

Life Support	Real Time Data		Conversion		Rate		Time to Criticality	
	O2 and CO2 Column	A	B	C	D	E	F	G
	Table Headings	Coordinated Universal Time	Total Atmospheric Pressure (O2 or CO2)	Content	Partial Pressure	Change	Rate of Change	Time to Criticality*
	Units	HH:MM	mmHg	%	mmHg	mmHg	mmHg per minute	minutes
	Calculations	From Data	From Data	From Data	D= B x C/100	E = Current D - Previous D	F = E/20	G= Abs Value of Critical Value - D F

Power Team	Battery Reserve		Conversion		Rate		Time to Criticality	
	Column	A	B*	C	D	E	F	G
	Table Headings	UTC	Reserve Battery Capacity	Battery Reserve	Change	Rate of Change	Time to Criticality	Minutes
	Units	24 Hour Clock	%	Kilowatts	Kilowatts	Min	F=	(12.245-D)/E***
	Calculations	From Data	From Data	C= B/100 X 24.49**	D= C -previous C	E= D/20 (min)		

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	24 Hour Clock	%	r	r	Hour		Hours
	Calculations	From Data	From Data	C=B/100 X 24.49**	See Power Systems Calculator (PSC)	E = C-D	Pos # = Charging Neg # =Draining	G= Abs Value of: Col C from Batt Resv - 12.25**** Column E

Radiation	TEPC1 and TEPC2		B	C	D	E	F	G	H
	Column	A							
	Table Headings	UTC	20 min DoseTotal	Cumulative Dose	Dose Rate	Time to Criticality	Time to Criticality	24 hour ProjectedTotal	24 Hour ProjectedTotal
	Units	24 Hour Clock	mrms	mrms	Mrem/min	Minutes	Hours	mrms	Rems

Calculations	From Data	From Data	C= B+ Previous C	D= B / 20 min	E = 100,000 - C D	F= E / 60 min	G =C + (D X 1440)	H = G/ 1000
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STORM Team	Proton		B	C	D	E	F	G	H	I	J
	Column	A									
	Table Headings	UTC	Protons	Category	Descriptor	Change	Rate	Time to Next Critical Level*	Projected 24 hour Proton Production	Category	Descriptor
	Units	24 Hour Clock	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 /20 min	G= Critical Value - B F	(F x 1440 min) + B	See Reference Guide	See Reference Guide

X-ray	Column	A	B	C	D	E	F	G	H	I	J
	Table Headings	UTC	X-Rays	Category	Descriptor	Change	Rate	Time to Next Critical Level*	Projected X-Ray Flux in 1 Hour	Category	Descriptor
	Units	24 Hour Clock	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 /20 min	G= Critical Value - B F	(F x 60 min) + B	See Reference Guide	See Reference Guide