SEQUENCE OF EVENTS File: ct002a.00.rsoe Source: ct002a.pef Generated: Wed Nov 1 20:39:43 2000
M1O (053) DKF: ct002a.00.dkf Alloc: M01O_01097_01158A.SAF
Page 1 OWLT = 0:57, RTLT = 1:54

ITEM	S/C	GND TIME (GMT)	STN	ACTIVITY/EVENT DESCRIPTION	CMD	SCET
1	M1O	01-150/03:45:00	14	Begin Pre-Cal		
2	M1O	01-150/03:45:00	14	At BOT: S/C Antenna Status: U/L=LGA2, D/L=MGA		
3	M1O	01-150/03:45:00	14	At BOT: S/C Receiver Status: RCVR1=ON, TWNC=OFF, RCVR2=OFF, TWNC=OFF		
4	M1O	01-150/03:45:00	14	At BOT: S/C Ranging Mode: RNG=OFF, DOR=OFF		
5	M1O	01-150/03:45:00	14	At BOT: S/C Transmitter Status: PWR=ON, EXC=1, PWR=OFF, EXC=2		
6	M1O	01-150/03:45:00	14	At BOT: S/C Tlm Mode: BR=2100.0, FL=10112, SC=375KHZ, MI=70.3		
7	M1O	01-150/03:45:00	14	Config: CPA SRC=SFOC, BUF=0, BR=125.000000		
8	M1O	01-150/03:45:00	14	Config: CPA Buffers: B0=5.82dB, B1=1.95dB		
9	M1O	01-150/03:45:00	14	Config: TGC: DEST=37		
10	M1O	01-150/03:45:00	14	Config: TGC: BAND=X, BR=2100.000000		
11	M1O	01-150/03:45:00	14	Config: FSS: CH=2, PRI_FL=10112		
12	M1O	01-150/03:45:00	14	Config: TXL		
13	M1O	01-150/03:45:00	14	Config: UWV: AMP=XTWM1, MODE=DIPLEX, POL_UL=RCP, POL_DL=RCP		
14	M1O	01-150/03:45:00	14	Config: BVR		
15	M1O	01-150/03:45:00	14	Config: Doppler Extractor: BIAS=+1MHZ		
16	M1O	01-150/03:45:00	14	Config: MDA: SMPL=0.1		
17	M1O	01-150/03:45:00	14	Config: SRA: SUP= 6.0dB, T1=553, T2=3, T3=0		
18	M1O	01-150/03:45:00	14	Config: SRA: HIGH=4, LOW=16, SERV=D		
19	M1O	01-150/03:45:00	14	Config: SRA: CHOP=E, MDL=SIN, DRVD=0		
20	M1O	01-150/04:43:54		SPAWN, Engine = 65535, Parameters = MGA, 00:05:00, 07:54:58.700, 00:00:00, TRUE	cr_dsn_contact_p	01-150/04:42:58
21	M1O	01-150/04:43:55		Initializes the identified object using the specified files: DWN_DPT, d:/cfg/dwn_dpt_nom_rt_only.cfg,	FSW_OBJ_INITIAL	01-150/04:42:58
22	M1O	01-150/04:43:56		Assigns the command uplink rate: 125_BPS	UPLINK_RATE	01-150/04:42:59
23	M1O	01-150/04:43:58		Selects whether HGA or the LGA will be used for receipt of uplink commands: LGA2	RCVR_SELECT	01-150/04:43:01
24	M1O	01-150/04:43:59		Selects whether the MGA or the HGA will be used for transmission of downlink telemetry when transmitting through the x-band: MGA	XMIT_SELECT	01-150/04:43:02
25	M1O	01-150/04:44:00		Turns power OFF or ON to the SDST exciter on the active telecom side: ON	SDST_EXCITER	01-150/04:43:03
26	M1O	01-150/04:45:00	14	Begin Tracking		
27	M1O	01-150/04:45:00	14	Acquire D/L: X/32, 1-Way, BW=3, BR=2100.0, FL=10112, SC=375KHZ, MOD=ON, MI=70.3, ANT=MGA		
28	M1O	01-150/04:45:00		Turns power OFF or ON to the SSPA assigned as active: ON	SSPA_POWER	01-150/04:44:03
29	M1O	01-150/04:50:01		Initializes the identified object using the specified files: DWN_DPT, d:/cfg/dwn_dpt_sci.cfg,	FSW_OBJ_INITIAL	01-150/04:49:04
30	M1O	01-150/04:50:01	14	D/L Change: X/32, 1-Way, BW=3, BR=2100.0, FL=10112, SC=375KHZ, MOD=ON, MI=70.3, ANT=MGA		
31	M1O	01-150/05:00:56		SPAWN, Engine = 65535, Parameters =	marie_on_noparms	01-150/05:00:00
32	M1O	01-150/05:00:56		Starts the production of packets for the specified channelized APID: 15	CHAN_APID_START	01-150/05:00:00
33	M1O	01-150/05:00:57		Turns power OFF or ON to MARIE instrument: ON	MARIE_PWR	01-150/05:00:01
34	M1O	01-150/05:06:57		Run one of several possible applications(Application 1,2, 255): 1	MARIE_RUN_APP	01-150/05:06:01
35	M1O	01-150/05:10:56		SPAWN, Engine = 65535, Parameters =	grs_on_noparms	01-150/05:10:00
36	M1O	01-150/05:10:57		Turns power OFF or ON to GRS Replacement Heater: OFF	GRS_RP_HTR_PWR	01-150/05:10:01
37	M1O	01-150/05:10:59		Starts the production of packets for the specified channelized APID: 15	CHAN_APID_START	01-150/05:10:02
38	M1O	01-150/05:10:59		Starts the production of packets for the specified channelized APID: 16	CHAN_APID_START	01-150/05:10:02
39	M1O	01-150/05:10:59		Turns power OFF or ON to GRS instrument: ON	GRS_MAIN_PWR	01-150/05:10:02
40	M1O	01-150/05:12:59		Turns power OFF or ON to GRS Anneal: ON	GRS_ANNEAL_PWR	01-150/05:12:02
41	M1O	01-150/05:12:59		NOTE: The following GRS_PASS_THRU command dumps a register indicating from which side of EEPROM the GRS instrument flight software will load.		01-150/05:12:02
42	M1O	01-150/05:13:59		Passes the specified amount of data, data size parameter, through the PACI interface: 16, 0x8050, 0x0166, 0x0000, 0x0000, 0xFFFD, 0x000F, 0x0001, 0x81C4, 0x0000	GRS_PASS_THROUGH	01-150/05:13:02
43	M1O	01-150/05:13:59		NOTE: The following GRS_PASS_THRU command starts the GRS instrument flight software.		01-150/05:13:02
44	M1O	01-150/05:14:19		Passes the specified amount of data, data size parameter, through the PACI interface: 14, 0x8057, 0x0167, 0x0000, 0x0000, 0x0000, 0x0000, 0x81BE, 0x0000, 0x0000	GRS_PASS_THROUGH	01-150/05:13:22
45	M1O	01-150/05:14:39		Synchronizes the spacecraft time with the instrument time via the TSYNC discrete	GRS_TIME_SYNC	01-150/05:13:42
46	M1O	01-150/05:14:59		Turns power OFF or ON to HEND instrument: ON	HEND_PWR	01-150/05:14:02
47	M1O	01-150/05:15:56		SPAWN, Engine = 65535, Parameters =	themis_on_noparm	01-150/05:15:00
48	M1O	01-150/05:15:57		Starts the production of packets for the specified channelized APID: 15	CHAN_APID_START	01-150/05:15:01

ITEM	S/C	GND TIME (GMT)	STN	ACTIVITY/EVENT DESCRIPTION	CMD	SCET
49	M1O	01-150/05:15:58		Starts the production of packets for the specified channelized APID: 16	CHAN_APID_START	01-150/05:15:02
50	M1O	01-150/05:15:59		Initializes the identified object using the specified files: THEMIS, d:/themis/themis.prm, d:/themis/null.dat	FSW_OBJ_INITIAL	01-150/05:15:03
51	M1O	01-150/05:16:59		Turns overall power OFF or ON to the THEMIS IRS from the PDDU: ON	THEM_IRS_PWR_EPS	01-150/05:16:03
52	M1O	01-150/05:17:14		Turns overall power OFF or ON to the THEMIS VIS from the PDDU: ON	THEM_VIS_PWR_EPS	01-150/05:16:18
53	M1O	01-150/05:17:29		Turns main functional power OFF or ON to the THEMIS IR Subsystem in the THEMIS hardware: ON	THEM_IRS_MN_PWR	01-150/05:16:33
54	M1O	01-150/05:17:44		Turns main functional power OFF or ON to the THEMIS Visible Subsystem in the THEMIS hardware: ON	THEM_VIS_MN_PWR	01-150/05:16:48
55	M1O	01-150/05:17:59		Commands the THEMIS software to load the given file into its internal sequencer: d:/themis/themis_init.dat	THEMIS_FILE_LOAD	01-150/05:17:03
56	M1O	01-150/05:20:57		Passes the specified amount of data, data size parameter, through the PACI interface: 10, 0x8064, 0x029E, 0x0000, 0x0000, 0x8302, 0x0000, 0x0000, 0x0000, 0x0000	GRS_PASS_THROUGH	01-150/05:20:01
57	M1O	01-150/07:15:00	45	Begin Pre-Cal		
58	M1O	01-150/07:15:00	45	At BOT: S/C Antenna Status: U/L=LGA2, D/L=MGA		
59	M1O	01-150/07:15:00	45	At BOT: S/C Receiver Status: RCVR1=ON, TWNC=OFF, RCVR2=OFF, TWNC=OFF		
60	M1O	01-150/07:15:00	45	At BOT: S/C Ranging Mode: RNG=OFF, DOR=OFF		
61	M1O	01-150/07:15:00	45	At BOT: S/C Transmitter Status: PWR=ON, EXC=1, PWR=OFF, EXC=2		
62	M1O	01-150/07:15:00	45	At BOT: S/C Tlm Mode: BR=2100.0, FL=10112, SC=375KHZ, MI=70.3		
63	M1O	01-150/07:15:00	45	Config: CPA SRC=SFOC, BUF=0, BR=125.000000		
64	M1O	01-150/07:15:00	45	Config: CPA Buffers: B0=5.82dB, B1=1.95dB		
65	M1O	01-150/07:15:00	45	Config: TGC: DEST=37		
66	M1O	01-150/07:15:00	45	Config: TGC: BAND=X, BR=2100.000000		
67	M1O	01-150/07:15:00	45	Config: FSS: CH=2, PRI_FL=10112		
68	M1O	01-150/07:15:00	45	Config: TXL		
69	M1O	01-150/07:15:00	45	Config: UWV: AMP=XTWM1, MODE=DIPLEX, POL_UL=RCP, POL_DL=RCP		
70	M1O	01-150/07:15:00	45	Config: BVR		
71	M1O	01-150/07:15:00	45	Config: Doppler Extractor: BIAS=+1MHZ		
72	M1O	01-150/07:15:00	45	Config: MDA: SMPL=0.1		
73	M1O	01-150/07:15:00	45	Config: SRA: SUP= 6.0dB, T1=553, T2=3, T3=0		
74	M1O	01-150/07:15:00	45	Config: SRA: HIGH=4, LOW=16, SERV=D		
75	M1O	01-150/07:15:00	45	Config: SRA: CHOP=E, MDL=SIN, DRVD=0		
76	M1O	01-150/07:15:56		SPAWN, Engine = 65535, Parameters = 1, 2	marie_download_p	01-150/07:15:00
77	M1O	01-150/07:15:58		Enables or disables the Communication Enable discrete allowing the spacecraft to send commands/data to MARIE: ENABLE	MARIE_COMM_ENABL	01-150/07:15:01
78	M1O	01-150/07:19:58		The two parameters, marie_start_file and marie_end_file, may be used to download data from a specific set of files or all the files starting with the first available until the last file on the disk: 1, 2	MARIE_DNLD_DATA	01-150/07:19:01
79	M1O	01-150/07:28:00		Run one of several possible applications(Application 1,2, 255): 1	MARIE_RUN_APP	01-150/07:27:03
80	M1O	01-150/07:30:56		Enables or disables the Communication Enable discrete allowing the spacecraft to send commands/data to MARIE: ENABLE	MARIE_COMM_ENABL	01-150/07:30:00
81	M1O	01-150/07:34:56		The two parameters, marie_start_file and marie_end_file, may be used to download data from a specific set of files or all the files starting with the first available until the last file on the disk: 1, 2	MARIE_DNLD_DATA	01-150/07:34:00
82	M1O	01-150/07:42:56		Run one of several possible applications(Application 1,2, 255): 1	MARIE_RUN_APP	01-150/07:42:00
83	M1O	01-150/08:00:56		SPAWN, Engine = 65535, Parameters = 1, 00:10:00	deltador_parms	01-150/08:00:00
84	M1O	01-150/08:00:58		his command directs the DOR off or on: ON	SDST_DOR	01-150/08:00:01
85	M1O	01-150/08:10:59		his command directs the DOR off or on: OFF	SDST_DOR	01-150/08:10:02
86	M1O	01-150/08:15:00	45	Begin Tracking		
87	M1O	01-150/08:15:00	45	Acquire D/L: X/32, 1-Way, BW=3, BR=2100.0, FL=10112, SC=375KHZ, MOD=ON, MI=70.3, ANT=MGA		
88	M1O	01-150/08:25:00	45	Acquire U/L: X/32, PWR=20.0, BR=125.0, CS=5.82dB		
89	M1O	01-150/08:26:54	14	Acquire D/L: X/32, 3-Way/45, BW=3, BR=2100.0, FL=10112, SC=375KHZ, MOD=ON, MI=70.3, ANT=MGA		
90	M1O	01-150/08:26:54	45	Acquire D/L: X/32, 2-Way, BW=3, BR=2100.0, FL=10112, SC=375KHZ, MOD=ON, MI=70.3, ANT=MGA		

ITEM	S/C	GND TIME (GMT)	STN	ACTIVITY/EVENT DESCRIPTION	CMD	SCET
91	M1O	01-150/08:35:00	14	End Tracking		
92	M1O	01-150/08:50:00	14	End Post-Cal		
93	M1O	01-150/12:00:57		SPAWN, Engine = 65535, Parameters =	marie_off_noparm	01-150/12:00:00
94	M1O	01-150/12:00:57		Enables or disables the Communication Enable discrete allowing the spacecraft to send commands/data to MARIE: ENABLE	MARIE_COMM_ENABL	01-150/12:00:00
95	M1O	01-150/12:04:57		Enables or disables the Communication Enable discrete allowing the spacecraft to send commands/data to MARIE: DISABLE	MARIE_COMM_ENABL	01-150/12:04:00
96	M1O	01-150/12:05:57		SPAWN, Engine = 65535, Parameters =	grs_off_noparms	01-150/12:05:00
97	M1O	01-150/12:05:58		Turns power OFF or ON to HEND instrument: OFF	HEND_PWR	01-150/12:05:01
98	M1O	01-150/12:05:59		Sends to the instrument a power down notification of the GRS instrument	GRS_PWR_DWN_NOTE	01-150/12:05:02
99	M1O	01-150/12:08:57		Turns power OFF or ON to MARIE instrument: OFF	MARIE_PWR	01-150/12:08:00
100	M1O	01-150/12:08:59		Turns power OFF or ON to GRS Anneal: OFF	GRS_ANNEAL_PWR	01-150/12:08:02
101	M1O	01-150/12:09:59		Turns power OFF or ON to GRS instrument: OFF	GRS_MAIN_PWR	01-150/12:09:02
102	M1O	01-150/12:10:00		Turns power OFF or ON to GRS Replacement Heater: ON	GRS_RP_HTR_PWR	01-150/12:09:03
103	M1O	01-150/12:10:57		SPAWN, Engine = 65535, Parameters =	themis_off_nopar	01-150/12:10:00
104	M1O	01-150/12:10:58		Turns main functional power OFF or ON to the THEMIS IR Subsystem in the THEMIS hardware: OFF	THEM_IRS_MN_PWR	01-150/12:10:01
105	M1O	01-150/12:11:13		Turns main functional power OFF or ON to the THEMIS Visible Subsystem in the THEMIS hardware: OFF	THEM_VIS_MN_PWR	01-150/12:10:16
106	M1O	01-150/12:11:28		Turns overall power OFF or ON to the THEMIS IRS from the PDDU: OFF	THEM_IRS_PWR_EPS	01-150/12:10:31
107	M1O	01-150/12:11:43		Turns overall power OFF or ON to the THEMIS VIS from the PDDU: OFF	THEM_VIS_PWR_EPS	01-150/12:10:46
108	M1O	01-150/12:15:57		SPAWN, Engine = 65535, Parameters = DAILY	fsw_diagnostics_	01-150/12:15:00
109	M1O	01-150/12:15:57		NOTE: Start Block fsw_diagnostics_parms		01-150/12:15:00
110	M1O	01-150/12:15:58		Causes flight software to execute the VXWorks shell command contained in the parameter: [0x66617374,0x50617274,0x53686F77,0x28686561,0x705F6765,0x745F7061,0x72746974,0x696F6E28, 0x68656170,0x5F676574,0x5F686472,0x28302929,0x2C30293B,0x64202668,0x65617043,0x6F616C65, 0x73636543,0x6F756E74,0x2C312C34,0x0000]	FSW_VX_CMD	01-150/12:15:01
111	M1O	01-150/12:16:09		Causes flight software to execute the VXWorks shell command contained in the parameter: [0x6D656D50,0x61727453,0x686F7728,0x66617374,0x50617274,0x47657450,0x61727449,0x64286865, 0x61705F67,0x65745F70,0x61727469,0x74696F6E,0x28686561,0x705F6765,0x745F6864,0x72283029, 0x29292C30,0x29000000,0x0000,0x0000]	FSW_VX_CMD	01-150/12:15:12
112	M1O	01-150/12:16:39		Creates a non-channelized telemetry packet for APID 7	STATS_DUMP_ALL	01-150/12:15:42
113	M1O	01-150/12:16:40		Executes the designated function for context switch statistics: RESET	STATS_CONTEXT_SW	01-150/12:15:43
114	M1O	01-150/12:16:41		Executes the designated function for task utility statistics: RESET, ALL	STATS_TASK_UTIL	01-150/12:15:44
115	M1O	01-150/12:16:42		Executes the designated function for CPDU statistics: RESET, ALL	STATS_CPDU	01-150/12:15:45
116	M1O	01-150/12:16:43		NOTE: End Block fsw_diagnostics_parms.mod		01-150/12:15:46
117	M1O	01-150/12:25:00	45	NOTE: Transmitter Off in 15 minutes		
118	M1O	01-150/12:40:00	45	Transmitter Off		
119	M1O	01-150/12:41:54	45	Acquire D/L: X/32, 1-Way, BW=3, BR=2100.0, FL=10112, SC=375KHZ, MOD=ON, MI=70.3, ANT=MGA		
120	M1O	01-150/12:45:00	45	End Tracking		
121	M1O	01-150/12:45:01		Initializes the identified object using the specified files: DWN_DPT, d:/cfg/dwn_dpt_nom_rt_only.cfg,	FSW_OBJ_INITIAL	01-150/12:44:03
122	M1O	01-150/12:45:16		Turns power OFF or ON to the SSPA assigned as active: OFF	SSPA_POWER	01-150/12:44:18
123	M1O	01-150/12:45:17		Turns power OFF or ON to the SDST exciter on the active telecom side: OFF	SDST_EXCITER	01-150/12:44:19
124	M1O	01-150/12:45:18		Selects whether HGA or the LGA will be used for receipt of uplink commands: LGA2	RCVR_SELECT	01-150/12:44:20
125	M1O	01-150/12:45:19		Assigns the command uplink rate: 7_8125_BPS	UPLINK_RATE	01-150/12:44:21
126	M1O	01-150/13:00:00	45	End Post-Cal		