Entergy

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

Appendix 4
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Computed by: A. Barton
Checked by: B. Marks

Load Voltage & Current (Seconds) — 0 sec to 3.6th

Source Panel	Load	SBO Start Time	Stop Time	0 sec Voltage	0 sec Current	0.1st sec Voltage	0.1st sec Current	0.2st Voltage	0.2st Current	0.3st Voltage	0.3st Current	2nd Voltage	2nd Current	2.1st Voltage	2.1st Current	2.5th Voltage	2.5th Current	2.8th Voltage	2.8th Current	3rd Voltage	3rd Current	3.1st Voltage	3.1st Current	3.2th Voltage	3.2th Current	3.6th Voltage	3.6th Current
BATTERY 71SB-1				117.60	63.99	115.26	465.28	115.30	460.93	115.47	437.42	115.18	475.75	114.38	538.59	114.31	544.15	113.48	615.47	112.82	673.62	113.10	649.06	113.88	579.51	113.88	579.51
71BCB-2A				117.40	63.99	113.84	465.28	113.89	460.93	114.13	437.42	113.73	475.75	112.74	538.59	112.65	544.15	111.60	615.47	110.78	673.62	111.11	649.06	112.11	579.51	112.11	579.51
A02	71LPERDC1 Emer Ltg Pnl	0.1st sec	240 min			109.87	16.48	109.91	16.46	110.14	16.50	109.78	16.44	108.80	16.30	108.72	16.29	107.70	16.13	106.90	16.01	107.24	16.08	108.20	16.21	108.20	16.21
A03	71LPERDC2 Emer Ltg Pnl	0.1st sec	60 min			108.81	9.22	108.85	9.22	109.08	9.24	108.70	9.21	107.75	9.13	107.67	9.12	106.66	9.03	105.87	8.97	106.20	9.00	107.15	9.08	107.15	9.08
A04	Panel 71DC-A4			117.29	1.82	113.54	4.92	113.59	4.92	113.83	4.93	113.43	4.92	112.44	4.89	111.85	13.05	106.19	88.67	105.40	88.02	105.73	88.29	106.68	89.07	106.68	89.07
A05	71LPEADC1 Emer Ltg Pnl	0.1st sec	60 min			107.54	17.67	107.59	17.68	107.82	17.72	107.43	17.65	106.50	17.50	106.42	17.49	105.42	17.32	104.64	17.19	104.97	17.25	105.91	17.40	105.91	17.40
A06	71BMCC-3			117.36	0.34	113.80	0.33	113.84	0.33	114.09	0.33	113.68	0.33	112.69	0.33	112.61	0.33	111.55	0.33	110.72	0.32	111.07	0.32	112.07	0.33	112.07	0.33
A07	71LPESWDC1 Emer Ltg Pnl	0.1st sec	60 min			111.80	6.95	111.84	6.95	112.08	6.97	111.68	6.94	110.71	6.88	110.63	6.88	109.59	6.81	108.77	6.76	109.12	6.78	110.09	6.84	110.09	6.84
B02	Panel 71DC-A1			117.34	1.23	112.07	34.62	112.12	34.63	113.58	10.83	113.17	10.80	112.19	10.72	112.10	10.71	111.05	10.64	109.97	15.46	110.32	15.53	111.56	10.67	111.56	10.67
B03	Panel 71DC-A2			116.85	8.88	113.22	9.90	113.27	9.90	113.51	9.91	113.05	10.79	109.83	46.60	109.74	46.57	108.71	46.21	107.78	47.79	108.12	47.92	109.09	48.27	109.09	48.27
B04	Panel 71DC-A3			117.29	4.28	113.12	26.54	113.29	22.05	113.54	21.62	113.05	25.13	111.24	55.46	111.21	53.18	110.17	52.72	107.85	107.77	108.19	108.10	111.04	39.44	111.04	39.44
B05	71BMCC-1			117.36	0.89	113.80	0.87	113.84	0.87	114.09	0.87	111.96	36.03	110.99	35.72	110.90	35.69	109.86	35.35	109.05	35.09	110.69	8.74	111.68	8.68	111.68	8.68
B06	71LPE1 Emer Ltg Pnl	0.1st sec	60 min			111.58	10.95	111.62	10.96	111.86	10.98	111.46	10.94	110.49	10.85	110.41	10.84	109.37	10.74	108.56	10.66	108.90	10.69	109.88	10.79	109.88	10.79
C01	Panel 71DC-A5			115.04	26.15	111.40	27.02	111.45	27.01	111.69	26.94	111.28	27.05	110.27	27.30	110.18	27.32	109.10	27.60	108.25	27.82	108.61	27.73	109.63	27.46	109.63	27.46
C03	71UPS-1	0.1st sec	90 min			109.15	131.15	109.19	131.20	109.42	131.48	109.04	131.01	108.09	129.88	108.01	129.78	106.99	128.58	106.20	127.60	108.53	128.01	107.49	129.15	107.49	129.15
D01	31P-7A RFPT Oil Pump	17th sec	60 min																								
	31P-7A RFPT Oil Pump Control	17th sec	60 min																								
	31P-7A RFPT Continuous Control	60 min	240 min	117.38	0.24	113.81	0.24	113.86	0.24	114.10	0.24	113.70	0.24	112.71	0.23	112.62	0.23	111.57	0.23	110.74	0.23	111.09	0.23	112.08	0.23	112.08	0.23
D02	94P-13 Seal Oil Pump	0.1st sec	60 min			99.13	147.58	99.17	147.64	99.38	147.95	99.03	147.43	98.17	146.15	98.09	146.03	97.17	144.67	96.45	143.59	96.75	144.04	97.62	145.33	97.62	145.33
	94P-13 Seal Oil Pump Control	0.1st sec	60 min			111.03	1.33	111.07	1.33	111.31	1.33	110.91	1.33	109.95	1.31	109.87	1.31	108.84	1.30	108.03	1.29	108.37	1.30	109.34	1.31	109.34	1.31
	94P-13 Continuous Control	60 min	240 min																								
N/A	Continuous control	0 sec	240 min	117.40	20.15	113.84	19.54	113.89	19.55	114.13	19.59	113.73	19.52	112.74	19.35	112.65	19.34	111.60	19.16	110.78	19.01	111.11	19.07	112.11	19.25	112.11	19.25
71DC-A1				117.34	1.23	112.07	34.62	112.12	34.63	113.58	10.83	113.17	10.80	112.19	10.72	112.10	10.71	111.05	10.64	109.97	15.46	110.32	15.53	111.56	10.67	111.56	10.67
02	1UPRN07 Unit & NSS Transf BU Prot	0.1 sec	1 min			108.90	9.38	108.94	9.38	110.35	9.51	109.96	9.47	109.01	9.39	108.92	9.38	107.90	9.29	106.85	9.20	107.19	9.23	108.40	9.34	108.40	9.34
05	71DTR Digital Transient Recorder	0 sec	240 min	116.67	1.07	111.37	1.12	111.41	1.12	112.88	1.11	112.48	1.11	111.49	1.12	111.40	1.12	110.34	1.13	109.25	1.14	109.61	1.14	110.86	1.13	110.86	1.13
08	115kV Line 4 Sta UV Trip Bus A	3rd sec	3.1st sec																	107.57	4.93	107.91	4.95				
12	71PCB-10052 Bkr Alt. 1 Failure	0.1 sec	1 min			112.06	0.03	112.10	0.03	113.56	0.03	113.16	0.03	112.18	0.03	112.09	0.03	111.04	0.03	109.96	0.03	110.31	0.03	111.55	0.03	111.55	0.03
14	345kV Bkr 71PCB-10042 Trip	0.1st sec	0.2nd sec			97.43	11.69	97.47	11.70																		
19	71PCB-10042 Bkr Alt. 1 Failure	0.1 sec	1 min			112.06	0.03	112.10	0.03	113.56	0.03	113.16	0.03	112.17	0.03	112.09	0.03	111.04	0.03	109.96	0.03	110.30	0.03	111.55	0.03	111.55	0.03
21	345kV Bkr 71PCB-10052 Trip	0.1st sec	0.2nd sec			101.78	12.21	101.82	12.22																		
	Comp's. 08, 14 & 21 Continuous Cntl	0 sec	240 min	117.27	0.16	112.00	0.15	112.05	0.15	113.50	0.15	113.10	0.15	112.12	0.15	112.03	0.15	110.98	0.15	109.90	0.15	110.25	0.15	111.49	0.15	111.49	0.15
71DC-A2				116.85	8.88	113.22	9.90	113.27	9.90	113.51	9.91	113.05	10.79	109.83	46.60	109.74	46.57	108.71	46.21	107.78	47.79	108.12	47.92	109.09	48.27	109.09	48.27
01	RPS BU Scram 03SOV-140A	0.1st sec	240 min			112.77	0.20	112.82	0.20	113.06	0.20	112.60	0.20	109.39	0.19	109.30	0.19	108.27	0.19	107.35	0.19	107.69	0.19	108.66	0.19	108.66	0.19
03	Core Spray Channel A Logic	N/A	N/A																								
04	RHR Channel A Logic	N/A	N/A																								
08	RFPT 31FPD-5A Trip 31SOV-12A	0.1st sec	240 min			109.64	0.85	109.68	0.85	109.92	0.85	109.47	0.85	106.35	0.82	106.27	0.82	105.27	0.81	104.36	0.81	104.70	0.81	105.64	0.82	105.64	0.82
09	Relay Cab. Ch.A RCIC Pnl	0 sec	240 min	116.35	2.61	112.72	2.60	112.77	2.60	113.01	2.60	112.55	2.60	109.33	2.60	109.24	2.60	108.21	2.60	107.28	2.60	107.62	2.60	108.59	2.60	108.59	2.60
	Power Supply 13TU-3-13	0 sec	240 min	116.35	1.24	112.72	1.28	112.77	1.28	113.01	1.28	112.55	1.28	109.33	1.32	109.24	1.32	108.21	1.33	107.28	1.34	107.62	1.34	108.59	1.33	108.59	1.33
10	RCIC & HPCI Misc. Loads	0 sec	240 min	116.21	2.72	112.58	2.74	112.62	2.74	112.86	2.73	112.40	2.74	109.17	2.76	109.09	2.76	108.05	2.76	107.12	2.77	107.47	2.77	108.44	2.76	108.44	2.76
	Inverter 13INV-153	0 sec	240 min	116.21	1.62	112.58	1.68	112.62	1.67	112.88	1.67	112.40	1.68	109.17	1.73	109.09	1.73	108.05	1.75	107.12	1.76	107.47	1.76	108.44	1.74	108.44	1.74
	13SOV-12	0 sec	240 min	115.75	0.13	112.13	0.12	112.18	0.12	112.42	0.13	111.96	0.12	108.74	0.12	108.66	0.12	107.63	0.12	106.70	0.12	107.04	0.12	108.01	0.12	108.01	0.12
11	02-184P-3A(M) RWR MG Set A Emer	6th sec	60 min																								
	02-184P-3A(M) RWR MG Set A Pmp	6th sec	60 min																								
	02-184P-3A(M) Continuous Control	0 sec	240 min	116.16	0.07	112.53	0.07	112.57	0.07	112.81	0.07	112.35	0.07	109.13	0.07	109.04	0.07	108.01	0.07	107.07	0.06	107.42	0.07	108.39	0.07	108.39	0.07
14	13INV-801A Steam Leak Det Sys	0 sec	240 min	115.95	1.12	112.29	1.15	112.33	1.15	112.58	1.15	112.12	1.15	108.86	1.19	108.78	1.19	107.73	1.20	106.79	1.21	107.14	1.21	108.12	1.20	108.12	1.20
16	RCIC Valve Trip Sol 13TTS-1	30 min.	240 min																								
18	Reac Recir M/G Set A Trip	17th sec	18th sec																								
19	600V SWGR 71L25			116.81	0.20	113.19	0.19	113.23	0.19	113.47	0.19	112.86	1.08	103.13	36.93	103.05	36.90	102.08	36.55	101.21	36.24	101.53	36.35	102.44	36.68	102.44	36.68
22	ADS Panel 09-45 Load	0 sec	240 min	116.68	2.18	113.06	2.11	113.10	2.11	113.34	2.11	112.88	2.11	109.68	2.05	109.58	2.04	108.55	2.02	107.47	3.91	107.81	3.92	108.78	3.96	108.78	3.96
	ADS Logic	N/A	N/A																								
	9 RV SOV's	N/A	N/A																								
	02SOV-71K1	3rd sec	240 min																	104.08	0.95	104.41	0.96	105.35	0.96	105.35	0.96
	02SOV-71L1	3rd sec	240 min																	103.91	0.95	104.24	0.95	105.18	0.96	105.18	0.96
	Relief Valve/ADS Continuous Cntl	0 sec	240 min	116.68	2.18	113.06	2.11	113.10	2.11	113.34	2.11	112.88	2.11	109.66	2.05	109.58	2.04	108.55	2.02	107.47	2.00	107.81	2.01	108.78	2.03	108.78	2.03
71DC-A3				117.29	4.28	113.12	26.54	113.29	22.05	113.54	21.62	113.05	25.13	111.24	55.46	111.21	53.18	110.17	52.72	107.85	107.77	108.19	108.10	111.04	39.44	111.04	39.44
01	09ECCS1-EP SRV Electric Lift	0 sec	240 min	116.09	2.06	111.88	2.14	112.05	2.13	112.31	2.13	111.80	2.14	109.98	2.17	109.95	2.17	108.89	2.19	106.55	2.24	106.89	2.24	109.78	2.18	109.78	2.18
08	ESW Lockout Matrix	2nd sec	240 min									111.79	2.70	110.00	2.66	111.03	0.38	109.99	0.38	107.68	0.37	108.02	0.37	110.87	0.38	110.87	0.38
07	Standby Gas Treat Cont A	0.1 sec	240 min			110.24	5.98	112.59	1.46	112.84	1.46	112.34	1.46	110.55	1.43	110.52	1.43	109.49	1.42	107.18	1.39	107.52	1.39	110.35	1.43	110.35	1.43
09	94EHC Main Turbine EHC Panel	0.1st sec	240 min			111.96	0.86	112.13	0.86	112.38	0.86	111.88	0.86	110.09	0.84	110.07	0.84	109.04	0.83	108.74	0.82	107.08	0.82	109.90	0.84	109.90	0.84
10	94-1TEHN05 Main Turb. MasterTrip	0.1st sec	240 min			112.64	0.58	112.80	0.58	113.45	0.11	112.95	0.11	111.14	0.11	111.12	0.11	110.08	0.11	107.78	0.11	108.10	0.11	110.95	0.11	110.95	0.11
13	38MOV-VB1	2nd min	3rd min 48 sec																								
	38MOV-VB1 Control	2nd min	3rd min 48 sec																								
	38MOV-VB1 Continuos Cntl & Htr	0 sec	240 min	116.63	0.51	112.49	0.49	112.65	0.49	112.91	0.49	112.41	0.49	110.61	0.48	110.59	0.48	109.55	0.48	107.24	0.47	107.58	0.47	110.42	0.48	110.42	0.48
20	Panel 71HO1			117.19	0.24	111.05	5.23	111.21	5.24	111.46	5.25	110.97	5.23	109.20	5.15	109.17	5.15	108.15	5.10	103.93	9.87	104.26	9.90	110.88	0.42	110.88	0.42
22	Panel 71HO3			117.10	0.72	111.64	5.76	111.81	5.77	112.06	5.78	111.57	5.76	109.78	5.66	109.76	5.66	108.73	5.61	99.17	33.75	99.48	33.86	110.76	1.11	110.76	1.11
23	600V SWGR 71L13			117.10	0.28	112.94	0.27	113.10	0.27	113.36	0.27	112.25	1.15	89.33	31.80	89.31	31.79	88.47	31.50	88.61	30.83	88.89	30.93	89.17	31.75	89.17	31.75
24	Panel 71HO7			117.16	0.48	111.69	5.24	111.86	5.25	112.11	5.26	111.61	5.24	109.83	5.15	109.81	5.15	108.78	5.11	100.22	27.92	100.54	28.01	110.84	0.73	110.84	0.73
71DC-A4				117.29	1.82	113.54	4.92	113.59	4.92	113.83	4.93	113.43	4.92	112.44	4.89	111.85	13.05	108.19	88.67	105.40	88.02	105.73	88.29	106.68	89.07	106.68	89.07
02	Force Paralleling Cntl Pnl 93FPAC	4.35th sec	240 min																								
04	Main Generator Excitation	0.1 sec	1 min			105.83	2.21	105.87	2.21	106.10	2.22	105.72	2.21	104.80	2.19	104.26	2.18	98.98	2.07	98.24	2.05	98.55	2.06	99.43	2.08	99.43	2.08
08	Panel 71HO5			117.26	1.10	113.48	1.97	113.52	1.97	113.78	1.98	113.36	1.97	112.38	1.95	111.79	1.94	106.13	1.84	105.34	1.83	105.67	1.83	106.62	1.85	106.62	1.85
11	Panel 93ECP-A	2.5th sec	240 min	117.22	0.34	113.46	0.35	113.51	0.35	113.75	0.35	113.35	0.35	112.38	0.35	110.90	4.28	98.79	42.00	96.07	41.69	98.38	41.82	97.24	42.19	97.24	42.19
	93GS-5A Boost pump	2.8th sec	4.2 sec															94.99	33.04	94.28	32.79	94.58	32.90	95.43	33.19	95.43	33.19
	93GS-5A Boost pump	239min	239min & 2 sec																								
	93P-4A Fuel oil pump	2.8th sec	240 min															96.62	4.83	95.90	4.79	96.20	4.81	97.07	4.85	97.07	4.85
	Pnl 93EGP-A	6.1st sec	9.1sec																								
	(EDG "A" Field Flash)	239min & 3.6sec	239min & 6.6sec																								
	93P/S-A	0 sec	240 min	117.04	0.34	113.27	0.35	113.32	0.35	113.56	0.35	113.16	0.35	112.17	0.35	110.71	0.35	96.57	0.41	95.85	0.41	96.15	0.41	97.02	0.40	97.02	0.40
12	Panel 93ECP-C	2.5 sec	240 min	117.22	0.38	113.47	0.39	113.52	0.39	113.76	0.39	113.35	0.39	112.37	0.40	111.01	4.67	98.47	42.76	97.73	42.45	98.04	42.58	98.92	42.95	98.92	42.95
	93GS-5C Boost pump	2.8th sec	4.2 sec															96.63	33.81	95.91	33.36	96.22	33.47	97.08	33.77	97.08	33.77
	93GS-5C Boost pump	N/A	N/A																								
	93P-4C Fuel oil pump	2.8th sec	240 min															98.29	4.91	97.55	4.88	97.86	4.89	98.74	4.94	98.74	4.94
	Pnl 93EGP-C	6.1st sec	9.1 sec																								
	(EDG "C" Field Flash)	N/A	N/A																								
	93P/S-C	0 sec	240 min	117.04	0.38	113.28	0.39	113.33	0.39	113.57	0.39	113.17	0.39	112.18	0.40	110.82	0.40	98.25	0.45	97.51	0.46	97.83	0.46	98.71	0.45	98.71	0.45
71DC-A5				115.04	26.15	111.40	27.02	111.45	27.01	111.69	26.94	111.28	27.05	110.27	27.30	110.18	27.32	109.10	27.60	108.25	27.82	108.61	27.73	109.63	27.46	109.63	27.46
01	ECCS Cab Power Pnl 09-95	0 sec	240 min	114.10	6.74	110.43	6.97	110.48	6.96	110.73	6.95	110.31	6.97	109.29	7.04	109.20	7.04	108.11	7.12	107.25	7.17	107.61	7.15	108.64	7.08	108.64	7.08
02	Feedwater Inverter 06INV-1A	0 sec	240 min	114.01	1.17	110.33	1.21	110.38	1.21	110.63	1.21	110.21	1.21	109.19	1.22	109.10	1.22	108.01	1.24	107.15	1.25	107.51	1.24	108.54	1.23	108.54	1.23
05	HPCI Relay Logic Pnl 09-32	0 sec	240 min	115.01	0.20	111.37	0.20	111.41	0.20	111.66	0.20	111.25	0.20	110.24	0.20	110.15	0.20	109.07	0.19	108.22	0.19	108.58	0.19	109.59	0.19	109.59	0.19
07	CRD 09ARI-2 Isolation Rly Pnl	10 sec	240 min																								
	03SOV-201	10 sec	240 min																								
09	27MAP Panel	0 sec	240 min	113.56	4.40	109.86	4.55	109.91	4.55	110.16	4.54	109.74	4.56	108.72	4.60	108.63	4.60	107.53	4.65	106.67	4.69	107.03	4.67	108.07	4.63	108.07	4.63
18	71INV-1A	0 sec	240 min	112.54	13.62	108.82	14.09	108.86	14.08	109.12	14.05	108.70	14.11	107.68	14.24	107.57	14.25	106.46	14.40	105.59	14.52	105.96	14.47	107.00	14.33	107.00	14.33
71BMCC-1				117.36	0.89	113.80	0.87	113.84	0.87	114.09	0.87	111.96	36.03	110.99	35.72	110.90	35.69	109.86	35.35	109.05	35.09	110.69	8.74	111.68	8.68	111.68	8.68
OB2	13MOV-21	2nd sec	18.8th sec									97.81	34.82	96.97	34.52	96.89	34.49	95.98	34.17	95.27	33.92	107.62	7.55	108.65	7.48	108.65	7.48
	13MOV-21 Control	2nd sec	18.8th sec									111.22	0.52	110.26	0.51	110.17	0.51	109.14	0.51	108.33	0.50	109.96	0.51	110.95	0.52	110.95	0.52
	13MOV-21 Continuos Control	0 sec	240 min	117.12	0.17	113.56	0.17	113.61	0.17	113.85	0.17																
OC1	13MOV-27 Open	14th sec	18.9th sec																								
	13MOV-27 Control	14th sec	18.9th sec																								
	13MOV-27 Close	19th sec	25.7th sec																								
	13MOV-27 Control	19th sec	25.7th sec																								
	13MOV-27 Continuos Control	0 sec	240 min	116.30	0.18	112.77	0.17	112.82	0.17	113.08	0.17	110.95	0.17	109.99	0.17	109.90	0.17	108.88	0.17	108.08	0.17	109.69	0.17	110.68	0.17	110.68	0.17
OC2	13MOV-30 Open	30 min	30 min 31.4 sec																								
	13MOV-30 Control	30 min	30 min 31.4 sec																								
	13MOV-30 Continuous Control	0 sec	240 min	116.88	0.18	113.14	0.18	113.18	0.18	113.42	0.18	111.31	0.17	110.34	0.17	110.26	0.17	109.22	0.17	108.41	0.17	110.04	0.17	111.03	0.17	111.03	0.17
OE1	13P-3	10th sec	240 min																								
	13P-3 Control	10th sec	240 min																								
	13P-3 Continuos Control	0 sec	10th sec	116.77	0.18	113.23	0.18	113.27	0.18	113.51	0.18	111.40	0.17	110.43	0.17	110.35	0.17	109.31	0.17	108.50	0.17	110.13	0.17	111.12	0.17	111.12	0.17
OE2	13P-4	14th sec	240 min																								
	13P-4 Control	14th sec	240 min																								
	13P-4 Continuos Control	0 sec	14th sec	116.77	0.18	113.23	0.18	113.27	0.18	113.51	0.18	111.40	0.17	110.43	0.17	110.35	0.17	109.31	0.17	108.50	0.17	110.13	0.17	111.12	0.17	111.12	0.17
71BMCC-3				117.36	0.34	113.80	0.33	113.84	0.33	114.09	0.33	113.68	0.33	112.69	0.33	112.61	0.33	111.55	0.33	110.72	0.32	111.07	0.32	112.07	0.33	112.07	0.33
OB1	13MOV-131	10th sec	27.4th sec																								
	13MOV-131 Control	10th sec	27.4th sec																								
	13MOV-131 Continuos Control	0 sec	240 min	116.79	0.17	113.25	0.17	113.29	0.17	113.53	0.17	113.13	0.17	112.15	0.16	112.06	0.16	111.01	0.16	110.19	0.16	110.54	0.16	111.53	0.16	111.53	0.16
OB2	13MOV-132	10th sec	23th sec																								
	13MOV-132 Control	10th sec	23th sec																								
	13MOV-132 Continuos Control	0 sec	240 min	116.70	0.17	113.16	0.17	113.21	0.17	113.45	0.17	113.05	0.17	112.06	0.16	111.98	0.16	110.93	0.16	110.10	0.16	110.45	0.16	111.44	0.16	111.44	0.16
71H01				117.19	0.24	111.05	5.23	111.21	5.24	111.46	5.25	110.97	5.23	109.20	5.15	109.17	5.15	108.15	5.10	103.93	9.87	104.26	9.90	110.88	0.42	110.88	0.42
	4KV Swgr Bkr 71-10102	0.1 sec	3.1st sec			100.20	4.81	100.35	4.82	100.57	4.83	100.13	4.81	98.53	4.73	98.51	4.73	97.58	4.68	93.78	4.50	94.08	4.52				
	4KV Swgr Bkr 71-10110	3rd sec	3.1st sec																	103.62	4.97	103.94	4.99				
	4KV Swgr Bkr 71-10112	N/A	N/A																								
	Bus 10100 Undervoltage Oper	0.1st sec	240 min			110.69	0.20	110.85	0.20	111.10	0.20	110.61	0.20	108.84	0.19	108.82	0.19	107.80	0.19	103.60	0.19	103.93	0.19	110.52	0.20	110.52	0.20
	71H01 Continuous Control	0 sec	240 min	116.76	0.24	110.64	0.23	110.80	0.23	111.05	0.23	110.56	0.23	108.79	0.22	108.77	0.22	107.75	0.22	103.55	0.21	103.88	0.21	110.47	0.23	110.47	0.23
71H03				117.10	0.72	111.64	5.76	111.81	5.77	112.06	5.78	111.57	5.76	109.78	5.66	109.76	5.66	108.73	5.61	99.17	33.75	99.48	33.86	110.76	1.11	110.76	1.11
	4KV Swgr Bkr 71-10302 trip	0.1sec	3.1st sec			101.24	4.86	101.39	4.87	101.62	4.88	101.17	4.86	99.55	4.78	99.53	4.78	98.60	4.73	89.93	4.32	90.21	4.33				
	4KV Swgr Bkr 71-10304 trip	8.7th sec	8.8th sec																								
	4KV Swgr Bkr 71-10310 trip	3rd sec	3.1st sec																	98.69	4.74	99.00	4.75				
	86U- 37P-8A UV Trip Aux Relay	3rd sec	240th min																	99.08	0.05	99.40	0.05	110.66	0.06	110.66	0.06
	4KV Swgr Bkr 71-10312 trip	N/A	N/A																								
	4KV Swgr Bkr 71-10320 trip	3rd sec	3.1st sec																	98.70	4.74	99.02	4.75				
	86U- 46P-1A UV Trip Aux Relay	3rd sec	240th min																	99.08	0.05	99.40	0.05	110.66	0.06	110.68	0.06
	4KV Swgr Bkr 71-10330 trip	3rd sec	3.1st sec																	98.63	4.73	98.95	4.75				
	4KV Swgr Bkr 71-10340 trip	3rd sec	3.1st sec																	98.87	4.75	99.18	4.76				
	4KV Swgr Bkr 71-10350 trip	3rd sec	3.1st sec																	98.65	4.74	98.96	4.75				
	86U- 33P-9A UV Trip Aux Relay	3rd sec	240th min																	99.08	0.05	99.39	0.05	110.66	0.06	110.66	0.06
	4KV Swgr Bkr 71-10360 trip	3rd sec	3.1st sec																	98.94	4.75	99.25	4.76				
	86U- 37P-2A UV Trip Aux Relay	3rd sec	240th min																	99.08	0.05	99.39	0.05	110.66	0.06	110.66	0.06
	Bus 10300 Undervoltage Oper	0.1st sec	240 min			111.25	0.21	111.41	0.21	111.66	0.21	111.17	0.21	109.39	0.21	109.37	0.21	108.34	0.21	98.82	0.19	99.13	0.19	110.38	0.21	110.38	0.21
	71H03 Continuous Control	0 sec	240 min	115.77	0.72	110.37	0.69	110.53	0.69	110.78	0.69	110.29	0.69	108.53	0.67	108.50	0.67	107.49	0.67	98.04	0.61	98.35	0.61	109.49	0.68	109.49	0.68
71H05				117.26	1.10	113.48	1.97	113.52	1.97	113.76	1.98	113.36	1.97	112.38	1.95	111.79	1.94	106.13	1.84	105.34	1.83	105.67	1.83	106.62	1.85	106.62	1.85
	4KV Swgr Bkr 71-10502 close	9.7th sec	9.8th sec																								
	Breaker Charging Motor Current	9.9th sec	14.7 sec																								
	K10 EDG A Egn. Failure	9.7th sec	239 min																								
	4KV Swgr Bkr 71-10502 trip	9.7th sec	9.8th sec																								
	4KV Swgr Bkr 71-10502 close	239th min 7.2 sec	239th min 7.3 sec																								
	Breaker Charging Motor Current	239th min 7.4 sec	239th min 12.2 sec																								
	4KV Swgr Bkr 71-10510 trip	N/A	N/A																								
	4KV Swgr bkr 71-10512 close	9.7th sec	9.8h sec																								
	Breaker Charging Motor Current	9.9th sec	14.7sec																								
	K10 EDG C Egn. Failure	9.7th sec	239 min																								
	4KV Swgr bkr 71-10512 trip	9.7th sec	9.8th sec																								
	4KV Swgr Bkr 71-10514 trip	8.7th sec	8.8th sec																								
	4KV Swgr Bkr 71-10520 trip	N/A	N/A																								
	4KV Swgr Bkr 71-10530 trip	N/A	N/A																								
	4KV Swgr Bkr 71-10530 close	N/A	N/A																								
	4KV Swgr Bkr 71-10540 trip	N/A	N/A																								
	4KV Swgr Bkr 71-10540 close	N/A	N/A																								
	4KV Swgr Bkr 71-10550 close	N/A	N/A																								
	Breaker Charging Motor Current	N/A	N/A																								
	4KV Swgr Bkr 71-10550 trip	N/A	N/A																								
	4KV Swgr Bkr 71-10560	N/A	N/A																								
	K8- EDG-A&C Tie Brk Closing Rel	4.4th sec	4.5th sec																								
	4KV Swgr Bkr 71-10504 close	4.5th sec	4.6th sec																								
	Breaker Charging Motor Current	4.7th sec	9.5th sec																								
	62-EDG-A&C Brk Closing Rel	9.5th sec	10.7th sec																								
	62X-EDG-A&C Brk Closing Rel	9.5th sec	10.7th sec																								
	K9 Gen Tie to EDG-A&C (Trip)	9.8th sec	239 min																								
	4KV Swgr Bkr 71-10504 trip	9.8th sec	9.9th sec																								
	Emer Bus 10500 Undervoltage	0.1 sec	239th min 7.3 sec			110.44	0.90	110.49	0.90	110.72	0.90	110.33	0.90	109.37	0.89	108.80	0.89	103.29	0.84	102.52	0.84	102.85	0.84	103.77	0.85	103.77	0.85
	71H05 Continuous Control	0 sec	240 min	113.55	1.10	109.89	1.07	109.93	1.07	110.16	1.07	109.77	1.07	108.82	1.08	108.25	1.05	102.77	1.00	102.00	0.99	102.33	0.99	103.24	1.00	103.24	1.00
71H07				117.10	0.48	111.04	5.24	111.21	5.25	111.46	5.26	110.97	5.24	109.19	5.15	109.17	5.15	108.14	5.11	96.77	27.92	97.07	28.01	110.75	0.73	110.75	0.73
	4KV Swgr Bkr 71-10702 trip	0.1sec	3.1st sec			99.78	4.79	99.93	4.80	100.15	4.81	99.71	4.79	98.12	4.71	98.10	4.71	97.18	4.66	86.95	4.17	87.23	4.19				
	4KV Swgr Bkr 71-10710 trip	3rd sec	3.1st sec																	96.26	4.62	96.57	4.64				
	33PP-8C UV Trip Aux Relay	3rd sec	240th min																	96.68	0.05	96.98	0.05	110.65	0.06	110.65	0.06
	4KV Swgr Bkr 71-10720 trip	3rd sec	3.1st sec																	96.26	4.62	96.57	4.64				
	46P-1C UV Trip Aux Relay	3rd sec	240th min																	96.68	0.05	96.99	0.05	110.65	0.06	110.65	0.06
	4KV Swgr Bkr 71-10730 trip	3rd sec	3.1st sec																	96.29	4.62	96.59	4.64				
	4KV Swgr Bkr 71-10740 trip	3rd sec	3.1st sec																	96.27	4.62	96.58	4.64				
	33P-9C UV Trip Aux Relay	3rd sec	240th min																	96.68	0.05	96.99	0.05	110.65	0.06	110.65	0.06
	4KV Swgr Bkr 71-10750 trip	3rd sec	3.1st sec																	96.26	4.62	96.57	4.64				
	37P-2C UV Trip Aux Relay	3rd sec	240th min																	96.68	0.05	96.98	0.05	110.65	0.06	110.65	0.06
	Bus 10700 Undervoltage	3rd sec	240th min																	96.67	0.05	96.97	0.05	110.64	0.06	110.64	0.06
	71H07 Continuous Control	0 sec	240 min	116.19	0.48	110.18	0.45	110.35	0.45	110.59	0.45	110.11	0.45	108.35	0.44	108.32	0.44	107.31	0.44	96.02	0.39	96.32	0.40	109.90	0.45	109.90	0.45
71L13				117.10	0.28	112.94	0.27	113.10	0.27	113.36	0.27	112.25	1.15	89.33	31.80	89.31	31.79	88.47	31.50	88.61	30.83	88.89	30.93	89.17	31.75	89.17	31.75
	600v Bkr # 11316 52X energize	2nd sec	4.4th sec									110.44	0.88	87.89	0.70	87.87	0.70	87.05	0.70	85.21	0.68	85.48	0.68	87.74	0.70	87.74	0.70
	600v Bkr # 11316 52/CC close	2.1st sec	4.4th sec											87.74	30.89	87.72	30.88	86.90	30.59	85.07	29.95	85.34	30.04	87.59	30.83	87.59	30.83
	71L23 Continuous Control	0 sec	240 min	116.52	0.28	112.39	0.27	112.55	0.27	112.80	0.27	111.70	0.27	88.89	0.21	88.87	0.21	88.04	0.21	88.19	0.21	86.46	0.21	88.74	0.21	88.74	0.21
71L25				116.81	0.20	113.19	0.19	113.23	0.19	113.47	0.19	112.86	1.08	103.13	36.93	103.05	36.90	102.08	36.55	101.21	36.24	101.53	36.35	102.44	36.68	102.44	36.68
	600v Bkr #12510 52X energize	2nd sec	6.4 sec									111.08	0.89	101.51	0.81	101.43	0.81	100.47	0.80	99.61	0.80	99.93	0.80	100.83	0.81	100.83	0.81
	600v Bkr #12510 52/CC close	2.1st sec	6.4 sec											102.11	35.94	102.03	35.91	101.07	35.58	100.20	35.27	100.52	35.38	101.43	35.70	101.43	35.70
	71L25 Continuous Control	0 sec	240 min	116.42	0.20	112.81	0.19	112.85	0.19	113.09	0.19	112.48	0.19	102.78	0.17	102.70	0.17	101.74	0.17	100.87	0.17	101.19	0.17	102.10	0.17	102.10	0.17

Load Voltage & Current (Seconds) — 4th to 7th

Source Panel	Load	4th Voltage	4th Current	4.1st Voltage	4.1st Current	4.2nd Voltage	4.2nd Current	4.35th Voltage	4.35th Current	4.4th Voltage	4.4th Current	4.5th Voltage	4.5th Current	4.6th Voltage	4.6th Current	4.7th Voltage	4.7th Current	5th Voltage	5th Current	5.7th Voltage	5.7th Current	5.8th Voltage	5.8th Current	6th Voltage	6th Current	6.01st Voltage	6.01st Current	6.1st Voltage	6.1st Current	6.4th Voltage	6.4th Current	7th Voltage	7th Current
BATTERY 71SB-1		114.42	535.71	114.42	535.71	115.48	435.77	115.60	418.42	115.61	417.76	115.80	390.83	115.80	390.84	115.42	443.38	115.44	441.57	115.44	441.57	115.73	400.35	115.53	428.79	115.54	427.38	114.89	498.22	114.89	498.22	115.29	462.29
71BCB-2A		112.78	535.71	112.78	535.71	114.15	435.77	114.32	418.42	114.33	417.76	114.61	390.83	114.61	390.84	114.07	443.38	114.09	441.57	114.09	441.57	114.51	400.35	114.22	428.79	114.23	427.38	113.37	498.22	113.37	498.22	113.87	462.29
A02	71LPERDC1 Emer Ltg Pnl	108.85	16.31	108.85	16.31	110.16	16.50	110.33	16.53	110.34	16.53	110.61	16.57	110.61	16.57	110.09	16.49	110.10	16.49	110.10	16.49	110.51	16.55	110.23	16.51	110.24	16.51	109.41	16.39	109.41	16.39	109.90	16.46
A03	71LPERDC2 Emer Ltg Pnl	107.80	9.13	107.80	9.13	109.10	9.24	109.27	9.26	109.28	9.26	109.54	9.28	109.54	9.28	109.03	9.23	109.04	9.24	109.04	9.24	109.45	9.27	109.17	9.25	109.18	9.25	108.36	9.18	108.38	9.18	108.84	9.22
A04	Panel 71DC-A4	110.27	41.14	110.27	41.14	111.65	40.92	112.88	23.68	112.93	23.01	112.88	28.37	112.88	28.39	109.16	80.49	109.18	80.43	109.18	80.43	112.10	39.55	111.80	39.58	111.82	39.58	106.67	109.90	106.67	109.90	107.15	110.16
A05	71LPEADC1 Emer Ltg Pnl	106.54	17.51	106.54	17.51	107.83	17.72	108.00	17.75	108.01	17.75	108.27	17.79	108.27	17.79	107.78	17.71	107.78	17.71	107.78	17.71	108.18	17.77	107.90	17.73	107.91	17.73	107.10	17.60	107.10	17.60	107.57	17.68
A06	71BMCC-3	112.74	0.33	112.74	0.33	114.10	0.33	114.28	0.33	114.29	0.33	114.56	0.33	114.56	0.33	114.02	0.33	114.04	0.33	114.04	0.33	114.47	0.33	114.17	0.33	114.19	0.33	113.33	0.33	113.33	0.33	113.83	0.33
A07	71LPESWDC1 Emer Ltg Pnl	110.76	6.88	110.76	6.88	112.09	6.97	112.27	6.98	112.28	6.98	112.55	6.99	112.55	6.99	112.02	6.96	112.03	6.96	112.03	6.96	112.45	6.99	112.16	6.97	112.18	6.97	111.33	6.92	111.33	6.92	111.83	6.95
B02	Panel 71DC-A1	112.24	10.72	112.24	10.72	113.59	10.83	113.77	10.84	113.78	10.84	114.05	10.86	114.05	10.86	113.51	10.82	113.53	10.82	113.53	10.82	113.96	10.85	113.68	10.83	113.68	10.83	112.82	10.77	112.82	10.77	113.32	10.81
B03	Panel 71DC-A2	109.64	50.22	109.64	50.22	110.97	50.73	111.15	50.80	111.16	50.80	111.43	50.90	111.43	50.90	110.90	50.70	111.02	48.97	111.02	48.97	111.44	49.13	109.39	77.20	109.49	75.81	108.67	75.30	108.67	75.30	111.39	39.71
B04	Panel 71DC-A3	111.71	39.65	111.71	39.65	113.06	40.07	113.24	40.13	113.25	40.13	114.39	8.06	114.39	8.06	113.85	8.05	113.87	8.05	113.87	8.05	114.29	8.06	114.00	8.05	114.01	8.05	113.16	8.02	113.16	8.02	113.68	8.04
B05	71BMCC-1	112.36	8.64	112.36	8.64	113.73	8.56	113.91	8.55	113.91	8.55	114.19	8.54	114.19	8.54	113.65	8.57	113.67	8.57	113.67	8.57	114.09	8.54	113.80	8.56	113.81	8.56	112.95	8.61	112.95	8.61	113.45	8.58
B06	71LPE1 Emer Ltg Pnl	110.54	10.85	110.54	10.85	111.87	10.98	112.05	11.00	112.06	11.00	112.33	11.03	112.33	11.03	111.80	10.98	111.82	10.98	111.82	10.98	112.23	11.02	111.94	10.99	111.96	10.99	111.12	10.91	111.12	10.91	111.61	10.96
C01	Panel 71DC-A5	110.32	27.29	110.32	27.29	111.71	26.94	111.89	26.89	111.90	26.89	112.18	26.82	112.18	26.82	111.63	26.96	111.65	26.95	111.65	26.95	112.08	26.85	111.78	26.92	111.80	26.92	110.92	27.14	110.92	27.14	111.43	27.01
C03	71UPS-1	108.13	129.93	108.13	129.93	110.81	93.13	111.00	92.98	111.00	92.97	111.29	92.73	111.29	92.73	110.73	93.20	110.75	93.18	110.75	93.18	111.19	92.82	110.89	93.07	110.90	93.06	110.02	93.81	110.02	93.81	110.53	93.37
D01	31P-7A RFPT Oil Pump																																
	31P-7A RFPT Oil Pump Control																																
	31P-7A RFPT Continuous Control	112.76	0.23	112.76	0.23	114.12	0.24	114.30	0.24	114.30	0.24	114.58	0.24	114.58	0.24	114.04	0.24	114.06	0.24	114.06	0.24	114.48	0.24	114.19	0.24	114.20	0.24	113.34	0.24	113.34	0.24	113.85	0.24
D02	94P-13 Seal Oil Pump	98.21	146.21	98.21	146.21	106.00	81.68	106.20	81.53	106.20	81.52	106.50	81.29	106.50	81.29	105.92	81.74	105.94	81.73	105.94	81.73	106.40	81.37	106.08	81.62	106.10	81.61	105.16	82.33	105.16	82.33	105.71	81.91
	94P-13 Seal Oil Pump Control	109.99	1.32	109.99	1.32	111.32	1.33	111.50	1.33	111.50	1.33	111.77	1.34	111.77	1.34	111.25	1.33	111.27	1.33	111.27	1.33	111.68	1.34	111.39	1.33	111.41	1.33	110.57	1.32	110.57	1.32	111.06	1.33
	94P-13 Continuous Control																																
N/A	Continuous control	112.78	19.36	112.78	19.36	114.15	19.60	114.32	19.63	114.33	19.63	114.61	19.67	114.61	19.67	114.07	19.58	114.09	19.58	114.09	19.58	114.51	19.66	114.22	19.61	114.23	19.61	113.37	19.46	113.37	19.46	113.87	19.55
71DC-A1		112.24	10.72	112.24	10.72	113.59	10.83	113.77	10.84	113.78	10.84	114.05	10.86	114.05	10.86	113.51	10.82	113.53	10.82	113.53	10.82	113.96	10.85	113.68	10.83	113.68	10.83	112.82	10.77	112.82	10.77	113.32	10.81
02	1UPRN07 Unit & NSS Transf BU Prot	109.05	9.39	109.05	9.39	110.37	9.51	110.54	9.52	110.55	9.52	110.82	9.55	110.82	9.55	110.29	9.50	110.31	9.50	110.31	9.50	110.72	9.54	110.44	9.51	110.45	9.51	109.62	9.44	109.62	9.44	110.11	9.48
05	71DTR Digital Transient Recorder	111.53	1.12	111.53	1.12	112.90	1.11	113.08	1.11	113.08	1.11	113.36	1.10	113.36	1.10	112.82	1.11	112.84	1.11	112.84	1.11	113.28	1.10	112.97	1.11	112.98	1.11	112.12	1.11	112.12	1.11	112.62	1.11
08	115kV Line 4 Sta UV Trip Bus A																																
12	71PCB-10052 Bkr Alt. 1 Failure	112.22	0.03	112.22	0.03	113.58	0.03	113.76	0.03	113.76	0.03	114.04	0.03	114.04	0.03	113.50	0.03	113.52	0.03	113.52	0.03	113.94	0.03	113.65	0.03	113.66	0.03	112.81	0.03	112.81	0.03	113.31	0.03
14	345kV Bkr 71PCB-10042 Trip																																
19	71PCB-10042 Bkr Alt. 1 Failure	112.22	0.03	112.22	0.03	113.58	0.03	113.75	0.03	113.76	0.03	114.04	0.03	114.04	0.03	113.50	0.03	113.52	0.03	113.52	0.03	113.94	0.03	113.65	0.03	113.66	0.03	112.80	0.03	112.80	0.03	113.30	0.03
21	345kV Bkr 71PCB-10052 Trip																																
	Comp's. 08, 14 & 21 Continuous Cntl	112.16	0.15	112.16	0.15	113.52	0.15	113.70	0.15	113.70	0.15	113.98	0.15	113.98	0.15	113.44	0.15	113.46	0.15	113.46	0.15	113.88	0.15	113.59	0.15	113.60	0.15	112.75	0.15	112.75	0.15	113.25	0.15
71DC-A2		109.64	50.22	109.64	50.22	110.97	50.73	111.15	50.80	111.16	50.80	111.43	50.90	111.43	50.90	110.90	50.70	111.02	48.97	111.02	48.97	111.44	49.13	109.39	77.20	109.49	75.81	108.67	75.30	108.67	75.30	111.39	39.71
01	RPS BU Scram 03SOV-140A	109.21	0.19	109.21	0.19	110.53	0.20	110.71	0.20	110.71	0.20	110.98	0.20	110.98	0.20	110.46	0.20	110.58	0.20	110.58	0.20	111.00	0.20	108.96	0.19	109.06	0.19	108.23	0.19	108.23	0.19	110.95	0.20
03	Core Spray Channel A Logic																																
04	RHR Channel A Logic																																
08	RFPT 31FPD-5A Trip 31SOV-12A	106.17	0.82	106.17	0.82	107.46	0.83	107.63	0.83	107.64	0.83	107.90	0.83	107.90	0.83	107.39	0.83	107.51	0.83	107.51	0.83	107.91	0.83	105.93	0.82	106.03	0.82	105.23	0.81	105.23	0.81	107.88	0.83
09	Relay Cab. Ch.A RCIC Pnl	109.14	2.60	109.14	2.60	110.48	2.60	110.65	2.60	110.66	2.60	110.93	2.60	110.93	2.60	110.40	2.60	110.53	2.60	110.53	2.60	110.94	2.60	108.89	2.60	108.99	2.60	108.17	2.60	108.17	2.60	110.89	2.60
	Power Supply 13TU-3-13	109.14	1.32	109.14	1.32	110.48	1.31	110.65	1.30	110.66	1.30	110.93	1.30	110.93	1.30	110.40	1.31	110.53	1.31	110.53	1.31	110.94	1.30	108.89	1.32	108.99	1.32	108.17	1.33	108.17	1.33	110.89	1.30
10	RCIC & HPCI Misc. Loads	108.99	2.76	108.99	2.76	110.33	2.75	110.50	2.75	110.51	2.75	110.78	2.75	110.78	2.75	110.25	2.75	110.38	2.75	110.38	2.75	110.79	2.75	108.74	2.76	108.84	2.76	108.01	2.76	108.01	2.76	110.74	2.75
	Inverter 13INV-153	108.99	1.73	108.99	1.73	110.33	1.71	110.50	1.71	110.51	1.71	110.78	1.70	110.78	1.70	110.25	1.71	110.38	1.71	110.38	1.71	110.79	1.70	108.74	1.73	108.84	1.73	108.01	1.75	108.01	1.75	110.74	1.70
	13SOV-12	108.56	0.12	108.56	0.12	109.89	0.12	110.06	0.12	110.07	0.12	110.34	0.12	110.34	0.12	109.81	0.12	109.94	0.12	109.94	0.12	110.35	0.12	108.31	0.12	108.41	0.12	107.59	0.12	107.59	0.12	110.30	0.12
11	02-184P-3A(M) RWR MG Set A Emer																							89.46	27.07	89.54	27.09	88.86	28.89	88.86	28.89	91.09	27.56
	02-184P-3A(M) RWR MG Set A Pmp																							108.06	1.82	108.57	0.37	107.74	0.36	107.74	0.36	110.47	0.37
	02-184P-3A(M) Continuous Control	108.94	0.07	108.94	0.07	110.28	0.07	110.45	0.07	110.46	0.07	110.73	0.07	110.73	0.07	110.20	0.07	110.33	0.07	110.33	0.07	110.74	0.07										
14	13INV-801A Steam Leak Det Sys	108.68	1.19	108.68	1.19	110.02	1.18	110.20	1.17	110.20	1.17	110.48	1.17	110.48	1.17	109.94	1.18	110.07	1.18	110.07	1.18	110.49	1.17	108.43	1.19	108.53	1.19	107.69	1.20	107.69	1.20	110.44	1.17
16	RCIC Valve Trip Sol 13TTS-1																																
18	Reac Recir M/G Set A Trip	108.42	1.75	108.42	1.75	109.74	1.78	109.91	1.78	109.92	1.78	110.18	1.78	110.18	1.78	109.68	1.77																
19	600V SWGR 71L25	102.96	36.87	102.96	36.87	104.21	37.31	104.37	37.37	104.38	37.37	104.63	37.47	104.63	37.47	104.14	37.29	104.26	37.33	104.26	37.33	104.64	37.47	102.72	36.78	102.82	36.82	102.04	36.54	102.04	36.54	111.38	0.19
22	ADS Panel 09-45 Load	109.33	3.98	109.33	3.98	110.66	4.02	110.83	4.03	110.84	4.03	111.11	4.04	111.11	4.04	110.58	4.02	110.71	4.03	110.71	4.03	111.12	4.04	109.08	3.97	109.18	3.97	108.35	3.94	108.35	3.94	111.07	4.04
	ADS Logic																																
	9 RV SOV's																																
	02SOV-71K1	105.88	0.97	105.88	0.97	107.17	0.98	107.34	0.98	107.34	0.98	107.60	0.98	107.60	0.98	107.09	0.98	107.22	0.98	107.22	0.98	107.62	0.98	105.64	0.97	105.74	0.97	104.94	0.96	104.94	0.96	107.57	0.98
	02SOV-71L1	105.71	0.97	105.71	0.97	107.00	0.98	107.17	0.98	107.17	0.98	107.43	0.98	107.43	0.98	106.92	0.98	107.05	0.98	107.05	0.98	107.45	0.98	105.47	0.97	105.57	0.97	104.77	0.96	104.77	0.96	107.40	0.98
	Relief Valve/ADS Continuous Cntl	109.33	2.04	109.33	2.04	110.66	2.06	110.83	2.07	110.84	2.07	111.11	2.07	111.11	2.07	110.58	2.06	110.71	2.06	110.71	2.06	111.12	2.07	109.08	2.03	109.18	2.04	108.35	2.02	108.35	2.02	111.07	2.07
71DC-A3		111.71	39.65	111.71	39.65	113.06	40.07	113.24	40.13	113.25	40.13	114.39	8.06	114.39	8.06	113.85	8.05	113.87	8.05	113.87	8.05	114.29	8.06	114.00	8.05	114.01	8.05	113.16	8.02	113.16	8.02	113.68	8.04
01	09ECCS1-EP SRV Electric Lift	110.45	2.16	110.45	2.16	111.82	2.14	112.00	2.13	112.01	2.13	113.16	2.11	113.16	2.11	112.62	2.12	112.63	2.12	112.63	2.12	113.06	2.11	112.77	2.12	112.78	2.12	111.91	2.14	111.91	2.14	112.42	2.13
08	ESW Lockout Matrix	111.53	0.38	111.53	0.38	112.88	0.39	113.06	0.39	113.06	0.39	114.21	0.39	114.21	0.39	113.67	0.39	113.69	0.39	113.69	0.39	114.11	0.39	113.82	0.39	113.83	0.39	112.97	0.39	112.97	0.39	113.47	0.39
07	Standby Gas Treat Cont A	111.02	1.44	111.02	1.44	112.36	1.46	112.54	1.46	112.54	1.46	113.68	1.47	113.68	1.47	113.14	1.47	113.16	1.47	113.16	1.47	113.58	1.47	113.29	1.47	113.31	1.47	112.45	1.46	112.45	1.46	112.95	1.46
09	94EHC Main Turbine EHC Panel	110.56	0.85	110.56	0.85	111.90	0.86	112.07	0.86	112.08	0.86	113.21	0.87	113.21	0.87	112.68	0.86	112.70	0.86	112.70	0.86	113.12	0.87	112.83	0.86	112.84	0.86	111.99	0.86	111.99	0.86	112.49	0.86
10	94-1TEHN05 Main Turb. MasterTrip	111.62	0.11	111.62	0.11	112.97	0.11	113.14	0.11	113.15	0.11	114.29	0.11	114.29	0.11	113.75	0.11	113.77	0.11	113.77	0.11	114.20	0.11	113.90	0.11	113.92	0.11	113.06	0.11	113.06	0.11	113.56	0.11
13	38MOV-VB1																																
	38MOV-VB1 Control																																
	38MOV-VB1 Continuos Cntl & Htr	111.08	0.48	111.08	0.48	112.43	0.49	112.60	0.49	112.61	0.49	113.75	0.49	113.75	0.49	113.21	0.49	113.23	0.49	113.23	0.49	113.65	0.49	113.36	0.49	113.37	0.49	112.52	0.49	112.52	0.49	113.02	0.49
20	Panel 71HO1	111.54	0.43	111.54	0.43	112.89	0.43	113.07	0.43	113.07	0.43	114.22	0.44	114.22	0.44	113.68	0.44	113.70	0.44	113.70	0.44	114.12	0.44	113.83	0.44	113.84	0.44	112.98	0.43	112.98	0.43	113.48	0.43
22	Panel 71HO3	111.42	1.12	111.42	1.12	112.77	1.13	112.95	1.14	112.95	1.14	114.09	1.15	114.09	1.15	113.56	1.14	113.57	1.14	113.57	1.14	114.00	1.15	113.71	1.14	113.72	1.14	112.86	1.13	112.86	1.13	113.36	1.14
23	600V SWGR 71L13	89.71	31.94	89.71	31.94	90.80	32.32	90.94	32.37	90.94	32.38	114.20	0.27	114.20	0.27	113.68	0.27	113.68	0.27	113.68	0.27	114.10	0.27	113.81	0.27	113.83	0.27	112.97	0.27	112.97	0.27	113.47	0.27
24	Panel 71HO7	111.51	0.74	111.51	0.74	112.86	0.75	113.03	0.75	113.04	0.75	114.18	0.76	114.18	0.76	113.64	0.75	113.66	0.75	113.66	0.75	114.09	0.75	113.79	0.75	113.81	0.75	112.95	0.75	112.95	0.75	113.45	0.75
71DC-A4		110.27	41.14	110.27	41.14	111.65	40.92	112.88	23.68	112.93	23.01	112.88	28.37	112.88	28.39	109.16	80.49	109.18	80.43	109.18	80.43	112.10	39.55	111.80	39.58	111.82	39.58	106.67	109.90	106.67	109.90	107.15	110.16
02	Force Paralleling Cntl Pnl 93FPAC							104.80	1.99	108.07	2.02	108.07	2.02	111.02	2.11	112.24	2.13	108.56	2.06	108.56	2.06	111.46	2.12	111.17	2.11	111.18	2.11	106.08	2.02	106.08	2.02	108.54	2.02
04	Main Generator Excitation	102.78	2.15	102.78	2.15	104.07	2.17	105.21	2.20	105.26	2.20	105.21	2.20	105.21	2.20	101.74	2.12	101.76	2.12	101.76	2.12	104.48	2.18	104.21	2.18	104.22	2.18	99.42	2.08	99.42	2.08	99.88	2.09
08	Panel 71HO5	110.21	1.91	110.21	1.91	111.59	1.94	112.82	1.96	112.86	2.04	112.66	6.65	112.66	6.57	107.25	58.69	107.28	58.71	107.28	58.71	111.52	17.74	111.23	17.78	111.24	17.77	106.07	18.47	106.07	18.47	106.56	18.40
11	Panel 93ECP-A	106.12	18.55	106.12	18.55	107.53	18.42	110.93	8.73	111.05	8.38	110.92	8.73	110.92	8.73	107.20	8.75	107.22	8.75	107.22	8.75	110.14	8.73	109.85	8.74	109.86	8.74	104.71	8.76	104.71	8.76	105.20	8.76
	93GS-5A Boost pump	105.59	9.80	105.59	9.80	107.00	9.87																										
	93GS-5A Boost pump																																
	93P-4A Fuel oil pump	105.97	4.30	105.97	4.30	107.38	4.25	110.78	4.12	110.90	4.11	110.77	4.12	110.77	4.12	107.05	4.26	107.07	4.26	107.07	4.26	109.99	4.15	109.70	4.16	109.71	4.16	104.55	4.36	104.55	4.36	105.04	4.34
	Pnl 93EGP-A																											105.52	34.68	105.52	34.68	106.00	34.84
	(EDG "A" Field Flash)																																
	93P/S-A	105.92	0.37	105.92	0.37	107.33	0.37	110.73	0.35	110.88	0.35	110.73	0.35	110.73	0.35	107.00	0.37	107.02	0.37	107.02	0.37	109.95	0.36	109.65	0.36	109.67	0.36	104.51	0.38	104.51	0.38	104.99	0.37
12	Panel 93ECP-C	108.93	18.52	108.93	18.52	108.33	18.39	111.30	8.78	111.41	8.38	111.29	8.78	111.29	8.78	107.57	8.79	107.59	8.79	107.59	8.79	110.51	8.78	110.22	8.78	110.23	8.78	105.08	8.81	105.08	8.81	105.56	8.80
	93GS-5C Boost pump	106.40	9.73	106.40	9.73	107.81	9.60																										
	93GS-5C Boost pump																																
	93P-4C Fuel oil pump	106.77	4.27	106.77	4.27	108.18	4.22	111.15	4.10	111.27	4.10	111.14	4.10	111.14	4.10	107.42	4.25	107.44	4.24	107.44	4.24	110.36	4.13	110.07	4.14	110.08	4.14	104.92	4.35	104.92	4.35	105.41	4.33
	Pnl 93EGP-C																											106.13	35.09	106.13	35.09	106.61	35.25
	(EDG "C" Field Flash)																																
	93P/S-C	106.73	0.42	106.73	0.42	108.13	0.41	111.11	0.40	111.23	0.40	111.10	0.40	111.10	0.40	107.37	0.41	107.40	0.41	107.40	0.41	110.32	0.40	110.03	0.40	110.04	0.40	104.88	0.42	104.88	0.42	105.36	0.42
71DC-A5		110.32	27.29	110.32	27.29	111.71	26.94	111.89	26.89	111.90	26.89	112.18	26.82	112.18	26.82	111.63	26.96	111.65	26.95	111.65	26.95	112.08	26.85	111.78	26.92	111.80	26.92	110.92	27.14	110.92	27.14	111.43	27.01
01	ECCS Cab Power Pnl 09-95	109.34	7.04	109.34	7.04	110.74	6.95	110.93	6.93	110.93	6.93	111.22	6.92	111.22	6.92	110.66	6.95	110.68	6.95	110.68	6.95	111.12	6.92	110.82	6.94	110.83	6.94	109.94	7.00	109.94	7.00	110.46	6.96
02	Feedwater Inverter 06INV-1A	109.24	1.22	109.24	1.22	110.64	1.21	110.83	1.21	110.84	1.21	111.12	1.20	111.12	1.20	110.56	1.21	110.58	1.21	110.58	1.21	111.02	1.20	110.72	1.21	110.73	1.21	109.84	1.22	109.84	1.22	110.36	1.21
05	HPCI Relay Logic Pnl 09-32	110.28	0.20	110.28	0.20	111.68	0.20	111.86	0.20	111.87	0.20	112.15	0.20	112.15	0.20	111.60	0.20	111.62	0.20	111.62	0.20	112.05	0.20	111.75	0.20	111.76	0.20	110.89	0.20	110.89	0.20	111.40	0.20
07	CRD 09ARI-2 Isolation Rly Pnl																																
	03SOV-201																																
09	27MAP Panel	108.76	4.60	108.76	4.60	110.18	4.54	110.36	4.53	110.37	4.53	110.66	4.52	110.66	4.52	110.10	4.54	110.12	4.54	110.12	4.54	110.56	4.52	110.25	4.54	110.27	4.53	109.38	4.57	109.38	4.57	109.90	4.55
18	71INV-1A	107.71	14.24	107.71	14.24	109.14	14.05	109.32	14.03	109.33	14.02	109.62	13.99	109.62	13.99	109.05	14.06	109.07	14.06	109.07	14.06	109.52	14.00	109.21	14.04	109.23	14.04	108.33	14.15	108.33	14.15	108.85	14.09
71BMCC-1		112.36	8.64	112.36	8.64	113.73	8.56	113.91	8.55	113.91	8.55	114.19	8.54	114.19	8.54	113.65	8.57	113.67	8.57	113.67	8.57	114.09	8.54	113.80	8.56	113.81	8.56	112.95	8.61	112.95	8.61	113.45	8.58
OB2	13MOV-21	109.34	7.43	109.34	7.43	110.75	7.34	110.93	7.32	110.94	7.32	111.22	7.31	111.22	7.31	110.67	7.34	110.68	7.34	110.68	7.34	111.12	7.31	110.82	7.33	110.83	7.33	109.95	7.39	109.95	7.39	110.46	7.36
	13MOV-21 Control	111.62	0.52	111.62	0.52	112.98	0.53	113.16	0.53	113.16	0.53	113.44	0.53	113.44	0.53	112.90	0.53	112.92	0.53	112.92	0.53	113.34	0.53	113.05	0.53	113.06	0.53	112.21	0.52	112.21	0.52	112.71	0.53
	13MOV-21 Continuos Control																																
OC1	13MOV-27 Open																																
	13MOV-27 Control																																
	13MOV-27 Close																																
	13MOV-27 Control																																
	13MOV-27 Continuos Control	111.35	0.17	111.35	0.17	112.70	0.17	112.88	0.17	112.89	0.17	113.16	0.18	113.16	0.18	112.62	0.17	112.64	0.17	112.64	0.17	113.06	0.17	112.77	0.17	112.79	0.17	111.93	0.17	111.93	0.17	112.43	0.17
OC2	13MOV-30 Open																																
	13MOV-30 Control																																
	13MOV-30 Continuous Control	111.70	0.17	111.70	0.17	113.06	0.17	113.24	0.18	113.25	0.18	113.52	0.18	113.52	0.18	112.99	0.17	113.00	0.17	113.00	0.17	113.43	0.18	113.13	0.18	113.15	0.18	112.29	0.17	112.29	0.17	112.79	0.17
OE1	13P-3																																
	13P-3 Control																																
	13P-3 Continuos Control	111.80	0.17	111.80	0.17	113.16	0.18	113.33	0.18	113.34	0.18	113.62	0.18	113.62	0.18	113.08	0.17	113.10	0.17	113.10	0.17	113.52	0.18	113.23	0.18	113.24	0.18	112.38	0.17	112.38	0.17	112.88	0.17
OE2	13P-4																																
	13P-4 Control																																
	13P-4 Continuos Control	111.80	0.17	111.80	0.17	113.16	0.18	113.33	0.18	113.34	0.18	113.62	0.18	113.62	0.18	113.08	0.17	113.10	0.17	113.10	0.17	113.52	0.18	113.23	0.18	113.24	0.18	112.38	0.17	112.38	0.17	112.88	0.17
71BMCC-3		112.74	0.33	112.74	0.33	114.10	0.33	114.28	0.33	114.29	0.33	114.56	0.33	114.56	0.33	114.02	0.33	114.04	0.33	114.04	0.33	114.47	0.33	114.17	0.33	114.19	0.33	113.33	0.33	113.33	0.33	113.83	0.33
OB1	13MOV-131																																
	13MOV-131 Control																																
	13MOV-131 Continuos Control	112.20	0.16	112.20	0.16	113.55	0.17	113.73	0.17	113.73	0.17	114.01	0.17	114.01	0.17	113.47	0.17	113.49	0.17	113.49	0.17	113.91	0.17	113.62	0.17	113.64	0.17	112.78	0.17	112.78	0.17	113.28	0.17
OB2	13MOV-132																																
	13MOV-132 Control																																
	13MOV-132 Continuos Control	112.11	0.16	112.11	0.16	113.46	0.17	113.64	0.17	113.65	0.17	113.92	0.17	113.92	0.17	113.39	0.17	113.40	0.17	113.40	0.17	113.83	0.17	113.54	0.17	113.55	0.17	112.70	0.17	112.70	0.17	113.19	0.17
71H01		111.54	0.43	111.54	0.43	112.89	0.43	113.07	0.43	113.07	0.43	114.22	0.44	114.22	0.44	113.68	0.44	113.70	0.44	113.70	0.44	114.12	0.44	113.83	0.44	113.84	0.44	112.98	0.43	112.98	0.43	113.48	0.43
	4KV Swgr Bkr 71-10102																																
	4KV Swgr Bkr 71-10110																																
	4KV Swgr Bkr 71-10112																																
	Bus 10100 Undervoltage Oper	111.18	0.20	111.18	0.20	112.53	0.20	112.70	0.20	112.71	0.20	113.85	0.20	113.85	0.20	113.31	0.20	113.33	0.20	113.33	0.20	113.75	0.20	113.46	0.20	113.48	0.20	112.62	0.20	112.62	0.20	113.12	0.20
	71H01 Continuous Control	111.13	0.23	111.13	0.23	112.47	0.23	112.65	0.23	112.66	0.23	113.79	0.23	113.79	0.23	113.26	0.23	113.28	0.23	113.28	0.23	113.70	0.23	113.41	0.23	113.42	0.23	112.57	0.23	112.57	0.23	113.06	0.23
71H03		111.42	1.12	111.42	1.12	112.77	1.13	112.95	1.14	112.95	1.14	114.09	1.15	114.09	1.15	113.56	1.14	113.57	1.14	113.57	1.14	114.00	1.15	113.71	1.14	113.72	1.14	112.86	1.13	112.86	1.13	113.36	1.14
	4KV Swgr Bkr 71-10302 trip																																
	4KV Swgr Bkr 71-10304 trip																																
	4KV Swgr Bkr 71-10310 trip																																
	86U- 37P-8A UV Trip Aux Relay	111.33	0.06	111.33	0.06	112.67	0.06	112.85	0.06	112.86	0.06	114.00	0.06	114.00	0.06	113.46	0.06	113.48	0.06	113.48	0.06	113.90	0.06	113.61	0.06	113.62	0.06	112.77	0.06	112.77	0.06	113.26	0.06
	4KV Swgr Bkr 71-10312 trip																																
	4KV Swgr Bkr 71-10320 trip																																
	86U- 46P-1A UV Trip Aux Relay	111.33	0.06	111.33	0.06	112.67	0.06	112.85	0.06	112.86	0.06	114.00	0.06	114.00	0.06	113.46	0.06	113.48	0.06	113.48	0.06	113.90	0.06	113.61	0.06	113.62	0.06	112.77	0.06	112.77	0.06	113.27	0.06
	4KV Swgr Bkr 71-10330 trip																																
	4KV Swgr Bkr 71-10340 trip																																
	4KV Swgr Bkr 71-10350 trip																																
	86U- 33P-9A UV Trip Aux Relay	111.32	0.06	111.32	0.06	112.67	0.06	112.85	0.06	112.85	0.06	113.99	0.06	113.99	0.06	113.45	0.06	113.47	0.06	113.47	0.06	113.89	0.06	113.60	0.06	113.62	0.06	112.76	0.06	112.76	0.06	113.26	0.06
	4KV Swgr Bkr 71-10360 trip																																
	86U- 37P-2A UV Trip Aux Relay	111.32	0.06	111.32	0.06	112.67	0.06	112.84	0.06	112.85	0.06	113.99	0.06	113.99	0.06	113.45	0.06	113.47	0.06	113.47	0.06	113.89	0.06	113.60	0.06	113.62	0.06	112.76	0.06	112.76	0.06	113.26	0.06
	Bus 10300 Undervoltage Oper	111.03	0.21	111.03	0.21	112.37	0.22	112.55	0.22	112.55	0.22	113.69	0.22	113.69	0.22	113.15	0.22	113.17	0.22	113.17	0.22	113.59	0.22	113.30	0.22	113.32	0.22	112.46	0.22	112.46	0.22	112.96	0.22
	71H03 Continuous Control	110.15	0.68	110.15	0.68	111.48	0.69	111.66	0.69	111.67	0.69	112.79	0.70	112.79	0.70	112.26	0.70	112.28	0.70	112.28	0.70	112.70	0.70	112.41	0.70	112.42	0.70	111.58	0.69	111.59	0.69	112.07	0.70
71H05		110.21	1.91	110.21	1.91	111.59	1.94	112.82	1.96	112.86	2.04	112.66	6.65	112.66	6.57	107.25	58.69	107.28	58.71	107.28	58.71	111.52	17.74	111.23	17.78	111.24	17.77	106.07	18.47	106.07	18.47	106.56	18.40
	K8- EDG-A&C Tie Brk Closing Rel									112.84	0.08	112.64	0.08																				
	4KV Swgr Bkr 71-10504 close											96.10	4.61	96.10	4.61																		
	Breaker Charging Motor Current (4.7th sec – 9.5th sec)															104.47	56.83	104.49	56.84	104.49	56.84	110.75	15.80	110.45	15.84	110.47	15.84	105.26	16.63	105.26	16.63	105.75	16.55
	Emer Bus 10500 Undervoltage	107.27	0.88	107.27	0.88	108.60	0.89	109.80	0.90	109.84	0.90	109.65	0.90	109.65	0.90	104.39	0.85	104.41	0.85	104.41	0.85	108.54	0.89	108.25	0.88	108.27	0.88	103.24	0.84	103.24	0.84	103.71	0.85
	71H05 Continuous Control	106.72	1.04	106.72	1.04	108.06	1.05	109.25	1.06	109.29	1.06	109.10	1.06	109.10	1.06	103.86	1.01	103.88	1.01	103.88	1.01	107.99	1.05	107.71	1.05	107.72	1.05	102.71	1.00	102.71	1.00	103.19	1.00
71H07		111.42	0.74	111.42	0.74	112.77	0.75	112.94	0.75	112.95	0.75	114.09	0.76	114.09	0.76	113.55	0.75	113.57	0.75	113.57	0.75	113.99	0.75	113.70	0.75	113.72	0.75	112.86	0.75	112.86	0.75	113.36	0.75
	33PP-8C UV Trip Aux Relay	111.31	0.06	111.31	0.06	112.66	0.06	112.84	0.06	112.84	0.06	113.98	0.06	113.98	0.06	113.44	0.06	113.46	0.06	113.46	0.06	113.88	0.06	113.59	0.06	113.61	0.06	112.75	0.06	112.75	0.06	113.25	0.06
	46P-1C UV Trip Aux Relay	111.32	0.06	111.32	0.06	112.66	0.06	112.84	0.06	112.85	0.06	113.99	0.06	113.99	0.06	113.45	0.06	113.47	0.06	113.47	0.06	113.89	0.06	113.60	0.06	113.61	0.06	112.76	0.06	112.76	0.06	113.25	0.06
	33P-9C UV Trip Aux Relay	111.32	0.06	111.32	0.06	112.66	0.06	112.84	0.06	112.85	0.06	113.99	0.06	113.99	0.06	113.45	0.06	113.47	0.06	113.47	0.06	113.89	0.06	113.60	0.06	113.61	0.06	112.76	0.06	112.76	0.06	113.25	0.06
	37P-2C UV Trip Aux Relay	111.31	0.06	111.31	0.06	112.66	0.06	112.84	0.06	112.84	0.06	113.98	0.06	113.98	0.06	113.44	0.06	113.46	0.06	113.46	0.06	113.89	0.06	113.59	0.06	113.61	0.06	112.75	0.06	112.75	0.06	113.25	0.06
	Bus 10700 Undervoltage	111.30	0.06	111.30	0.06	112.65	0.06	112.82	0.06	112.83	0.06	113.97	0.06	113.97	0.06	113.43	0.06	113.45	0.06	113.45	0.06	113.87	0.06	113.58	0.06	113.60	0.06	112.74	0.06	112.74	0.06	113.24	0.06
	71H07 Continuous Control	110.56	0.45	110.56	0.45	111.89	0.46	112.07	0.46	112.08	0.46	113.21	0.46	113.21	0.46	112.67	0.46	112.69	0.46	112.69	0.46	113.11	0.46	112.82	0.46	112.84	0.46	111.99	0.46	111.99	0.46	112.48	0.46
71L13		89.71	31.94	89.71	31.94	90.80	32.32	90.94	32.37	90.94	32.38	114.20	0.27	114.20	0.27	113.68	0.27	113.68	0.27	113.68	0.27	114.10	0.27	113.81	0.27	113.83	0.27	112.97	0.27	112.97	0.27	113.47	0.27
	600v Bkr # 11316 52X energize	88.26	0.71	88.26	0.71	89.33	0.71	89.47	0.72	89.48	0.72																						
	600v Bkr # 11316 52/CC close	88.12	31.02	88.12	31.02	89.18	31.39	89.32	31.44	89.33	31.44																						
	71L23 Continuous Control	89.27	0.21	89.27	0.21	90.35	0.22	90.49	0.22	90.50	0.22	113.64	0.27	113.64	0.27	113.11	0.27	113.13	0.27	113.13	0.27	113.55	0.27	113.26	0.27	113.27	0.27	112.42	0.27	112.42	0.27	112.91	0.27
71L25		102.96	36.87	102.96	36.87	104.21	37.31	104.37	37.37	104.38	37.37	104.63	37.47	104.63	37.47	104.14	37.29	104.26	37.33	104.26	37.33	104.64	37.47	102.72	36.78	102.82	36.82	102.04	36.54	102.04	36.54	111.36	0.19
	600v Bkr #12510 52X energize	101.34	0.81	101.34	0.81	102.57	0.82	102.73	0.82	102.74	0.82	102.99	0.82	102.99	0.82	102.50	0.82	102.62	0.82	102.62	0.82	103.00	0.82	101.11	0.81	101.20	0.81	100.44	0.80	100.44	0.80		
	600v Bkr #12510 52/CC close	101.94	35.88	101.94	35.88	103.18	36.32	103.34	36.37	103.34	36.38	103.60	36.47	103.60	36.47	103.10	36.29	103.22	36.33	103.22	36.33	103.61	36.47	101.70	35.80	101.80	35.83	101.03	35.56	101.03	35.56		
	71L25 Continuous Control	102.61	0.17	102.61	0.17	103.86	0.17	104.02	0.18	104.03	0.18	104.28	0.18	104.28	0.18	103.79	0.17	103.91	0.18	103.91	0.18	104.29	0.18	102.38	0.17	102.47	0.17	101.70	0.17	101.70	0.17	110.98	0.19

Load Voltage & Current (Seconds) — 8th to 14th

Source Panel	Load	8th Voltage	8th Current	8.5th Voltage	8.5th Current	8.6th Voltage	8.6th Current	8.7th Voltage	8.7th Current	8.8th Voltage	8.8th Current	9.1st Voltage	9.1st Current	9.5th Voltage	9.5th Current	9.7th Voltage	9.7th Current	9.8th Voltage	9.8th Current	9.9th Voltage	9.9th Current	10th Voltage	10th Current	10.7th Voltage	10.7th Current	10.9th Voltage	10.9th Current	11th Voltage	11th Current	12th Voltage	12th Current	13th Voltage	13th Current	14th Voltage	14th Current
BATTERY 71SB-1		115.42	444.14	115.42	444.14	115.43	442.10	115.34	454.24	115.34	454.25	115.42	444.15	115.93	372.55	115.89	378.23	115.85	384.71	115.22	471.64	113.88	579.91	113.88	579.90	113.88	579.82	114.89	505.41	115.45	439.53	115.45	439.51	114.55	525.39
71BCB-2A		114.06	444.14	114.06	444.14	114.08	442.10	113.96	454.24	113.96	454.25	114.06	444.15	114.80	372.55	114.74	378.23	114.67	384.71	113.78	471.64	112.10	579.91	112.10	579.90	112.11	579.82	113.26	505.41	114.11	439.53	114.11	439.51	112.94	525.39
A02	71LPERDC1 Emer Ltg Pnl	110.08	16.49	110.08	16.49	110.10	16.49	109.98	16.47	109.98	16.47	110.08	16.49	110.79	16.60	110.73	16.59	110.67	16.58	109.80	16.45	108.19	16.21	108.19	16.21	108.19	16.21	109.31	16.37	110.12	16.50	110.12	16.50	109.00	16.33
A03	71LPERDC2 Emer Ltg Pnl	109.02	9.23	109.02	9.23	109.04	9.24	108.92	9.23	108.92	9.23	109.02	9.23	109.72	9.29	109.67	9.29	109.60	9.28	108.75	9.21	107.15	9.08	107.15	9.08	107.15	9.08	108.25	9.17	109.06	9.24	109.06	9.24	107.95	9.14
A04	Panel 71DC-A4	107.34	110.26	107.34	110.26	107.48	108.25	106.93	115.15	106.93	115.15	107.33	110.26	112.38	39.62	111.98	45.23	111.52	51.68	105.39	137.44	104.16	130.31	104.16	130.31	104.16	130.24	109.83	56.30	110.69	56.08	110.69	56.08	109.51	56.39
A05	71LPEADC1 Emer Ltg Pnl	107.75	17.70	107.75	17.70	107.77	17.71	107.65	17.69	107.65	17.69	107.75	17.70	108.45	17.82	108.39	17.81	108.33	17.80	107.48	17.66	105.90	17.40	105.90	17.40	105.90	17.40	106.99	17.58	107.79	17.71	107.80	17.71	106.70	17.53
A06	71BMCC-3	114.02	0.33	114.02	0.33	114.04	0.33	113.91	0.33	113.91	0.33	114.02	0.33	114.75	0.33	114.69	0.33	114.63	0.33	113.73	0.33	104.64	57.44	104.64	57.44	104.64	57.44	105.71	58.04	112.11	15.37	112.11	15.37	110.93	15.52
A07	71LPESWDC1 Emer Ltg Pnl	112.01	6.96	112.01	6.96	112.03	6.96	111.91	6.95	111.91	6.95	112.01	6.96	112.73	7.01	112.67	7.00	112.61	7.00	111.73	6.94	110.09	6.84	110.09	6.84	110.09	6.84	111.22	6.91	112.06	6.96	112.06	6.96	110.91	6.89
B02	Panel 71DC-A1	113.51	10.82	113.51	10.82	113.53	10.82	113.40	10.81	113.40	10.83	113.51	10.83	114.24	10.83	114.18	10.83	114.12	10.77	113.23	10.77	111.55	10.82	111.55	10.81	111.55	10.81	112.71	10.76	113.55	10.82	113.55	10.82	112.40	10.74
B03	Panel 71DC-A2	112.70	21.68	112.70	21.68	112.73	21.68	112.60	21.69	112.60	21.69	112.70	21.68	113.44	21.64	113.38	21.64	113.32	21.64	112.42	21.70	110.74	21.81	110.74	21.81	110.74	21.81	111.90	21.73	112.75	21.68	112.75	21.68	111.59	21.75
B04	Panel 71DC-A3	113.84	8.05	113.84	8.05	113.88	8.05	113.60	13.12	113.60	13.12	113.84	8.05	114.58	8.07	114.52	8.07	114.45	8.07	113.56	8.04	111.89	7.98	111.89	7.98	111.89	7.98	113.04	8.02	113.89	8.05	113.89	8.05	112.73	8.01
B05	71BMCC-1	113.64	8.57	113.64	8.57	113.68	8.57	113.54	8.57	113.54	8.57	113.64	8.57	114.38	8.53	114.32	8.53	114.25	8.53	113.36	8.58	109.32	56.93	109.32	56.93	109.32	56.93	110.45	57.36	112.38	35.33	112.38	35.31	107.10	119.41
B06	71LPE1 Emer Ltg Pnl	111.79	10.98	111.79	10.98	111.81	10.98	111.69	10.97	111.69	10.97	111.79	10.98	112.51	11.05	112.45	11.04	112.39	11.03	111.51	10.95	109.87	10.79	109.87	10.79	109.87	10.79	111.01	10.90	111.84	10.98	111.84	10.98	110.70	10.87
C01	Panel 71DC-A5	111.62	26.96	111.62	26.96	111.64	26.96	111.52	26.99	111.52	26.99	111.62	26.96	112.38	26.78	112.32	26.79	112.25	26.81	111.33	27.03	108.93	35.15	108.93	35.15	108.93	35.15	110.10	34.93	110.96	34.78	110.96	34.78	109.78	34.99
C03	71UPS-1	110.72	93.20	110.72	93.20	110.75	93.19	110.62	93.29	110.62	93.30	110.72	93.20	111.48	92.57	111.42	92.62	111.35	92.68	110.43	93.45	108.71	94.93	108.71	94.93	108.71	94.93	109.90	93.90	110.77	93.16	110.77	93.16	109.57	94.18
D01	31P-7A RFPT Oil Pump																																		
	31P-7A RFPT Oil Pump Control																																		
	31P-7A RFPT Continuous Control	114.03	0.24	114.03	0.24	114.05	0.24	113.93	0.24	113.93	0.24	114.03	0.24	114.77	0.24	114.71	0.24	114.64	0.24	113.75	0.24	112.08	0.23	112.08	0.23	112.08	0.23	113.23	0.24	114.08	0.24	114.08	0.24	112.92	0.23
D02	94P-13 Seal Oil Pump	105.91	81.75	105.91	81.75	105.93	81.73	105.80	81.84	105.80	81.84	105.91	81.75	106.71	81.14	106.64	81.19	106.57	81.24	105.60	81.99	103.79	83.42	103.79	83.42	103.79	83.42	105.04	82.42	105.96	81.71	105.96	81.71	104.70	82.69
	94P-13 Seal Oil Pump Control	111.24	1.33	111.24	1.33	111.26	1.33	111.14	1.33	111.14	1.33	111.24	1.33	111.96	1.34	111.90	1.34	111.84	1.34	110.96	1.33	109.33	1.31	109.33	1.31	109.33	1.31	110.46	1.32	111.29	1.33	111.29	1.33	110.15	1.32
	94P-13 Continuous Control																																		
N/A	Continuous control	114.06	19.58	114.06	19.58	114.08	19.58	113.96	19.56	113.96	19.56	114.06	19.58	114.80	19.71	114.74	19.70	114.67	19.69	113.78	19.53	112.10	19.24	112.10	19.24	112.11	19.24	113.26	19.44	114.11	19.59	114.11	19.59	112.94	19.39
71DC-A1		113.51	10.82	113.51	10.82	113.53	10.82	113.40	10.81	113.40	10.81	113.51	10.82	114.24	10.88	114.18	10.87	114.12	10.87	113.23	10.80	111.56	10.67	111.56	10.67	111.58	10.67	112.71	10.76	113.55	10.82	113.55	10.82	112.40	10.74
02	1UPRN07 Unit & NSS Transf BU Prot	110.29	9.50	110.29	9.50	110.31	9.50	110.19	9.49	110.19	9.49	110.29	9.50	111.00	9.56	110.94	9.56	110.88	9.55	110.01	9.48	108.39	9.34	108.39	9.34	108.40	9.34	109.51	9.43	110.33	9.50	110.33	9.50	109.21	9.41
05	71DTR Digital Transient Recorder	112.81	1.11	112.81	1.11	112.83	1.11	112.71	1.11	112.71	1.11	112.81	1.11	113.55	1.10	113.49	1.10	113.42	1.10	112.53	1.11	110.85	1.13	110.85	1.13	110.85	1.13	112.01	1.12	112.86	1.11	112.86	1.11	111.69	1.12
08	115kV Line 4 Sta UV Trip Bus A																																		
12	71PCB-10052 Bkr Alt. 1 Failure	113.49	0.03	113.49	0.03	113.51	0.03	113.39	0.03	113.39	0.03	113.49	0.03	114.23	0.03	114.17	0.03	114.10	0.03	113.21	0.03	111.54	0.03	111.54	0.03	111.55	0.03	112.69	0.03	113.54	0.03	113.54	0.03	112.38	0.03
14	345kV Bkr 71PCB-10042 Trip																																		
19	71PCB-10042 Bkr Alt. 1 Failure	113.49	0.03	113.49	0.03	113.51	0.03	113.39	0.03	113.39	0.03	113.49	0.03	114.22	0.03	114.16	0.03	114.10	0.03	113.21	0.03	111.54	0.03	111.54	0.03	111.54	0.03	112.69	0.03	113.54	0.03	113.54	0.03	112.38	0.03
21	345kV Bkr 71PCB-10052 Trip																																		
	Comp's. 08, 14 & 21 Continuous Cntl	113.43	0.15	113.43	0.15	113.45	0.15	113.33	0.15	113.33	0.15	113.43	0.15	114.17	0.15	114.11	0.15	114.04	0.15	113.15	0.15	111.49	0.15	111.49	0.15	111.49	0.15	112.64	0.15	113.48	0.15	113.48	0.15	112.32	0.15
71DC-A2		112.70	21.68	112.70	21.68	112.73	21.68	112.60	21.69	112.60	21.69	112.70	21.68	113.44	21.64	113.38	21.64	113.32	21.64	112.42	21.70	110.74	21.81	110.74	21.81	110.74	21.81	111.90	21.73	112.75	21.68	112.75	21.68	111.59	21.75
01	RPS BU Scram 03SOV-140A	112.26	0.20	112.26	0.20	112.28	0.20	112.15	0.20	112.15	0.20	112.26	0.20	112.99	0.20	112.93	0.20	112.87	0.20	111.97	0.20	110.30	0.20	110.30	0.20	110.30	0.20	111.46	0.20	112.30	0.20	112.30	0.20	111.14	0.20
03	Core Spray Channel A Logic																																		
04	RHR Channel A Logic																																		
08	RFPT 31FPD-5A Trip 31SOV-12A	109.14	0.84	109.14	0.84	109.16	0.84	109.03	0.84	109.03	0.84	109.14	0.84	109.85	0.85	109.79	0.85	109.73	0.85	108.86	0.84	107.23	0.83	107.23	0.83	107.24	0.83	108.36	0.84	109.18	0.84	109.18	0.84	108.05	0.83
09	Relay Cab. Ch.A RCIC Pnl	112.20	2.60	112.20	2.60	112.23	2.60	112.10	2.60	112.10	2.60	112.20	2.60	112.94	2.60	112.89	2.60	112.82	2.60	111.92	2.60	110.24	2.60	110.24	2.60	110.24	2.60	111.40	2.60	112.25	2.60	112.25	2.60	111.09	2.60
	Power Supply 13TU-3-13	112.20	1.29	112.20	1.29	112.23	1.29	112.10	1.29	112.10	1.29	112.20	1.29	112.94	1.28	112.89	1.28	112.82	1.28	111.92	1.29	110.24	1.31	110.24	1.31	110.24	1.31	111.40	1.30	112.25	1.29	112.25	1.29	111.09	1.30
10	RCIC & HPCI Misc. Loads	112.06	2.74	112.06	2.74	112.08	2.74	111.95	2.74	111.95	2.74	112.06	2.74	112.80	2.73	112.74	2.73	112.67	2.73	111.77	2.74	110.09	2.75	110.09	2.75	110.09	2.75	111.25	2.74	112.10	2.74	112.11	2.74	110.94	2.74
	Inverter 13INV-153	112.06	1.68	112.06	1.68	112.08	1.68	111.95	1.68	111.95	1.68	112.06	1.68	112.80	1.67	112.74	1.67	112.67	1.67	111.77	1.69	110.09	1.71	110.09	1.71	110.09	1.71	111.25	1.70	112.10	1.68	112.11	1.68	110.94	1.70
	13SOV-12	111.61	0.12	111.61	0.12	111.64	0.12	111.51	0.12	111.51	0.12	111.61	0.12	112.35	0.13	112.29	0.13	112.23	0.12	111.33	0.12	109.68	0.12	109.66	0.12	109.66	0.12	110.81	0.12	111.68	0.12	111.68	0.12	110.50	0.12
11	02-184P-3A(M) RWR MG Set A Emer	105.72	9.49	105.72	9.49	105.74	9.49	105.60	9.50	105.60	9.50	105.72	9.49	108.51	9.42	108.44	9.42	108.37	9.43	105.41	9.52	103.61	9.68	103.61	9.68	103.61	9.68	104.86	9.57	105.77	9.48	105.77	9.48	104.52	9.60
	02-184P-3A(M) RWR MG Set A Pmp	111.78	0.38	111.78	0.38	111.80	0.38	111.67	0.38	111.67	0.38	111.78	0.38	112.52	0.38	112.46	0.38	112.39	0.38	111.50	0.38	109.82	0.37	109.82	0.37	109.82	0.37	110.98	0.38	111.83	0.38	111.83	0.38	110.66	0.37
	02-184P-3A(M) Continuous Control																																		
14	13INV-801A Steam Leak Det Sys	111.77	1.16	111.77	1.16	111.79	1.16	111.66	1.16	111.66	1.16	111.77	1.16	112.51	1.15	112.45	1.15	112.38	1.15	111.48	1.16	109.79	1.18	109.79	1.18	109.79	1.18	110.96	1.17	111.81	1.16	111.81	1.16	110.64	1.17
16	RCIC Valve Trip Sol 13TTS-1																																		
18	Reac Recir M/G Set A Trip																																		
19	600V SWGR 71L25	112.67	0.19	112.67	0.19	112.69	0.19	112.57	0.19	112.57	0.19	112.67	0.19	113.41	0.19	113.35	0.19	113.28	0.19	112.39	0.19	110.71	0.19	110.71	0.19	110.71	0.19	111.87	0.19	112.72	0.19	112.72	0.19	111.55	0.19
22	ADS Panel 09-45 Load	112.38	4.09	112.38	4.09	112.40	4.09	112.28	4.08	112.28	4.08	112.38	4.09	113.12	4.11	113.06	4.11	112.99	4.11	112.10	4.08	110.42	4.02	110.42	4.02	110.43	4.02	111.58	4.06	112.43	4.09	112.43	4.09	111.27	4.05
	ADS Logic																																		
	9 RV SOV's																																		
	02SOV-71K1	108.84	1.00	108.84	1.00	108.86	1.00	108.74	1.00	108.74	1.00	108.84	1.00	109.55	1.00	109.50	1.00	109.43	1.00	108.56	0.99	106.94	0.98	106.94	0.98	106.94	0.98	108.06	0.99	108.88	1.00	108.88	1.00	107.76	0.99
	02SOV-71L1	108.68	0.99	108.68	0.99	108.68	0.99	108.56	0.99	108.56	0.99	108.66	0.99	109.38	1.00	109.32	1.00	109.26	1.00	108.39	0.99	106.77	0.98	106.77	0.98	106.77	0.98	107.89	0.99	108.71	0.99	108.71	0.99	107.59	0.98
	Relief Valve/ADS Continuous Cntl	112.38	2.10	112.38	2.10	112.40	2.10	112.28	2.09	112.28	2.09	112.38	2.10	113.12	2.11	113.06	2.11	112.99	2.11	112.10	2.09	110.42	2.06	110.42	2.06	110.43	2.06	111.58	2.08	112.43	2.10	112.43	2.10	111.27	2.07
71DC-A3		113.84	8.05	113.84	8.05	113.86	8.05	113.60	13.12	113.60	13.12	113.84	8.05	114.58	8.07	114.52	8.07	114.45	8.07	113.58	8.04	111.89	7.98	111.89	7.98	111.89	7.98	113.04	8.02	113.89	8.05	113.89	8.05	112.73	8.01
01	09ECCS1-EP SRV Electric Lift	112.61	2.12	112.61	2.12	112.63	2.12	112.36	2.13	112.36	2.13	112.61	2.12	113.35	2.11	113.29	2.11	113.23	2.11	112.32	2.13	110.63	2.16	110.63	2.16	110.63	2.16	111.80	2.14	112.66	2.12	112.66	2.12	111.48	2.14
08	ESW Lockout Matrix	113.66	0.39	113.66	0.39	113.68	0.39	113.42	0.39	113.42	0.39	113.66	0.39	114.39	0.39	114.34	0.39	114.27	0.39	113.38	0.39	111.71	0.39	111.71	0.39	111.71	0.39	112.88	0.39	113.71	0.39	113.71	0.39	112.55	0.39
07	Standby Gas Treat Cont A	113.13	1.47	113.13	1.47	113.15	1.47	112.89	1.46	112.89	1.46	113.13	1.47	113.87	1.47	113.81	1.47	113.74	1.47	112.85	1.46	111.19	1.44	111.19	1.44	111.19	1.44	112.34	1.46	113.18	1.47	113.18	1.47	112.03	1.45
09	94EHC Main Turbine EHC Panel	112.67	0.86	112.67	0.86	112.69	0.86	112.43	0.86	112.43	0.86	112.67	0.86	113.40	0.87	113.34	0.87	113.28	0.87	112.39	0.86	110.74	0.85	110.74	0.85	110.74	0.85	111.88	0.86	112.72	0.86	112.72	0.86	111.57	0.85
10	94-1TEHN05 Main Turb. MasterTrip	113.75	0.11	113.75	0.11	113.77	0.11	113.50	0.11	113.50	0.11	113.75	0.11	114.48	0.11	114.42	0.11	114.36	0.11	113.48	0.11	111.79	0.11	111.79	0.11	111.79	0.11	112.95	0.11	113.79	0.11	113.79	0.11	112.63	0.11
13	38MOV-VB1																																		
	38MOV-VB1 Control																																		
	38MOV-VB1 Continuos Cntl & Htr	113.20	0.49	113.20	0.49	113.22	0.49	112.96	0.49	112.96	0.49	113.20	0.49	113.93	0.49	113.88	0.49	113.81	0.49	112.92	0.49	111.26	0.48	111.26	0.48	111.26	0.48	112.41	0.49	113.25	0.49	113.25	0.49	112.09	0.49
20	Panel 71HO1	113.67	0.44	113.67	0.44	113.69	0.44	113.43	0.43	113.43	0.43	113.67	0.44	114.40	0.44	114.35	0.44	114.28	0.44	113.39	0.43	111.72	0.43	111.72	0.43	111.72	0.43	112.87	0.43	113.72	0.44	113.72	0.44	112.56	0.43
22	Panel 71HO3	113.55	1.14	113.55	1.14	113.57	1.14	112.00	6.22	112.00	6.22	113.55	1.14	114.28	1.15	114.22	1.15	114.16	1.15	113.27	1.14	111.60	1.12	111.60	1.12	111.60	1.12	112.75	1.13	113.60	1.14	113.60	1.14	112.44	1.13
23	600V SWGR 71L13	113.66	0.27	113.66	0.27	113.68	0.27	113.41	0.27	113.41	0.27	113.66	0.27	114.39	0.27	114.33	0.27	114.27	0.27	113.37	0.27	111.70	0.27	111.70	0.27	111.71	0.27	112.88	0.27	113.70	0.27	113.70	0.27	112.54	0.27
24	Panel 71HO7	113.64	0.75	113.64	0.75	113.66	0.75	113.40	0.75	113.40	0.75	113.64	0.75	114.37	0.76	114.31	0.76	114.25	0.76	113.35	0.75	111.69	0.74	111.69	0.74	111.69	0.74	112.84	0.75	113.68	0.75	113.68	0.75	112.53	0.74
71DC-A4		107.34	110.26	107.34	110.26	107.48	108.25	106.93	115.15	106.93	115.15	107.33	110.26	112.38	39.62	111.98	45.23	111.52	51.68	105.39	137.44	104.16	130.31	104.16	130.31	104.16	130.24	109.83	56.30	110.69	56.08	110.69	56.08	109.51	56.39
02	Force Paralleling Cntl Pnl 93FPAC	108.72	2.03	108.72	2.03	108.87	2.03	108.32	2.02	108.32	2.02	108.72	2.03	111.74	2.12	111.34	2.12	110.88	2.11	104.80	1.99	103.56	1.97	103.58	1.97	103.57	1.97	109.20	2.07	110.06	2.09	110.06	2.09	108.88	2.07
04	Main Generator Excitation	100.04	2.09	100.04	2.09	100.18	2.09	99.67	2.08	99.67	2.08	100.04	2.09	104.75	2.19	104.37	2.18	103.94	2.17	98.24	2.05	97.08	2.03	97.08	2.03	97.09	2.03	102.37	2.14	103.17	2.15	103.17	2.15	102.07	2.13
08	Panel 71HO5	108.74	18.37	108.74	18.37	108.88	18.35	108.17	23.54	108.17	23.54	108.74	18.37	111.80	17.79	111.22	23.42	110.55	29.89	101.64	115.81	100.63	108.71	100.63	108.71	100.64	108.64	108.70	34.56	109.57	34.31	109.57	34.31	108.38	34.65
11	Panel 93ECP-A	105.38	8.76	105.38	8.76	105.52	8.75	104.97	8.76	104.97	8.76	105.38	8.76	110.43	8.73	110.03	8.73	109.57	8.74	103.43	8.77	102.19	8.78	102.19	8.78	102.20	8.78	107.87	8.74	108.73	8.74	108.73	8.74	107.55	8.74
	93GS-5A Boost pump																																		
	93GS-5A Boost pump																																		
	93P-4A Fuel oil pump	105.22	4.33	105.22	4.33	105.36	4.33	104.82	4.35	104.82	4.35	105.22	4.33	110.28	4.14	109.87	4.15	109.41	4.17	103.27	4.42	102.03	4.47	102.03	4.47	102.04	4.47	107.72	4.23	108.58	4.20	108.58	4.20	107.40	4.25
	Pnl 93EGP-A	106.18	34.90	106.18	34.90	106.32	34.95	105.78	34.77	105.78	34.77	106.18	34.90																						
	(EDG "A" Field Flash)																																		
	93P/S-A	105.17	0.37	105.17	0.37	105.32	0.37	104.77	0.37	104.77	0.37	105.17	0.37	110.23	0.36	109.83	0.36	109.37	0.36	103.23	0.38	101.98	0.39	101.98	0.39	101.99	0.39	107.67	0.36	108.53	0.36	108.53	0.36	107.35	0.37
12	Panel 93ECP-C	105.75	8.80	105.75	8.80	105.89	8.80	105.34	8.81	105.34	8.81	105.75	8.80	110.79	8.78	110.39	8.78	109.93	8.78	103.80	8.82	102.56	8.83	102.56	8.83	102.57	8.83	108.24	8.79	109.10	8.79	109.10	8.79	107.92	8.79
	93GS-5C Boost pump																																		
	93GS-5C Boost pump																																		
	93P-4C Fuel oil pump	105.59	4.32	105.59	4.32	105.73	4.31	105.19	4.34	105.19	4.34	105.59	4.32	110.64	4.12	110.24	4.14	109.78	4.15	103.64	4.40	102.40	4.45	102.40	4.45	102.41	4.45	108.08	4.22	108.95	4.19	108.95	4.19	107.76	4.23
	Pnl 93EGP-C	106.79	35.31	106.79	35.31	106.94	35.36	106.39	35.18	106.39	35.18	106.79	35.31																						
	(EDG "C" Field Flash)																																		
	93P/S-C	105.55	0.42	105.55	0.42	105.69	0.42	105.14	0.42	105.14	0.42	105.55	0.42	110.60	0.40	110.20	0.40	109.74	0.41	103.60	0.43	102.36	0.44	102.36	0.44	102.36	0.43	108.04	0.41	108.91	0.41	108.91	0.41	107.72	0.41
71DC-A5		111.62	26.96	111.62	26.96	111.64	26.96	111.52	26.99	111.52	26.99	111.62	26.96	112.38	26.78	112.32	26.79	112.25	26.81	111.33	27.03	108.93	35.15	108.93	35.15	108.93	35.15	110.10	34.93	110.96	34.78	110.96	34.78	109.78	34.99
01	ECCS Cab Power Pnl 09-95	110.65	6.95	110.65	6.95	110.68	6.95	110.55	6.96	110.55	6.96	110.65	6.95	111.41	6.90	111.35	6.91	111.28	6.91	110.36	6.97	107.93	7.13	107.93	7.13	107.94	7.13	109.12	7.05	109.99	6.99	109.99	6.99	108.80	7.07
02	Feedwater Inverter 06INV-1A	110.56	1.21	110.56	1.21	110.58	1.21	110.45	1.21	110.45	1.21	110.55	1.21	111.32	1.20	111.26	1.20	111.19	1.20	110.28	1.21	107.83	1.24	107.83	1.24	107.83	1.24	109.02	1.23	109.89	1.22	109.89	1.22	108.70	1.23
05	HPCI Relay Logic Pnl 09-32	111.59	0.20	111.59	0.20	111.61	0.20	111.48	0.20	111.48	0.20	111.59	0.20	112.34	0.20	112.28	0.20	112.21	0.20	111.30	0.20	108.89	0.19	108.89	0.19	108.89	0.19	110.07	0.20	110.93	0.20	110.93	0.20	109.75	0.19
07	CRD 09ARI-2 Isolation Rly Pnl																					107.78	6.23	107.78	6.23	107.78	6.23	108.94	6.30	109.80	6.35	109.80	6.35	108.63	6.28
	03SOV-201																					105.12	1.28	105.12	1.28	105.12	1.28	106.26	1.29	107.09	1.30	107.09	1.30	105.95	1.29
09	27MAP Panel	110.09	4.54	110.09	4.54	110.11	4.54	109.98	4.55	109.98	4.55	110.09	4.54	110.85	4.51	110.79	4.51	110.72	4.52	109.80	4.55	107.35	4.66	107.35	4.66	107.36	4.66	108.55	4.61	109.42	4.57	109.42	4.57	108.22	4.62
18	71INV-1A	109.05	14.06	109.05	14.06	109.07	14.06	108.94	14.08	108.94	14.08	109.05	14.06	109.82	13.96	109.76	13.97	109.69	13.98	108.75	14.10	106.28	14.43	106.28	14.43	106.28	14.43	107.49	14.27	108.37	14.15	108.37	14.15	107.16	14.31
71BMCC-1		113.64	8.57	113.64	8.57	113.68	8.57	113.54	8.57	113.54	8.57	113.64	8.57	114.38	8.53	114.32	8.53	114.25	8.53	113.36	8.58	109.32	56.93	109.32	56.93	109.32	56.93	110.45	57.36	112.38	35.33	112.38	35.31	107.10	119.41
OB2	13MOV-21	110.66	7.34	110.66	7.34	110.68	7.34	110.55	7.35	110.55	7.35	110.66	7.34	111.42	7.29	111.36	7.30	111.29	7.30	110.37	7.36	108.21	7.65	108.21	7.65	108.21	7.65	107.38	7.57	109.36	7.43	109.36	7.43	103.92	7.82
	13MOV-21 Control	112.89	0.53	112.89	0.53	112.91	0.53	112.79	0.53	112.79	0.53	112.89	0.53	113.63	0.53	113.57	0.53	113.50	0.53	112.61	0.52	108.60	0.51	108.60	0.51	108.60	0.51	109.72	0.51	111.64	0.52	111.64	0.52	106.40	0.50
	13MOV-21 Continuos Control																																		
OC1	13MOV-27 Open																																	97.31	35.58
	13MOV-27 Control																																	104.25	0.49
	13MOV-27 Close																																		
	13MOV-27 Control																																		
	13MOV-27 Continuos Control	112.62	0.17	112.62	0.17	112.64	0.17	112.51	0.17	112.51	0.17	112.62	0.17	113.35	0.18	113.29	0.18	113.22	0.18	112.34	0.17	108.33	0.17	108.33	0.17	108.33	0.17	109.48	0.17	111.37	0.17	111.37	0.17		
OC2	13MOV-30 Open																																		
	13MOV-30 Control																																		
	13MOV-30 Continuous Control	112.98	0.17	112.98	0.17	113.00	0.17	112.87	0.17	112.87	0.17	112.98	0.17	113.71	0.18	113.65	0.18	113.59	0.18	112.70	0.17	108.68	0.17	108.68	0.17	108.68	0.17	109.81	0.17	111.72	0.17	111.72	0.17	108.48	0.16
OE1	13P-3																					103.78	47.74	103.78	47.74	103.78	47.74	104.86	48.23	109.33	26.30	109.33	26.30	103.89	27.67
	13P-3 Control																					107.58	0.53	107.58	0.53	107.58	0.53	108.70	0.54	110.53	0.57	110.59	0.55	105.34	0.54
	13P-3 Continuos Control	113.07	0.17	113.07	0.17	113.09	0.17	112.97	0.17	112.97	0.17	113.07	0.17	113.81	0.18	113.75	0.18	113.68	0.18	112.79	0.17														
OE2	13P-4																																	108.08	45.97
	13P-4 Control																																	105.40	0.52
	13P-4 Continuos Control	113.07	0.17	113.07	0.17	113.09	0.17	112.97	0.17	112.97	0.17	113.07	0.17	113.81	0.18	113.75	0.18	113.68	0.18	112.79	0.17	108.77	0.17	108.77	0.17	108.77	0.17	109.90	0.17	111.81	0.17	111.82	0.17	106.56	0.16
71BMCC-3		114.02	0.33	114.02	0.33	114.04	0.33	113.91	0.33	113.91	0.33	114.02	0.33	114.75	0.33	114.69	0.33	114.63	0.33	113.73	0.33	104.64	57.44	104.64	57.44	104.64	57.44	105.71	58.04	112.11	15.37	112.11	15.37	110.93	15.52
OB1	13MOV-131																					91.85	29.76	91.85	29.76	91.85	29.76	92.79	30.07	108.90	7.46	108.90	7.46	107.68	7.55
	13MOV-131 Control																					103.04	0.48	103.04	0.48	103.05	0.48	104.11	0.48	110.40	0.51	110.40	0.51	109.24	0.51
	13MOV-131 Continuos Control	113.47	0.17	113.47	0.17	113.49	0.17	113.36	0.17	113.36	0.17	113.46	0.17	114.20	0.17	114.14	0.17	114.07	0.17	113.18	0.17														
OB2	13MOV-132																					92.55	28.73	92.55	28.73	92.55	28.73	93.50	27.00	109.00	6.88	109.00	6.88	107.78	6.96
	13MOV-132 Control																					102.80	0.48	102.80	0.48	102.80	0.48	103.86	0.48	110.14	0.51	110.14	0.51	108.98	0.51
	13MOV-132 Continuos Control	113.38	0.17	113.33	0.17	113.40	0.17	113.28	0.17	113.27	0.17	113.38	0.17	114.11	0.17	114.05	0.17	113.99	0.17	113.10	0.17														
71H01		113.67	0.44	113.67	0.44	113.69	0.44	113.43	0.43	113.43	0.43	113.67	0.44	114.40	0.44	114.35	0.44	114.28	0.44	113.39	0.43	111.72	0.43	111.72	0.43	111.72	0.43	112.87	0.43	113.72	0.44	113.72	0.44	112.56	0.43
	Bus 10100 Undervoltage Oper	113.30	0.20	113.30	0.20	113.32	0.20	113.06	0.20	113.06	0.20	113.30	0.20	114.04	0.20	113.98	0.20	113.91	0.20	113.02	0.20	111.36	0.20	111.36	0.20	111.36	0.20	112.51	0.20	113.35	0.20	113.35	0.20	112.20	0.20
	71H01 Continuous Control	113.25	0.23	113.25	0.23	113.27	0.23	113.01	0.23	113.01	0.23	113.25	0.23	113.98	0.23	113.92	0.23	113.86	0.23	112.97	0.23	111.31	0.23	111.31	0.23	111.31	0.23	112.45	0.23	113.30	0.23	113.30	0.23	112.14	0.23
71H03		113.55	1.14	113.55	1.14	113.57	1.14	112.00	6.22	112.00	6.22	113.55	1.14	114.28	1.15	114.22	1.15	114.18	1.15	113.27	1.14	111.60	1.12	111.60	1.12	111.60	1.12	112.75	1.13	113.60	1.14	113.60	1.14	112.44	1.13
	4KV Swgr Bkr 71-10304 trip							106.22	5.10	106.22	5.10																								
	86U- 37P-8A UV Trip Aux Relay	113.45	0.06	113.45	0.06	113.47	0.06	111.90	0.06	111.90	0.06	113.45	0.06	114.18	0.06	114.12	0.06	114.06	0.06	113.17	0.06	111.50	0.06	111.50	0.06	111.50	0.06	112.65	0.06	113.50	0.06	113.50	0.06	112.34	0.06
	86U- 46P-1A UV Trip Aux Relay	113.45	0.06	113.45	0.06	113.47	0.06	111.90	0.06	111.90	0.06	113.45	0.06	114.18	0.06	114.13	0.06	114.06	0.06	113.17	0.06	111.50	0.06	111.50	0.06	111.51	0.06	112.65	0.06	113.50	0.06	113.50	0.06	112.34	0.06
	86U- 33P-9A UV Trip Aux Relay	113.45	0.06	113.45	0.06	113.47	0.06	111.90	0.06	111.90	0.06	113.45	0.06	114.18	0.06	114.12	0.06	114.05	0.06	113.16	0.06	111.50	0.06	111.50	0.06	111.50	0.06	112.65	0.06	113.49	0.06	113.49	0.06	112.34	0.06
	86U- 37P-2A UV Trip Aux Relay	113.45	0.06	113.45	0.06	113.47	0.06	111.90	0.06	111.90	0.06	113.45	0.06	114.18	0.06	114.12	0.06	114.05	0.06	113.16	0.06	111.50	0.06	111.50	0.06	111.50	0.06	112.65	0.06	113.49	0.06	113.49	0.06	112.34	0.06
	Bus 10300 Undervoltage Oper	113.15	0.22	113.15	0.22	113.17	0.22	111.60	0.21	111.60	0.21	113.15	0.22	113.88	0.22	113.82	0.22	113.75	0.22	112.86	0.22	111.20	0.21	111.20	0.21	111.20	0.21	112.35	0.22	113.19	0.22	113.19	0.22	112.04	0.21
	71H03 Continuous Control	112.25	0.70	112.25	0.70	112.27	0.70	110.72	0.69	110.72	0.69	112.25	0.70	112.98	0.70	112.92	0.70	112.86	0.70	111.97	0.70	110.33	0.69	110.33	0.69	110.33	0.69	111.46	0.69	112.30	0.70	112.30	0.70	111.16	0.69
71H05		108.74	18.37	108.74	18.37	108.88	18.35	108.17	23.54	108.17	23.54	108.74	18.37	111.80	17.79	111.22	23.42	110.55	29.89	101.64	115.81	100.63	108.71	100.63	108.71	100.64	108.64	108.70	34.56	109.57	34.31	109.57	34.31	108.38	34.65
	4KV Swgr Bkr 71-10502 close															94.29	4.53	94.33	4.53																
	Breaker Charging Motor Current (9.9th sec – 14.7 sec)																			98.85	53.77	97.87	53.24	97.87	53.24	97.88	53.24	107.86	16.22	108.74	16.09	108.74	16.09	107.54	16.27
	K10 EDG A Egn. Failure															107.30	1.28	107.34	1.28	111.90	0.08	111.90	0.08	112.26	0.08	110.40	0.08	110.70	0.08	110.83	0.08	110.43	0.08	111.62	0.08
	4KV Swgr Bkr 71-10502 trip															101.52	4.87	101.56	4.87																
	4KV Swgr bkr 71-10512 close															94.68	4.54	94.72	4.55																
	Breaker Charging Motor Current (9.9th sec – 14.7sec)																			99.15	53.94	98.17	53.40	98.17	53.40	98.17	53.41	107.96	16.21	108.83	16.08	108.83	16.08	107.63	16.26
	K10 EDG C Egn. Failure															107.51	1.26	107.56	1.26	111.90	0.08	111.90	0.08	112.26	0.08	110.40	0.08	110.70	0.08	110.83	0.08	110.43	0.08	111.62	0.08
	4KV Swgr bkr 71-10512 trip															102.74	4.93	102.78	4.93																
	4KV Swgr Bkr 71-10514 trip							105.86	5.08	105.86	5.08																								
	Breaker Charging Motor Current (4.7th sec – 9.5th sec)	105.93	16.52	105.93	16.52	106.08	16.50	105.36	16.61	105.36	16.61	105.93	16.52	111.03	15.76																				
	62-EDG-A&C Brk Closing Rel													111.80	0.08	111.21	0.08	110.54	0.06	101.63	0.05	100.62	0.05	100.62	0.05										
	62X-EDG-A&C Brk Closing Rel													111.80	0.03	111.22	0.03	110.54	0.03	101.63	0.03	100.63	0.03	100.63	0.03										
	K9 Gen Tie to EDG-A&C (Trip)																	107.36	1.26	110.87	1.30	111.90	0.08	112.26	0.08	110.41	0.08	110.70	0.08	110.83	0.08	110.43	0.08	111.62	0.08
	4KV Swgr Bkr 71-10504 trip																	108.55	5.21	99.80	4.79														
	Emer Bus 10500 Undervoltage	103.89	0.85	103.89	0.85	104.03	0.85	103.33	0.84	103.33	0.84	103.89	0.85	108.81	0.89	108.25	0.88	107.59	0.88	98.92	0.81	97.94	0.80	97.94	0.80	97.95	0.80	105.80	0.86	108.64	0.87	108.64	0.87	105.48	0.86
	71H05 Continuous Control	103.36	1.00	103.36	1.00	103.50	1.01	102.81	1.00	102.81	1.00	103.36	1.00	108.26	1.05	107.70	1.05	107.05	1.04	98.42	0.96	97.44	0.95	97.44	0.95	97.45	0.95	105.26	1.02	106.11	1.03	106.11	1.03	104.95	1.02
71H07		113.54	0.75	113.54	0.75	113.56	0.75	113.30	0.75	113.30	0.75	113.54	0.75	114.28	0.76	114.22	0.76	114.15	0.76	113.26	0.75	111.59	0.74	111.60	0.74	111.60	0.74	112.75	0.75	113.59	0.75	113.59	0.75	112.43	0.74
	33PP-8C UV Trip Aux Relay	113.44	0.06	113.44	0.06	113.46	0.06	113.20	0.06	113.20	0.06	113.44	0.06	114.17	0.06	114.11	0.06	114.04	0.06	113.15	0.06	111.49	0.06	111.49	0.06	111.49	0.06	112.64	0.06	113.48	0.06	113.48	0.06	112.33	0.06
	46P-1C UV Trip Aux Relay	113.44	0.06	113.44	0.06	113.46	0.06	113.20	0.06	113.20	0.06	113.44	0.06	114.17	0.06	114.12	0.06	114.05	0.06	113.16	0.06	111.49	0.06	111.49	0.06	111.50	0.06	112.64	0.06	113.49	0.06	113.49	0.06	112.33	0.06
	33P-9C UV Trip Aux Relay	113.44	0.06	113.44	0.06	113.46	0.06	113.20	0.06	113.20	0.06	113.44	0.06	114.17	0.06	114.12	0.06	114.05	0.06	113.16	0.06	111.49	0.06	111.49	0.06	111.49	0.06	112.64	0.06	113.49	0.06	113.49	0.06	112.33	0.06
	37P-2C UV Trip Aux Relay	113.44	0.06	113.44	0.06	113.46	0.06	113.20	0.06	113.20	0.06	113.44	0.06	114.17	0.06	114.11	0.06	114.05	0.06	113.16	0.06	111.49	0.06	111.49	0.06	111.49	0.06	112.64	0.06	113.48	0.06	113.48	0.06	112.33	0.06
	Bus 10700 Undervoltage	113.43	0.06	113.43	0.06	113.45	0.06	113.18	0.06	113.18	0.06	113.42	0.06	114.16	0.06	114.10	0.06	114.03	0.06	113.14	0.06	111.48	0.06	111.48	0.06	111.48	0.06	112.63	0.06	113.47	0.06	113.47	0.06	112.32	0.06
	71H07 Continuous Control	112.67	0.46	112.67	0.46	112.69	0.46	112.43	0.46	112.43	0.48	112.67	0.46	113.39	0.47	113.34	0.47	113.27	0.47	112.39	0.48	110.73	0.45	110.73	0.45	110.73	0.45	111.87	0.46	112.71	0.46	112.71	0.46	111.56	0.46
71L13		113.66	0.27	113.66	0.27	113.68	0.27	113.41	0.27	113.41	0.27	113.66	0.27	114.39	0.27	114.33	0.27	114.27	0.27	113.37	0.27	111.70	0.27	111.70	0.27	111.71	0.27	112.86	0.27	113.70	0.27	113.70	0.27	112.54	0.27
	71L23 Continuous Control	113.10	0.27	113.10	0.27	113.12	0.27	112.86	0.27	112.86	0.27	113.10	0.27	113.83	0.27	113.77	0.27	113.71	0.27	112.82	0.27	111.16	0.27	111.16	0.27	111.16	0.27	112.31	0.27	113.15	0.27	113.15	0.27	111.99	0.27
71L25		112.67	0.19	112.67	0.19	112.69	0.19	112.57	0.19	112.57	0.19	112.67	0.19	113.41	0.19	113.35	0.19	113.28	0.19	112.39	0.19	110.71	0.19	110.71	0.19	110.71	0.19	111.87	0.19	112.72	0.19	112.72	0.19	111.55	0.19
	71L25 Continuous Control	112.29	0.19	112.29	0.19	112.31	0.19	112.19	0.19	112.19	0.19	112.29	0.19	113.03	0.19	112.97	0.19	112.90	0.19	112.01	0.19	110.34	0.19	110.34	0.19	110.34	0.19	111.49	0.19	112.34	0.19	112.34	0.19	111.18	0.19

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