Note: The critical value of O2 is 115.00 mmHg							
Life Support Practice Data							
O2							
Table Headings	**Coordinated Universal Time**	**Total Atmospheric Pressure**	**Content**	**Partial Pressure**	**Change**	**Rate of Change**	**Time to Criticality***
Units	**HH:MM**	**mmHg**	**%**	**mmHg**	**mmHg**	**mmHg per minute**	**minutes**
Column	**A**	**B**	**C**	**D**	**E**	**F**	**G**
Calculations	**From Data**	**From Data**	**From Data**	**D= B x C/100**	**E = Current D - Previous D**	**F = E/15**	**G= Critical Value-D**
	15:00	*758*	21.570	163.5006	n/a	n/a	n/a
	15:15	*752.5*	21.440	161.3360	-2.1646	-0.1443	321.0940
	15:30	*747.5*	21.500	160.7125	-0.6235	-0.0416	1099.7394
	15:45	*742.5*	20.960	155.6280	-5.0845	-0.3390	119.8584
	16:00	*735*	19.060	140.0910	-15.5370	-1.0358	24.2238
	16:15	*729*	20.940	152.6526	12.5616	0.8374	n/a
	16:30	*725*	21.210	153.7725	1.1199	0.0747	n/a
	16:45	*727.5*	21.040	153.0660	-0.7065	-0.0471	808.1953
	17:00	*730*	21.240	155.0520	1.9860	0.1324	n/a
	17:15	*738*	21.160	156.1608	1.1088	0.0739	n/a
	17:30	*740.1*	21.310	157.7153	1.5545	0.1036	n/a
	17:45	*746*	21.180	158.0028	0.2875	0.0192	n/a
	18:00	*749*	21.100	158.0390	0.0362	0.0024	n/a
	18:15	*755*	20.940	158.0970	0.0580	0.0039	n/a
	18:30	*757*	21.000	158.9700	0.8730	0.0582	n/a
	18:45	*756*	21.110	159.5916	0.6216	0.0414	n/a

Note: The critical value for CO2 is .7600 mmHg							
Life Support Practice Data							
CO2							
Table Headings	**Coordinated Universal Time**	**Total Atmospheric Pressure**	**Content**	**Partial Pressure**	**Change**	**Rate of Change**	**Time to Criticality***
Units	**HH:MM**	**mmHg**	**%**	**mmHg**	**mmHg**	**mmHg per minute**	**minutes**
Column	**A**	**B**	**C**	**D**	**E**	**F**	**G**
Calculations	**From Data**	**From Data**	**From Data**	**D= B x C/100**	**E = Current D - Previous D**	**F = E/15**	**G= Critical Value-D / F**
	15:00	*758*	0.0860	0.6519	n/a	n/a	n/a
	15:15	*752.5*	0.0910	0.6848	0.0329	0.0022	34.3023
	15:30	*747.5*	0.0990	0.7400	0.0553	0.0037	5.4231
	15:45	*742.5*	0.1040	0.7722	0.0322	0.0021	Critical
	16:00	*735*	0.0960	0.7056	-0.0666	-0.0044	n/a
	16:15	*729*	0.0980	0.7144	0.0088	0.0006	77.5170
	16:30	*725*	0.1020	0.7395	0.0251	0.0017	12.2608
	16:45	*727.5*	0.1020	0.7421	0.0026	0.0002	105.5882
	17:00	*730*	0.1110	0.8103	0.0683	0.0046	Critical
	17:15	*738*	0.1450	1.0701	0.2598	0.0173	Critical
	17:30	*740.1*	0.1230	0.9103	-0.1598	-0.0107	Critical
	17:45	*746*	0.1080	0.8057	-0.1046	-0.0070	Critical
	18:00	*749*	0.1000	0.7490	-0.0567	-0.0038	n/a
	18:15	*755*	0.0950	0.7173	-0.0318	-0.0021	n/a
	18:30	*757*	0.0890	0.6737	-0.0435	-0.0029	n/a
	18:45	*756*	0.0710	0.5368	-0.1370	-0.0091	n/a

Power Team Practice Data						
Battery Reserve						
Column	**A**	**B**	**C**	**D**	**E**	**F**
Table Headings	**UTC**	**Reserve Battery Capacity**	**Battery Reserve**	**Change**	**Rate of Change**	**Time to Criticality**
Units	**HH:MM**	**%**	**Kilowatts**	**Kilowatts**	**Kilowatts/ Min**	**Minutes**
Calculations	**From Data**	**From Data**	**C= B/100 X 24.49***	**D= C - previous C**	**E= D/15 (min)**	**F= C- 12.245/E****
	15:00	85	20.82	n/a	n/a	n/a
	15:15	101	24.73	3.92	0.26	47.79
rev	15:30	100	24.49	-0.24	-0.02	-749.69
12/5/02	15:45	104	25.47	0.98	0.07	202.42
	16:00	80	19.59	-5.88	-0.39	-18.74
	16:15	68	16.65	-2.94	-0.20	-22.47
	16:30	66	16.16	-0.49	-0.03	-119.85
	16:45	49	12.00	-4.16	-0.28	0.90
	17:00	60	14.69	2.69	0.18	13.61
	17:15	59	14.45	-0.24	-0.02	-134.69
	17:30	51	12.49	-1.96	-0.13	-1.84
	17:45	56	13.71	1.22	0.08	17.94
	18:00	51	12.49	-1.22	-0.08	-2.94
	18:15	71	17.39	4.90	0.33	15.73
	18:30	83	20.33	2.94	0.20	41.22
	18:45	100	24.49	4.16	0.28	44.10

Power Team Practice Data								
Solar Array								
Column	**A**	**B**	**C**		**D**	**E**	**F**	**G**
Table Headings	**UTC**	**Solar Array Efficiency**	**Power Generation**		**Current Power Load**	**Rate of Charging or Draining**	**Charging or Draining**	**New Time to Criticality**
Units	**HH:MM**	**%**	**Kilowatts/Hour**		**Kilowatts/Hour**	**Kilowatts/ Hour**		**Minutes**
Calculations	**From Data**	**From Data**	**C=B/100 X 24.49***		**See Power Systems Calculator**	**E = C-D**	**Pos # = Charging Neg # =Draining**	**G= Col C from Batt Resv – 12.25 |Column E|**
	15:00	98	24.00		24.49	-0.49	Draining	17.49
	15:15	104	25.47		23.00	2.47	Charging	n/a
	15:30	101	24.73		23.00	1.73	Charging	n/a
	15:45	81	19.84		18.00	1.84	Charging	n/a
	16:00	0	0.00		18.00	-18.00	Draining	0.41
	16:15	0	0.00		18.00	-18.00	Draining	0.24
	16:30	30	7.35		13.00	-5.65	Draining	0.69
	16:45	22	5.39		10.00	-4.61	Draining	0.05
	17:00	18	4.41		10.00	-5.59	Draining	0.44
	17:15	32	7.84		12.00	-4.16	Draining	0.53
	17:30	0	0.00		12.00	-12.00	Draining	0.02
	17:45	0	0.00		12.00	-12.00	Draining	0.12
	18:00	92	22.53		19.00	3.53	Charging	n/a
	18:15	91	22.29		21.00	1.29	Charging	n/a
	18:30	95	23.27		22.00	1.27	Charging	n/a
	18:45	101	24.73		10.00	14.73	Charging	n/a

Radiation Team Practice Data								
TEPC1								
Column	A	B	C	D	E	F	G	H
Table Headings	**UTC**	**15 min DoseTotal**	**Cumulative Dose**	**Rate of Change**	**Time to Criticality**	**Time to Criticality**	**24 hour Projected Total**	**24 Hour Projected Total**
Units	**HH:MM**	**mrems**	**mrems**	**Mrem/min**	**Minutes**	**Hours**	**mrems**	**Rems**
Calculations	**From Data**	**From Data**	**C= B+ Previous C**	**D= B / 15 min**	**E = 100,000 - C / D**	**F= E / 60 min**	**G =d X 1440 (min)**	**H = G/ 1000**
	15:00	697	697	46	2,137	36	66,912	67
	15:15	964	1,661	64	1,530	26	92,544	93
	15:30	1,068	2,729	71	1,366	23	102,528	103
	15:45	649	3,378	43	2,233	37	62,304	62
	16:00	1,737	5,115	116	819	14	166,752	167
	16:15	2,632	7,747	175	526	9	252,672	253
	16:30	2,602	10,349	173	517	9	249,792	250
	16:45	2,902	13,251	193	448	7	278,592	279
	17:00	2,920	16,171	195	431	7	280,320	280
	17:15	2,697	18,868	180	451	8	258,912	259
	17:30	2,222	21,090	148	533	9	213,312	213
	17:45	2,924	24,014	195	390	6	280,704	281
	18:00	2,339	26,353	156	472	8	224,544	225
	18:15	2,759	29,112	184	385	6	264,864	265
	18:30	2,928	32,040	195	348	6	281,088	281
	18:45	2,562	34,602	171	383	6	245,952	246

Radiation Team Practice Data								
TEPC2								
Column	**A**	**B**	**C**	**D**	**E**	**F**	**G**	**H**
Table Headings	**UTC**	**15 min DoseTotal**	**Cumulative Dose**	**Rate of Change**	**Time to Criticality**	**Time to Criticality**	**24 hour Projected Total**	**24 Hour Projected Total**
Units	**HH:MM**	**mrems**	**mrems**	**Mrem/min**	**Minutes**	**Hours**	**mrems**	**Rems**
Calculations	**From Data**	**From Data**	**C= B+ Previous C**	**D= C / 15 min**	**E = 100,000 - C / D**	**F= E / 60 min**	**G =d X 1440 (min)**	**H = G/ 1000**
	15:00	1,512	1,512	101	977	16	145,152	145
	15:15	2,373	3,885	158	608	10	227,808	228
	15:30	1,851	5,736	123	764	13	177,696	178
	15:45	1,152	6,888	77	1,212	20	110,592	111
	16:00	3,073	9,961	205	440	7	295,008	295
	16:15	5,997	15,958	400	210	4	575,712	576
	16:30	6,901	22,859	460	168	3	662,496	662
	16:45	7,730	30,589	515	135	2	742,080	742
	17:00	6,537	37,126	436	144	2	627,552	628
	17:15	5,753	42,879	384	149	2	552,288	552
	17:30	9,492	52,371	633	75	1	911,232	911
	17:45	4,302	56,673	287	151	3	412,992	413
	18:00	2,809	59,482	187	216	4	269,664	270
	18:15	3,528	63,010	235	157	3	338,688	339
	18:30	3,386	66,396	226	149	2	325,056	325
	18:45	4,484	70,880	299	97	2	430,464	430

Storm Team Practice Data										
Proton	**A**	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**I**	**J**
Table Headings	**UTC**	**Protons**	**Category**	**Descriptor**	**Change**	**Rate**	**Time to Next Critical Level***	**Projected 24 hour Proton Production**	**Category**	**Descriptor**
Units	**HH:MM**	**Amount of Protons**	**From S1 to S5**	**From Minor to Extreme**	**Amount of Protons**	**Protons/Min**	**Minutes**	**Amount of Protons**	**From S1 to S5**	**From Minor to Extreme**
Calculations	**From Data**	**From Data**	**See Reference Guide**	**See Reference Guide**	**B-Previous B**	**B /15 min**	**G= Critical Value – B / F**	**(F x 1440 min) + B**	**See Reference Guide**	**See Reference Guide**
	15:00	45	S1	Minor	n/a	3	18.33	4,365	S3	Strong
	15:15	119	S2	Moderate	74	8	111.05	11,543	S4	Severe
rev.	15:30	105	S2	Moderate	-14	7	127.86	10,185	S4	Severe
12/5/02	15:45	350	S2	Moderate	245	23	27.86	33,950	S4	Severe
	16:00	765	S2	Moderate	415	51	4.61	74,205	S4	Severe
	16:15	1,890	S3	Strong	1,125	126	64.37	183,330	S5	Extreme
	16:30	3,410	S3	Strong	1,520	227	28.99	330,770	S5	Extreme
	16:45	2,525	S3	Strong	-885	168	44.41	244,925	S5	Extreme
	17:00	4,100	S3	Strong	1,575	273	21.59	397,700	S5	Extreme
	17:15	3,575	S3	Strong	-525	238	26.96	346,775	S5	Extreme
	17:30	780	S2	Moderate	-2,795	52	4.23	75,660	S4	Severe
	17:45	725	S2	Moderate	-55	48	5.69	70,325	S4	Severe
	18:00	315	S2	Moderate	-410	21	32.62	30,555	S4	Severe
	18:15	810	S2	Moderate	495	54	3.52	78,570	S4	Severe
	18:30	160	S2	Moderate	-650	11	78.75	15,520	S4	Severe
	18:45	10	S1	Minor	-150	1	135.00	970	S2	Moderate

Storm Team Practice Data										
X-ray	**A**	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**I**	**J**
Table Headings	**UTC**	**Protons**	**Category**	**Descriptor**	**Change**	**Rate**	**Time to Next Critical Level***	**Projected X-Ray Flux in 1 Hour**	**Category**	**Descriptor**
Units	**HH:MM**	**X-Ray Flux**	**From R1 to R5**	**From Minor to Extreme**	**Amount of Protons**	**Protons/Min**	**Minutes**	**X-Ray Flux**	**From R1 to R5**	**From Minor to Extreme**
Calculations	**From Data**	**From Data**	**See Reference Guide**	**See Reference Guide**	**B-Previous B**	**B /15 min**	**Critical Value – B / F**	**(F x 60 min) + B**	**See Reference Guide**	**See Reference Guide**
	15:00	9	R1	Minor	n/a	1	68.33	45	R1	Minor
	15:15	16	R1	Minor	7	1	31.88	80	R2	Moderate
rev.	15:30	46	R1	Minor	30	3	1.30	230	R3	Strong
12/5/02	15:45	65	R2	Moderate	19	4	8.08	325	R3	Strong
	16:00	90	R2	Moderate	25	6	1.67	450	R3	Strong
	16:15	452	R3	Strong	362	30	18.19	2260	R5	Extreme
	16:30	892	R3	Strong	440	59	1.82	4460	R5	Extreme
	16:45	1,029	R4	Severe	137	69	14.15	5145	R5	Extreme
	17:00	1,876	R4	Severe	847	125	0.99	9380	R5	Extreme
	17:15	384	R3	Strong	-1,492	26	24.06	1920	R4	Severe
	17:30	236	R3	Strong	-148	16	48.56	1180	R4	Severe
	17:45	134	R3	Strong	-102	9	96.94	670	R3	Strong
	18:00	89	R2	Moderate	-45	6	1.85	445	R3	Strong
	18:15	288	R3	Strong	199	19	37.08	1440	R4	Severe
	18:30	541	R3	Strong	253	36	12.73	2705	R5	Extreme
	18:45	79	R2	Moderate	-462	5	3.99	395	R3	Strong