Entergy

125V DC STATION BATTERY "A" SIZING and VOLTAGE DROP
JAF-CALC-02609 Rev. 2

LOCA w/LOOP

Appendix 4
Page 3 of 4
Computed by: A. Barton
Checked by: B. Marks

LOCA w/ LOOP — Load Voltage & Current (Seconds / Minutes)

Source Panel	Load	Start Time	Stop Time	13.3rd Voltage	13.3rd Current	13.4rd Voltage	13.4rd Current	14.4th Voltage	14.4th Current	14.5th Voltage	14.5th Current	15th Voltage	15th Current	15.7th Voltage	15.7th Current	17th Voltage	17th Current	17.5th Voltage	17.5th Current	17.8th Voltage	17.8th Current	18th Voltage	18th Current	18.2nd Voltage	18.2nd Current	18.3rd Voltage	18.3rd Current	18.4rd Voltage	18.4rd Current	19.4nd Voltage	19.4nd Current	19.5nd Voltage	19.5nd Current	23.2nd Voltage	23.2nd Current	23.3th Voltage	23.3th Current	42.9th Voltage	42.9th Current	43rd Voltage	43rd Current	44th Voltage	44th Current	44.01st Voltage	44.01st Current	55th Voltage	55th Current	1st min Voltage	1st min Current	1st min 0.1 sec Voltage	1st min 0.1 sec Current	1st min 3.5 sec Voltage	1st min 3.5 sec Current	2nd min Voltage	2nd min Current	2nd min 0.1 sec Voltage	2nd min 0.1 sec Current	2nd min 0.2 sec Voltage	2nd min 0.2 sec Current	2nd min 1.2 sec Voltage	2nd min 1.2 sec Current	2nd min 1.3 sec Voltage	2nd min 1.3 sec Current
BATTERY 71SB-1				116.11	348.16	115.72	401.79	115.73	400.63	116.03	359.41	114.91	496.75	114.91	496.75	114.89	498.57	115.58	422.15	115.63	414.13	115.69	405.87	115.67	408.89	115.79	392.69	115.41	444.75	115.41	444.77	115.71	404.06	115.71	404.04	115.82	387.81	115.82	387.81	115.30	460.69	115.30	460.67	115.70	404.29	115.70	404.30	115.76	396.05	115.85	384.03	115.85	384.03	115.83	387.62	115.83	387.43	115.44	441.05	115.44	441.05	115.75	398.66
71BCB-2A				115.05	348.16	114.50	401.79	114.51	400.63	114.93	359.41	113.40	496.75	113.40	496.75	113.37	498.57	114.29	422.15	114.37	414.13	114.45	405.87	114.42	408.89	114.59	392.69	114.05	444.75	114.05	444.77	114.47	404.06	114.47	404.04	114.64	387.81	114.64	387.81	113.89	460.69	113.89	460.67	114.47	404.29	114.47	404.30	114.55	396.05	114.68	384.03	114.68	384.03	114.64	387.62	114.64	387.43	114.09	441.05	114.09	441.05	114.53	398.66
A02	71LPERDC1 Emer Ltg Pnl	0.1st sec	7.2nd sec																																																								
A03	71LPERDC2 Emer Ltg Pnl	0.1st sec	7.2nd sec																																																								
A04	Panel 71DC-A4			113.66	22.81	109.90	75.29	109.98	74.16	112.87	33.82	111.31	34.12	111.31	34.12	111.29	34.12	112.22	33.95	112.30	33.90	112.39	33.88	112.07	38.63	113.19	22.85	109.57	73.57	109.57	73.57	112.40	33.91	112.40	33.91	113.53	18.10	113.53	18.10	112.78	18.13	112.78	18.13	113.36	18.11	113.36	18.11	113.45	18.10	113.71	15.88	113.71	15.88	113.38	20.75	113.39	20.55	109.65	72.78	109.65	72.78	112.61	31.50
A05	71LPEADC1 Emer Ltg Pnl	0.1st sec	7.2nd sec																																																									
A06	71BMCC-3			114.00	8.02	113.45	8.05	113.46	8.05	113.89	8.03	112.34	8.12	112.34	8.12	112.31	8.13	113.24	8.07	114.32	0.33	114.41	0.33	114.38	0.33	114.55	0.33	114.01	0.33	114.01	0.33	114.43	0.33	114.43	0.33	114.60	0.33	114.60	0.33	113.85	0.33	113.85	0.33	114.43	0.33	114.43	0.33	114.51	0.33	114.63	0.33	114.63	0.33	114.60	0.33	114.60	0.33	114.05	0.33	114.05	0.33	114.48	0.33
A07	71LPESWDC1 Emer Ltg Pnl	0.1st sec	7.2nd sec																																																									
B02	Panel 71DC-A1			114.50	10.78	113.95	10.74	113.96	10.74	114.38	10.77	112.85	10.66	112.85	10.66	112.82	10.65	113.74	10.72	113.82	10.73	113.90	10.73	113.87	10.73	114.04	10.74	113.51	10.70	113.51	10.70	113.92	10.74	113.92	10.74	114.09	10.75	114.09	10.75	113.34	10.69	113.34	10.69	113.92	10.74	113.92	10.74	114.01	10.74	114.61	1.25	114.61	1.25	114.58	1.25	114.58	1.25	114.03	1.25	114.03	1.25	114.46	1.25
B03	Panel 71DC-A2			113.51	24.62	112.95	24.64	112.97	24.64	113.39	24.63	111.85	24.68	111.85	24.68	111.71	26.47	112.63	26.46	112.71	26.45	112.80	26.45	112.88	24.64	113.05	24.64	112.51	24.66	112.51	24.66	112.93	24.64	112.93	24.64	113.10	24.64	113.10	24.64	112.35	24.66	112.35	24.66	112.93	24.64	112.93	24.64	113.01	24.64	113.14	24.64	113.14	24.64	112.68	31.31	112.69	31.31	112.14	31.29	112.14	31.29	112.57	31.30
B04	Panel 71DC-A3			114.85	7.33	114.30	7.31	114.31	7.31	114.73	7.33	113.20	7.27	113.20	7.27	113.17	7.27	114.09	7.30	114.17	7.31	114.26	7.31	114.22	7.31	114.39	7.32	113.86	7.30	113.86	7.30	114.27	7.31	114.27	7.31	114.44	7.32	114.44	7.32	113.69	7.29	113.69	7.29	114.27	7.31	114.27	7.31	114.36	7.32	114.48	7.32	114.48	7.32	114.44	7.32	114.44	7.32	113.89	7.30	113.89	7.30	114.33	7.31
B05	71BMCC-1			111.58	70.85	111.01	71.21	111.02	71.20	111.46	70.92	109.87	71.94	109.87	71.94	109.84	71.96	111.30	61.05	111.38	60.98	111.86	52.90	111.83	52.92	112.00	52.84	111.45	53.09	111.45	53.11	111.88	52.91	111.88	52.89	112.05	52.81	112.05	52.81	107.81	124.13	107.81	124.11	111.10	68.94	111.09	68.95	111.57	60.88	111.70	60.83	111.70	60.83	112.06	52.81	112.06	52.81	111.49	53.08	111.49	53.08	111.94	52.87
B06	71LPE1 Emer Ltg Pnl	0.1st sec	7.2nd sec																																																									
C01	Panel 71DC-A5			114.21	9.26	113.66	9.22	113.67	9.22	114.09	9.25	112.57	9.16	112.57	9.16	112.54	9.16	113.45	9.21	113.53	9.22	113.62	9.22	113.59	9.22	113.75	9.23	113.22	9.20	113.22	9.20	113.64	9.22	113.64	9.22	113.80	9.23	113.80	9.23	113.06	9.19	113.06	9.19	113.64	9.22	113.64	9.22	113.72	9.23	113.84	9.24	113.84	9.24	113.81	9.23	113.81	9.23	113.26	9.20	113.26	9.20	113.69	9.23
C03	71UPS-1	0.1st sec	120 min	111.74	92.36	111.17	92.83	111.19	92.82	111.62	92.45	110.04	93.78	110.04	93.78	110.01	93.81	110.96	93.01	111.04	92.94	111.13	92.86	111.10	92.89	111.27	92.75	110.72	93.21	110.72	93.21	111.15	92.85	111.15	92.85	111.32	92.70	111.32	92.70	110.55	93.35	110.55	93.35	111.15	92.85	111.15	92.85	111.23	92.78	111.36	92.67	111.36	92.67	111.32	92.70	111.33	92.70	110.76	93.18	110.76	93.18	111.21	92.80
D01	31P-7A RFPT Oil Pump Motor	15th sec	120 min									101.22	132.79	101.22	132.79	101.19	132.76	107.98	68.74	108.07	68.68	108.16	68.62	108.13	68.65	108.30	68.53	107.74	68.90	107.74	68.90	108.18	68.61	108.18	68.61	108.36	68.50	108.36	68.50	107.56	69.01	107.56	69.01	108.18	68.61	108.18	68.61	108.27	68.56	108.40	68.47	108.40	68.47	108.36	68.50	108.36	68.50	107.78	68.87	107.78	68.87	108.24	68.57
	31P-7A RFPT Oil Pump Control	15th sec	120 min									113.25	1.26	113.25	1.26	113.22	1.26	114.14	1.27	114.22	1.27	114.31	1.27	114.27	1.27	114.44	1.27	113.91	1.27	113.91	1.27	114.32	1.27	114.32	1.27	114.49	1.27	114.49	1.27	113.74	1.26	113.74	1.26	114.32	1.27	114.32	1.27	114.41	1.27	114.53	1.27	114.53	1.27	114.49	1.27	114.50	1.27	113.94	1.27	113.94	1.27	114.38	1.27
	31P-7A Continuous Control	0 sec	15th sec	115.02	0.24	114.47	0.24	114.48	0.24	114.90	0.24																																																
D02	94P-13 Seal Oil Pump Motor	0.1st sec	120 min	106.98	80.93	106.38	81.31	106.39	81.38	106.85	81.03	105.19	82.31	105.19	82.31	105.16	82.33	106.15	81.56	106.24	81.49	106.34	81.42	106.30	81.45	106.48	81.31	105.90	81.75	105.90	81.75	106.36	81.41	106.36	81.41	106.54	81.27	106.54	81.27	105.73	81.89	105.73	81.89	106.35	81.41	106.35	81.41	106.45	81.34	106.58	81.24	106.58	81.24	106.54	81.27	106.54	81.26	105.94	81.72	105.94	81.72	106.42	81.36
	94P-13 Seal Oil Pump Control	0.1st sec	120 min	112.20	1.34	111.66	1.34	111.68	1.34	112.09	1.34	110.59	1.32	110.59	1.32	110.56	1.32	111.46	1.33	111.54	1.33	111.62	1.33	111.59	1.33	111.76	1.34	111.23	1.33	111.23	1.33	111.64	1.34	111.64	1.34	111.80	1.34	111.80	1.34	111.07	1.33	111.07	1.33	111.64	1.34	111.64	1.34	111.72	1.34	111.84	1.34	111.84	1.34	111.81	1.34	111.81	1.34	111.27	1.33	111.27	1.33	111.70	1.34
	94P-13 Continuous Control	0 sec	0.1st sec																																																									
N/A	Continuous control	0 sec	120 min	115.05	19.62	114.50	19.52	114.51	19.53	114.93	19.60	113.40	19.34	113.40	19.34	113.37	19.33	114.29	19.49	114.37	19.50	114.45	19.52	114.42	19.51	114.59	19.54	114.05	19.45	114.05	19.45	114.47	19.52	114.47	19.52	114.64	19.55	114.64	19.55	113.89	19.42	113.89	19.42	114.47	19.52	114.47	19.52	114.55	19.53	114.68	19.56	114.68	19.56	114.64	19.55	114.64	19.55	114.09	19.46	114.09	19.46	114.53	19.53
71DC-A1				114.50	10.78	113.95	10.74	113.96	10.74	114.38	10.77	112.85	10.66	112.85	10.66	112.82	10.65	113.74	10.72	113.82	10.73	113.90	10.73	113.87	10.73	114.04	10.74	113.51	10.70	113.51	10.70	113.92	10.74	113.92	10.74	114.09	10.75	114.09	10.75	113.34	10.69	113.34	10.69	113.92	10.74	113.92	10.74	114.01	10.74	114.61	1.25	114.61	1.25	114.58	1.25	114.58	1.25	114.03	1.25	114.03	1.25	114.46	1.25
02	1UPRN07 Unit & NSS Transf BU Prot	0.1 sec	1 min	109.88	9.46	109.36	9.42	109.37	9.42	109.77	9.46	108.30	9.33	108.30	9.33	108.28	9.33	109.16	9.40	109.23	9.41	109.32	9.42	109.29	9.41	109.45	9.43	108.93	9.38	108.93	9.38	109.33	9.42	109.33	9.42	109.49	9.43	109.49	9.43	108.78	9.37	108.78	9.37	109.33	9.42	109.33	9.42	109.41	9.42														
05	Digital Transient Recorder	0 sec	120 min	113.81	1.10	113.25	1.10	113.26	1.10	113.69	1.10	112.15	1.11	112.15	1.11	112.12	1.11	113.04	1.11	113.13	1.10	113.21	1.10	113.18	1.10	113.35	1.10	112.81	1.11	112.81	1.11	113.23	1.10	113.23	1.10	113.40	1.10	113.40	1.10	112.65	1.11	112.65	1.11	113.23	1.10	113.23	1.10	113.31	1.10	113.92	1.10	113.92	1.10	113.89	1.10	113.89	1.10	113.33	1.10	113.33	1.10	113.77	1.10
06	115kV Line 4 Sta UV Trip Bus A	3rd sec	3.1st sec																																																										
12	71PCB-10052 Bkr Alt. 1 Failure	0.1 sec	1 min	114.48	0.03	113.93	0.03	113.94	0.03	114.37	0.03	112.84	0.03	112.84	0.03	112.81	0.03	113.72	0.03	113.81	0.03	113.89	0.03	113.86	0.03	114.02	0.03	113.49	0.03	113.49	0.03	113.91	0.03	113.91	0.03	114.07	0.03	114.07	0.03	113.33	0.03	113.33	0.03	113.91	0.03	113.91	0.03	113.99	0.03														
14	345kV Bkr 71PCB-10042 Trip	0.1st sec	0.2nd sec																																																										
19	71PCB-10042 Bkr Alt. 1 Failure	0.1 sec	1 min	114.48	0.03	113.93	0.03	113.94	0.03	114.36	0.03	112.83	0.03	112.83	0.03	112.81	0.03	113.72	0.03	113.80	0.03	113.89	0.03	113.86	0.03	114.02	0.03	113.49	0.03	113.49	0.03	113.91	0.03	113.91	0.03	114.07	0.03	114.07	0.03	113.33	0.03	113.33	0.03	113.90	0.03	113.90	0.03	113.99	0.03														
21	345kV Bkr 71PCB-10052 Trip	0.1st sec	0.2nd sec																																																										
	Comp's. 06, 14 & 21 Continuous Cntl	0 sec	120 min	114.42	0.15	113.87	0.15	113.88	0.15	114.31	0.15	112.78	0.15	112.78	0.15	112.75	0.15	113.66	0.15	113.75	0.15	113.83	0.15	113.80	0.15	113.97	0.15	113.43	0.15	113.43	0.15	113.85	0.15	113.85	0.15	114.02	0.15	114.02	0.15	113.27	0.15	113.27	0.15	113.85	0.15	113.85	0.15	113.93	0.15	114.54	0.15	114.54	0.15	114.50	0.15	114.50	0.15	113.95	0.15	113.95	0.15	114.39	0.15
71DC-A2				113.51	24.62	112.95	24.61	112.97	24.64	113.39	24.63	111.85	24.68	111.85	24.68	111.71	26.47	112.63	26.46	112.71	26.45	112.80	26.45	112.88	24.64	113.05	24.64	112.51	24.66	112.51	24.66	112.93	24.64	112.93	24.64	113.10	24.64	113.10	24.64	112.35	24.66	112.35	24.66	112.93	24.64	112.93	24.64	113.01	24.64	113.14	24.64	113.14	24.64	112.68	31.31	112.69	31.31	112.14	31.29	112.14	31.29	112.57	31.30
01	RPS BU Scram 03SOV-140A	0.1st sec	120 min	113.06	0.20	112.51	0.20	112.52	0.20	112.94	0.20	111.41	0.20	111.41	0.20	111.27	0.20	112.18	0.20	112.27	0.20	112.35	0.20	112.43	0.20	112.60	0.20	112.06	0.20	112.06	0.20	112.48	0.20	112.48	0.20	112.65	0.20	112.65	0.20	111.90	0.20	111.90	0.20	112.48	0.20	112.48	0.20	112.56	0.20	112.69	0.20	112.69	0.20	112.24	0.20	112.24	0.20	111.69	0.20	111.69	0.20	112.12	0.20
03	Core Spray Channel A Logic	0 sec	120 min	113.29	1.15	112.74	1.14	112.75	1.14	113.17	1.15	111.63	1.13	111.63	1.13	111.49	1.13	112.41	1.14	112.50	1.14	112.58	1.14	112.66	1.14	112.83	1.15	112.29	1.14	112.29	1.14	112.71	1.14	112.71	1.14	112.88	1.15	112.88	1.15	112.13	1.14	112.13	1.14	112.71	1.14	112.71	1.14	112.79	1.15	112.92	1.15	112.92	1.15	112.46	1.14	112.47	1.14	111.92	1.14	111.92	1.14	112.35	1.14
04	RHR Channel A Logic	0 sec	120 min	112.95	2.89	112.40	2.88	112.41	2.88	112.84	2.89	111.31	2.85	111.31	2.85	111.17	2.85	112.08	2.87	112.16	2.87	112.25	2.87	112.33	2.88	112.50	2.88	111.96	2.87	111.96	2.87	112.38	2.88	112.38	2.88	112.55	2.88	112.55	2.88	111.80	2.86	111.80	2.86	112.38	2.88	112.38	2.88	112.46	2.88	112.58	2.88	112.58	2.88	112.13	2.87	112.13	2.87	111.59	2.86	111.59	2.86	112.02	2.87
08	RFPT 31FPD-5A Trip 31SOV-12A	0.1st sec	120 min	109.91	0.85	109.38	0.84	109.39	0.84	109.80	0.85	108.31	0.84	108.31	0.84	108.17	0.84	109.07	0.84	109.15	0.84	109.23	0.84	109.31	0.84	109.47	0.85	108.95	0.84	108.95	0.84	109.36	0.84	109.36	0.84	109.52	0.85	109.52	0.85	108.79	0.84	108.79	0.84	109.35	0.84	109.35	0.84	109.44	0.84	109.56	0.85	109.56	0.85	109.12	0.84	109.12	0.84	108.58	0.84	108.58	0.84	109.01	0.84
09	Relay Cab. Ch.A RCIC Pnl	0 sec	120 min	113.01	2.60	112.46	2.60	112.47	2.60	112.89	2.60	111.35	2.60	111.35	2.60	111.21	2.60	112.13	2.60	112.22	2.60	112.30	2.60	112.38	2.60	112.55	2.60	112.01	2.60	112.01	2.60	112.43	2.60	112.43	2.60	112.60	2.60	112.60	2.60	111.85	2.60	111.85	2.60	112.43	2.60	112.43	2.60	112.51	2.60	112.64	2.60	112.64	2.60	112.18	2.60	112.19	2.60	111.64	2.60	111.64	2.60	112.07	2.60
	Power Supply 13TU-3-13	0 sec	120 min	113.01	1.28	112.46	1.28	112.47	1.28	112.89	1.28	111.35	1.30	111.35	1.30	111.21	1.30	112.13	1.29	112.22	1.29	112.30	1.28	112.38	1.28	112.55	1.28	112.01	1.29	112.01	1.29	112.43	1.28	112.43	1.28	112.60	1.28	112.60	1.28	111.85	1.29	111.85	1.29	112.43	1.28	112.43	1.28	112.51	1.28	112.64	1.28	112.64	1.28	112.18	1.29	112.19	1.29	111.64	1.29	111.64	1.29	112.07	1.29
10	RCIC & HPCI Misc Loads	0 sec	120 min	112.86	2.73	112.31	2.74	112.32	2.74	112.75	2.73	111.20	2.74	111.20	2.74	111.06	2.74	111.99	2.74	112.07	2.74	112.15	2.74	112.24	2.74	112.40	2.73	111.87	2.74	111.86	2.74	112.29	2.74	112.29	2.74	112.45	2.73	112.45	2.73	111.70	2.74	111.70	2.74	112.28	2.74	112.28	2.74	112.37	2.73	112.49	2.73	112.49	2.73	112.04	2.74	112.04	2.74	111.49	2.74	111.49	2.74	111.92	2.74
	Inverter 13INV-152	0 sec	120 min	112.86	1.67	112.31	1.68	112.32	1.68	112.75	1.67	111.20	1.70	111.20	1.70	111.06	1.70	111.99	1.68	112.07	1.68	112.15	1.68	112.24	1.68	112.40	1.68	111.87	1.69	111.86	1.69	112.29	1.68	112.29	1.68	112.45	1.68	112.45	1.68	111.70	1.69	111.70	1.69	112.28	1.68	112.28	1.68	112.37	1.68	112.49	1.68	112.49	1.68	112.04	1.68	112.04	1.68	111.49	1.69	111.49	1.69	111.92	1.69
	13SOV-12	0.1st sec	120 min	112.42	0.12	111.87	0.12	111.88	0.12	112.31	0.12	110.77	0.12	110.77	0.12	110.63	0.12	111.55	0.12	111.63	0.12	111.72	0.12	111.80	0.12	111.97	0.12	111.43	0.12	111.43	0.12	111.85	0.12	111.85	0.12	112.02	0.12	112.02	0.12	111.27	0.12	111.27	0.12	111.85	0.12	111.85	0.12	111.93	0.12	112.05	0.12	112.05	0.12	111.60	0.12	111.60	0.12	111.05	0.12	111.05	0.12	111.49	0.12
11	02-184P-3A(M) RWR MG Set A Eme	6th sec	120 min	106.58	9.41	105.98	9.46	106.00	9.46	106.45	9.42	104.80	9.57	104.80	9.57	104.65	9.58	105.64	9.49	105.73	9.49	105.82	9.48	105.91	9.47	106.08	9.45	105.51	9.51	105.51	9.51	105.96	9.47	105.96	9.47	106.14	9.45	106.14	9.45	105.33	9.52	105.33	9.52	105.96	9.46	105.96	9.47	106.05	9.46	106.18	9.45	106.18	9.45	105.69	9.49	105.70	9.49	105.11	9.54	105.11	9.54	105.57	9.50
	02-184P-3A(M) RWR MG Set A Pmp	6th sec	120 min	113.23	0.38	112.67	0.38	112.69	0.38	113.11	0.38	111.57	0.38	111.57	0.38	111.43	0.38	112.35	0.38	112.43	0.38	112.52	0.38	112.60	0.38	112.77	0.38	112.23	0.38	112.23	0.38	112.65	0.38	112.65	0.38	112.82	0.38	112.82	0.38	112.07	0.38	112.07	0.38	112.65	0.38	112.65	0.38	112.73	0.38	112.86	0.38	112.86	0.38	112.40	0.38	112.41	0.38	111.86	0.38	111.86	0.38	112.29	0.38
	02-184P-3A(M) Continuous Control	0 sec	6th sec																																																										
14	13INV-801A Steam Leak Det Sys	0 sec	120 min	112.58	1.15	112.02	1.16	112.03	1.15	112.46	1.15	110.91	1.17	110.91	1.17	110.77	1.17	111.69	1.16	111.78	1.16	111.86	1.16	111.95	1.16	112.11	1.15	111.57	1.16	111.57	1.16	112.00	1.16	112.00	1.16	112.16	1.15	112.16	1.15	111.41	1.16	111.41	1.16	111.99	1.16	111.99	1.16	112.08	1.15	112.20	1.15	112.20	1.15	111.75	1.16	111.75	1.16	111.19	1.16	111.19	1.16	111.63	1.16
16	RCIC Valve Trip Sol 13TTS-1	0.1st sec	120 min	113.30	0.13	112.75	0.13	112.76	0.13	113.18	0.13	111.64	0.13	111.64	0.13	111.50	0.13	112.42	0.13	112.51	0.13	112.59	0.13	112.67	0.13	112.84	0.13	112.30	0.13	112.30	0.13	112.72	0.13	112.72	0.13	112.89	0.13	112.89	0.13	112.14	0.13	112.14	0.13	112.72	0.13	112.72	0.13	112.80	0.13	112.93	0.13	112.93	0.13	112.47	0.13	112.48	0.13	111.93	0.13	111.93	0.13	112.36	0.13
18	Reac Recir M/G Set A Trip	17th sec	18th sec													110.47	1.79	111.38	1.80	111.46	1.80	111.54	1.80																																						
19	600V SWGR 71L25			113.47	0.19	112.92	0.19	112.93	0.19	113.36	0.19	111.82	0.19	111.82	0.19	111.68	0.19	112.60	0.19	112.68	0.19	112.77	0.19	112.85	0.19	113.01	0.19	112.48	0.19	112.48	0.19	112.90	0.19	112.90	0.19	113.06	0.19	113.06	0.19	112.31	0.19	112.31	0.19	112.89	0.19	112.89	0.19	112.98	0.19	113.10	0.19	113.10	0.19	112.65	0.19	112.65	0.19	112.10	0.19	112.10	0.19	112.54	0.19
22	ADS Panel 09-45 Load	0 sec	120 min	113.28	2.93	112.72	2.92	112.74	2.92	113.16	2.93	111.62	2.89	111.62	2.89	111.48	2.89	112.40	2.91	112.48	2.91	112.57	2.91	112.65	2.92	112.82	2.92	112.28	2.91	112.28	2.91	112.70	2.92	112.70	2.92	112.87	2.92	112.87	2.92	112.12	2.90	112.12	2.90	112.70	2.92	112.70	2.92	112.78	2.92	112.91	2.92	112.91	2.92	111.93	9.57	111.93	9.57	111.38	9.52	111.38	9.52	111.82	9.56
	ADS Logic	0.1st sec	120 min	112.80	0.82	112.25	0.82	112.26	0.82	112.68	0.82	111.15	0.81	111.15	0.81	111.01	0.81	111.93	0.81	112.01	0.81	112.09	0.81	112.17	0.81	112.34	0.82	111.81	0.81	111.81	0.81	112.22	0.82	112.22	0.82	112.39	0.82	112.39	0.82	111.64	0.81	111.64	0.81	112.22	0.82	112.22	0.82	112.31	0.82	112.43	0.82	112.43	0.82	111.45	0.81	111.46	0.81	110.91	0.81	110.91	0.81	111.34	0.81
	6 ADS SOV (Load Only)	2nd min	60 min.																																																	111.93	7.15	111.93	7.15	111.38	7.12	111.38	7.12	111.82	7.15
	02SOV-71E1	2nd min	60 min.																																																	108.07	0.99	108.07	0.99	107.54	0.98	107.54	0.98	107.96	0.99
	ADS System Continuous Control	0 sec	120 min	113.28	2.11	112.72	2.10	112.74	2.10	113.16	2.11	111.62	2.08	111.62	2.08	111.48	2.08	112.40	2.10	112.48	2.10	112.57	2.10	112.65	2.10	112.82	2.10	112.28	2.09	112.28	2.09	112.70	2.10	112.70	2.10	112.87	2.10	112.87	2.10	112.12	2.09	112.12	2.09	112.70	2.10	112.70	2.10	112.78	2.10	112.91	2.11	112.91	2.11	111.93	0.61	111.93	0.61	111.38	0.61	111.38	0.61	111.82	0.61
71DC-A3				114.85	7.33	114.30	7.31	114.31	7.31	114.73	7.33	113.20	7.27	113.20	7.27	113.17	7.27	114.09	7.30	114.17	7.31	114.26	7.31	114.22	7.31	114.39	7.32	113.86	7.30	113.86	7.30	114.27	7.31	114.27	7.31	114.44	7.32	114.44	7.32	113.69	7.29	113.69	7.29	114.27	7.31	114.27	7.31	114.36	7.32	114.48	7.32	114.48	7.32	114.44	7.32	114.44	7.32	113.89	7.30	113.89	7.30	114.33	7.31
01	09ECCS1-EP SRV Electric Lift	0.1st sec	120 min	114.06	1.36	113.50	1.37	113.52	1.37	113.94	1.36	112.40	1.38	112.40	1.38	112.26	1.38	113.29	1.37	113.38	1.37	113.46	1.37	113.43	1.37	113.60	1.36	113.06	1.37	113.06	1.37	113.48	1.37	113.48	1.37	113.65	1.36	113.65	1.36	112.89	1.37	112.89	1.37	113.48	1.37	113.48	1.37	113.56	1.36	113.69	1.36	113.69	1.36	113.65	1.36	113.65	1.36	113.10	1.37	113.10	1.37	113.54	1.37
06	ESW Lockout Matrix	2nd sec	120 min	114.66	0.40	114.11	0.39	114.13	0.39	114.55	0.40	113.02	0.39	113.02	0.39	112.99	0.39	113.91	0.39	113.99	0.39	114.07	0.39	114.04	0.39	114.21	0.39	113.67	0.39	113.67	0.39	114.09	0.39	114.09	0.39	114.26	0.39	114.26	0.39	113.51	0.39	113.51	0.39	114.09	0.39	114.09	0.39	114.17	0.39	114.30	0.39	114.30	0.39	114.26	0.39	114.26	0.39	113.71	0.39	113.71	0.39	114.15	0.39
	ESW Continuos Control	0 sec	2nd sec																																																										
07	Standby Gas Treat Cont A	0.1st sec	120 min	114.13	1.48	113.59	1.47	113.60	1.47	114.02	1.48	112.49	1.46	112.49	1.46	112.47	1.46	113.38	1.47	113.46	1.47	113.55	1.47	113.51	1.47	113.68	1.47	113.15	1.47	113.15	1.47	113.56	1.47	113.56	1.47	113.73	1.47	113.73	1.47	112.99	1.46	112.99	1.46	113.56	1.47	113.56	1.47	113.65	1.47	113.77	1.47	113.77	1.47	113.73	1.47	113.73	1.47	113.19	1.47	113.19	1.47	113.62	1.47
09	94EHC Main Turbine EHC Panel	0.1st sec	120 min	113.67	0.87	113.12	0.87	113.13	0.87	113.55	0.87	112.03	0.86	112.03	0.86	112.01	0.86	112.91	0.86	113.00	0.86	113.08	0.87	113.05	0.86	113.21	0.87	112.68	0.86	112.68	0.86	113.10	0.87	113.10	0.87	113.26	0.87	113.26	0.87	112.52	0.86	112.52	0.86	113.10	0.87	113.10	0.87	113.18	0.87	113.30	0.87	113.30	0.87	113.27	0.87	113.27	0.87	112.72	0.86	112.72	0.86	113.15	0.87
10	94-1TEHN05 Main Turb. MasterTrip	0.1st sec	120 min	114.75	0.11	114.20	0.11	114.21	0.11	114.64	0.11	113.10	0.11	113.10	0.11	113.07	0.11	113.99	0.11	114.07	0.11	114.16	0.11	114.13	0.11	114.29	0.11	113.76	0.11	113.76	0.11	114.18	0.11	114.18	0.11	114.34	0.11	114.34	0.11	113.60	0.11	113.60	0.11	114.17	0.11	114.17	0.11	114.26	0.11	114.38	0.11	114.38	0.11	114.35	0.11	114.35	0.11	113.80	0.11	113.80	0.11	114.23	0.11
13	38MOV-VB1	N/A	N/A																																																										
	38MOV-VB1 Continuos Cntl & Htr	0 sec	120 min	114.20	0.50	113.65	0.49	113.67	0.49	114.09	0.50	112.56	0.49	112.56	0.49	112.53	0.49	113.45	0.49	113.53	0.49	113.61	0.49	113.58	0.49	113.75	0.49	113.22	0.49	113.22	0.49	113.63	0.49	113.63	0.49	113.80	0.49	113.80	0.49	113.05	0.49	113.05	0.49	113.63	0.49	113.63	0.49	113.71	0.49	113.84	0.49	113.84	0.49	113.80	0.49	113.80	0.49	113.25	0.49	113.25	0.49	113.69	0.49
20	Panel 71HO1			114.67	0.44	114.12	0.44	114.14	0.44	114.56	0.44	113.03	0.43	113.03	0.43	113.00	0.43	113.92	0.44	114.00	0.44	114.08	0.44	114.05	0.44	114.22	0.44	113.68	0.44	113.68	0.44	114.10	0.44	114.10	0.44	114.27	0.44	114.27	0.44	113.52	0.43	113.52	0.43	114.10	0.44	114.10	0.44	114.18	0.44	114.31	0.44	114.31	0.44	114.27	0.44	114.27	0.44	113.72	0.44	113.72	0.44	114.16	0.44
22	Panel 71HO3			114.55	1.15	114.00	1.15	114.01	1.15	114.44	1.15	112.91	1.13	112.91	1.13	112.88	1.13	113.79	1.14	113.88	1.14	113.96	1.15	113.93	1.15	114.10	1.15	113.56	1.14	113.56	1.14	113.98	1.15	113.98	1.15	114.15	1.15	114.15	1.15	113.40	1.14	113.40	1.14	113.98	1.15	113.98	1.15	114.06	1.15	114.18	1.15	114.18	1.15	114.15	1.15	114.15	1.15	113.60	1.14	113.60	1.14	114.03	1.15
23	600V SWGR 71L13			114.66	0.27	114.11	0.27	114.12	0.27	114.54	0.27	113.01	0.27	113.01	0.27	112.98	0.27	113.90	0.27	113.98	0.27	114.07	0.27	114.04	0.27	114.20	0.27	113.67	0.27	113.67	0.27	114.09	0.27	114.09	0.27	114.25	0.27	114.25	0.27	113.51	0.27	113.51	0.27	114.08	0.27	114.08	0.27	114.17	0.27	114.29	0.27	114.29	0.27	114.26	0.27	114.26	0.27	113.71	0.27	113.71	0.27	114.14	0.27
24	Panel 71HO7			114.64	0.76	114.09	0.75	114.10	0.75	114.53	0.76	112.99	0.75	112.99	0.75	112.97	0.75	113.88	0.75	113.96	0.75	114.05	0.75	114.02	0.75	114.18	0.76	113.65	0.75	113.65	0.75	114.07	0.75	114.07	0.75	114.23	0.76	114.23	0.76	113.49	0.75	113.49	0.75	114.07	0.75	114.07	0.75	114.15	0.76	114.27	0.76	114.27	0.76	114.24	0.76	114.24	0.76	113.69	0.75	113.69	0.75	114.12	0.75

LOCA w/ LOOP — Load Voltage & Current (Seconds / Minutes)

Source Panel	Load	Start Time	Stop Time	13.3rd Voltage	13.3rd Current	13.4rd Voltage	13.4rd Current	14.4th Voltage	14.4th Current	14.5th Voltage	14.5th Current	15th Voltage	15th Current	15.7th Voltage	15.7th Current	17th Voltage	17th Current	17.5th Voltage	17.5th Current	17.8th Voltage	17.8th Current	18th Voltage	18th Current	18.2nd Voltage	18.2nd Current	18.3rd Voltage	18.3rd Current	18.4rd Voltage	18.4rd Current	19.4nd Voltage	19.4nd Current	19.5nd Voltage	19.5nd Current	23.2nd Voltage	23.2nd Current	23.3th Voltage	23.3th Current	42.9th Voltage	42.9th Current	43rd Voltage	43rd Current	44th Voltage	44th Current	44.01st Voltage	44.01st Current	55th Voltage	55th Current	1st min Voltage	1st min Current	1st min 0.1 sec Voltage	1st min 0.1 sec Current	1st min 3.5 sec Voltage	1st min 3.5 sec Current	2nd min Voltage	2nd min Current	2nd min 0.1 sec Voltage	2nd min 0.1 sec Current	2nd min 0.2 sec Voltage	2nd min 0.2 sec Current	2nd min 1.2 sec Voltage	2nd min 1.2 sec Current	2nd min 1.3 sec Voltage	2nd min 1.3 sec Current
71DC-A4				113.66	22.81	109.90	75.29	109.98	74.16	112.87	33.82	111.31	34.12	111.31	34.12	111.29	34.12	112.22	33.95	112.30	33.90	112.39	33.88	112.07	38.63	113.19	22.85	109.57	73.57	109.57	73.57	112.40	33.91	112.40	33.91	113.53	18.10	113.53	18.10	112.78	18.13	112.78	18.13	113.36	18.11	113.36	18.11	113.45	18.10	113.71	15.88	113.71	15.88	113.38	20.75	113.39	20.55	109.65	72.78	109.65	72.78	112.61	31.50
02	Force Paralleling Cntl Pnl 93FPAC	1.85th sec	120 min	113.51	0.47	109.77	0.46	109.85	0.46	112.73	0.47	111.17	0.46	111.17	0.46	111.15	0.46	112.07	0.47	112.16	0.47	112.25	0.47	111.93	0.47	113.05	0.47	109.43	0.46	109.43	0.46	112.26	0.47	112.26	0.47	113.39	0.47	113.39	0.47	112.64	0.47	112.64	0.47	113.22	0.47	113.22	0.47	113.31	0.47	113.57	0.47	113.57	0.47	113.23	0.47	113.25	0.47	109.52	0.46	109.52	0.46	112.46	0.47
	TBRX1 Start Tie Brk Cnt	1.85th sec	120 min	113.50	0.02	109.75	0.02	109.84	0.02	112.72	0.02	111.16	0.02	111.16	0.02	111.14	0.02	112.06	0.02	112.15	0.02	112.24	0.02	111.91	0.02	113.04	0.02	109.42	0.02	109.42	0.02	112.25	0.02	112.25	0.02	113.38	0.02	113.38	0.02	112.63	0.02	112.63	0.02	113.21	0.02	113.21	0.02	113.30	0.02	113.56	0.02	113.56	0.02	113.22	0.02	113.24	0.02	109.50	0.02	109.50	0.02	112.45	0.02
	TBRX2 Start Tie Brk Permissive	1.85th sec	120 min	113.50	0.02	109.75	0.02	109.83	0.02	112.71	0.02	111.16	0.02	111.16	0.02	111.13	0.02	112.06	0.02	112.15	0.02	112.23	0.02	111.91	0.02	113.04	0.02	109.42	0.02	109.42	0.02	112.25	0.02	112.25	0.02	113.38	0.02	113.38	0.02	112.63	0.02	112.63	0.02	113.21	0.02	113.21	0.02	113.29	0.02	113.55	0.02	113.55	0.02	113.22	0.02	113.23	0.02	109.50	0.02	109.50	0.02	112.45	0.02
	TD8M EDG A & C Force Parallel	1.90th sec	120 min	113.48	0.06	109.74	0.06	109.82	0.06	112.70	0.06	111.15	0.06	111.15	0.06	111.12	0.06	112.05	0.06	112.13	0.06	112.22	0.06	111.90	0.06	113.02	0.06	109.40	0.06	109.40	0.06	112.23	0.06	112.23	0.06	113.36	0.06	113.36	0.06	112.61	0.06	112.61	0.06	113.19	0.06	113.19	0.06	113.28	0.06	113.54	0.06	113.54	0.06	113.20	0.06	113.22	0.06	109.49	0.06	109.49	0.06	112.44	0.06
	VSRX1 EDG A Start Field Flashing	3.52th sec	120 min	113.51	0.02	109.77	0.02	109.85	0.02	112.73	0.02	111.17	0.02	111.17	0.02	111.15	0.02	112.07	0.02	112.16	0.02	112.25	0.02	111.93	0.02	113.05	0.02	109.43	0.02	109.43	0.02	112.26	0.02	112.26	0.02	113.39	0.02	113.39	0.02	112.64	0.02	112.64	0.02	113.22	0.02	113.22	0.02	113.31	0.02	113.57	0.02	113.57	0.02	113.23	0.02	113.25	0.02	109.52	0.02	109.52	0.02	112.46	0.02
	VSRX2 EDG C Start Field Flashing	3.52th sec	120 min	113.51	0.02	109.77	0.02	109.85	0.02	112.73	0.02	111.17	0.02	111.17	0.02	111.15	0.02	112.07	0.02	112.16	0.02	112.25	0.02	111.93	0.02	113.05	0.02	109.43	0.02	109.43	0.02	112.26	0.02	112.26	0.02	113.39	0.02	113.39	0.02	112.64	0.02	112.64	0.02	113.22	0.02	113.22	0.02	113.31	0.02	113.57	0.02	113.57	0.02	113.23	0.02	113.25	0.02	109.52	0.02	109.52	0.02	112.46	0.02
	GFR EDG A & C Field Flashing	3.54th sec	6.6th sec																																																										
	TD9M EDG A & C Force Parallel	3.54th sec	120 min	113.51	0.06	109.77	0.06	109.85	0.06	112.73	0.06	111.17	0.06	111.17	0.06	111.15	0.06	112.07	0.06	112.16	0.06	112.25	0.06	111.93	0.06	113.05	0.06	109.43	0.06	109.43	0.06	112.26	0.06	112.26	0.06	113.39	0.06	113.39	0.06	112.64	0.06	112.64	0.06	113.22	0.06	113.22	0.06	113.31	0.06	113.57	0.06	113.57	0.06	113.23	0.06	113.25	0.06	109.52	0.06	109.52	0.06	112.46	0.06
	TD9X EDG A & C Force Parallel	6.54th sec	120 min	113.51	0.14	109.77	0.13	109.85	0.13	112.73	0.14	111.17	0.13	111.17	0.13	111.15	0.13	112.07	0.13	112.16	0.14	112.25	0.14	111.93	0.13	113.05	0.14	109.43	0.13	109.43	0.13	112.26	0.14	112.26	0.14	113.39	0.14	113.39	0.14	112.64	0.14	112.64	0.14	113.22	0.14	113.22	0.14	113.31	0.14	113.57	0.14	113.57	0.14	113.23	0.14	113.25	0.14	109.52	0.13	109.52	0.13	112.46	0.14
04	Main Generator Excitation	0.1 sec	1 min	105.94	2.21	102.44	2.14	102.51	2.14	105.20	2.20	103.75	2.17	103.75	2.17	103.73	2.17	104.59	2.18	104.67	2.19	104.75	2.19	104.45	2.18	105.51	2.20	102.12	2.13	102.12	2.13	104.77	2.19	104.77	2.19	105.82	2.21	105.82	2.21	105.12	2.20	105.12	2.20	105.66	2.21	105.66	2.21	105.74	2.21														
08	Panel 71HO5			113.45	6.33	108.00	58.59	108.12	57.46	112.31	17.30	110.75	17.50	110.75	17.50	110.72	17.51	111.65	17.39	111.74	17.34	111.82	17.33	111.35	22.06	112.99	6.35	107.72	56.84	107.72	56.84	111.84	17.36	111.84	17.36	113.48	1.62	113.48	1.62	112.73	1.61	112.73	1.61	113.31	1.61	113.31	1.61	113.40	1.62	113.66	1.62	113.66	1.62	113.17	6.46	113.19	6.27	107.76	58.19	107.76	58.19	112.05	17.15
11	Panel 93ECP-A	0.1st sec	120 min	112.12	6.88	108.33	7.03	108.41	7.03	111.32	6.91	109.75	6.97	109.75	6.97	109.73	6.98	110.66	6.94	110.75	6.93	110.84	6.93	110.51	6.94	111.65	6.90	107.99	7.05	107.99	7.05	110.85	6.93	110.85	6.93	112.00	6.88	112.00	6.88	111.24	6.91	111.24	6.91	111.82	6.89	111.82	6.89	111.91	6.89	112.17	6.88	112.17	6.88	111.83	6.89	111.85	6.89	108.08	7.05	108.08	7.05	111.06	6.92
	K1 Auto Start	0.1st sec	120 min	111.59	0.13	107.82	0.13	107.90	0.13	110.80	0.13	109.24	0.13	109.24	0.13	109.21	0.13	110.15	0.13	110.23	0.13	110.32	0.13	110.00	0.13	111.13	0.13	107.48	0.13	107.46	0.13	110.33	0.13	110.33	0.13	111.47	0.13	111.47	0.13	110.72	0.13	110.72	0.13	111.30	0.13	111.30	0.13	111.39	0.13	111.65	0.13	111.65	0.13	111.31	0.13	111.32	0.13	107.57	0.13	107.57	0.13	110.54	0.13
	Tie Breaker	1.8rd sec	120 min	112.12	0.02	108.33	0.02	108.41	0.02	111.32	0.02	109.75	0.02	109.75	0.02	109.73	0.02	110.66	0.02	110.75	0.02	110.84	0.02	110.51	0.02	111.65	0.02	107.99	0.02	107.99	0.02	110.85	0.02	110.85	0.02	112.00	0.02	112.00	0.02	111.24	0.02	111.24	0.02	111.82	0.02	111.82	0.02	111.91	0.02	112.17	0.02	112.17	0.02	111.83	0.02	111.85	0.02	108.08	0.02	108.08	0.02	111.06	0.02
	TD6 Engine Start Interlock	1.8rd sec	120 min	112.12	0.06	108.33	0.06	108.41	0.06	111.32	0.06	109.75	0.06	109.75	0.06	109.73	0.06	110.66	0.06	110.75	0.06	110.84	0.06	110.51	0.06	111.65	0.06	107.99	0.06	107.99	0.06	110.85	0.06	110.85	0.06	112.00	0.06	112.00	0.06	111.24	0.06	111.24	0.06	111.82	0.06	111.82	0.06	111.91	0.06	112.17	0.06	112.17	0.06	111.83	0.06	111.85	0.06	108.08	0.06	108.08	0.06	111.06	0.06
	TD7 Engine Start Raw Wtr	1.8rd sec	120 min	112.12	0.06	108.33	0.06	108.41	0.06	111.32	0.06	109.75	0.06	109.75	0.06	109.73	0.06	110.66	0.06	110.75	0.06	110.84	0.06	110.51	0.06	111.65	0.06	107.99	0.06	107.99	0.06	110.85	0.06	110.85	0.06	112.00	0.06	112.00	0.06	111.24	0.06	111.24	0.06	111.82	0.06	111.82	0.06	111.91	0.06	112.17	0.06	112.17	0.06	111.83	0.06	111.85	0.06	108.08	0.06	108.08	0.06	111.06	0.06
	K4 Loss of Gen Field	3.5th sec	120 min	112.12	0.02	108.33	0.02	108.41	0.02	111.32	0.02	109.75	0.02	109.75	0.02	109.73	0.02	110.66	0.02	110.75	0.02	110.84	0.02	110.51	0.02	111.65	0.02	107.99	0.02	107.99	0.02	110.85	0.02	110.85	0.02	112.00	0.02	112.00	0.02	111.24	0.02	111.24	0.02	111.82	0.02	111.82	0.02	111.91	0.02	112.17	0.02	112.17	0.02	111.83	0.02	111.85	0.02	108.08	0.02	108.08	0.02	111.06	0.02
	FFR Field Flash	3.56th sec	120 min	112.05	0.13	108.27	0.12	108.35	0.12	111.26	0.12	109.69	0.12	109.69	0.12	109.66	0.12	110.60	0.12	110.68	0.12	110.77	0.12	110.45	0.12	111.59	0.12	107.93	0.12	107.93	0.12	110.79	0.12	110.79	0.12	111.93	0.13	111.93	0.13	111.17	0.12	111.17	0.12	111.76	0.13	111.76	0.13	111.84	0.13	112.11	0.13	112.11	0.13	111.77	0.13	111.78	0.13	108.01	0.12	108.01	0.12	110.99	0.12
	VSR Volt Speed	3.5th sec	120 min	112.12	0.02	108.33	0.02	108.41	0.02	111.32	0.02	109.75	0.02	109.75	0.02	109.73	0.02	110.66	0.02	110.75	0.02	110.84	0.02	110.51	0.02	111.65	0.02	107.99	0.02	107.99	0.02	110.85	0.02	110.85	0.02	112.00	0.02	112.00	0.02	111.24	0.02	111.24	0.02	111.82	0.02	111.82	0.02	111.91	0.02	112.17	0.02	112.17	0.02	111.83	0.02	111.85	0.02	108.08	0.02	108.08	0.02	111.06	0.02
	TD5 Diesel Fail to Start	0.2nd sec	1.75th sec																																																										
	SOV-1A Air Start Right Solenoid	0.2nd sec	1.75th sec																																																										
	SOV-2A Air Start Left Solenoid	0.2nd sec	1.75th sec																																																										
	K2 Gov. Booster Pump	0.2nd sec	1.75th sec																																																										
	ESR40 Speed Relay	0.32nd sec	120 min	112.12	0.14	108.33	0.13	108.41	0.13	111.32	0.13	109.75	0.13	109.75	0.13	109.73	0.13	110.66	0.13	110.75	0.13	110.84	0.13	110.51	0.13	111.65	0.13	107.99	0.13	107.99	0.13	110.85	0.13	110.85	0.13	112.00	0.14	112.00	0.14	111.24	0.13	111.24	0.13	111.82	0.14	111.82	0.14	111.91	0.14	112.17	0.14	112.17	0.14	111.83	0.14	111.85	0.14	108.08	0.13	108.08	0.13	111.06	0.13
	ESR200 Speed Relay	1.75th sec	120 min	112.12	0.13	108.33	0.13	108.41	0.13	111.32	0.13	109.75	0.13	109.75	0.13	109.73	0.13	110.66	0.13	110.75	0.13	110.84	0.13	110.51	0.13	111.65	0.13	107.99	0.12	107.99	0.12	110.85	0.13	110.85	0.13	112.00	0.13	112.00	0.13	111.24	0.13	111.24	0.13	111.82	0.13	111.82	0.13	111.91	0.13	112.17	0.13	112.17	0.13	111.83	0.13	111.85	0.13	108.08	0.12	108.08	0.12	111.06	0.13
	ESR400 Speed Relay	3.4th sec	120 min	112.12	0.13	108.33	0.13	108.41	0.13	111.32	0.13	109.75	0.13	109.75	0.13	109.73	0.13	110.66	0.13	110.75	0.13	110.84	0.13	110.51	0.13	111.65	0.13	107.99	0.12	107.99	0.12	110.85	0.13	110.85	0.13	112.00	0.13	112.00	0.13	111.24	0.13	111.24	0.13	111.82	0.13	111.82	0.13	111.91	0.13	112.17	0.13	112.17	0.13	111.83	0.13	111.85	0.13	108.08	0.12	108.08	0.12	111.06	0.13
	C2 Fuel Oil Prime Pump	0.2nd sec	120 min	112.12	0.14	108.33	0.14	108.41	0.14	111.32	0.14	109.75	0.14	109.75	0.14	109.73	0.14	110.66	0.14	110.75	0.14	110.84	0.14	110.51	0.14	111.65	0.14	107.99	0.14	107.99	0.14	110.85	0.14	110.85	0.14	112.00	0.14	112.00	0.14	111.24	0.14	111.24	0.14	111.82	0.14	111.82	0.14	111.91	0.14	112.17	0.14	112.17	0.14	111.83	0.14	111.85	0.14	108.08	0.14	108.08	0.14	111.06	0.14
	TD10 Loss of Field	3.52nd sec	3.58th sec																																																										
	TD1 Gov. Solenoid TD	0.2 sec	120 min	112.12	0.06	108.33	0.06	108.41	0.06	111.32	0.06	109.75	0.06	109.75	0.06	109.73	0.06	110.66	0.06	110.75	0.06	110.84	0.06	110.51	0.06	111.65	0.06	107.99	0.06	107.99	0.06	110.85	0.06	110.85	0.06	112.00	0.06	112.00	0.06	111.24	0.06	111.24	0.06	111.82	0.06	111.82	0.06	111.91	0.06	112.17	0.06	112.17	0.06	111.83	0.06	111.85	0.06	108.08	0.06	108.08	0.06	111.06	0.06
	EMT Run Time Indicator	0.2st sec	120 min	112.12	0.54	108.33	0.55	108.41	0.55	111.32	0.54	109.75	0.55	109.75	0.55	109.73	0.55	110.66	0.54	110.75	0.54	110.84	0.54	110.51	0.54	111.65	0.54	107.99	0.56	107.99	0.56	110.85	0.54	110.85	0.54	112.00	0.54	112.00	0.54	111.24	0.54	111.24	0.54	111.82	0.54	111.82	0.54	111.91	0.54	112.17	0.53	112.17	0.53	111.83	0.54	111.85	0.54	108.08	0.56	108.08	0.56	111.06	0.54
	93GS-5A Boost Pump	0.3rd sec	1.75th sec																																																										
	93P-4A Fuel Oil Pump	0.3rd sec	120 min	111.94	4.76	108.15	4.93	108.23	4.92	111.15	4.79	109.58	4.86	109.58	4.86	109.55	4.86	110.49	4.82	110.57	4.82	110.66	4.81	110.34	4.83	111.48	4.78	107.81	4.94	107.81	4.94	110.68	4.81	110.68	4.81	111.82	4.76	111.82	4.76	111.06	4.80	111.06	4.80	111.65	4.77	111.65	4.77	111.74	4.77	112.00	4.76	112.00	4.76	111.66	4.77	111.67	4.77	107.90	4.94	107.90	4.94	110.88	4.81
	ESS Speed Switch	0.32nd sec	120 min	112.10	0.07	108.32	0.06	108.40	0.06	111.31	0.07	109.74	0.07	109.74	0.07	109.71	0.07	110.65	0.07	110.74	0.07	110.82	0.07	110.50	0.07	111.64	0.07	107.98	0.06	107.98	0.06	110.84	0.07	110.84	0.07	111.98	0.07	111.98	0.07	111.22	0.07	111.22	0.07	111.81	0.07	111.81	0.07	111.90	0.07	112.16	0.07	112.16	0.07	111.82	0.07	111.83	0.07	108.06	0.06	108.06	0.06	111.04	0.07
	62- High Circulating Current	3.58th sec	120 min	112.12	0.06	108.33	0.06	108.41	0.06	111.32	0.06	109.75	0.06	109.75	0.06	109.73	0.06	110.66	0.06	110.75	0.06	110.84	0.06	110.51	0.06	111.65	0.06	107.99	0.06	107.99	0.06	110.85	0.06	110.85	0.06	112.00	0.06	112.00	0.06	111.24	0.06	111.24	0.06	111.82	0.06	111.82	0.06	111.91	0.06	112.17	0.06	112.17	0.06	111.83	0.06	111.85	0.06	108.08	0.06	108.08	0.06	111.06	0.06
	Panel 93EGP-A Gen Control	3.6th sec	120 min	113.66	0.00	109.90	0.00	109.98	0.00	112.87	0.00	111.31	0.00	111.31	0.00	111.29	0.00	112.22	0.00	112.30	0.00	112.39	0.00	112.07	0.00	113.19	0.00	109.57	0.00	109.57	0.00	112.40	0.00	112.40	0.00	113.53	0.00	113.53	0.00	112.78	0.00	112.78	0.00	113.36	0.00	113.36	0.00	113.45	0.00	113.71	0.00	113.71	0.00	113.38	0.00	113.39	0.00	109.65	0.00	109.65	0.00	112.61	0.00
	EDG A FF	3.6th sec	6.6th sec																																																										
	K2/VR Auto Field Flash	3.58th sec	6.6th sec																																																										
	TDVR Field Shutdown	3.58th sec	6.6th sec																																																										
	93P/S-A	0 sec	120 min	111.93	0.35	108.13	0.35	108.21	0.36	111.13	0.35	109.56	0.36	109.56	0.36	109.53	0.36	110.47	0.36	110.56	0.36	110.64	0.36	110.32	0.36	111.46	0.35	107.79	0.36	107.79	0.36	110.66	0.35	110.66	0.35	111.80	0.35	111.80	0.35	111.04	0.35	111.04	0.35	111.63	0.35	111.63	0.35	111.72	0.35	111.98	0.35	111.98	0.35	111.64	0.35	111.66	0.35	107.88	0.36	107.88	0.36	110.86	0.35
12	Panel 93ECP-C	0.1st sec	120 min	112.41	6.91	108.63	7.07	108.71	7.07	111.61	6.94	110.05	7.01	110.05	7.01	110.02	7.01	110.96	6.97	111.04	6.97	111.13	6.96	110.81	6.98	111.94	6.93	108.29	7.09	108.29	7.08	111.15	6.96	111.15	6.96	112.29	6.92	112.29	6.92	111.53	6.95	111.53	6.95	112.11	6.93	112.11	6.93	112.20	6.92	112.46	6.91	112.46	6.91	112.13	6.92	112.14	6.92	108.37	7.08	108.37	7.08	111.35	6.96
	K1 Auto Start	0.1st sec	120 min	111.88	0.14	108.12	0.13	108.20	0.13	111.09	0.13	109.53	0.13	109.53	0.13	109.50	0.13	110.44	0.13	110.52	0.13	110.61	0.13	110.29	0.13	111.42	0.13	107.78	0.13	107.78	0.13	110.63	0.13	110.63	0.13	111.76	0.14	111.76	0.14	111.01	0.13	111.01	0.13	111.59	0.13	111.59	0.13	111.67	0.13	111.93	0.14	111.93	0.14	111.60	0.13	111.61	0.13	107.87	0.13	107.87	0.13	110.83	0.13
	Tie Breaker	1.8rd sec	120 min	112.41	0.02	108.63	0.02	108.71	0.02	111.61	0.02	110.05	0.02	110.05	0.02	110.02	0.02	110.96	0.02	111.04	0.02	111.13	0.02	110.81	0.02	111.94	0.02	108.29	0.02	108.29	0.02	111.15	0.02	111.15	0.02	112.29	0.02	112.29	0.02	111.53	0.02	111.53	0.02	112.11	0.02	112.11	0.02	112.20	0.02	112.46	0.02	112.46	0.02	112.13	0.02	112.14	0.02	108.37	0.02	108.37	0.02	111.35	0.02
	TD6 Engine Start Interlock	1.8rd sec	120 min	112.41	0.06	108.63	0.06	108.71	0.06	111.61	0.06	110.05	0.06	110.05	0.06	110.02	0.06	110.96	0.06	111.04	0.06	111.13	0.06	110.81	0.06	111.94	0.06	108.29	0.06	108.29	0.06	111.15	0.06	111.15	0.06	112.29	0.06	112.29	0.06	111.53	0.06	111.53	0.06	112.11	0.06	112.11	0.06	112.20	0.06	112.46	0.06	112.46	0.06	112.13	0.06	112.14	0.06	108.37	0.06	108.37	0.06	111.35	0.06
	TD7 Engine Start Raw Wtr	1.8rd sec	120 min	112.41	0.06	108.63	0.06	108.71	0.06	111.61	0.06	110.05	0.06	110.05	0.06	110.02	0.06	110.96	0.06	111.04	0.06	111.13	0.06	110.81	0.06	111.94	0.06	108.29	0.06	108.29	0.06	111.15	0.06	111.15	0.06	112.29	0.06	112.29	0.06	111.53	0.06	111.53	0.06	112.11	0.06	112.11	0.06	112.20	0.06	112.46	0.06	112.46	0.06	112.13	0.06	112.14	0.06	108.37	0.06	108.37	0.06	111.35	0.06
	K4 Loss of Gen Field	3.5th sec	120 min	111.54	0.02	104.52	0.02	104.53	0.02	104.54	0.02	104.54	0.02	104.54	0.02	101.23	0.02	106.28	0.02	105.94	0.02	106.08	0.02	108.86	0.02	109.16	0.02	109.16	0.02	106.08	0.02	111.49	0.02	111.49	0.02	110.96	0.02	104.53	0.02	106.00	0.02	108.86	0.02	111.54	0.02	111.28	0.02	111.04	0.02	108.29	0.02	111.15	0.02	111.15	0.02	112.29	0.02	112.29	0.02	111.15	0.02	112.29	0.02
	FFR Field Flash	3.56th sec	120 min	112.35	0.13	108.57	0.12	108.66	0.12	111.56	0.12	110.00	0.12	110.00	0.12	109.97	0.12	110.90	0.12	110.99	0.12	111.07	0.12	110.75	0.12	111.89	0.13	108.23	0.12	108.23	0.12	111.09	0.12	111.09	0.12	112.23	0.13	112.23	0.13	111.47	0.12	111.47	0.12	112.06	0.13	112.06	0.13	112.15	0.13	112.41	0.13	112.41	0.13	112.07	0.13	112.08	0.13	108.32	0.12	108.32	0.12	111.30	0.12
	VSR Volt Speed	3.5th sec	120 min	112.41	0.02	108.63	0.02	108.71	0.02	111.61	0.02	110.05	0.02	110.05	0.02	110.02	0.02	110.96	0.02	111.04	0.02	111.13	0.02	110.81	0.02	111.94	0.02	108.29	0.02	108.29	0.02	111.15	0.02	111.15	0.02	112.29	0.02	112.29	0.02	111.53	0.02	111.53	0.02	112.11	0.02	112.11	0.02	112.20	0.02	112.46	0.02	112.46	0.02	112.13	0.02	112.14	0.02	108.37	0.02	108.37	0.02	111.35	0.02
	TD5 Diesel Fail to Start	0.2nd sec	1.75th sec																																																										
	SOV-1C Air Start Right Solenoid	0.2nd sec	1.75th sec																																																										
	SOV-2C Air Start Left Solenoid	0.2nd sec	1.75th sec																																																										
	K2 Gov. Booster Pump	0.2nd sec	1.75th sec																																																										
	ESR40 Speed Relay	0.32nd sec	120 min	112.41	0.14	108.63	0.13	108.71	0.13	111.61	0.13	110.05	0.13	110.05	0.13	110.02	0.13	110.96	0.13	111.04	0.13	111.13	0.13	110.81	0.13	111.94	0.14	108.29	0.13	108.29	0.13	111.15	0.13	111.15	0.13	112.29	0.14	112.29	0.14	111.53	0.13	111.53	0.13	112.11	0.14	112.11	0.14	112.20	0.14	112.46	0.14	112.46	0.14	112.13	0.14	112.14	0.14	108.37	0.13	108.37	0.13	111.35	0.13
	ESR200 Speed Relay	1.75th sec	120 min	112.41	0.13	108.63	0.13	108.71	0.13	111.61	0.13	110.05	0.13	110.05	0.13	110.02	0.13	110.96	0.13	111.04	0.13	111.13	0.13	110.81	0.13	111.94	0.13	108.29	0.13	108.29	0.13	111.15	0.13	111.15	0.13	112.29	0.13	112.29	0.13	111.53	0.13	111.53	0.13	112.11	0.13	112.11	0.13	112.20	0.13	112.46	0.13	112.46	0.13	112.13	0.13	112.14	0.13	108.37	0.13	108.37	0.13	111.35	0.13
	ESR400 Speed Relay	3.4th sec	120 min	112.41	0.13	108.63	0.13	108.71	0.13	111.61	0.13	110.05	0.13	110.05	0.13	110.02	0.13	110.96	0.13	111.04	0.13	111.13	0.13	110.81	0.13	111.94	0.13	108.29	0.13	108.29	0.13	111.15	0.13	111.15	0.13	112.29	0.13	112.29	0.13	111.53	0.13	111.53	0.13	112.11	0.13	112.11	0.13	112.20	0.13	112.43	0.13	112.46	0.13	112.13	0.13	112.14	0.13	108.37	0.13	108.37	0.13	111.35	0.13
	C2 Fuel Oil Prime Pump	0.2nd sec	120 min	112.41	0.14	108.63	0.14	108.71	0.14	111.61	0.14	110.05	0.14	110.05	0.14	110.02	0.14	110.96	0.14	111.04	0.14	111.13	0.14	110.81	0.14	111.94	0.14	108.29	0.14	108.29	0.14	111.15	0.14	111.15	0.14	112.29	0.14	112.29	0.14	111.53	0.14	111.53	0.14	112.11	0.14	112.11	0.14	112.20	0.14	112.46	0.14	112.46	0.14	112.13	0.14	112.14	0.14	108.37	0.14	108.37	0.14	111.35	0.14
	TD10 Loss of Field	3.52nd sec	3.58th sec																																																										
	TD1 Gov. Solenoid TD	0.2nd sec	120 min	112.41	0.06	108.63	0.06	108.71	0.06	111.61	0.06	110.05	0.06	110.05	0.06	110.02	0.06	110.96	0.06	111.04	0.06	111.13	0.06	110.81	0.06	111.94	0.06	108.29	0.06	108.29	0.06	111.15	0.06	111.15	0.06	112.29	0.06	112.29	0.06	111.53	0.06	111.53	0.06	112.11	0.06	112.11	0.06	112.20	0.06	112.46	0.06	112.46	0.06	112.13	0.06	112.14	0.06	108.37	0.06	108.37	0.06	111.35	0.06
	EMT Run Time Indicator	0.2st sec	120 min	112.41	0.53	108.63	0.55	108.71	0.55	111.61	0.54	110.05	0.55	110.05	0.55	110.02	0.55	110.96	0.54	111.04	0.54	111.13	0.54	110.81	0.54	111.94	0.54	108.29	0.55	108.29	0.55	111.15	0.54	111.15	0.54	112.29	0.53	112.29	0.53	111.53	0.54	111.53	0.54	112.11	0.54	112.11	0.54	112.20	0.53	112.46	0.53	112.46	0.53	112.13	0.54	112.14	0.54	108.37	0.55	108.37	0.55	111.35	0.54
	93GS-5C Boost pump	0.3rd sec	1.75th sec																																																										
	93P-4C Fuel oil pump	0.3rd sec	120 min	112.23	4.75	108.45	4.91	108.53	4.91	111.44	4.78	109.87	4.85	109.87	4.85	109.84	4.85	110.78	4.81	110.87	4.81	110.95	4.80	110.63	4.82	111.77	4.77	108.11	4.93	108.11	4.93	110.97	4.80	110.97	4.80	112.11	4.75	112.11	4.75	111.35	4.78	111.35	4.78	111.94	4.76	111.94	4.76	112.03	4.76	112.29	4.74	112.29	4.74	111.95	4.76	111.97	4.76	108.19	4.92	108.19	4.92	111.18	4.79
	ESS Speed Switch	0.32nd sec	120 min	112.39	0.07	108.61	0.06	108.70	0.06	111.60	0.07	110.04	0.07	110.04	0.07	110.01	0.07	110.94	0.07	111.03	0.07	111.12	0.07	110.79	0.07	111.93	0.07	108.27	0.06	108.27	0.06	111.13	0.07	111.13	0.07	112.27	0.07	112.27	0.07	111.52	0.07	111.52	0.07	112.10	0.07	112.10	0.07	112.19	0.07	112.45	0.07	112.45	0.07	112.11	0.07	112.13	0.07	108.36	0.06	108.36	0.06	111.34	0.07
	62- High Circulating Current	3.58th sec	120 min	112.41	0.06	108.63	0.06	108.71	0.06	111.61	0.06	110.05	0.06	110.05	0.06	110.02	0.06	110.96	0.06	111.04	0.06	111.13	0.06	110.81	0.06	111.94	0.06	108.29	0.06	108.29	0.06	111.15	0.06	111.15	0.06	112.29	0.06	112.29	0.06	111.53	0.06	111.53	0.06	112.11	0.06	112.11	0.06	112.20	0.06	112.46	0.06	112.46	0.06	112.13	0.06	112.14	0.06	108.37	0.06	108.37	0.06	111.35	0.06
	Panel 93EGP-C Gen Control	3.6th sec	120 min	113.66	0.00	109.90	0.00	109.98	0.00	112.87	0.00	111.31	0.00	111.31	0.00	111.29	0.00	112.22	0.00	112.30	0.00	112.39	0.00	112.07	0.00	113.19	0.00	109.57	0.00	109.57	0.00	112.40	0.00	112.40	0.00	113.53	0.00	113.53	0.00	112.78	0.00	112.78	0.00	113.36	0.00	113.36	0.00	113.45	0.00	113.71	0.00	113.71	0.00	113.38	0.00	113.39	0.00	109.65	0.00	109.65	0.00	112.61	0.00
	EDG C FF	3.6th sec	6.6th sec																																																										
	K2/VR Auto Field Flash	3.58th sec	6.6th sec																																																										
	TDVR Field Shutdown	3.58th sec	6.6th sec																																																										
	93P/S-C	0 sec	120 min	112.22	0.40	108.43	0.41	108.51	0.41	111.43	0.40	109.86	0.41	109.86	0.41	109.83	0.41	110.77	0.40	110.85	0.40	110.94	0.40	110.62	0.40	111.75	0.40	108.09	0.41	108.09	0.41	110.96	0.40	110.96	0.40	112.10	0.40	112.10	0.40	111.34	0.40	111.34	0.40	111.93	0.40	111.93	0.40	112.01	0.40	112.27	0.40	112.27	0.40	111.94	0.40	111.95	0.40	108.18	0.41	108.18	0.41	111.16	0.40

LOCA w/ LOOP — Load Voltage & Current (Seconds / Minutes)

Source Panel	Load	Start Time	Stop Time	13.3rd Voltage	13.3rd Current	13.4rd Voltage	13.4rd Current	14.4th Voltage	14.4th Current	14.5th Voltage	14.5th Current	15th Voltage	15th Current	15.7th Voltage	15.7th Current	17th Voltage	17th Current	17.5th Voltage	17.5th Current	17.8th Voltage	17.8th Current	18th Voltage	18th Current	18.2nd Voltage	18.2nd Current	18.3rd Voltage	18.3rd Current	18.4rd Voltage	18.4rd Current	19.4nd Voltage	19.4nd Current	19.5nd Voltage	19.5nd Current	23.2nd Voltage	23.2nd Current	23.3th Voltage	23.3th Current	42.9th Voltage	42.9th Current	43rd Voltage	43rd Current	44th Voltage	44th Current	44.01st Voltage	44.01st Current	55th Voltage	55th Current	1st min Voltage	1st min Current	1st min 0.1 sec Voltage	1st min 0.1 sec Current	1st min 3.5 sec Voltage	1st min 3.5 sec Current	2nd min Voltage	2nd min Current	2nd min 0.1 sec Voltage	2nd min 0.1 sec Current	2nd min 0.2 sec Voltage	2nd min 0.2 sec Current	2nd min 1.2 sec Voltage	2nd min 1.2 sec Current	2nd min 1.3 sec Voltage	2nd min 1.3 sec Current
71DC-A5				114.21	9.26	113.66	9.22	113.67	9.22	114.09	9.25	112.57	9.16	112.57	9.16	112.54	9.16	113.45	9.21	113.53	9.22	113.62	9.22	113.59	9.22	113.75	9.23	113.22	9.20	113.22	9.20	113.64	9.22	113.64	9.22	113.80	9.23	113.80	9.23	113.06	9.19	113.06	9.19	113.64	9.22	113.64	9.22	113.72	9.23	113.84	9.24	113.84	9.24	113.81	9.23	113.81	9.23	113.26	9.20	113.26	9.20	113.69	9.23
01	ECCS Cab Power Pnl 09-95	0 sec	7.2nd sec.																																																										
02	Feedwater Inverter 06INV-1A	0 sec	120 min	113.17	1.18	112.61	1.19	112.63	1.19	113.05	1.18	111.51	1.20	111.51	1.20	111.48	1.20	112.40	1.19	112.49	1.19	112.57	1.19	112.54	1.19	112.71	1.19	112.17	1.19	112.17	1.19	112.59	1.19	112.59	1.19	112.76	1.18	112.76	1.18	112.01	1.19	112.01	1.19	112.59	1.19	112.59	1.19	112.67	1.19	112.80	1.18	112.80	1.18	112.76	1.18	112.76	1.18	112.21	1.19	112.21	1.19	112.65	1.19
05	HPCI Relay Logic Pnl 09-32	0 sec	120 min	114.18	0.20	113.63	0.20	113.64	0.20	114.06	0.20	112.53	0.20	112.53	0.20	112.50	0.20	113.42	0.20	113.50	0.20	113.59	0.20	113.55	0.20	113.72	0.20	113.19	0.20	113.19	0.20	113.60	0.20	113.60	0.20	113.77	0.20	113.77	0.20	113.02	0.20	113.02	0.20	113.60	0.20	113.60	0.20	113.69	0.20	113.81	0.20	113.81	0.20	113.77	0.20	113.77	0.20	113.23	0.20	113.23	0.20	113.66	0.20
07	CRD 09ARI-2 Isolation Rly Pnl	0 sec	120 min	113.01	6.53	112.46	6.50	112.48	6.50	112.89	6.53	111.38	6.44	111.38	6.44	111.35	6.44	112.26	6.49	112.34	6.50	112.42	6.50	112.39	6.50	112.56	6.51	112.03	6.48	112.03	6.48	112.44	6.50	112.44	6.50	112.61	6.51	112.61	6.51	111.87	6.47	111.87	6.47	112.44	6.50	112.44	6.50	112.52	6.51	112.64	6.51	112.64	6.51	112.61	6.51	112.61	6.51	112.07	6.48	112.07	6.48	112.50	6.50
	03SOV-201	0.1st sec	120 min	110.22	1.34	109.69	1.33	109.70	1.33	110.11	1.34	108.64	1.32	108.64	1.32	108.61	1.32	109.49	1.33	109.57	1.33	109.65	1.33	109.62	1.33	109.78	1.33	109.27	1.33	109.27	1.33	109.67	1.33	109.67	1.33	109.83	1.34	109.83	1.34	109.11	1.33	109.11	1.33	109.67	1.33	109.67	1.33	109.75	1.33	109.87	1.34	109.87	1.34	109.83	1.34	109.83	1.34	109.30	1.33	109.30	1.33	109.72	1.33
09	27MAP Panel	0 sec	7.2nd sec.																																																										
18	71INV-1A	0 sec	7.2nd sec.																																																										
71BMCC-1				111.58	70.85	111.01	71.21	111.02	71.20	111.46	70.92	109.87	71.94	109.87	71.94	109.84	71.96	111.30	61.05	111.38	60.98	111.86	52.90	111.83	52.92	112.00	52.84	111.45	53.09	111.45	53.11	111.88	52.91	111.88	52.89	112.05	52.81	112.05	52.81	107.81	124.13	107.81	124.11	111.10	68.94	111.09	68.95	111.57	60.88	111.70	60.83	111.70	60.83	112.06	52.81	112.06	52.81	111.49	53.08	111.49	53.08	111.94	52.87
OA1	13MOV-16 Close	43 sec	55 sec																																					98.63	35.02	98.63	35.02	108.71	7.47	108.71	7.47																
	13MOV-16 Control	43 sec	55 sec																																					106.34	0.50	106.34	0.50	106.34	0.50	109.58	0.51																
	13MOV-16 Continuous Control	0 sec	120 min	111.07	0.17	110.50	0.17	110.51	0.17	110.95	0.17	109.37	0.17	109.37	0.17	109.34	0.17	110.79	0.17	110.87	0.17	111.35	0.17	111.32	0.17	111.49	0.17	110.94	0.17	110.94	0.17	111.37	0.17	111.37	0.17	111.54	0.17	111.54	0.17									111.06	0.17	111.19	0.17	111.19	0.17	111.54	0.17	111.55	0.17	110.98	0.17	110.98	0.17	111.43	0.17
OB2	13MOV-21 Open	1st sec	17.8th sec	108.54	7.49	107.95	7.53	107.96	7.53	108.41	7.49	106.78	7.61	106.78	7.61	106.75	7.61	108.25	7.51	108.34	7.50																																										
	13MOV-21 Control (Open)	1st sec	17.8th sec	110.84	0.52	110.28	0.51	110.29	0.51	110.73	0.52	109.15	0.51	109.15	0.51	109.12	0.51	110.57	0.52	110.65	0.52																																										
	13MOV-21 Close	43 sec	1 min 3.5 sec																																					94.19	33.53	94.19	33.53	108.04	7.52	108.04	7.52	108.53	7.49	108.66	7.48	108.66	7.48										
	13MOV-21 Control (Close)	43 sec	1 min 3.5 sec																																					107.10	0.50	107.11	0.50	110.36	0.51	110.36	0.51	110.84	0.52	110.97	0.52	110.97	0.52										
	13MOV-21 Continuous Control	0 sec	120 min																			111.63	0.16	111.60	0.16	111.77	0.16	111.22	0.16	111.22	0.16	111.65	0.16	111.65	0.16	111.82	0.16	111.82	0.16															111.82	0.16	111.82	0.16	111.26	0.16	111.26	0.16	111.71	0.16
OC1	13MOV-27 Open	4th sec	8.9th sec																																																										
	13MOV-27 Control Open	4th sec	8.9th sec																																																										
	13MOV-27 Close	9th sec	15.7th sec	108.93	9.64	108.34	9.69	108.36	9.69	108.80	9.65	107.18	9.80	107.18	9.80	107.15	9.80																																														
	13MOV-27 Control Close	9th sec	15.7th sec	108.61	0.51	108.05	0.50	108.07	0.50	108.49	0.51	106.95	0.50	106.95	0.50	106.92	0.50																																														
	13MOV-27 Continuous Control	0 sec	120 min															110.30	0.17	110.38	0.17	110.86	0.17	110.82	0.17	110.99	0.17	110.45	0.17	110.45	0.17	110.87	0.17	110.88	0.17	111.04	0.17	111.04	0.17	106.84	0.17	106.84	0.17	110.09	0.17	110.09	0.17	110.57	0.17	110.69	0.17	110.69	0.17	111.05	0.17	111.05	0.17	110.49	0.17	110.49	0.17	110.93	0.17
OE1	13P-3	0.1st sec	120 min	108.51	26.50	107.92	26.84	107.93	26.64	108.38	26.53	106.75	26.93	106.75	26.93	106.72	26.94	108.22	26.57	108.30	26.55	108.80	26.42	108.77	26.43	108.94	26.39	108.38	26.53	108.38	26.53	108.82	26.42	108.82	26.42	108.99	26.38	108.99	26.38	104.63	27.48	104.63	27.48	108.01	26.62	108.01	26.62	108.50	26.50	108.63	26.47	108.63	26.47	109.00	26.38	109.00	26.38	108.42	26.52	108.42	26.52	108.88	26.41
	13P-3 Control	0.1st sec	120 min	109.81	0.54	109.25	0.54	109.26	0.54	109.69	0.54	108.13	0.54	108.13	0.54	108.10	0.54	109.53	0.54	109.61	0.54	110.09	0.55	110.06	0.55	110.22	0.55	109.68	0.54	109.68	0.54	110.10	0.55	110.11	0.55	110.27	0.55	110.27	0.55	106.10	0.53	106.10	0.53	109.33	0.54	109.33	0.54	109.80	0.54	109.93	0.54	109.93	0.54	110.28	0.55	110.28	0.55	109.72	0.54	109.72	0.54	110.16	0.55
	13P-3 Continuous Control	0 sec	0.1st sec																																																										
OE2	13P-4	3rd sec	120 min	108.56	24.94	107.98	25.08	107.99	25.08	108.44	24.97	106.81	25.35	106.81	25.35	106.78	25.36	108.27	25.01	108.36	24.99	108.86	24.88	108.82	24.89	109.00	24.85	108.44	24.97	108.43	24.97	108.88	24.87	108.88	24.87	109.05	24.83	109.05	24.83	104.69	25.87	104.69	25.87	108.07	25.06	108.07	25.06	108.56	24.95	108.69	24.92	108.69	24.92	109.05	24.83	109.06	24.83	108.48	24.97	108.48	24.97	108.94	24.86
	13P-4 Control	3rd sec	120 min	109.81	0.54	109.25	0.54	109.26	0.54	109.69	0.54	108.13	0.54	108.13	0.54	108.10	0.54	109.47	0.56	109.61	0.54	110.09	0.55	110.06	0.55	110.22	0.55	109.68	0.54	109.62	0.56	110.04	0.56	110.11	0.55	110.27	0.55	110.27	0.55	106.04	0.54	106.10	0.53	109.33	0.54	109.33	0.54	109.80	0.54	109.87	0.56	109.87	0.56	110.28	0.55	110.28	0.55	109.72	0.54	109.72	0.54	110.16	0.55
	13P-4 Continuous Control	0.1 sec	3rd sec																																																										
71BMCC-3				114.00	8.02	113.45	8.05	113.46	8.05	113.89	8.03	112.34	8.12	112.34	8.12	112.31	8.13	113.24	8.07	114.32	0.33	114.41	0.33	114.38	0.33	114.55	0.33	114.01	0.33	114.01	0.33	114.43	0.33	114.43	0.33	114.60	0.33	114.60	0.33	113.85	0.33	113.85	0.33	114.43	0.33	114.43	0.33	114.51	0.33	114.63	0.33	114.63	0.33	114.60	0.33	114.60	0.33	114.05	0.33	114.05	0.33	114.48	0.33
OB1	13MOV-131	0.1st sec	17.5th sec	110.85	7.33	110.28	7.37	110.29	7.37	110.73	7.34	109.14	7.44	109.14	7.44	109.11	7.45	110.06	7.38																																												
	13MOV-131 Control	0.1st sec	17.5th sec	112.27	0.52	111.72	0.52	111.73	0.52	112.16	0.52	110.63	0.52	110.63	0.52	110.60	0.52	111.52	0.52																																													
	13MOV-131 Continuous Control	17.6th sec	120 min																	113.77	0.17	113.86	0.17	113.83	0.17	113.99	0.17	113.46	0.17	113.46	0.17	113.88	0.17	113.88	0.17	114.04	0.17	114.04	0.17	113.30	0.17	113.30	0.17	113.87	0.17	113.87	0.17	113.96	0.17	114.08	0.17	114.08	0.17	114.04	0.17	114.05	0.17	113.50	0.17	113.50	0.17	113.93	0.17
OB2	13MOV-132	0.1st sec	13.1st sec																																																										
	13MOV-132 Control	0.1st sec	13.1st sec																																																										
	13MOV-132 Continuous Control	13.2st sec	120 min	113.37	0.17	112.81	0.17	112.83	0.17	113.25	0.17	111.71	0.16	111.71	0.16	111.68	0.16	112.60	0.16	113.69	0.17	113.77	0.17	113.74	0.17	113.90	0.17	113.37	0.17	113.37	0.17	113.79	0.17	113.79	0.17	113.95	0.17	113.95	0.17	113.21	0.17	113.21	0.17	113.79	0.17	113.79	0.17	113.87	0.17	113.99	0.17	113.99	0.17	113.96	0.17	113.96	0.17	113.41	0.17	113.41	0.17	113.84	0.17
71H01				114.67	0.44	114.12	0.44	114.14	0.44	114.56	0.44	113.03	0.43	113.03	0.43	113.00	0.43	113.92	0.44	114.00	0.44	114.08	0.44	114.05	0.44	114.22	0.44	113.68	0.44	113.68	0.44	114.10	0.44	114.10	0.44	114.27	0.44	114.27	0.44	113.52	0.43	113.52	0.43	114.10	0.44	114.10	0.44	114.18	0.44	114.31	0.44	114.31	0.44	114.27	0.44	114.27	0.44	113.72	0.44	113.72	0.44	114.16	0.44
	4KV Swgr Bkr 71-10102 trip	0.1 sec	3.1st sec																																																										
	4KV Swgr Bkr 71-10110 trip	0.1st sec	0.2nd sec																																																										
	4KV Swgr Bkr 71-10112 trip	N/A	N/A																																																										
	4KV Bus 10100 Undervoltage	0.1st sec	120 min	114.31	0.20	113.76	0.20	113.77	0.20	114.19	0.20	112.66	0.20	112.66	0.20	112.64	0.20	113.55	0.20	113.63	0.20	113.72	0.20	113.68	0.20	113.85	0.20	113.32	0.20	113.32	0.20	113.73	0.20	113.73	0.20	113.90	0.20	113.90	0.20	113.15	0.20	113.15	0.20	113.73	0.20	113.73	0.20	113.82	0.20	113.94	0.20	113.94	0.20	113.90	0.20	113.90	0.20	113.36	0.20	113.36	0.20	113.79	0.20
	71H01 Continuous Control	0 sec	120 min	114.25	0.23	113.70	0.23	113.71	0.23	114.14	0.23	112.61	0.23	112.61	0.23	112.58	0.23	113.49	0.23	113.58	0.23	113.66	0.23	113.63	0.23	#######	0.23	######	0.23	113.26	0.23	113.68	0.23	113.68	0.23	113.85	0.23	113.85	0.23	113.10	0.23	113.10	0.23	113.68	0.23	113.68	0.23	113.76	0.23	113.88	0.23	113.88	0.23	113.85	0.23	113.85	0.23	113.30	0.23	113.30	0.23	113.73	0.23
71H03				114.55	1.15	114.00	1.15	114.01	1.15	114.44	1.15	112.91	1.13	112.91	1.13	112.88	1.13	113.79	1.14	113.88	1.14	113.96	1.15	113.93	1.15	114.10	1.15	113.56	1.14	113.56	1.14	113.98	1.15	113.98	1.15	114.15	1.15	114.15	1.15	113.40	1.14	113.40	1.14	113.98	1.15	113.98	1.15	114.06	1.15	114.18	1.15	114.18	1.15	114.15	1.15	114.15	1.15	113.60	1.14	113.60	1.14	114.03	1.15
	4KV Swgr Bkr 71-10302 trip	0.1sec	3.1st sec																																																										
	4KV Swgr Bkr 71-10304 trip	6.2 sec	6.3rd sec																																																										
	4KV Swgr Bkr 71-10304 close	119th min 20 sec	119th min 20.1 sec																																																										
	71-10304 Brk Charging Motor	119th min 20.2 sec	119th min 25 sec																																																										
	4KV Swgr Bkr 71-10310 trip	3rd sec	3.1st sec																																																										
	86U- Pmp 37P-8A UV Trip Aux Relay	3rd sec	120 min	114.45	0.06	113.90	0.06	113.92	0.06	114.34	0.06	112.81	0.06	112.81	0.06	112.78	0.06	113.70	0.06	113.78	0.06	113.86	0.06	113.83	0.06	114.00	0.06	113.46	0.06	113.46	0.06	113.88	0.06	113.88	0.06	114.05	0.06	114.05	0.06	113.30	0.06	113.30	0.06	113.88	0.06	113.88	0.06	113.96	0.06	114.09	0.06	114.09	0.06	114.05	0.06	114.05	0.06	113.50	0.06	113.50	0.06	113.94	0.06
	4KV Swgr Bkr 71-10312 trip	N/A	N/A																																																										
	4KV Swgr Bkr 71-10312 close	119th min 0 sec	119th min 0.1 sec																																																										
	71-10312 Brk Charging Motor	119th min 0.2 sec	119th min 5 sec																																																										
	4KV Swgr Bkr 71-10320 trip	3rd sec	3.1st sec																																																										
	86U- Pmp 46P-1A UV Trip Aux Relay	3rd sec	120 min	114.45	0.06	113.91	0.06	113.92	0.06	114.34	0.06	112.81	0.06	112.81	0.06	112.78	0.06	113.70	0.06	113.78	0.06	113.86	0.06	113.83	0.06	114.00	0.06	113.46	0.06	113.46	0.06	113.88	0.06	113.88	0.06	114.05	0.06	114.05	0.06	113.30	0.06	113.30	0.06	113.88	0.06	113.88	0.06	113.96	0.06	114.09	0.06	114.09	0.06	114.05	0.06	114.05	0.06	113.50	0.06	113.50	0.06	113.94	0.06
	4KV Swgr Bkr 71-10330 trip	3rd sec	3.1st sec																																																										
	4KV Swgr Bkr 71-10340 trip	3rd sec	3.1st sec																																																										
	4KV Swgr Bkr 71-10350 trip	3rd sec	3.1st sec																																																										
	86U- Pmp 33P-9A UV Trip Aux Relay	3rd sec	120 min	114.45	0.06	113.90	0.06	113.91	0.06	114.33	0.06	112.80	0.06	112.80	0.06	112.78	0.06	113.69	0.06	113.77	0.06	113.86	0.06	113.83	0.06	113.99	0.06	113.46	0.06	113.46	0.06	113.88	0.06	113.88	0.06	114.04	0.06	114.04	0.06	113.30	0.06	113.30	0.06	113.87	0.06	113.87	0.06	113.96	0.06	114.08	0.06	114.08	0.06	114.04	0.06	114.05	0.06	113.50	0.06	113.50	0.06	113.93	0.06
	4KV Swgr Bkr 71-10360 trip	3rd sec	3.1st sec																																																										
	86U- Pmp 37P-2A UV Trip Aux Relay	3rd sec	120 min	114.45	0.06	113.90	0.06	113.91	0.06	114.33	0.06	112.80	0.06	112.80	0.06	112.78	0.06	113.69	0.06	113.77	0.06	113.86	0.06	113.83	0.06	113.99	0.06	113.46	0.06	113.46	0.06	113.88	0.06	113.88	0.06	114.04	0.06	114.04	0.06	113.30	0.06	113.30	0.06	113.87	0.06	113.87	0.06	113.96	0.06	114.08	0.06	114.08	0.06	114.04	0.06	114.05	0.06	113.50	0.06	113.50	0.06	113.93	0.06
	Bus 10300 Undervoltage Oper	0.1st sec	120 min	114.15	0.22	113.60	0.22	113.61	0.22	114.03	0.22	112.51	0.22	112.51	0.22	112.48	0.22	113.39	0.22	113.47	0.22	113.56	0.22	113.53	0.22	113.69	0.22	113.16	0.22	113.16	0.22	113.57	0.22	113.58	0.22	113.74	0.22	113.74	0.22	113.00	0.22	113.00	0.22	113.57	0.22	113.57	0.22	113.66	0.22	113.78	0.22	113.78	0.22	113.74	0.22	113.74	0.22	113.20	0.22	113.20	0.22	113.63	0.22
	71H03 Continuous Control	0 sec	120 min	113.25	0.70	112.70	0.70	112.71	0.70	113.13	0.70	111.62	0.69	111.62	0.69	111.59	0.69	112.50	0.70	112.58	0.70	112.66	0.70	112.63	0.70	112.79	0.70	112.27	0.70	112.27	0.70	112.68	0.70	112.68	0.70	112.84	0.70	112.84	0.70	112.11	0.70	112.11	0.70	112.68	0.70	112.68	0.70	112.76	0.70	112.88	0.70	112.88	0.70	112.85	0.70	112.85	0.70	112.30	0.70	112.30	0.70	112.73	0.70
71H05				113.45	6.33	108.00	58.59	108.12	57.46	112.31	17.30	110.75	17.50	110.75	17.50	110.72	17.51	111.65	17.39	111.74	17.34	111.82	17.33	111.35	22.06	112.99	6.35	107.72	56.84	107.72	56.84	111.84	17.36	111.84	17.36	113.48	1.62	113.48	1.62	112.73	1.61	112.73	1.61	113.31	1.61	113.31	1.61	113.40	1.62	113.66	1.62	113.66	1.62	113.17	6.46	113.19	6.27	107.76	58.19	107.76	58.19	112.05	17.15
	4KV Swgr Bkr 71-10502 close	7.2nd sec	7.3rd sec																																																										
	71-10502 Brk Charging Motor	7.4rd sec	12.2nd sec																																																										
	4KV Swgr Bkr 71-10510 Close	2 min 30 sec	2 min 30.1 sec																																																										
	71-10510 Brk Charging Motor	2 min 30.2 sec	2 min 35 sec																																																										
	10SOV-101C	0 sec	2 min 30 sec	113.26	0.19	107.82	0.18	107.94	0.18	112.12	0.19	110.56	0.19	110.56	0.19	110.54	0.19	111.47	0.19	111.55	0.19	111.64	0.19	111.17	0.19	112.80	0.19	107.55	0.18	107.54	0.18	111.66	0.19	111.66	0.19	113.30	0.19	113.30	0.19	112.55	0.19	112.55	0.19	113.13	0.19	113.13	0.19	113.21	0.19	113.47	0.19	113.47	0.19	112.98	0.19	113.00	0.19	107.59	0.18	107.59	0.18	111.87	0.19
	4KV Swgr Bkr 71-10512 close	7.2nd sec	7.3nd sec																																																										
	71-10512 Brk Charging Motor	7.4rd sec	12.2nd sec																																																										
	4KV Swgr Bkr 71-10514 trip	6.2nd sec	6.3rd sec																																																										
	4KV Swgr Bkr 71-10514 close	119th min 40 sec	119th min 40.1 sec																																																										
	71-10514 Brk Charging Motor	119th min 40.2 sec	119th min 45 sec																																																										
	4KV Swgr Bkr 71-10520 close	2 min	2 min 0.1 sec																																																	100.98	4.85	101.00	4.85						
	71-10520 Brk Charging Motor	2 min 0.2 sec	2 min 5 sec																																																					104.49	56.84	104.49	56.84	111.14	15.75
	10SOV-101A	0 sec	2 min	113.26	0.19	107.82	0.18	107.94	0.18	112.12	0.19	110.57	0.19	110.57	0.19	110.54	0.19	111.47	0.19	111.56	0.19	111.64	0.19	111.17	0.19	112.80	0.19	107.55	0.18	107.55	0.18	111.66	0.19	111.66	0.19	113.30	0.19	113.30	0.19	112.55	0.19	112.55	0.19	113.13	0.19	113.13	0.19	113.21	0.19	113.47	0.19	113.47	0.19	112.98	0.19								
	4KV Swgr Bkr 71-10530 trip	N/A	N/A																					97.29	4.67	98.72	4.74																																				
	4KV Swgr Bkr 71-10530 close	18.2nd sec	18.3rd sec																																																										
	71-10530 Brk Charging Motor	18.4rd sec	23.2nd sec																									104.69	55.31	104.69	55.31	110.98	15.77	110.98	15.77																												
	4KV Swgr Bkr 71-10540 trip	N/A	N/A																																																										
	4KV Swgr Bkr 71-10540 close	13.2nd sec	13.3rd sec	98.26	4.72																																																								
	71-10540 Brk Charging Motor	13.4rd sec	18.2nd sec			104.88	57.05	105.06	55.92	111.45	15.70	109.87	15.93	109.87	15.93	109.85	15.93	110.79	15.80	111.10	15.75	111.19	15.74	110.71	15.81																																				
	4KV Swgr Bkr 71-10550 close	1st sec	1.1st sec																																																										
	71-10550 Brk Charging Motor	1.2st sec	6th sec																																																										
	4KV Swgr Bkr 71-10550 trip	6.2nd sec	6.3rd sec																																																										
	4KV Swgr Bkr 71-10550 close	8.2nd sec	8.3rd sec																																																										
	71-10550 Brk Charging Motor	8.4rd sec	13.2nd sec																																																										
	4KV Swgr Bkr 71-10560	N/A	N/A																																																										
	K8 EDG-A&C Tie Brk Relay	1.9th sec	120 min	113.42	0.08	107.98	0.08	108.10	0.08	112.28	0.08	110.72	0.08	110.72	0.08	110.69	0.08	111.63	0.08	111.71	0.08	111.80	0.08	111.32	0.08	112.96	0.08	107.70	0.08	107.70	0.08	111.81	0.08	111.82	0.08	113.46	0.08	113.46	0.08	112.71	0.08	112.71	0.08	113.29	0.08	113.29	0.08	113.37	0.08	113.63	0.08	113.63	0.08	113.14	0.08	113.16	0.08	107.74	0.08	107.74	0.08	112.02	0.08
	4KV Swgr Bkr 71-10504 close	2nd sec	2.1st sec																																																										
	71-10504 Brk Charging Motor	2.2th sec	6th sec																																																										
	62-1EDGA02 EDG A&C Relay	7th sec	8.2 sec																																																										
	62X-1EDGA02 EDG A&C Relay	7th sec	8.2 sec																																																										
	K9 Gen Tie to EDG-A&C (Trip)	7.3rd sec	120 min	113.38	0.08	107.94	0.08	108.05	0.08	112.24	0.08	110.68	0.08	110.68	0.08	110.65	0.08	111.58	0.08	111.67	0.08	111.76	0.08	111.28	0.08	112.92	0.08	107.66	0.08	107.66	0.08	111.77	0.08	111.77	0.08	113.41	0.08	113.41	0.08	112.66	0.08	112.66	0.08	113.24	0.08	113.24	0.08	113.33	0.08	113.59	0.08	113.59	0.08	113.10	0.08	113.12	0.08	107.70	0.08	107.70	0.08	111.98	0.08
	4KV Swgr Bkr 71-10504 trip	7.3rd sec	7.4rd sec																																																										
	Emer Bus 10500 Undervoltage	0.1 sec	7.2nd																																																										
	71H05 Continuous Control	0 sec	120 min	109.86	1.07	104.58	1.02	104.70	1.02	108.75	1.06	107.24	1.04	107.24	1.04	107.21	1.04	108.12	1.05	108.20	1.05	108.29	1.05	107.83	1.05	109.41	1.06	104.31	1.01	104.31	1.01	108.30	1.05	108.30	1.05	109.89	1.07	109.89	1.07	109.16	1.06	109.16	1.06	109.73	1.07	109.73	1.07	109.81	1.07	110.06	1.07	110.06	1.07	109.58	1.07	109.60	1.07	104.35	1.01	104.35	1.01	108.50	1.05
71H07				114.55	0.76	114.00	0.75	114.01	0.75	114.43	0.76	112.90	0.75	112.90	0.75	112.87	0.75	113.79	0.75	113.87	0.75	113.96	0.75	113.92	0.75	114.09	0.76	113.56	0.75	113.56	0.75	113.97	0.75	113.97	0.75	114.14	0.76	114.14	0.76	113.39	0.75	113.39	0.75	113.97	0.75	113.97	0.75	114.06	0.76	114.18	0.76	114.18	0.76	114.14	0.76	114.14	0.76	113.60	0.75	113.60	0.75	114.03	0.75
	4KV Swgr Bkr 71-10702 trip	0.1sec	3.1st sec																																																										
	4KV Swgr Bkr 71-10710 trip	3rd sec	3.1st sec																																																										
	86U- Pmp 33PP-8C UV Trip Aux Rela	3rd sec	120 min	114.44	0.06	113.89	0.06	113.90	0.06	114.32	0.06	112.80	0.06	112.80	0.06	112.77	0.06	113.68	0.06	113.76	0.06	113.85	0.06	113.82	0.06	113.98	0.06	113.45	0.06	113.45	0.06	113.87	0.06	113.87	0.06	114.03	0.06	114.03	0.06	113.29	0.06	113.29	0.06	113.86	0.06	113.86	0.06	113.95	0.06	114.07	0.06	114.07	0.06	114.04	0.06	114.04	0.06	113.49	0.06	113.49	0.06	113.92	0.06
	4KV Swgr Bkr 71-10720 trip	3rd sec	3.1st sec																																																										
	86U- Pmp 46P-1C UV Trip Aux Relay	3rd sec	120 min	114.44	0.06	113.89	0.06	113.91	0.06	114.33	0.06	112.80	0.06	112.80	0.06	112.77	0.06	113.69	0.06	113.77	0.06	113.85	0.06	113.82	0.06	113.99	0.06	113.45	0.06	113.45	0.06	113.87	0.06	113.87	0.06	114.04	0.06	114.04	0.06	113.29	0.06	113.29	0.06	113.87	0.06	113.87	0.06	113.95	0.06	114.08	0.06	114.08	0.06	114.04	0.06	114.04	0.06	113.49	0.06	113.49	0.06	113.93	0.06
	4KV Swgr Bkr 71-10730 trip	3rd sec	3.1st sec																																																										
	4KV Swgr Bkr 71-10740 trip	3rd sec	3.1st sec																																																										
	86U- Pmp 33P-9C UV Trip Aux Relay	3rd sec	120 min	114.44	0.06	113.89	0.06	113.91	0.06	114.33	0.06	112.80	0.06	112.80	0.06	112.77	0.06	113.69	0.06	113.77	0.06	113.85	0.06	113.82	0.06	113.99	0.06	113.45	0.06	113.45	0.06	113.87	0.06	113.87	0.06	114.04	0.06	114.04	0.06	113.29	0.06	113.29	0.06	113.87	0.06	113.87	0.06	113.95	0.06	114.08	0.06	114.08	0.06	114.04	0.06	114.04	0.06	113.49	0.06	113.49	0.06	113.93	0.06
	4KV Swgr Bkr 71-10750 trip	3rd sec	3.1st sec																																																										
	86U- Pmp 37P-2C UV Trip Aux Relay	3rd sec	120 min	114.44	0.06	113.89	0.06	113.90	0.06	114.33	0.06	112.80	0.06	112.80	0.06	112.77	0.06	113.68	0.06	113.76	0.06	113.85	0.06	113.82	0.06	113.98	0.06	113.45	0.06	113.45	0.06	113.87	0.06	113.87	0.06	114.03	0.06	114.03	0.06	113.29	0.06	113.29	0.06	113.87	0.06	113.87	0.06	113.95	0.06	114.07	0.06	114.07	0.06	114.04	0.06	114.04	0.06	113.49	0.06	113.49	0.06	113.92	0.06
	Bus 10700 Undervoltage	3rd sec	120 min	114.43	0.06	113.88	0.06	113.89	0.06	114.31	0.06	112.78	0.06	112.78	0.06	112.76	0.06	113.67	0.06	113.75	0.06	113.84	0.06	113.81	0.06	113.97	0.06	113.44	0.06	113.44	0.06	113.86	0.06	113.86	0.06	114.02	0.06	114.02	0.06	113.28	0.06	113.28	0.06	113.85	0.06	113.85	0.06	113.94	0.06	114.06	0.06	114.06	0.06	114.02	0.06	114.03	0.06	113.48	0.06	113.48	0.06	113.91	0.06
	71H07 Continuous Control	0 sec	120 min	113.66	0.47	113.12	0.46	113.13	0.46	113.55	0.47	112.03	0.46	112.03	0.46	112.00	0.46	112.91	0.46	112.99	0.46	113.07	0.46	113.04	0.46	113.21	0.46	112.68	0.46	112.68	0.46	113.09	0.46	113.09	0.46	113.26	0.47	113.26	0.47	112.52	0.46	112.52	0.46	113.09	0.46	113.09	0.46	113.17	0.46	113.30	0.47	113.30	0.47	113.26	0.47	113.26	0.47	112.72	0.46	112.72	0.46	113.15	0.46
71L13				114.66	0.27	114.11	0.27	114.12	0.27	114.54	0.27	113.01	0.27	113.01	0.27	112.98	0.27	113.90	0.27	113.98	0.27	114.07	0.27	114.04	0.27	114.20	0.27	113.67	0.27	113.67	0.27	114.09	0.27	114.09	0.27	114.25	0.27	114.25	0.27	113.51	0.27	113.51	0.27	114.08	0.27	114.08	0.27	114.17	0.27	114.29	0.27	114.29	0.27	114.26	0.27	114.26	0.27	113.71	0.27	113.71	0.27	114.14	0.27
	600v Bkr # 11316 52X energize	2nd sec	4.4th sec																																																										
	600v Bkr # 11316 52/CC close	2.1st sec	4.4th sec																																																										
	71L23 Continuous Control	0 sec	120 min	114.10	0.27	113.55	0.27	113.56	0.27	113.98	0.27	112.46	0.27	112.46	0.27	112.43	0.27	113.34	0.27	113.43	0.27	113.51	0.27	113.48	0.27	113.65	0.27	113.11	0.27	113.11	0.27	113.53	0.27	113.53	0.27	113.69	0.27	113.69	0.27	112.95	0.27	112.95	0.27	113.53	0.27	113.53	0.27	113.61	0.27	113.73	0.27	113.73	0.27	113.70	0.27	113.70	0.27	113.15	0.27	113.15	0.27	113.58	0.27
71L25				113.47	0.19	112.92	0.19	112.93	0.19	113.36	0.19	111.82	0.19	111.82	0.19	111.68	0.19	112.60	0.19	112.68	0.19	112.77	0.19	112.85	0.19	113.01	0.19	112.48	0.19	112.48	0.19	112.90	0.19	112.90	0.19	113.06	0.19	113.06	0.19	112.31	0.19	112.31	0.19	112.89	0.19	112.89	0.19	112.98	0.19	113.10	0.19	113.10	0.19	112.65	0.19	112.65	0.19	112.10	0.19	112.10	0.19	112.54	0.19
	600v Bkr #12510 52X energize	2nd sec	3.9th sec																																																										
	600v Bkr #12510 52/CC close	2.1st sec	3.9th sec																																																										
	71L25 Continuous Control	0 sec	120 min	113.09	0.19	112.54	0.19	112.55	0.19	112.98	0.19	111.44	0.19	111.44	0.19	111.30	0.19	112.22	0.19	112.30	0.19	112.39	0.19	112.47	0.19	112.64	0.19	112.10	0.19	112.10	0.19	112.52	0.19	112.52	0.19	112.69	0.19	112.69	0.19	111.94	0.19	111.94	0.19	112.52	0.19	112.52	0.19	112.60	0.19	112.72	0.19	112.72	0.19	112.27	0.19	112.27	0.19	111.73	0.19	111.73	0.19	112.16	0.19

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