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SOUTHERN COMPANY
Energy to Serve Your World℠

SEP 11 2008

Docket Nos.: 52-025
52-026

AR-08-1347

U.S. Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555-0001

Southern Nuclear Operating Company
Vogtle Electric Generating Plant Units 3 and 4 Combined License Application
Submittal of Hydrology-Related Model Input Files

Ladies and Gentlemen:

By letter dated March 28, 2008, Southern Nuclear Operating Company (SNC) submitted an application for combined licenses (COLs) for proposed Vogtle Electric Generating Plant (VEGP) Units 3 and 4 to the U.S. Nuclear Regulatory Commission (NRC). During the NRC's review of this COL application, the NRC requested, via telecon on August 27, 2008, the HEC-HMS and HEC-RAS input files and supporting information, such as HEC-RAS cross sections and discharges, to allow the NRC to perform a confirmatory analysis in support of the Final Safety Analysis Report (FSAR) Section 2.4 (Hydrologic Engineering) review. Therefore, this letter provides the HEC-HMS and HEC-RAS model input files in electronic format (i.e., compact disc) in Enclosure 2. In addition, SNC is providing supporting cross section and discharge information from the Probable Maximum Precipitation (PMP) model, in Enclosure 1, to assist the NRC in their FSAR Section 2.4 review.

If you have any questions regarding this letter, please contact Mr. Wes Sparkman at (205) 992-5061.

D079
NRO

Mr. J. A. (Buzz) Miller states he is a Senior Vice President of Southern Nuclear Operating Company, is authorized to execute this oath on behalf of Southern Nuclear Operating Company and to the best of his knowledge and belief, the facts set forth in this letter are true.

Respectfully submitted,

SOUTHERN NUCLEAR OPERATING COMPANY

Joseph A. (Buzz) Miller

Sworn to and subscribed before me this 11 *day of* September, *2008*

Notary Public: Gloria H. Bui

My commission expires: 05/06/09

JAM/BJS/dmw

Enclosures:

1. VEGP Units 3 and 4 COL Application Supporting Cross Section and Discharge Information From The PMP Model
2. VEGP Units 3 and 4 COL Application HEC-HMS and HEC-RAS Input Files (CD)

cc: Southern Nuclear Operating Company
Mr. J. H. Miller, III, President and CEO (w/o enclosures)
Mr. J. T. Gasser, Executive Vice President, Nuclear Operations (w/o enclosures)
Mr. T. E. Tynan, Vice President - Vogtle (w/o enclosures)
Mr. D. M. Lloyd, Vogtle Deployment Director
Mr. C. R. Pierce, Vogtle Development Licensing Manager
Mr. M. J. Ajluni, Nuclear Licensing Manager
Mr. W. A. Sparkman, COL Project Engineer
Document Services RTYPE: AR01
File AR.01.02.06

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Shaw Stone & Webster, Inc.
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Mr. J. L. Whiteman, Principal Engineer, Licensing & Customer Interface

Southern Nuclear Operating Company

AR-08-1347

Enclosure 1

VEGP Units 3 and 4 COL Application

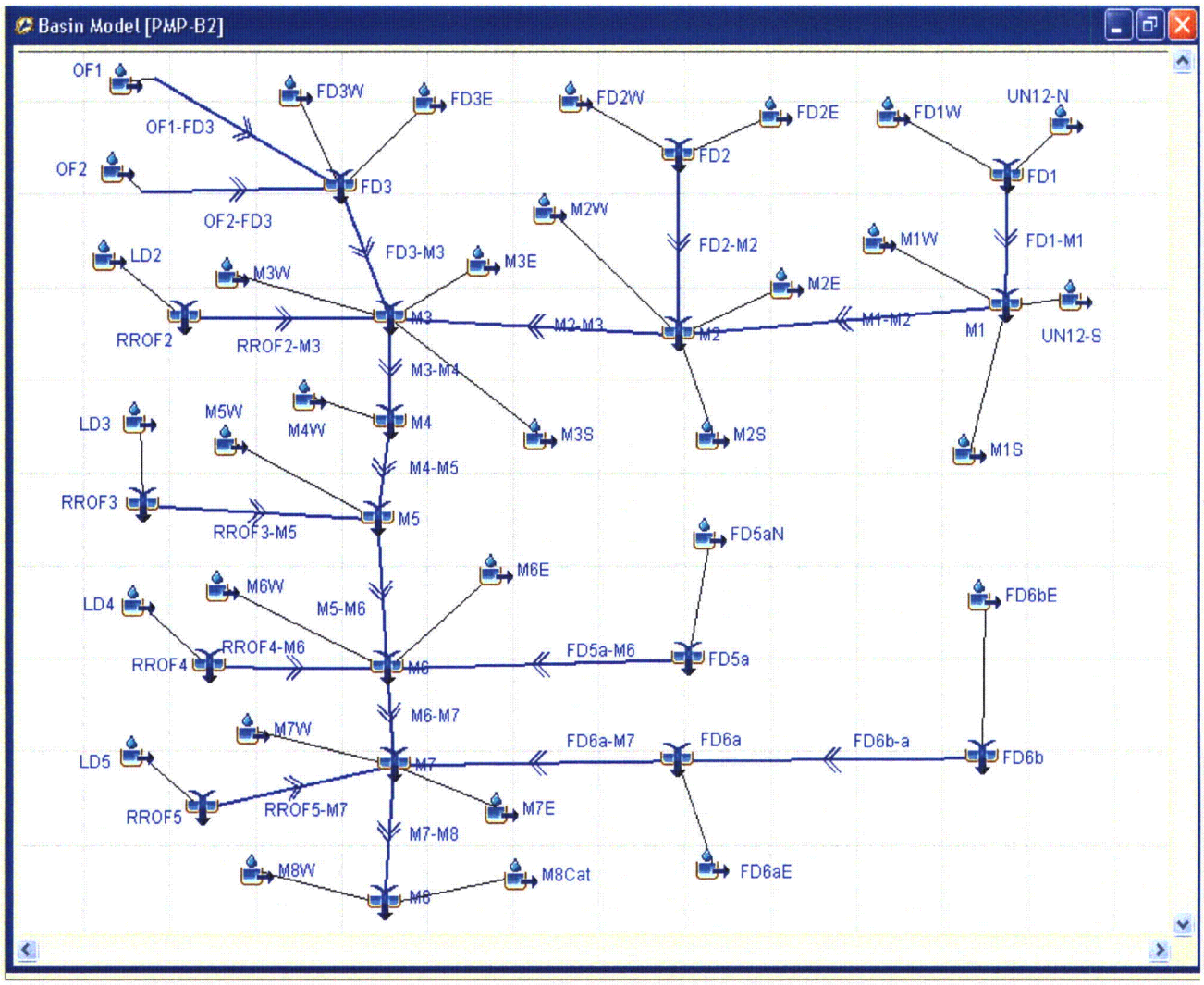
Supporting Cross Section and Discharge Information

From

The PMP Model

NOTE: This enclosure consists of an eight page document.

Drainage Basin Schematic for South-Side Drainage System



Summary Results of HEC-HMS model of south-side PMP drainage system (Global Summary results from Project "PMP-RevB", Basin Model "PMP-B")

Element	Area, mi^2	Qpeak, cfs	Time of peak *	Runoff	
				inches	ac-ft
FD1	0.0354	698	01Jan2007, 03:15	30.68	57.9
FD1-M1	0.0354	698	01Jan2007, 03:20	30.68	57.9
FD1W	0.0080	200	01Jan2007, 03:10	30.68	13.1
FD2	0.0229	434	01Jan2007, 03:20	30.68	37.5
FD2E	0.0134	253	01Jan2007, 03:20	30.68	21.9
FD2-M2	0.0229	434	01Jan2007, 03:30	30.68	37.5
FD2W	0.0095	183	01Jan2007, 03:15	30.68	15.5
FD3	0.2427	2,924	01Jan2007, 03:45	34.19	442.5
FD3E	0.0139	380	01Jan2007, 03:10	30.68	22.7
FD3-M3	0.2427	2,924	01Jan2007, 03:50	34.19	442.5
FD3W	0.0207	426	01Jan2007, 03:15	34.45	38
FD5a	0.0199	547	01Jan2007, 03:10	30.68	32.6
FD5a-M6	0.0199	547	01Jan2007, 03:15	30.68	32.6
FD5aN	0.0199	547	01Jan2007, 03:10	30.68	32.6
FD6a	0.0459	902	01Jan2007, 03:20	34.41	84.2
FD6aE	0.0146	321	01Jan2007, 03:15	34.5	26.9
FD6a-M7	0.0459	902	01Jan2007, 03:25	34.41	84.2
FD6b	0.0313	635	01Jan2007, 03:15	34.36	57.4
FD6b-a	0.0313	629	01Jan2007, 03:20	34.36	57.4
FD6bE	0.0313	635	01Jan2007, 03:15	34.36	57.4
LD2	0.0318	808	01Jan2007, 03:10	34.42	58.4
LD3	0.0106	277	01Jan2007, 03:10	34.54	19.5
LD4	0.0109	291	01Jan2007, 03:10	34.43	20
LD5	0.0048	133	01Jan2007, 03:10	34.55	8.8
M1	0.0790	1,433	01Jan2007, 03:15	30.68	129.3
M1-M2	0.0790	1,420	01Jan2007, 03:20	30.7	129.3
M1S	0.0088	241	01Jan2007, 03:10	30.68	14.4
M1W	0.0076	207	01Jan2007, 03:10	30.68	12.4

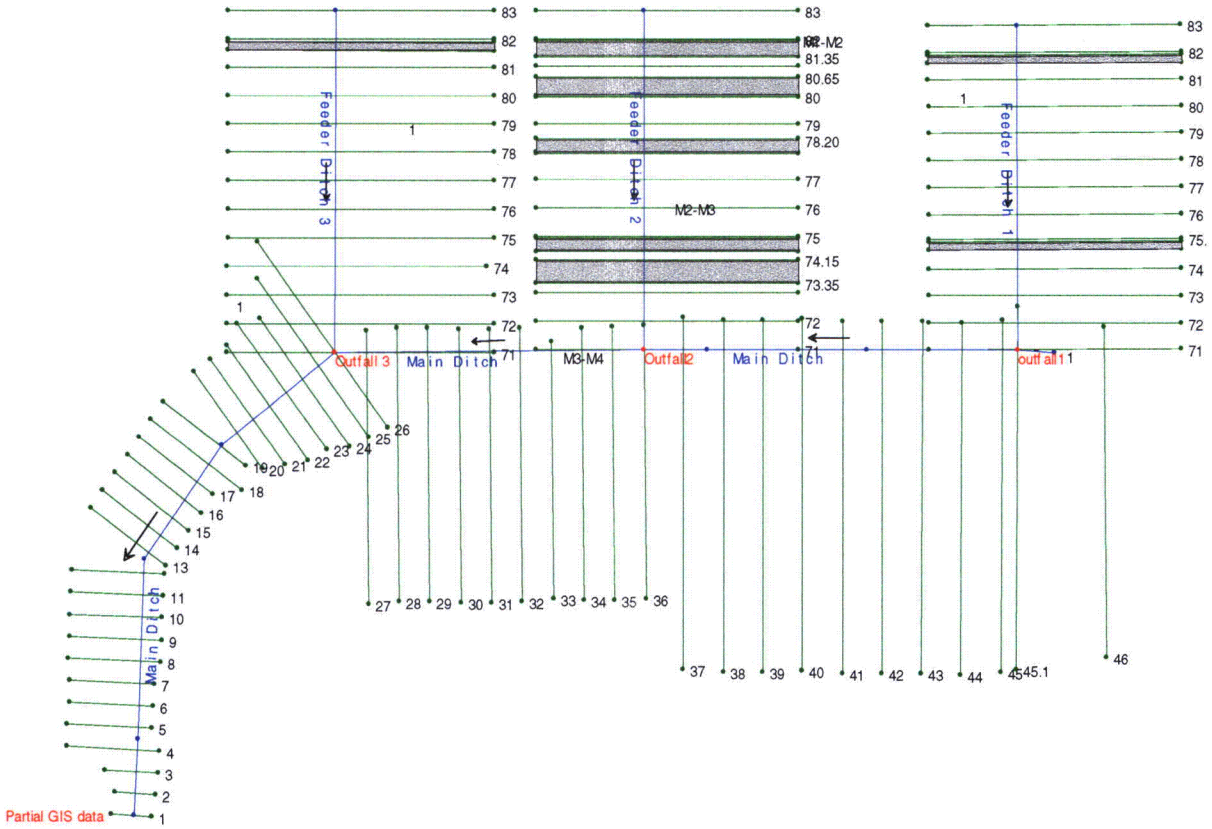
* for an assumed start of storm time of 01 Jan 2007, 0:00 hours

Summary Results continued

Element	Area, mi^2	Qpeak, cfs	Time of peak *	Runoff	
				inches	ac-ft
M2	0.1470	2,546	01Jan2007, 03:15	30.69	240.6
M2E	0.0127	349	01Jan2007, 03:10	30.68	20.8
M2-M3	0.1470	2,530	01Jan2007, 03:15	30.7	240.7
M2S	0.0233	486	01Jan2007, 03:15	30.68	38.1
M2W	0.0091	249	01Jan2007, 03:10	30.68	14.9
M3	0.4863	6,291	01Jan2007, 03:15	32.84	851.8
M3E	0.0146	403	01Jan2007, 03:05	30.68	23.9
M3-M4	0.4863	6,291	01Jan2007, 03:15	32.84	851.8
M3S	0.0295	699	01Jan2007, 03:10	30.68	48.3
M3W	0.0207	455	01Jan2007, 03:15	34.45	38
M4	0.4897	6,367	01Jan2007, 03:15	32.85	858
M4-M5	0.4897	6,336	01Jan2007, 03:15	32.86	858.1
M4W	0.0034	81	01Jan2007, 03:10	33.96	6.2
M5	0.5107	6,835	01Jan2007, 03:15	32.92	896.7
M5-M6	0.5107	6,790	01Jan2007, 03:15	32.93	896.8
M5W	0.0104	244	01Jan2007, 03:10	34.25	19
M6	0.5824	8,463	01Jan2007, 03:15	32.81	1019.1
M6E	0.0267	723	01Jan2007, 03:10	30.68	43.7
M6-M7	0.5824	8,431	01Jan2007, 03:15	32.82	1019.3
M6W	0.0142	351	01Jan2007, 03:10	34.35	26
M7	0.6630	9,919	01Jan2007, 03:15	33.01	1167.3
M7E	0.0195	418	01Jan2007, 03:15	34.49	35.9
M7-M8	0.6630	9,896	01Jan2007, 03:15	33.01	1167.4
M7W	0.0104	260	01Jan2007, 03:10	34.25	19
M8	0.7404	11,021	01Jan2007, 03:15	33.16	1309.5
M8Cat	0.0657	1,058	01Jan2007, 03:25	34.41	120.6
M8W	0.0117	291	01Jan2007, 03:10	34.49	21.5
OF1	0.1508	2,203	01Jan2007, 03:30	34.4	276.7
OF1-FD3	0.1508	2,178	01Jan2007, 03:55	34.4	276.7
OF2	0.0573	993	01Jan2007, 03:20	34.38	105.1
OF2-FD3	0.0573	993	01Jan2007, 03:30	34.38	105.1
RROF2	0.0318	808	01Jan2007, 03:10	34.42	58.4
RROF2-M3	0.0318	763	01Jan2007, 03:15	34.42	58.4
RROF3	0.0106	277	01Jan2007, 03:10	34.54	19.5
RROF3-M5	0.0106	267	01Jan2007, 03:15	34.54	19.5
RROF4	0.0109	291	01Jan2007, 03:10	34.43	20
RROF4-M6	0.0109	278	01Jan2007, 03:15	34.43	20
RROF5	0.0048	133	01Jan2007, 03:10	34.55	8.8
RROF5-M7	0.0048	124	01Jan2007, 03:15	34.55	8.8
UN12-N	0.0274	522	01Jan2007, 03:15	30.68	44.8
UN12-S	0.0272	518	01Jan2007, 03:15	30.68	44.5

* for an assumed start of storm time of 01 Jan 2007, 0:00 hours

Geometric Representation of Power Block Drainage Network in HEC-RAS (Cross section numbering is from HEC-RAS model – see Table starting on Page 6 for conversion to Project cross section stationing)



Location of Main Channel Discharge Points in HEC-RAS model

Main Ditch Section	HEC-RAS Section	PMP Q, cfs	0.5 PMP Q, cfs	Comment	HEC-HMS node
0+00	46	759	380	Upstream end of model	M1S + UN12-S
0+60	45.1	1433	717	Confluence of Feeder Ditch 1	M1
10+00	36	2546	1273	Confluence of Feeder Ditch 2	M2
20+00	26	6291	3145	Confluence of Feeder Ditch 3	M3
22+00	24	6367	3183	Confluence of Feeder Ditch 4	M4
27+00	19	6835	3418	Local Inflow	M5
33+00	13	8463	4231	Confluence of Feeder Ditch 5	M6
38+00	8	9919	4959	Confluence of ditch (not modeled)	M7
45+00	1	11021	5510	Local Inflow	M8

Location of Feeder Ditch Discharge Points in HEC-RAS model

Feeder Ditch	HEC-RAS Section	PMP Q, cfs	0.5 PMP Q, cfs	Comment	HEC-HMS node
1	83	103	52	Distribute discretized HEC-HMS node flow between all HEC-RAS sections	
1	82	206	103		
1	81	309	155		
1	80	413	206		
1	79	516	258		
1	78	619	309		
1	77	722	361	Q = FD1W + UN12-N	FD1
1	76	843	421	Distribute discretized HEC-HMS node flow between all HEC-RAS sections	
1	75	964	482		
1	74	1085	542		
1	73	1205	603		
1	72	1326	663		
1	71	1447	724	Q = M1W + UN12-S + FD1W + UN12-N	U/S of M1
2	83	62	31	Distribute discretized HEC-HMS node flow between all HEC-RAS sections	
2	82	124	62		
2	81	186	93		
2	80	249	124		
2	79	311	155		
2	78	373	186		
2	77	435	218	Q = FD2W + FD2E	FD2
2	76	535	267	Distribute discretized HEC-HMS node flow between all HEC-RAS sections	
2	75	634	317		
2	74	734	367		
2	73	834	417		
2	72	933	467		
2	71	1033	516	Q = M2W + M2E + FD2W + FD2E	U/S of M2
3	83	568	284	Distribute discretized HEC-HMS node flow between all HEC-RAS sections	
3	82	1136	568		
3	81	1705	852		
3	80	2273	1136		
3	79	2841	1421		
3	78	3409	1705		
3	77	3978	1989	Q =FD3W+FD3E+OF1-FD3+OF2-FD3	FD3
3	76	4172	2086	Distribute discretized HEC-HMS node flow between all HEC-RAS sections	
3	75	4366	2183		
3	74	4561	2280		
3	73	4755	2377		
3	72	4949	2475		
3	71	5144	2572	Q = Sum(FD3) + M3E + RROF2-M3	U/S of M3

Summary of HEC-RAS Output for PMP Profile
(with conversion for project and model stationing)

HEC-RAS identification scheme			Section	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	Vel Chnl	Froude #
Channel	Reach	Station	stationing	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/s)	Chl
Main Ditch	1	46	00+00	759	207.66	219.37	212.31	219.37	0.50	0.03
Main Ditch	1	45.5	00+30	759	207.66	219.37	212.31	219.37	0.50	0.03
Main Ditch	M1-M2	45.1	00+60	1433	207.56	219.37	214.47	219.37	0.94	0.05
Main Ditch	M1-M2	45	01+00	1433	207.41	219.37	213.84	219.37	0.93	0.05
Main Ditch	M1-M2	44	02+00	1433	207.19	219.37	213.68	219.37	0.90	0.05
Main Ditch	M1-M2	43	03+00	1433	206.98	219.37	213.54	219.37	0.88	0.05
Main Ditch	M1-M2	42	04+00	1433	206.76	219.37		219.37	0.84	0.05
Main Ditch	M1-M2	41	05+00	1433	206.54	219.36	212.99	219.37	0.88	0.05
Main Ditch	M1-M2	40	06+00	1433	206.32	219.36	212.32	219.37	1.05	0.06
Main Ditch	M1-M2	39	07+00	1433	206.11	219.36	212.09	219.37	0.94	0.05
Main Ditch	M1-M2	38	08+00	1433	205.89	219.36	211.83	219.37	0.90	0.05
Main Ditch	M2-M3	37	09+00	1433	205.67	219.36	211.87	219.37	0.92	0.05
Main Ditch	M2-M3	36	10+00	2546	205.45	219.35	213.59	219.37	1.61	0.09
Main Ditch	M2-M3	35	11+00	2546	205.24	219.35	213.31	219.36	1.55	0.09
Main Ditch	M2-M3	34	12+00	2546	205.02	219.35	213.03	219.36	1.53	0.09
Main Ditch	M2-M3	33	13+00	2546	204.80	219.34	212.28	219.36	1.55	0.08
Main Ditch	M2-M3	32	14+00	2546	204.58	219.34	212.02	219.36	1.43	0.08
Main Ditch	M2-M3	31	15+00	2546	204.37	219.34	211.75	219.36	1.46	0.08
Main Ditch	M2-M3	30	16+00	2546	204.15	219.34	211.49	219.36	1.50	0.08
Main Ditch	M2-M3	29	17+00	2546	203.93	219.33	211.22	219.35	1.71	0.09
Main Ditch	M2-M3	28	18+00	2546	203.71	219.33	210.96	219.35	1.63	0.08
Main Ditch	M3-M8	27	19+00	2546	203.50	219.33	210.69	219.35	1.61	0.08
Main Ditch	M3-M8	26	20+00	6291	203.28	219.26		219.34	3.38	0.17
Main Ditch	M3-M8	25	21+00	6291	203.06	219.19		219.33	4.03	0.21
Main Ditch	M3-M8	24	22+00	6367	202.84	218.90		219.29	5.97	0.32
Main Ditch	M3-M8	23	23+00	6367	202.63	218.84		219.27	6.14	0.33
Main Ditch	M3-M8	22	24+00	6367	202.41	218.42		219.21	7.60	0.42
Main Ditch	M3-M8	21	25+00	6367	202.19	217.94	213.62	219.13	8.80	0.50
Main Ditch	M3-M8	20	26+00	6367	201.97	217.92		219.08	8.67	0.49
Main Ditch	M3-M8	19	27+00	6835	201.88	217.59		219.01	9.57	0.55
Main Ditch	M3-M8	18	28+00	6835	201.54	217.61		218.93	9.21	0.53
Main Ditch	M3-M8	17	29+00	6835	201.32	217.60		218.86	9.01	0.51
Main Ditch	M3-M8	16	30+00	6835	201.00	217.67		218.78	8.52	0.47
Main Ditch	M3-M8	15	31+00	6835	200.89	217.72		218.71	8.15	0.44
Main Ditch	M3-M8	14	32+00	6835	200.67	217.80		218.63	7.60	0.41
Main Ditch	M3-M8	13	33+00	8463	200.45	216.97		218.51	10.26	0.57
Main Ditch	M3-M8	12	34+00	8463	200.23	216.54	213.37	218.42	11.04	0.63
Main Ditch	M3-M8	11	35+00	8463	200.02	216.57		218.31	10.67	0.60
Main Ditch	M3-M8	10	36+00	8463	199.80	216.54		218.23	10.51	0.59
Main Ditch	M3-M8	9	37+00	8463	199.58	216.58		218.14	10.14	0.56
Main Ditch	M3-M8	8	38+00	9919	199.36	213.50	213.50	217.77	16.58	1.00
Main Ditch	M3-M8	7	39+00	9919	198.68	211.54	213.15	217.39	19.41	1.22
Main Ditch	M3-M8	6	40+00	9919	198.00	209.75	211.96	216.92	21.71	1.49
Main Ditch	M3-M8	5	41+00	9919	196.51	207.34	210.13	216.27	24.44	1.66
Main Ditch	M3-M8	4	42+00	9919	192.00	198.94	202.49	214.63	36.28	3.15
Main Ditch	M3-M8	3	43+00	9919	183.22	189.47	193.41	211.29	41.92	3.90
Main Ditch	M3-M8	2	44+00	9919	172.00	179.37	179.37	181.90	17.26	1.24
Main Ditch	M3-M9	1	45+00	11021	161.21	167.41	170.79	180.33	30.67	2.39

HEC-RAS results – continued

HEC-RAS identification scheme			Section	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	Vel Chnl	Froude #
Channel	Reach	Station	stationing	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/s)	Chl
Feeder Ditch 3	1	83	83+00	568	211.70	219.42	214.83	219.42	0.37	0.02
Feeder Ditch 3	1	82	82+00	1136	211.20	219.41		219.42	0.75	0.05
Feeder Ditch 3	1	81.9	81+90	1136	211.15	219.41	215.22	219.42	0.74	0.05
Feeder Ditch 3	1	81.75	81+75	Inl Struct						
Feeder Ditch 3	1	81.6	81+60	1136	211.00	219.40		219.41	0.70	0.05
Feeder Ditch 3	1	81	81+00	1705	210.70	219.39		219.40	1.54	0.10
Feeder Ditch 3	1	80	80+00	2273	210.20	219.38		219.40	1.98	0.12
Feeder Ditch 3	1	79	79+00	2841	209.70	219.36		219.40	2.53	0.16
Feeder Ditch 3	1	78	78+00	3409	209.20	219.34		219.39	3.05	0.19
Feeder Ditch 3	1	77	77+00	3978	208.70	219.31		219.38	3.46	0.21
Feeder Ditch 3	1	76	76+00	4172	208.20	219.32		219.37	2.99	0.18
Feeder Ditch 3	1	75	75+00	4366	207.70	219.32		219.37	2.90	0.17
Feeder Ditch 3	1	74	74+00	4561	207.20	219.30		219.36	3.11	0.18
Feeder Ditch 3	1	73	73+00	4755	206.70	219.29		219.35	3.23	0.19
Feeder Ditch 3	1	72	72+00	4949	206.20	219.28		219.35	3.34	0.19
Feeder Ditch 3	1	71	71+00	5144	205.70	219.26		219.34	3.44	0.19
Feeder Ditch 2	1	83	83+00	62	214.26	219.40	214.99	219.40	0.05	0.00
Feeder Ditch 2	1	82	82+00	124	212.76	219.40		219.40	0.12	0.01
Feeder Ditch 2	1	81.95	81+95	124	212.74	219.40	214.85	219.40	0.11	0.01
Feeder Ditch 2	1	81.65	81+65	Inl Struct						
Feeder Ditch 2	1	81.35	81+35	124	212.44	219.39		219.39	0.10	0.01
Feeder Ditch 2	1	81	81+00	186	212.26	219.39		219.39	0.17	0.01
Feeder Ditch 2	1	80.65	80+65	186	212.06	219.39	214.65	219.39	0.16	0.01
Feeder Ditch 2	1	80.3	80+30	Inl Struct						
Feeder Ditch 2	1	80	80+00	249	211.76	219.39		219.39	0.24	0.02
Feeder Ditch 2	1	79.95	79+95	249	211.74	219.39		219.39	0.24	0.02
Feeder Ditch 2	1	79	79+00	311	211.26	219.39		219.39	0.29	0.02
Feeder Ditch 2	1	78.45	78+45	311	210.98	219.39	213.92	219.39	0.26	0.02
Feeder Ditch 2	1	78.2	78+20	Inl Struct						
Feeder Ditch 2	1	78	78+00	373	210.76	219.38		219.38	0.35	0.02
Feeder Ditch 2	1	77.95	77+95	373	210.74	219.38		219.38	0.34	0.02
Feeder Ditch 2	1	77	77+00	435	210.26	219.38		219.38	0.46	0.03
Feeder Ditch 2	1	76	76+00	535	209.76	219.38		219.38	0.78	0.05
Feeder Ditch 2	1	75	75+00	634	209.26	219.38		219.38	0.64	0.04
Feeder Ditch 2	1	74.95	74+95	634	209.24	219.38	213.35	219.38	0.63	0.04
Feeder Ditch 2	1	74.7	74+70	Inl Struct						
Feeder Ditch 2	1	74.45	74+45	634	208.99	219.37		219.37	0.59	0.04
Feeder Ditch 2	1	74.15	74+15	734	208.33	219.37	212.75	219.37	0.57	0.04
Feeder Ditch 2	1	74.1	74+10	Inl Struct						
Feeder Ditch 2	1	73.35	73+35	734	208.43	219.36		219.37	0.72	0.05
Feeder Ditch 2	1	73	73+00	834	208.26	219.36		219.37	0.77	0.05
Feeder Ditch 2	1	72	72+00	933	207.76	219.36		219.37	0.84	0.05
Feeder Ditch 2	1	71	71+00	1033	207.26	219.36		219.37	0.92	0.06
Feeder Ditch 1	1	83	83+00	103	216.00	219.45	216.65	219.45	0.18	0.02
Feeder Ditch 1	1	82	82+00	206	215.70	219.45	216.85	219.45	0.37	0.03

HEC-RAS results – continued

HEC-RAS identification scheme			Section	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	Vel Chnl	Froude #
Channel	Reach	Station	stationing	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/s)	Chl
Feeder Ditch 1	1	81.9	81+90	206	215.65	219.45	216.81	219.45	0.36	0.03
Feeder Ditch 1	1	81.75	81+75	Inl Struct						
Feeder Ditch 1	1	81.6	81+60	206	215.50	219.44	216.67	219.44	0.35	0.03
Feeder Ditch 1	1	81	81+00	309	215.20	219.44	217.02	219.44	0.57	0.05
Feeder Ditch 1	1	80	80+00	413	214.70	219.44	217.15	219.44	0.78	0.07
Feeder Ditch 1	1	79	79+00	516	214.20	219.44	217.26	219.44	1.01	0.09
Feeder Ditch 1	1	78	78+00	619	213.70	219.43	217.35	219.44	1.26	0.10
Feeder Ditch 1	1	77	77+00	722	213.20	219.42	217.40	219.44	1.54	0.12
Feeder Ditch 1	1	76	76+00	843	212.70	219.41	217.43	219.43	1.82	0.14
Feeder Ditch 1	1	75.1	75+10	843	212.25	219.41	217.30	219.43	1.68	0.13
Feeder Ditch 1	1	75	75+00	964	212.20	219.41	217.41	219.43	1.88	0.14
Feeder Ditch 1	1	74.85	74+85	Inl Struct						
Feeder Ditch 1	1	74.7	74+70	964	212.05	219.40	217.26	219.42	1.76	0.13
Feeder Ditch 1	1	74	74+00	1085	211.70	219.36	217.38	219.41	2.44	0.18
Feeder Ditch 1	1	73	73+00	1205	211.20	219.36	217.29	219.40	2.34	0.17
Feeder Ditch 1	1	72	72+00	1326	210.70	219.35	217.13	219.40	2.52	0.18
Feeder Ditch 1	1	71	71+00	1447	210.20	219.33	216.22	219.39	2.69	0.19

Southern Nuclear Operating Company

AR-08-1347

Enclosure 2

VEGP Units 3 and 4 COL Application

HEC-HMS and HEC-RAS Input Files

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