Entergy

125V DC STATION BATTERY "B" SIZING VOLTAGE DROP
JAF-CALC-02610 Rev. 2
SBO

Appendix 4
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Computed by: A. Barton
Checked by: S. Kim

SBO — Load Voltage & Current

Panel	Load I.D.	Load Description	Start Time	Stop Time	1 (00:00:00.00 - 00:00:00.10, 0 sec) Voltage	1 Current	2 (00:00:00.10 - 00:00:00.20, 0.1 sec) Voltage	2 Current	3 (00:00:00.20 - 00:00:00.30, 0.2 sec) Voltage	3 Current	4 (00:00:00.30 - 00:00:00.31, 0.3 sec) Voltage	4 Current	5 (00:00:00.31 - 00:00:01.00, 0.31 sec) Voltage	5 Current
BATTERY 71SB-2				reset	117.60	80.99	117.24	198.21	117.48	171.11	117.47	172.53	117.38	182.52
71BCB-2B					117.36	80.99	116.66	198.21	116.98	171.11	116.96	172.53	116.84	182.52
A02	71LPEEBDC1	Emer Ltg Pnl	0.1 sec	240 min			112.13	24.60	112.44	24.67	112.43	24.66	112.31	24.64
A03	71LPEHB1	Emer Ltg Pnl	0.1 sec	30 min			115.36	9.08	115.68	9.11	115.66	9.11	115.54	9.10
A04	71DC-B4	Emer Diesel Gen Dist Cabinet			117.26	2.51	116.52	3.50	116.84	3.51	116.82	3.51	116.70	3.50
A05	71LPEADC2	Emer Ltg Pnl	0.1 sec	240 min			110.81	33.82	111.12	33.72	111.10	33.71	110.99	33.68
A06	71DC-B5	Relay Room Dist Cabinet			117.26	1.70	116.17	8.47	116.88	1.71	116.86	1.71	116.75	1.71
A07	71LPERDC3	Emer Ltg Pnl	0.1 sec	30 min			113.31	7.78	113.62	7.80	113.61	7.80	113.49	7.79
A08	71LPERW1	Emer Ltg Pnl	0.1 sec	30 min			114.09	10.67	114.40	10.70	114.38	10.70	114.27	10.69
B02	71DC-B3	Relay Room Dist Cabinet			116.35	31.20	115.08	48.74	115.91	32.92	115.89	32.93	115.77	32.96
B03	71DC-B2	Relay Room Dist Cabinet			115.95	21.34	115.15	22.86	115.47	22.82	115.45	22.82	115.34	22.84
B04	71DC-B1	Relay Room Dist Cabinet			117.35	0.23	116.48	5.02	116.97	0.23	116.90	1.65	116.42	11.71
B05	71BMCC-4	RB Motor Control Center			117.35	0.62	116.65	0.61	116.97	0.62	116.95	0.62	116.83	0.62
C01	71BMCC-2	RB Motor Control Center			117.35	0.54	116.65	0.54	116.97	0.54	116.95	0.54	116.83	0.54
C02	31P-7B(M)	RFPT Oil Pump Motor	17 sec	30 min										
	31P-7B(M)(Control)	RFPT Oil Pump Control	17 sec	30 min	116.71	0.20	116.01	0.19	116.33	0.20	116.31	0.20	116.20	0.20
D01	71BMCC-6	RB Motor Control Center			117.35	0.40	116.65	0.40	116.97	0.40	116.95	0.40	116.84	0.40
D02	94P-2(M)	Emerg Bearing Oil Pump Motor	2 min & 30 sec	30 min										
	94P-2(M)(Control)	Emerg Bearing Oil Pump Control	2 min & 30 sec	30 min	117.07	0.16	116.37	0.16	116.69	0.16	116.67	0.16	116.55	0.16
N/A		Continuous control	0 sec	240 min	117.36	22.10	116.66	21.97	116.98	22.03	116.96	22.03	116.84	22.00
71DC-B1					117.35	0.23	116.48	5.02	116.97	0.23	116.90	1.65	116.42	11.71
03	1UPRN06	Gen. & Transf. Prim. Protect.	0.1 sec	0.2 sec			116.48	4.80						
07	1ZLCN04	115kV Bus Diff & Bkr Failure	3 sec	3.1 sec	117.34	0.09	116.46	0.09	116.95	0.09	116.89	0.09	116.40	0.09
15	71PCB-10042	345kV Bkr 71PCB-10042	N/A	N/A	117.30	0.03	116.42	0.03	116.91	0.03	116.85	0.03	116.36	0.03
17	71PCB-10052	345kV Bkr 71PCB-10052	N/A	N/A	117.30	0.03	116.42	0.03	116.91	0.03	116.85	0.03	116.36	0.03
19	1YG1NO1	345kV Disc. 71MOD-10031 Open Coil	0.3 sec	1 min	117.00	0.07	116.13	0.07	116.62	0.07	109.47	1.50	109.02	1.49
	71MOD-10031(M)	345kV Disc. 71MOD-10031 Motor	0.31sec	1 min									104.88	10.07
71DC-B2					115.95	21.34	115.15	22.86	115.47	22.82	115.45	22.82	115.34	22.84
01		Feed to Panel 09-33			115.23	2.73	114.42	2.74	114.74	2.75	114.73	2.75	114.61	2.75
	1CICB04	RCIC Relay Logic Panel 09-33	0 sec	240 min	115.11	0.28	114.30	0.27	114.62	0.28	114.61	0.28	114.49	0.27
	1ADSB01	ADS System Continuous control	0 sec	240 min	113.74	2.30	112.94	2.29	113.26	2.29	113.24	2.29	113.13	2.29
	1RHRB33	RHR Channel B Continuous control	0 sec	240 min	115.18	0.12	114.37	0.12	114.69	0.12	114.67	0.12	114.56	0.12
	1ADSB02	ADS Low Water Level Logic	0.1 sec	240 min	115.21	0.03	114.40	0.06	114.72	0.06	114.70	0.06	114.58	0.06
02	03SOV-140B	RPS Trip Backup Scram SOV	0.1 sec	240 min			114.70	0.20	115.02	0.20	115.01	0.20	114.89	0.20
05	1CSPB10	RHR Channel B Logic	N/A	N/A										
06		Feed to Panel 09-39 Load			115.59	1.42	114.77	1.49	115.09	1.50	115.07	1.50	114.95	1.50
	1HPIB24	HPCI Relay Logic	0 sec	240 min	115.31	1.42	114.49	1.41	114.81	1.42	114.79	1.42	114.68	1.42
	23SOV-102	HPCI Remote Trip SOV	0.1 sec	240 min			114.66	0.08	114.98	0.08	114.96	0.08	114.85	0.08
09	31SOV-12B	RFPT B Turbine Trip	0.1 sec	240 min			111.14	0.86	111.45	0.86	111.43	0.86	111.32	0.86
10		Feed to Panel 09-3 Load			115.51	1.91	114.64	2.17	114.97	2.17	114.95	2.17	114.83	2.17
		Position Indicators (Lights)	0 sec	240 min	114.90	0.20	114.05	0.20	114.37	0.20	114.35	0.20	114.23	0.20
	23INV-79	HPCI Inverter (09-3)	0 sec	240 min	115.42	1.36	114.56	1.37	114.88	1.37	114.87	1.37	114.75	1.37
	23TU-3-12	HPCI Turbine Spd P/S	0 sec	240 min	115.29	0.35	114.42	0.35	114.75	0.35	114.73	0.35	114.61	0.35
	23SOV-53,-54	HPCI Steam Supply Trap & Exh VA's	0.1 sec	240 min			113.29	0.25	113.61	0.25	113.59	0.25	113.48	0.25
11	02-184P-3B(M)	02-184P-3B Recirc Pmp	6 sec	30 min										
	02-184P-3B(M)(Control)	02-184P-3B Recirc Pmp Control	6 sec	30 min	115.90	0.09	115.10	0.09	115.42	0.09	115.41	0.09	115.29	0.09
12	02-184-1B(BKR)	Reac Recirc M/G Set B Trip	17 sec	18 sec	115.93	0.08	115.12	0.08	115.45	0.08	115.43	0.08	115.31	0.08
13	02-184-1A(BKR)	Reac Recirc M/G Set A Alt Trip	N/A	N/A										
14	13INV-801B	Steam Leak Det Sys	N/A	N/A	115.60	0.63	114.86	0.63	115.18	0.63	115.16	0.63	115.04	0.63
16	02-3/V/V-613D	ATTS Cabinet Pwr Supply Converter	0 sec	240 min	115.55	4.14	114.75	4.17	115.07	4.16	115.05	4.16	114.93	4.16
23	23E/S-200B	Foxboro Inst Pwr Supply	0 sec	240 min	115.25	3.82	114.45	3.85	114.77	3.84	114.75	3.84	114.63	3.84
24	71INV-1B	Inverter Panel 1B	0 sec	240 min	114.46	6.52	113.65	6.57	113.98	6.55	113.96	6.55	113.84	6.56
71DC-B3					116.35	31.20	115.08	48.74	115.91	32.92	115.89	32.93	115.77	32.96
01	1ESWB04	ESW Lockout Matrix	2 sec	240 min	116.01	0.12	114.74	0.12	115.58	0.12	115.56	0.12	115.44	0.12
05	09-ECCS2-EP	SRV Cab	0 sec	240 min	115.71	1.14	114.44	1.15	115.27	1.14	115.26	1.14	115.14	1.15
06	1SGTB01	Standby Gas Treat Cont B	0.1st sec	240 min	115.99	0.31	108.40	5.70	114.16	1.50	114.14	1.50	114.02	1.50
13	38MOV-VB2(M)	Cond Vac Bkr Valve	4 min	5 min & 27.5 sec										
	38MOV-VB2(Control)	38MOV-VB2 Control & Heater	0 sec	240 min	115.66	0.46	114.40	0.46	115.23	0.46	115.21	0.46	115.09	0.46
17	71HO2	4kV SWGR Bus 10200			116.26	0.24	113.03	5.34	115.74	0.44	115.72	0.44	115.60	0.44
18	71HO4	4kV SWGR Bus 10400			116.15	0.71	113.48	5.75	115.65	0.93	115.64	0.93	115.52	0.93
19	71L34	600V SWGR Bus 13400			116.24	0.16	113.88	1.83	115.81	0.16	115.79	0.16	115.67	0.16
22	09-43	Annunciator Panel	0 sec	240 min	111.47	20.41	110.14	20.66	111.01	20.49	111.00	20.50	110.87	20.52
24	71UPS-7	Interposing Relay Cab 09IR-1	0 sec	240 min	114.45	7.65	113.16	7.73	114.01	7.67	113.99	7.68	113.87	7.68
71DC-B4					117.26	2.51	116.52	3.50	116.84	3.51	116.82	3.51	116.70	3.50
02	93FPBD	Force Paralleling Control Panel	4.35 sec	240 min	117.21	0.15	116.47	0.15	116.79	0.15	116.77	0.15	116.65	0.15
07	71L26	600V SWGR BUS 12600			117.19	0.20	116.45	0.20	116.77	0.20	116.75	0.20	116.63	0.20
08	71HO6	4kV SWGR BUS 10600			117.22	1.10	116.43	2.09	116.75	2.10	116.74	2.10	116.62	2.10
11	93ECP-B	EDG "B" Ctrl & Ann. Panel	2.5 sec	240 min	117.16	0.53	116.41	0.53	116.73	0.53	116.72	0.53	116.60	0.53
	93GS-5B	Gov. Booster Pump	2.8 sec	4.2 sec										
	93GS-5B	Gov. Booster Pump	239 min & 0.3 sec	239 min & 1.75 sec										
	93P-4B	Fuel oil pump	2.8 sec	240 min										
	93EGP-B	Gen "B" Cont Panel			117.26	0.00	116.52	0.00	116.84	0.00	116.82	0.00	116.70	0.00
	EDG "B" FF	EDG "B" Field Flash	6.1 sec	9.1 sec										
	EDG "B" FF	EDG "B" Field Flash	239 min & 3.6 sec	239 min & 6.6 sec										
	93P/S-B	P/S for EG-M Control	0 sec	240 min	116.94	0.38	116.20	0.38	116.52	0.38	116.50	0.38	116.38	0.38
12	93ECP-D	EDG "D" Ctrl & Ann	2.5 sec	240 min	117.18	0.54	116.44	0.54	116.76	0.54	116.74	0.54	116.62	0.54
	93GS-5D	Gov. Boost pump	2.8 sec	4.2 sec										
	93P-4D	Fuel oil pump	2.8 sec	240 min										
	93EGP-D	Gen "D" Cont Panel			117.26	0.00	116.52	0.00	116.84	0.00	116.82	0.00	116.70	0.00
	EDG "D" FF	EDG "D" Field Flash	6.1 sec	9.1 sec										
	93P/S-D	P/S for EG-M Control	0 sec	240 min	117.01	0.39	116.26	0.39	116.59	0.39	116.57	0.39	116.45	0.39
71DC-B5					117.26	1.70	116.17	8.47	116.88	1.71	116.86	1.71	116.75	1.71
01	06INV-1B	Feedwater Inverter	0 sec	240 min	117.12	1.22	116.02	1.24	116.74	1.23	116.72	1.23	116.60	1.23
04	09ARI-1B	CRD B Alt. Rod Insertion.	10 sec	240 min										
20	71L14	600V SWGR Bus 11400			117.13	0.16	113.13	3.56	116.74	0.16	116.73	0.16	116.61	0.16
22	71L24	600V SWGR Bus 12400			117.15	0.20	115.11	1.90	116.77	0.20	116.75	0.20	116.63	0.20
24	71L44	600V SWGR Bus 14400			117.13	0.12	114.25	1.77	116.75	0.12	116.73	0.12	116.62	0.12
71BMCC-2					117.35	0.54	116.65	0.54	116.97	0.54	116.95	0.54	116.83	0.54
OA2	23MOV-14(Open)	HPCI Turbine Steam Inlet Valve	10 sec	26.7 sec										
	23MOV-14(Control)	23MOV-14 Control	10 sec	26.7 sec	116.71	0.18	116.01	0.18	116.33	0.18	116.31	0.18	116.20	0.18
OD1	23P-140(M)	HPCI Gland Seal Cond Exhstr Pump	10 sec	240 min										
	23P-140(Control)	23P-140 Control	10 sec	240 min	116.88	0.18	116.18	0.18	116.50	0.18	116.48	0.18	116.36	0.18
OE1	23P-141(M)	HPCI Gland Seal Cond Pump	29sec	240 min										
OE1	23P-141(Control)	23P-141 Control	29sec	240 min	116.87	0.18	116.17	0.18	116.49	0.18	116.47	0.18	116.35	0.18
71BMCC-4					117.35	0.62	116.65	0.61	116.97	0.62	116.95	0.62	116.83	0.62
OB1	23MOV-25(Open)	HPCI Min Flow Bypass Valve	29 sec	39 sec										
	23MOV-25(Close)	HPCI Min Flow Bypass Valve	39 sec	49 sec										
	23MOV-25(Open)	HPCI Min Flow Bypass Valve	4 min	4 min & 10 sec										
	23MOV-25(Close)	HPCI Min Flow Bypass Valve	4 min & 10 sec	4 min & 20 sec										
	23MOV-25(Control)	23MOV-25 Control	29 sec	4 min & 20 sec	115.93	0.22	115.24	0.22	115.55	0.22	115.54	0.22	115.42	0.22
OB2	12MOV-18(Close)	Reactor Wtr Cleanup Valve	1 sec	21 sec										
	12MOV-18(Control)	12MOV-18 Control	1 sec	21 sec	115.66	0.22	114.97	0.22	115.29	0.22	115.27	0.22	115.15	0.22
OE2	23P-150 (@10sec)	HPCI Aux Oil Pump	10 sec	40 sec										
	23P-150(@4min)	HPCI Aux Oil Pump	4 min	35 min & 30sec										
	23P-150 (@40min)	HPCI Aux Oil Pump	40 min	240 min										
	23P-150(Control)	HPCI Aux Oil Pump Control	10 sec	240 min	116.47	0.18	115.77	0.18	116.09	0.18	116.07	0.18	115.96	0.18
71BMCC-6					117.35	0.40	116.65	0.40	116.97	0.40	116.95	0.40	116.84	0.40
OA1	23MOV-16(Open)	HPCI Steam Outboard Isol. Valve	10 sec	22.6 sec										
	23MOV-16(Control)	HPCI Steam Outboard Isol VA Control	10 sec	22.6 sec	116.01	0.22	115.32	0.22	115.64	0.22	115.62	0.22	115.50	0.22
OA2	23MOV-19(Open)	HPCI Discharge Downstream Valve	10 sec	38.7 sec										
	23MOV-19(Close)	HPCI Discharge Downstream Valve	4 min	4 min & 26.4 sec										
	23MOV-19(Open)	HPCI Discharge Downstream Valve	35 min	35 min & 28.7 sec										
	23MOV-19(Close)	HPCI Discharge Downstream Valve	40 min	40 min & 26.4 sec										
	23MOV-19(Control)	HPCI Discharge Downstream Control	10 sec	40 min & 26.4 sec	116.67	0.18	115.97	0.18	116.29	0.18	116.27	0.18	116.16	0.18
71H02					116.26	0.24	113.03	5.34	115.74	0.44	115.72	0.44	115.60	0.44
	71-10202(Trip)	Norm.Supply from 4kV Xfrm 71T-4X	0.1 sec	0.2 sec			102.17	4.90						
	71-10210(Trip)	Reac Recirc PP 02-2P-1B	3 sec	3.1 sec										
	71-10212	Res.Supply from 4kV Xfrm 71T-2X	N/A	N/A										
	1HONBO3	Bus 10200 Undervoltage Oper.	0.1 sec	240 min			112.64	0.20	115.34	0.21	115.32	0.21	115.21	0.21
		Bus 10200 Continuous Control	0 sec	240 min	115.80	0.24	112.58	0.23	115.28	0.24	115.27	0.24	115.15	0.24
71H04					116.15	0.71	113.48	5.75	115.65	0.93	115.64	0.93	115.52	0.93
	71-10402(Trip)	Norm Supply from 4kV Xfrm 71T-4Y	0.1 sec	0.2 sec			100.82	4.84						
	71-10404(Trip)	Feed to 4kV Emerg Bus 10600	8.7 sec	8.8 sec										
	71-10410(Trip)	Condensate Pmp 33P-8B	3 sec	3.1 sec										
	86U-1CNDB02	Pmp 37P-8B UV Trip Aux Relay	3 sec	240 min										
	71-10412	Res. Supply from 4kV Transf 71T-2Y	N/A	N/A										
	71-10420(Trip)	Service Water Pump 46P-1B	3 sec	3.1 sec										
	86U-1SWSB01	Pmp 46P-1B UV Trip Aux Relay	3 sec	240 min										
	71-10430(Trip)	Circ Water Pump 36P-1B	3 sec	3.1 sec										
	71-10440(Trip)	Aux Feed to 600V Buses	3 sec	3.1 sec										
	71-10450(Trip)	Cond Booster Pmp 33P-9B	3 sec	3.1 sec										
	86U-1CNDB01	Pmp 33P-9B UV Trip Aux Relay	3 sec	240 min										
	71-10460(Trip)	TB Clsd Loop Clg Wtr Pmp 37P-2B	3 sec	3.1 sec										
	86U-1TBCB01	37P-2B Undervoltage Trip Aux Relay	3 sec	240 min										
	1HONDO3	Bus 10400 Undervoltage Oper.	0.1 sec	240 min			113.06	0.22	115.23	0.22	115.21	0.22	115.09	0.22
		Bus 10400 Continuous Control	0 sec	240 min	114.78	0.71	112.14	0.70	114.28	0.71	114.27	0.71	114.15	0.71
71H06					117.22	1.10	116.43	2.09	116.75	2.10	116.74	2.10	116.62	2.10
	71-10602(Close)	93EDG-B feed to Bus 10600	9.7 sec	9.8 sec										
	71-10602(Motor)	71-10602 Brk Charging Motor	9.8 sec	14.7 sec										
	K10-1EDGB01	K10-1EDGB01EDG B Egn Failure	9.7 sec	240 min										
	71-10602(Trip)	4KV Swgr Bkr 71-10602 Trip	9.8 sec	9.9 sec										
	71-10602(Close)	EDG-B feed to Bus 10600	239 min 7.2 sec	239 min 7.3 sec										
	71-10602(Motor)	71-10602 Brk Charging Motor	239 min 7.3 sec	239 min 12.2 sec										
	K8-1EDGB02	EDG-B&D Tie Brk Closing Rel	4.4 sec	10.7 sec										
	71-10604(Close)	Gen. Tie to 93EDG-B & D	4.5 sec	4.6 sec										
	71-10604(Motor)	71-10604 Brk Charging Motor	4.6 sec	9.5 sec										
	62-1EDGB02	93EDG-B&D Output Brk Closing Rel	9.5 sec	10.7 sec										
	62X-1EDGB02	93EDG-B&D Output Brk Closing Rel	9.5 sec	10.7 sec										
	K9-1EDGB02	Gen. Tie to 93EDG-B & D (Trip)	9.7 sec	240 min										
	71-10604(Trip)	Gen. Tie to 93EDG-B & D	9.8 sec	9.9 sec										
	71-10610	RHR Serv Water Pump 10P-1D	N/A	N/A										
	71-10612(Close)	93EDG-D feed to Bus 10600	9.7 sec	9.8 sec										
	71-10612(Motor)	71-10612 Brk Charging Motor	9.8 sec	14.7 sec										
	K10-1EDGD01	93EDG-D Egn Failure	9.7 sec	240 min										
	71-10612(Trip)	93EDG-D feed to Bus 10600	9.8 sec	9.9 sec										
	71-10614(Trip)	Bus 10400 feed to bus 10600	8.7 sec	8.8 sec										
	71-10620	RHR Service Water Pump 10P-1B	N/A	N/A										
	71-10630	Core Spray Pump 14P-1B	N/A	N/A										
	71-10640	RHR Pump 10P-3D	N/A	N/A										
	71-10650(Close)	RHR Pump 10P-3C	3.5 sec	3.6 sec										
	71-10650(Motor)	71-10650 Brk Charging Motor	3.6 sec	8.5 sec										
	71-10650(Trip)	RHR Pump 10P-3C	8.7 sec	8.8 sec										
	71-10660	Feed to Buses 11600 & 12600	N/A	N/A										
	1HOEB03	Emer. Bus 10600 Undervoltage Circuits	0.1 sec	239 min & 7.2 sec			112.62	1.00	112.93	1.00	112.91	1.00	112.80	1.00
		Emer. Bus 10600 Continuous Control	0 sec	240 min	113.03	1.10	112.28	1.09	112.58	1.09	112.57	1.09	112.46	1.09
71L14					117.13	0.16	113.13	3.56	116.74	0.16	116.73	0.16	116.61	0.16
	71-11416(52X)	RB Clg Wtr PP 15P-2B 52X Energize	2 sec	4.4 sec										
	71-11416(Close)	RB Clg Wtr PP 15P-2B	2.1 sec	4.4 sec										
	71-11418(Trip)	RB Vent Supply Fan 66FN-5B	0.1 sec	0.2 sec			112.02	1.70						
	71-11420(Trip)	RB Vent Return Fan 66FN-12B	0.1 sec	0.2 sec			112.02	1.70						
		Bus 11400 Continuous Control			117.02	0.16	113.03	0.15	116.64	0.16	116.62	0.16	116.50	0.16
71L24					117.15	0.20	115.11	1.90	116.77	0.20	116.75	0.20	116.63	0.20
	71-12418(Trip)	Wtr Heating Pmp 87P-23B	0.1 sec	0.2 sec			112.19	1.71						
		Bus 12400 Continuous Control	0 sec	240 min	116.81	0.20	114.77	0.20	116.43	0.20	116.41	0.20	116.29	0.20
71L26					117.19	0.20	116.45	0.20	116.77	0.20	116.75	0.20	116.63	0.20
	71-12610(52X)	ESW Pmp 46P-2B 52X Energize	2 sec	6.4 sec										
	71-12610(Close)	600V Bkr 71-12610 52CC	2.1 sec	6.4 sec										
		Bus 12600 Continuous Control	0 sec	240 min	116.85	0.20	116.11	0.20	116.43	0.20	116.42	0.20	116.30	0.20
71L34					116.24	0.16	113.88	1.83	115.81	0.16	115.79	0.16	115.67	0.16
	71-13420(Trip)	TB Fan 67FN-6B	0.1 sec	0.2 sec			110.07	1.67						
		Bus 13400 Continuous Control	0 sec	240 min	115.88	0.16	113.52	0.16	115.45	0.16	115.43	0.16	115.31	0.16
71L44					117.13	0.12	114.25	1.77	116.75	0.12	116.73	0.12	116.62	0.12
	71-14426(Trip)	TB Vent Fan 67FN-5B	0.1 sec	0.2 sec			108.86	1.65						
		Bus 14400 Continuous Control	0 sec	240 min	116.74	0.12	113.87	0.12	116.36	0.12	116.34	0.12	116.23	0.12

Aging Factor= 1.25
Temperature Corection at 65° F= 1.08
Design Margin= 1.05

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
time (sec)	0	0.1	0.2	0.3	0.31	1	1.31	2	2.1	2.5	2.8	3	3.1	3.5	3.6	3.7	3.8	4.2	4.35
Start Time - Stop Time (sec)	0.1	0.1	0.1	0.01	0.69	0.31	0.69	0.1	0.4	0.3	0.2	0.1	0.4	0.1	0.1	0.1	0.4	0.15	0.05
amp/plate	5.06	12.39	10.69	10.78	11.41	17.68	17.30	13.11	17.16	17.67	22.56	25.00	22.84	25.92	22.95	21.77	22.95	21.77	21.91
design margin	141.75%	141.75%	141.75%	141.75%	141.75%	141.75%	141.75%	141.75%	141.75%	141.75%	141.75%	141.75%	141.75%	141.75%	141.75%	141.75%	141.75%	141.75%	141.75%
adj amps/plate	7.18	17.56	15.16	15.29	16.17	25.06	24.53	18.59	24.32	25.05	31.99	35.43	32.38	36.74	32.53	30.86	32.53	30.86	31.06
cum amp-hours per plate	0.0002	0.0007	0.0011	0.0012	0.0042	0.0064	0.0111	0.0116	0.0143	0.0164	0.0182	0.0192	0.0228	0.0238	0.0247	0.0256	0.0292	0.0305	0.0309
vpc	1.960	1.954	1.958	1.958	1.956	1.942	1.942	1.952	1.943	1.942	1.931	1.927	1.931	1.925	1.931	1.933	1.931	1.933	1.933
cum time	0.1	0.2	0.3	0.31	1	1.31	2	2.1	2.5	2.8	3	3.1	3.5	3.6	3.7	3.8	4.2	4.35	4.4
volts	117.60	117.24	117.48	117.47	117.38	116.49	116.55	117.14	116.57	116.50	115.89	115.48	115.84	115.98	115.84	115.98	115.84	115.98	115.97

	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
time (sec)	4.4	4.5	4.6	5.6	6	6.1	6.4	7	8.5	8.7	8.8	9.1	9.5	9.7	9.8	9.9	10	10.7	10.8
Start Time - Stop Time (sec)	0.1	0.1	1	0.4	0.1	0.3	0.6	1.5	0.2	0.1	0.3	0.4	0.2	0.1	0.1	0.1	0.7	0.1	0.2
amp/plate	19.96	20.14	20.84	18.32	19.86	24.09	22.00	21.13	20.14	21.09	20.14	15.67	14.71	15.52	22.47	21.65	56.74	56.73	52.68
design margin	141.75%	141.75%	141.75%	141.75%	141.75%	141.75%	141.75%	141.75%	141.75%	141.75%	141.75%	141.75%	141.75%	141.75%	141.75%	141.75%	141.75%	141.75%	141.75%
adj amps/plate	28.30	28.54	29.54	25.97	28.15	34.15	31.19	29.95	28.55	29.90	28.55	22.21	20.86	22.00	31.85	30.69	80.43	80.41	74.67
cum amp-hours per plate	0.0317	0.0325	0.0407	0.0436	0.0443	0.0472	0.0524	0.0649	0.0664	0.0673	0.0697	0.0721	0.0733	0.0739	0.0748	0.0756	0.0913	0.0935	0.0977
vpc	1.937	1.936	1.935	1.940	1.937	1.928	1.933	1.934	1.936	1.934	1.936	1.946	1.949	1.947	1.932	1.933	1.836	1.836	1.850
cum time	4.5	4.6	5.6	6	6.1	6.4	7	8.5	8.7	8.8	9.1	9.5	9.7	9.8	9.9	10	10.7	10.8	11
volts	116.20	116.18	116.10	116.40	116.22	115.70	115.96	116.06	116.18	116.07	116.18	116.78	116.91	116.80	115.90	116.00	110.18	110.18	110.97

	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
time (sec)	11	14.7	17	18	19	20	21	22.6	26.7	29	30	38.7	39	40	48	49	60
Start Time - Stop Time (sec)	3.7	2.3	1	1	1	1	1.6	4.1	2.3	1	8.7	0.3	1	8	1	11	90
amp/plate	29.06	28.01	34.43	34.32	31.71	33.03	29.70	26.99	24.34	31.09	26.14	23.00	26.19	19.32	20.55	18.29	17.95
design margin	141.75%	141.75%	141.75%	141.75%	141.75%	141.75%	141.75%	141.75%	141.75%	141.75%	141.75%	141.75%	141.75%	141.75%	141.75%	141.75%	141.75%
adj amps/plate	41.19	39.71	48.80	48.65	44.95	46.82	42.10	38.26	34.50	44.07	37.05	32.60	37.13	27.38	29.12	25.92	25.44
cum amp-hours per plate	0.1400	0.1654	0.1789	0.1924	0.2049	0.2179	0.2366	0.2802	0.3022	0.3145	0.4040	0.4068	0.4171	0.4779	0.4860	0.5652	1.2013
vpc	1.917	1.920	1.898	1.899	1.908	1.903	1.915	1.922	1.928	1.910	1.924	1.931	1.924	1.938	1.936	1.940	1.941
cum time	14.7	17	18	19	20	21	22.6	26.7	29	30	38.7	39	40	48	49	60	150
volts	115.02	115.22	113.89	113.91	114.46	114.18	114.88	115.35	115.67	114.59	115.45	115.83	115.45	116.28	116.13	116.41	116.46

D03