	0.07
MILE 57.00	794.13	9698.	1.51	6420.	398.	6.04	0.0200	74.	19.	0.07
MILE 55.00	794.02	9793.	1.51	6484.	459.	6.51	0.0200	76.	21.	0.07
MILE 53.10	793.96	9882.	1.11	8895.	564.	5.99	0.0200	78.	21.	0.05
MILE 51.00	793.90	10014.	1.04	9588.	915.	6.10	0.0200	93.	25.	0.06
MILE 48.30	793.84	10276.	0.80	12828.	1612.	4.92	0.0200	93.	25.	0.05
MILE 46.20	793.82	10280.	0.67	15384.	1803.	6.70	0.0200	82.	32.	0.04
MILE 44.10	793.82	10490.	0.38	27389.	1497.	8.01	0.0300	49.	39.	0.02
MILE 43.70	793.81	10529.	0.74	14197.	1354.	8.25	0.0300	41.	41.	0.04
MILE 42.00	793.78	10701.	0.58	18458.	1320.	6.16	0.0300	89.	44.	0.03
MILE 39.10	793.72	11152.	0.62	17855.	1340.	7.83	0.0230	97.	43.	0.03
MILE 37.00	793.71	11818.	0.38	31342.	1108.	7.20	0.0280	60.	42.	0.01
MILE 36.00	793.69	12067.	0.62	19460.	891.	8.31	0.0280	47.	45.	0.02
MILE 34.60	793.68	12404.	0.42	29665.	1213.	9.59	0.0280	47.	45.	0.01
MILE 33.60	793.67	12758.	0.21	61044.	2117.	8.04	0.0290	60.	51.	0.01
MILE 31.50	793.66	13620.	0.45	30152.	1736.	10.32	0.0250	68.	55.	0.02
MILE 30.10	793.65	13910.	0.44	31705.	872.	9.84	0.0200	49.	53.	0.01
MILE 29.00	793.65	14145.	0.40	35402.	1041.	10.72	0.0200	54.	54.	0.01
MILE 27.30	793.64	14646.	0.40	36748.	1041.	11.12	0.0230	74.	57.	0.01
MILE 25.20	793.62	15190.	0.33	45557.	1038.	11.95	0.0230	82.	59.	0.01
MILE 23.10	793.61	15602.	0.42	37460.	1069.	11.37	0.0230	82.	64.	0.01

ODATE 3-20-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 19.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	827.78	10720.	4.77	2249.	360.	3.84	0.0290	82.	9.	0.34
MILE 77.70	823.76	10802.	3.38	3193.	390.	4.45	0.0400	82.	13.	0.21
MILE 75.60	818.16	10884.	3.49	3118.	350.	4.75	0.0400	82.	12.	0.21
MILE 73.50	813.67	10968.	3.63	3023.	282.	4.55	0.0330	82.	14.	0.20
MILE 71.40	811.18	11055.	2.89	3819.	325.	4.36	0.0400	82.	13.	0.15
MILE 69.30	807.23	11145.	3.31	3372.	375.	3.77	0.0340	82.	9.	0.19
MILE 67.20	802.42	11243.	2.98	3778.	465.	3.63	0.0340	82.	12.	0.18
MILE 65.10	798.39	11351.	3.05	3725.	508.	4.37	0.0320	82.	11.	0.20
MILE 63.00	797.03	11455.	2.53	4522.	454.	5.23	0.0400	82.	16.	0.14
MILE 60.90	795.30	11562.	2.29	5045.	379.	6.02	0.0450	82.	19.	0.11
MILE 58.80	794.20	9664.	1.66	5817.	356.	6.16	0.0400	-1924.	21.	0.07
MILE 57.00	794.10	9740.	1.52	6410.	398.	6.04	0.0200	74.	19.	0.07

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 225 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE	55.00	794.00	9844.	1.52	6474.	458.	6.50	0.0200	76.	20.	0.07
MILE	53.10	793.93	9991.	1.13	8879.	563.	5.98	0.0200	78.	21.	0.05
MILE	51.00	793.87	10251.	1.07	9571.	914.	6.10	0.0200	93.	25.	0.06
MILE	48.30	793.79	10905.	0.85	12771.	1609.	4.92	0.0200	93.	25.	0.05
MILE	46.20	793.75	11684.	0.76	15318.	1798.	6.69	0.0200	82.	32.	0.05
MILE	44.10	793.73	12289.	0.45	27292.	1493.	8.00	0.0300	49.	39.	0.02
MILE	43.70	793.72	12382.	0.87	14153.	1350.	8.25	0.0300	41.	41.	0.05
MILE	42.00	793.68	12718.	0.69	18343.	1315.	6.16	0.0300	89.	44.	0.03
MILE	39.10	793.64	12717.	0.72	17783.	1336.	7.82	0.0230	97.	43.	0.03
MILE	37.00	793.66	12008.	0.38	31265.	1106.	7.18	0.0280	60.	42.	0.01
MILE	36.00	793.66	11724.	0.60	19436.	890.	8.31	0.0280	47.	45.	0.02
MILE	34.60	793.67	11324.	0.38	29660.	1212.	9.59	0.0280	47.	45.	0.01
MILE	33.60	793.68	10935.	0.18	61057.	2118.	8.04	0.0290	60.	51.	0.01
MILE	31.50	793.69	10090.	0.33	30176.	1738.	10.33	0.0250	68.	55.	0.01
MILE	30.10	793.70	9750.	0.31	31752.	874.	9.85	0.0200	49.	53.	0.01
MILE	29.00	793.71	9474.	0.27	35460.	1043.	10.73	0.0200	54.	54.	0.01
MILE	27.30	793.72	8879.	0.24	36830.	1044.	11.13	0.0230	74.	57.	0.01
MILE	25.20	793.74	8291.	0.18	45692.	1043.	11.96	0.0230	82.	59.	0.00
MILE	23.10	793.77	7788.	0.21	37612.	1074.	11.39	0.0230	82.	64.	0.01

ODATE 3-20-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 20.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	827.81	10780.	4.77	2258.	360.	3.85	0.0290	82.	9.	0.34
MILE	77.70	823.78	10853.	3.39	3201.	391.	4.46	0.0400	82.	13.	0.21
MILE	75.60	818.17	10914.	3.50	3121.	350.	4.75	0.0400	82.	12.	0.21
MILE	73.50	813.67	10978.	3.63	3023.	282.	4.55	0.0330	82.	14.	0.20
MILE	71.40	811.18	11051.	2.90	3817.	325.	4.36	0.0400	82.	13.	0.15
MILE	69.30	807.22	11130.	3.30	3368.	375.	3.77	0.0340	82.	9.	0.19
MILE	67.20	802.41	11216.	2.98	3770.	465.	3.62	0.0340	82.	12.	0.18
MILE	65.10	798.37	11316.	3.04	3717.	507.	4.37	0.0320	82.	11.	0.20
MILE	63.00	797.00	11436.	2.53	4512.	453.	5.23	0.0400	82.	16.	0.14
MILE	60.90	795.25	11594.	2.31	5027.	377.	6.01	0.0450	82.	19.	0.11
MILE	58.80	794.11	9822.	1.70	5783.	355.	6.15	0.0400	-1924.	21.	0.07
MILE	57.00	794.00	10029.	1.58	6366.	396.	6.02	0.0200	74.	19.	0.07
MILE	55.00	793.89	10251.	1.59	6433.	457.	6.49	0.0200	76.	20.	0.07
MILE	53.10	793.83	10416.	1.18	8816.	561.	5.96	0.0200	78.	21.	0.05
MILE	51.00	793.79	10488.	1.10	9529.	911.	6.08	0.0200	93.	24.	0.06
MILE	48.30	793.77	9998.	0.78	12746.	1608.	4.92	0.0200	93.	25.	0.05
MILE	46.20	793.77	9243.	0.60	15342.	1800.	6.69	0.0200	82.	32.	0.04
MILE	44.10	793.80	8596.	0.31	27364.	1496.	8.01	0.0300	49.	39.	0.01
MILE	43.70	793.79	8485.	0.60	14190.	1353.	8.25	0.0300	41.	41.	0.03
MILE	42.00	793.81	7955.	0.43	18492.	1321.	6.16	0.0300	89.	44.	0.02
MILE	39.10	793.82	7204.	0.40	17933.	1344.	7.84	0.0230	97.	43.	0.02
MILE	37.00	793.82	7409.	0.24	31519.	1113.	7.22	0.0280	60.	43.	0.01
MILE	36.00	793.81	7513.	0.38	19558.	895.	8.32	0.0280	47.	45.	0.01

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Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 226 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE 34.60	793.82	7602.	0.26	29803.	1219.	9.60	0.0280	47.	45.	0.01
MILE 33.60	793.82	7551.	0.12	61433.	2128.	8.07	0.0290	60.	51.	0.00
MILE 31.50	793.82	7174.	0.24	30295.	1746.	10.35	0.0250	68.	55.	0.01
MILE 30.10	793.82	7049.	0.22	31880.	877.	9.87	0.0200	49.	53.	0.01
MILE 29.00	793.82	7047.	0.20	35575.	1048.	10.75	0.0200	54.	54.	0.01
MILE 27.30	793.82	7118.	0.19	36931.	1048.	11.15	0.0230	74.	57.	0.01
MILE 25.20	793.82	7140.	0.16	45771.	1045.	11.97	0.0230	82.	59.	0.00
MILE 23.10	793.80	7307.	0.19	37641.	1076.	11.40	0.0230	82.	64.	0.01

ODATE 3-20-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 21.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	827.76	10660.	4.75	2243.	360.	3.83	0.0290	82.	9.	0.34
MILE 77.70	823.74	10752.	3.37	3187.	390.	4.45	0.0400	82.	13.	0.21
MILE 75.60	818.16	10864.	3.49	3117.	350.	4.75	0.0400	82.	12.	0.21
MILE 73.50	813.67	10967.	3.63	3023.	282.	4.55	0.0330	82.	14.	0.20
MILE 71.40	811.18	11055.	2.90	3818.	325.	4.36	0.0400	82.	13.	0.15
MILE 69.30	807.22	11135.	3.31	3368.	375.	3.77	0.0340	82.	9.	0.19
MILE 67.20	802.40	11213.	2.98	3766.	465.	3.62	0.0340	82.	12.	0.18
MILE 65.10	798.34	11312.	3.05	3705.	506.	4.36	0.0320	82.	11.	0.20
MILE 63.00	796.96	11439.	2.54	4498.	451.	5.22	0.0400	82.	16.	0.14
MILE 60.90	795.23	11497.	2.29	5020.	376.	6.00	0.0450	82.	19.	0.11
MILE 58.80	794.18	9370.	1.61	5807.	356.	6.16	0.0400	-1924.	21.	0.07
MILE 57.00	794.10	9201.	1.44	6408.	398.	6.04	0.0200	74.	19.	0.06
MILE 55.00	794.02	8985.	1.39	6484.	459.	6.51	0.0200	76.	21.	0.06
MILE 53.10	793.99	8747.	0.98	8913.	564.	5.99	0.0200	78.	21.	0.04
MILE 51.00	793.96	8410.	0.87	9615.	916.	6.11	0.0200	93.	25.	0.05
MILE 48.30	793.92	8102.	0.63	12908.	1616.	4.91	0.0200	93.	25.	0.04
MILE 46.20	793.90	7881.	0.51	15450.	1808.	6.71	0.0200	82.	32.	0.03
MILE 44.10	793.89	7486.	0.27	27478.	1501.	8.02	0.0300	49.	39.	0.01
MILE 43.70	793.88	7447.	0.52	14238.	1358.	8.24	0.0300	41.	41.	0.03
MILE 42.00	793.86	7457.	0.40	18562.	1324.	6.16	0.0300	89.	44.	0.02
MILE 39.10	793.82	7788.	0.43	17936.	1344.	7.84	0.0230	97.	43.	0.02
MILE 37.00	793.83	7389.	0.23	31537.	1113.	7.22	0.0280	60.	43.	0.01
MILE 36.00	793.82	7282.	0.37	19566.	896.	8.32	0.0280	47.	45.	0.01
MILE 34.60	793.82	7222.	0.24	29806.	1219.	9.61	0.0280	47.	45.	0.01
MILE 33.60	793.82	7180.	0.12	61432.	2128.	8.07	0.0290	60.	51.	0.00
MILE 31.50	793.82	7137.	0.24	30293.	1746.	10.35	0.0250	68.	55.	0.01
MILE 30.10	793.82	7257.	0.23	31876.	877.	9.87	0.0200	49.	53.	0.01
MILE 29.00	793.81	7299.	0.21	35568.	1047.	10.75	0.0200	54.	54.	0.01
MILE 27.30	793.81	7283.	0.20	36919.	1047.	11.15	0.0230	74.	57.	0.01
MILE 25.20	793.82	7285.	0.16	45773.	1045.	11.97	0.0230	82.	59.	0.00
MILE 23.10	793.83	7164.	0.19	37669.	1077.	11.40	0.0230	82.	64.	0.01

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 227 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

ODATE 3-20-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 22.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	827.82	10780.	4.77	2259.	360.	3.85	0.0290	82.	9.	0.34
MILE 77.70	823.78	10848.	3.39	3200.	391.	4.46	0.0400	82.	13.	0.21
MILE 75.60	818.16	10898.	3.50	3118.	350.	4.75	0.0400	82.	12.	0.21
MILE 73.50	813.66	10958.	3.63	3020.	282.	4.55	0.0330	82.	14.	0.20
MILE 71.40	811.17	11035.	2.89	3814.	325.	4.36	0.0400	82.	13.	0.15
MILE 69.30	807.21	11123.	3.30	3366.	375.	3.77	0.0340	82.	9.	0.19
MILE 67.20	802.40	11220.	2.98	3766.	465.	3.62	0.0340	82.	12.	0.18
MILE 65.10	798.35	11303.	3.05	3711.	506.	4.36	0.0320	82.	11.	0.20
MILE 63.00	797.01	11320.	2.51	4517.	453.	5.23	0.0400	82.	16.	0.14
MILE 60.90	795.36	11308.	2.23	5065.	382.	6.03	0.0450	82.	19.	0.11
MILE 58.80	794.34	9341.	1.59	5867.	358.	6.18	0.0400	-1924.	21.	0.07
MILE 57.00	794.24	9375.	1.45	6470.	400.	6.07	0.0200	74.	19.	0.06
MILE 55.00	794.14	9390.	1.44	6530.	461.	6.52	0.0200	76.	21.	0.07
MILE 53.10	794.09	9420.	1.05	8971.	566.	6.01	0.0200	78.	21.	0.05
MILE 51.00	794.03	9470.	0.98	9651.	918.	6.12	0.0200	93.	25.	0.05
MILE 48.30	793.97	9343.	0.72	12970.	1619.	4.91	0.0200	93.	25.	0.04
MILE 46.20	793.95	8841.	0.57	15501.	1811.	6.72	0.0200	82.	32.	0.03
MILE 44.10	793.95	8726.	0.32	27545.	1504.	8.03	0.0300	49.	39.	0.01
MILE 43.70	793.94	8695.	0.61	14266.	1360.	8.24	0.0300	41.	41.	0.03
MILE 42.00	793.92	8464.	0.45	18632.	1326.	6.16	0.0300	89.	44.	0.02
MILE 39.10	793.91	7763.	0.43	18004.	1348.	7.85	0.0230	97.	43.	0.02
MILE 37.00	793.90	7822.	0.25	31651.	1116.	7.24	0.0280	60.	43.	0.01
MILE 36.00	793.89	7829.	0.40	19621.	898.	8.33	0.0280	47.	45.	0.02
MILE 34.60	793.89	7782.	0.26	29875.	1222.	9.61	0.0280	47.	45.	0.01
MILE 33.60	793.89	7692.	0.12	61617.	2133.	8.09	0.0290	60.	51.	0.00
MILE 31.50	793.88	7429.	0.24	30351.	1750.	10.35	0.0250	68.	55.	0.01
MILE 30.10	793.88	7263.	0.23	31942.	879.	9.88	0.0200	49.	53.	0.01
MILE 29.00	793.88	7202.	0.20	35632.	1050.	10.76	0.0200	54.	54.	0.01
MILE 27.30	793.88	7130.	0.19	36983.	1050.	11.16	0.0230	74.	57.	0.01
MILE 25.20	793.87	6993.	0.15	45827.	1047.	11.98	0.0230	82.	59.	0.00
MILE 23.10	793.86	6994.	0.19	37697.	1078.	11.41	0.0230	82.	64.	0.01

ODATE 3-20-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 23.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE 79.80	827.82	10780.	4.77	2260.	360.	3.85	0.0290	82.	9.	0.34
MILE 77.70	823.79	10858.	3.39	3204.	391.	4.46	0.0400	82.	13.	0.21
MILE 75.60	818.18	10931.	3.50	3125.	351.	4.75	0.0400	82.	12.	0.21
MILE 73.50	813.67	11002.	3.64	3026.	282.	4.56	0.0330	82.	14.	0.20
MILE 71.40	811.18	11075.	2.90	3819.	325.	4.36	0.0400	82.	13.	0.15

TVA

Calculation No. CDQ000020080038	Rev: 0	Plant: GEN	Page: 228 of 240
Subject: SOCH Model Calibration, Melton Hill		Prepped	JAW
Appendix F		Checked	ACM

MILE	69.30	807.22	11149.	3.31	3370.	375.	3.77	0.0340	82.	9.	0.19
MILE	67.20	802.41	11223.	2.98	3769.	465.	3.62	0.0340	82.	12.	0.18
MILE	65.10	798.38	11288.	3.03	3721.	507.	4.37	0.0320	82.	11.	0.20
MILE	63.00	797.04	11340.	2.50	4527.	455.	5.24	0.0400	82.	16.	0.14
MILE	60.90	795.38	11396.	2.25	5072.	383.	6.04	0.0450	82.	19.	0.11
MILE	58.80	794.35	9421.	1.60	5871.	358.	6.18	0.0400	-1924.	21.	0.07
MILE	57.00	794.26	9432.	1.46	6477.	400.	6.07	0.0200	74.	19.	0.06
MILE	55.00	794.17	9455.	1.45	6539.	461.	6.53	0.0200	76.	21.	0.07
MILE	53.10	794.12	9458.	1.05	8993.	567.	6.02	0.0200	78.	21.	0.05
MILE	51.00	794.08	9378.	0.97	9679.	920.	6.12	0.0200	93.	25.	0.05
MILE	48.30	794.04	9128.	0.70	13048.	1623.	4.91	0.0200	93.	25.	0.04
MILE	46.20	794.01	9262.	0.60	15553.	1815.	6.73	0.0200	82.	32.	0.04
MILE	44.10	794.01	8999.	0.33	27622.	1507.	8.04	0.0300	49.	39.	0.01
MILE	43.70	794.00	8968.	0.63	14301.	1363.	8.23	0.0300	41.	41.	0.03
MILE	42.00	793.99	8923.	0.48	18710.	1329.	6.16	0.0300	89.	44.	0.02
MILE	39.10	793.94	9171.	0.51	18032.	1350.	7.85	0.0230	97.	43.	0.02
MILE	37.00	793.93	9067.	0.29	31708.	1117.	7.25	0.0280	60.	43.	0.01
MILE	36.00	793.93	9019.	0.46	19649.	899.	8.33	0.0280	47.	45.	0.02
MILE	34.60	793.92	8960.	0.30	29910.	1223.	9.62	0.0280	47.	45.	0.01
MILE	33.60	793.92	8928.	0.14	61713.	2136.	8.09	0.0290	60.	51.	0.00
MILE	31.50	793.92	8914.	0.29	30382.	1752.	10.36	0.0250	68.	55.	0.01
MILE	30.10	793.91	8888.	0.28	31978.	880.	9.89	0.0200	49.	53.	0.01
MILE	29.00	793.91	8882.	0.25	35666.	1051.	10.76	0.0200	54.	54.	0.01
MILE	27.30	793.91	8902.	0.24	37012.	1051.	11.16	0.0230	74.	57.	0.01
MILE	25.20	793.90	9026.	0.20	45865.	1049.	11.99	0.0230	82.	59.	0.01
MILE	23.10	793.90	8954.	0.24	37735.	1079.	11.41	0.0230	82.	64.	0.01

0DATE 3-21-73 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

TIME 0.0000 ELEVATION DISCHARGE VELOCITY AREA WIDTH R(2/3) MANN N LOCAL INFLOW
DEPTH FROUDE

MILE	79.80	827.82	10780.	4.77	2259.	360.	3.85	0.0290	82.	9.	0.34
MILE	77.70	823.79	10863.	3.39	3205.	391.	4.46	0.0400	82.	13.	0.21
MILE	75.60	818.19	10946.	3.50	3128.	351.	4.76	0.0400	82.	12.	0.21
MILE	73.50	813.69	11025.	3.64	3030.	283.	4.56	0.0330	82.	14.	0.20
MILE	71.40	811.20	11102.	2.90	3825.	325.	4.37	0.0400	82.	13.	0.15
MILE	69.30	807.23	11176.	3.31	3375.	375.	3.78	0.0340	82.	9.	0.19
MILE	67.20	802.42	11245.	2.98	3775.	465.	3.62	0.0340	82.	12.	0.18
MILE	65.10	798.39	11304.	3.03	3728.	508.	4.38	0.0320	82.	11.	0.20
MILE	63.00	797.06	11342.	2.50	4537.	456.	5.24	0.0400	82.	16.	0.14
MILE	60.90	795.42	11365.	2.23	5088.	384.	6.05	0.0450	82.	19.	0.11
MILE	58.80	794.40	9409.	1.60	5893.	359.	6.19	0.0400	-1924.	21.	0.07
MILE	57.00	794.31	9470.	1.46	6499.	400.	6.08	0.0200	74.	20.	0.06
MILE	55.00	794.21	9519.	1.45	6555.	462.	6.53	0.0200	76.	21.	0.07
MILE	53.10	794.16	9550.	1.06	9015.	568.	6.02	0.0200	78.	21.	0.05
MILE	51.00	794.11	9599.	0.99	9692.	921.	6.13	0.0200	93.	25.	0.05
MILE	48.30	794.05	9749.	0.75	13060.	1623.	4.91	0.0200	93.	25.	0.05

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MILE	46.20	794.03	9573.	0.61	15571.	1816.	6.74	0.0200	82.	32.	0.04
MILE	44.10	794.03	9698.	0.35	27639.	1508.	8.04	0.0300	49.	39.	0.01
MILE	43.70	794.02	9718.	0.68	14307.	1364.	8.23	0.0300	41.	41.	0.04
MILE	42.00	793.99	9768.	0.52	18719.	1330.	6.16	0.0300	89.	44.	0.02
MILE	39.10	793.96	9639.	0.53	18049.	1351.	7.85	0.0230	97.	43.	0.03
MILE	37.00	793.96	9706.	0.31	31755.	1118.	7.25	0.0280	60.	43.	0.01
MILE	36.00	793.95	9724.	0.49	19671.	900.	8.34	0.0280	47.	45.	0.02
MILE	34.60	793.95	9720.	0.32	29934.	1224.	9.62	0.0280	47.	45.	0.01
MILE	33.60	793.95	9697.	0.16	61777.	2137.	8.10	0.0290	60.	51.	0.01
MILE	31.50	793.95	9626.	0.32	30409.	1754.	10.36	0.0250	68.	55.	0.01
MILE	30.10	793.94	9557.	0.30	32010.	881.	9.90	0.0200	49.	53.	0.01
MILE	29.00	793.94	9535.	0.27	35697.	1052.	10.77	0.0200	54.	54.	0.01
MILE	27.30	793.94	9514.	0.26	37047.	1052.	11.16	0.0230	74.	57.	0.01
MILE	25.20	793.94	9459.	0.21	45905.	1050.	11.99	0.0230	82.	59.	0.01
MILE	23.10	793.94	9423.	0.25	37773.	1081.	11.42	0.0230	82.	64.	0.01

ELEVATION 0.000000D+00 BELOW GEOMETRY RANGE, TABLE 61

1 Mar 1973 Flood - Melton Hill - Local Inflow Hydrographs

THE COMPUTATION STARTED ON 3-10-73 AT TIME 0.00 AND TERMINATED ON 3-21-73 AT TIME 0.00

THE MAXIMUM ELEVATIONS, DISCHARGES, VELOCITIES ARE:

	EL(FT)	DAY	TIME	Q(CFS)	DAY	TIME	V(FPS)	DAY	TIME
MILE	79.80	827.99	20 14.77	11160.	20 14.01		8.47	19 19.01	
MILE	77.70	823.94	20 15.08	11188.	20 15.01		3.55	19 20.69	
MILE	75.60	818.29	20 15.48	11167.	20 15.25		3.64	19 21.40	
MILE	73.50	813.75	20 15.92	11186.	20 15.63		3.67	20 15.48	
MILE	71.40	811.25	20 16.27	11241.	20 16.03		2.92	20 15.85	
MILE	69.30	807.28	20 16.66	11313.	20 16.45		3.33	20 16.23	
MILE	67.20	803.37	16 19.32	11375.	20 16.82		3.04	20 1.12	
MILE	65.10	801.04	16 19.97	12314.	16 18.63		3.17	20 1.34	
MILE	63.00	800.14	16 20.19	13629.	16 19.89		2.56	20 11.96	
MILE	60.90	798.80	16 20.38	14989.	16 19.91		2.39	16 21.66	
MILE	58.80	797.69	16 20.31	14441.	16 21.14		2.04	16 23.27	
MILE	57.00	797.54	16 20.24	15712.	16 21.42		2.02	16 23.17	
MILE	55.00	797.36	16 20.12	17216.	16 22.89		2.25	16 23.06	
MILE	53.10	797.25	16 19.99	18731.	16 22.86		1.75	16 23.01	
MILE	51.00	797.12	16 19.85	20558.	16 22.79		1.79	16 22.93	
MILE	48.30	796.99	16 19.66	23415.	16 22.66		1.44	16 22.74	
MILE	46.20	796.92	16 19.47	26030.	16 22.48		1.45	16 22.51	
MILE	44.10	796.89	16 19.31	28454.	16 22.29		0.92	16 22.32	
MILE	43.70	796.85	16 19.26	28876.	16 22.28		1.83	16 22.30	
MILE	42.00	796.76	16 19.11	30538.	16 22.20		1.39	16 22.24	
MILE	39.10	796.59	16 18.90	33525.	16 21.96		1.68	16 21.97	
MILE	37.00	796.56	16 18.76	35476.	16 21.78		1.00	16 21.80	
MILE	36.00	796.51	16 18.71	36431.	16 21.72		1.70	16 21.74	

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MILE	34.60	796.48	16	18.63	37766.	16	21.65	1.18	16	21.66
MILE	33.60	796.48	16	18.61	38882.	16	21.59	0.58	16	21.60
MILE	31.50	796.44	16	18.50	41546.	16	21.47	1.28	16	21.48
MILE	30.10	796.41	16	18.36	42973.	16	21.39	1.25	16	21.40
MILE	29.00	796.40	16	18.33	43930.	16	21.37	1.16	16	21.37
MILE	27.30	796.38	16	18.24	45422.	16	21.28	1.16	16	21.29
MILE	25.20	796.36	16	18.16	47222.	16	21.15	0.98	16	21.15
MILE	23.10	796.33	16	18.00	49047.	16	21.14	1.23	16	21.15

31 LOCATIONS LISTED
 I DISCHARGES AT DOWNSTREAM END OF CHANNEL 1; RM = 23.10

DATE TIME DISCHARGE

3-10-73	0.0	533.
	1.0	539.
	2.0	542.
	3.0	108.
	4.0	-837.
	5.0	-524.
	6.0	-198.
	7.0	952.
	8.0	1846.
	9.0	2083.
	10.0	1152.
	11.0	248.
	12.0	-405.
	13.0	-458.
	14.0	191.
	15.0	1052.
	16.0	1608.
	17.0	1362.
	18.0	712.
	19.0	-69.
	20.0	-446.
	21.0	-202.
	22.0	488.
	23.0	1179.
	24.0	1427.
3-11-73	1.0	1102.
	2.0	442.
	3.0	-135.
	4.0	-276.
	5.0	97.
	6.0	724.
	7.0	1216.
	8.0	1256.
	9.0	839.

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10.0	257.
11.0	-133.
12.0	-92.
13.0	336.
14.0	876.
15.0	1181.
16.0	1064.
17.0	622.
18.0	144.
19.0	-73.
20.0	93.
21.0	530.
22.0	956.
23.0	1099.
24.0	880.
3-12-73 1.0	455.
2.0	95.
3.0	22.
4.0	268.
5.0	675.
6.0	979.
7.0	990.
8.0	714.
9.0	338.
10.0	96.
11.0	136.
12.0	422.
13.0	771.
14.0	957.
15.0	870.
16.0	576.
17.0	266.
18.0	134.
19.0	256.
20.0	547.
21.0	821.
22.0	904.
23.0	751.
24.0	468.
3-13-73 1.0	235.
2.0	198.
3.0	370.
4.0	640.
5.0	835.
6.0	832.
7.0	642.
8.0	391.
9.0	238.
10.0	274.
11.0	471.
12.0	701.

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13.0		818.
14.0		752.
15.0		551.
16.0		345.
17.0		265.
18.0		354.
19.0		553.
20.0		734.
21.0		782.
22.0		672.
23.0		479.
24.0		327.
3-14-73	1.0	311.
2.0		441.
3.0		-926.
4.0		-799.
5.0		-601.
6.0		20.
7.0		652.
8.0		429.
9.0		389.
10.0		-342.
11.0		-376.
12.0		-189.
13.0		878.
14.0		243.
15.0		-129.
16.0		-1788.
17.0		-40.
18.0		11627.
19.0		9518.
20.0		8218.
21.0		576.
22.0		-5489.
23.0		-3472.
24.0		-2467.
3-15-73	1.0	5111.
2.0		3493.
3.0		2480.
4.0		1846.
5.0		-5697.
6.0		-3209.
7.0		-4840.
8.0		7411.
9.0		10212.
10.0		10655.
11.0		12660.
12.0		8640.
13.0		-1479.
14.0		3304.
15.0		937.

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16.0	3102.
17.0	7006.
18.0	13894.
19.0	10522.
20.0	793.
21.0	807.
22.0	-2403.
23.0	1625.
24.0	14504.
3-16-73	1.0 20837.
2.0	19198.
3.0	15941.
4.0	23455.
5.0	23100.
6.0	27730.
7.0	24719.
8.0	22431.
9.0	25763.
10.0	25768.
11.0	26913.
12.0	28389.
13.0	27737.
14.0	24120.
15.0	18928.
16.0	18607.
17.0	28260.
18.0	31574.
19.0	38711.
20.0	41715.
21.0	48779.
22.0	47113.
23.0	47373.
24.0	45391.
3-17-73	1.0 44574.
2.0	44591.
3.0	33260.
4.0	36389.
5.0	34904.
6.0	32584.
7.0	33863.
8.0	31422.
9.0	33674.
10.0	26584.
11.0	16088.
12.0	24230.
13.0	26906.
14.0	20087.
15.0	23801.
16.0	18891.
17.0	12879.
18.0	8947.

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	19.0	8741.
	20.0	8560.
	21.0	10491.
	22.0	12108.
	23.0	12728.
	24.0	1617.
3-18-73	1.0	-1651.
	2.0	-3542.
	3.0	-6209.
	4.0	-194.
	5.0	4243.
	6.0	10733.
	7.0	14263.
	8.0	9746.
	9.0	5426.
	10.0	5612.
	11.0	7962.
	12.0	12334.
	13.0	13396.
	14.0	11530.
	15.0	10238.
	16.0	8027.
	17.0	8072.
	18.0	8969.
	19.0	9276.
	20.0	21091.
	21.0	22973.
	22.0	9323.
	23.0	13451.
	24.0	-2652.
3-19-73	1.0	-2335.
	2.0	-2046.
	3.0	-3660.
	4.0	-878.
	5.0	14497.
	6.0	14004.
	7.0	21664.
	8.0	20029.
	9.0	13631.
	10.0	3695.
	11.0	-5118.
	12.0	-5888.
	13.0	684.
	14.0	10075.
	15.0	10596.
	16.0	4160.
	17.0	123.
	18.0	-7561.
	19.0	-7283.
	20.0	-6171.
	21.0	324.

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816.87 816.88 816.88 816.88 816.88 816.88 816.87 816.87 816.87 816.88
 816.88 816.88 816.88 816.87 816.87 816.87 816.88 816.88 816.88 816.88
 816.88 816.88 816.88 816.88 816.88 816.88 816.88 817.99 817.49 816.94
 816.82 816.85 816.90 816.92 816.91 816.89 816.88 816.88 816.88 816.89
 816.91 816.92 816.91 816.89 816.88 816.90 816.95 817.06 817.23 817.33
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 817.38 817.44 817.54 817.66 817.78 817.89 817.98 818.08 818.19 818.33
 818.53 818.68 818.78 818.82 818.81 818.79 818.77 818.83 818.99 819.16
 819.31 819.37 819.33 819.26 819.18 819.09 819.02 818.93 818.84 818.75
 818.65 818.56 818.46 818.37 818.28 818.20 818.14 818.07 818.01 817.95
 817.88 817.82 817.75 817.70 817.66 817.62 817.58 817.55 817.51 817.48
 817.46 817.44 817.41 817.38 817.35 817.33 817.31 817.29 817.27 817.25
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 817.11 817.11 817.10 817.10 817.09 817.08 817.08 817.07 817.06 817.06
 817.06 817.06 817.06 817.05 817.04 817.03 817.02 817.02 817.01 817.00
 817.00 817.01 817.02 817.02 817.01 816.99 820.14 822.86 823.48 823.71
 823.78 823.81 823.81 823.82 823.84 823.84 823.80 823.79 823.76 823.73
 823.72 823.75 823.76 823.74 823.75 823.93 823.82 823.76 823.76 823.76
 823.78 823.74 823.78 823.79 823.79

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 2619. 2579. 2540. 2510. 2487. 2463. 2439. 2419. 2400. 2379.
 2366. 2355. 2341. 2323. 2306. 2290. 2277. 2270. 2260. 2244.
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 2163. 2163. 2160. 2155. 2151. 2147. 2144. 2139. 2133. 2134.
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 10738. 10791. 10796. 10745. 10794. 11188. 10843. 10764. 10803. 10802.
 10853. 10752. 10848. 10858. 10863.

CRM 58.8

265 265

794.00 793.95 793.96 793.98 793.99 794.01 794.06 794.05 794.02 793.98
 793.96 793.95 793.98 794.02 794.04 794.04 794.01 793.98 793.96 793.97
 794.00 794.02 794.04 794.03 794.00 793.97 793.97 793.98 794.01 794.03

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794.03 794.01 793.99 793.97 793.97 793.99 794.01 794.03 794.02 794.01
793.98 793.97 793.98 794.00 794.02 794.02 794.02 794.00 793.98 793.98
793.99 794.00 794.02 794.02 794.01 793.99 793.98 793.98 793.99 794.01
794.02 794.01 794.00 793.99 793.98 793.99 794.00 794.01 794.02 794.01
794.00 793.99 793.99 793.99 794.00 794.01 794.01 794.01 793.99 793.99
793.99 794.00 794.01 794.01 794.01 794.00 793.99 793.99 793.99 794.00
794.01 794.01 794.01 794.00 793.99 793.99 794.00 794.00 794.01 794.01
794.00 794.07 794.11 794.10 794.06 794.05 794.09 794.12 794.14 794.14
794.15 794.13 794.14 794.19 794.28 794.26 793.77 793.55 793.65 793.94
794.22 794.13 793.94 793.74 793.78 793.98 793.99 794.25 794.40 794.51
794.26 794.05 794.11 794.04 794.09 794.51 794.51 794.44 794.54 794.47
794.30 794.31 794.83 795.10 795.27 795.39 795.25 795.18 795.28 795.52
795.59 795.67 795.78 795.89 796.08 796.16 796.23 796.33 796.46 796.64
796.91 797.26 797.57 797.67 797.68 797.65 797.53 797.35 797.12 796.91
796.67 796.44 796.18 796.03 795.88 795.65 795.49 795.28 795.08 794.85
794.69 794.80 794.65 794.34 794.26 794.12 794.00 794.10 794.22 794.25
794.22 794.17 794.09 794.03 794.37 794.76 794.82 795.00 794.96 794.87
794.73 794.55 794.58 794.78 794.76 794.57 794.35 794.20 794.19 794.17
794.13 794.06 793.94 793.85 793.42 793.00 793.16 793.17 793.46 793.75
793.55 793.68 793.73 793.27 792.94 792.69 792.37 792.38 792.69 793.11
793.17 792.85 792.45 792.35 792.68 792.96 793.15 793.24 793.24 793.26
793.28 793.45 793.62 793.91 793.98 794.16 794.40 794.21 794.17 794.16
794.04 793.93 793.88 793.99 794.02 794.16 794.25 794.21 794.23 794.20
794.11 794.18 794.34 794.35 794.40
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199. 272. 287. 257. 186. 126. 111. 153. 223. 271.
269. 230. 166. 126. 131. 179. 238. 266. 251. 207.
154. 132. 151. 200. 245. 256. 233. 188. 149. 142.
170. 216. 246. 245. 216. 176. 150. 155. 187. 225.
243. 232. 201. 168. 154. 168. 201. 230. 237. 220.
190. 165. 161. 181. 211. 230. 229. 208. 182. 165.
170. 192. 217. 228. 220. 199. 177. 169. 181. 207.
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CRM 23.1 (Above Melton Hill)

265 265
794.00 794.00 794.00 794.00 794.00 794.00 794.00 794.00 794.00 794.00
794.00 794.00 794.00 794.00 794.00 794.00 794.00 794.00 794.00 794.00
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794.00 794.00 794.00 794.00 794.00 794.00 794.00 794.00 794.00 794.00
794.05 794.05 794.05 794.06 794.09 794.10 794.10 794.10 794.11 794.11
794.14 794.16 794.21 794.19 793.90 793.90 793.90 793.99 794.01 793.87
793.88 793.84 793.97 794.00 793.91 794.01 794.01 794.15 794.03 794.05
794.14 794.08 794.08 794.27 794.19 794.26 794.33 794.38 794.25 794.30
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794.73 794.87 795.00 795.04 795.13 795.20 795.25 795.34 795.55 795.87
796.15 796.20 796.33 796.30 796.26 796.01 795.90 795.71 795.58 795.40
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794.30 794.10 794.14 793.97 793.95 793.98 794.05 794.03 794.04 794.04
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792.55 792.65 792.80 792.79 792.85 792.87 793.00 793.04 793.05 793.09
793.13 793.26 793.27 793.54 793.71 793.57 793.70 793.66 793.60 793.45
793.47 793.53 793.50 793.65 793.65 793.68 793.70 793.72 793.61 793.77
793.80 793.83 793.86 793.90 793.94
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