SEQUENCE OF EVENTS File: ct001q.00.rsoe Source: ct001q.pef Generated: Fri Sep 15 23:20:53 2000
M1O (053) DKF: ct001q.00.dkf Alloc: M01O_01097_01158.SAF
Page 1 OWLT = 0:57, RTLT = 1:54

ITEM	S/C	GND TIME (GMT)	STN	ACTIVITY/EVENT DESCRIPTION	CMD	SCET
1	M1O	01-150/00:00:56		<<ERROR>> Model Condition File NOT present or NOT read correctly;		01-150/00:00:00
2	M1O	01-150/12:31:28		Deactivates the block running on the given sequence engine if it is currently active, unloads and releases the sequence engine : 4	VM_FORCE_UNLOAD	01-150/12:30:31
3	M1O	01-150/12:31:29		Sets transponder subcarrier frequency: 375_KHZ	SDST_SC_FREQ	01-150/12:30:32
4	M1O	01-150/12:31:30		X-band modulation index: 45	SDST_TLM_MOD_IND	01-150/12:30:33
5	M1O	01-150/12:31:31		This command sets how the x-band datarate is encoded before being modulated onto the downlink: 7_1_2	SDST_ENCD_MODE	01-150/12:30:34
6	M1O	01-150/12:31:32		Turns ranging OFF or ON in the SDST on the active telecom side: ON	SDST_RANGING	01-150/12:30:35
7	M1O	01-150/12:31:33		Turns two-way coherency OFF or ON in the SDST on the active telecom side: ON	SDST_COHERENCY	01-150/12:30:36
8	M1O	01-150/12:31:34		Loads the disignated sequence block from the file system: 4, d:/seq/cr_dsn_contact_parms.mod	VM_LOAD	01-150/12:30:37
9	M1O	01-150/12:31:35		SPAWN, Engine = 4, Parameters = MGA, 00:05:00, 03:26:27, 00:00:00	cr_dsn_contact_p	01-150/12:30:38
10	M1O	01-150/12:31:35		Initializes the identified object using the specified files: DWN_DPT, d:/cfg/dwn_dpt_nom_rt_only.cfg,	FSW_OBJ_INITIAL	01-150/12:30:38
11	M1O	01-150/12:31:36		Assigns the command uplink rate: 125_BPS	UPLINK_RATE	01-150/12:30:39
12	M1O	01-150/12:31:38		Selects whether HGA or the LGA will be used for receipt of uplink commands: LGA2	RCVR_SELECT	01-150/12:30:41
13	M1O	01-150/12:31:39		Selects whether the MGA or the HGA will be used for transmission of downlink telemetry when transmitting through the x-band: MGA	XMIT_SELECT	01-150/12:30:42
14	M1O	01-150/12:31:40		Turns power OFF or ON to the SDST exciter on the active telecom side: ON	SDST_EXCITER	01-150/12:30:43
15	M1O	01-150/12:32:40		Turns power OFF or ON to the SSPA assigned as active: ON	SSPA_POWER	01-150/12:31:43
16	M1O	01-150/12:32:42		Sets the specified telemetry downlink rate which is controlled by the rate at which data is clocked out of the C&DH: 28440_BPS	DOWNLINK_RATE	01-150/12:31:45
17	M1O	01-150/12:37:41		Initializes the identified object using the specified files: DWN_DPT, d:/cfg/dwn_dpt_sci.cfg,	FSW_OBJ_INITIAL	01-150/12:36:44
18	M1O	01-150/12:38:37		Loads the disignated sequence block from the file system: 65535, d:/seq/marie_on_noparms.mod	VM_LOAD	01-150/12:37:40
19	M1O	01-150/12:38:38		SPAWN, Engine = 65535, Parameters =	marie_on_noparms	01-150/12:37:41
20	M1O	01-150/12:38:38		Starts the production of packets for the specified channelized APID: 15	CHAN_APID_START	01-150/12:37:41
21	M1O	01-150/12:38:39		Turns power OFF or ON to MARIE instrument: ON	MARIE_PWR	01-150/12:37:42
22	M1O	01-150/12:44:39		Run one of several possible applications(Application 1,2, 255): 1	MARIE_RUN_APP	01-150/12:43:42
23	M1O	01-150/12:44:57		Deactivates the block running on the given sequence engine if it is currently active, unloads and releases the sequence engine : 7	VM_FORCE_UNLOAD	01-150/12:44:00
24	M1O	01-150/12:44:58		Loads the disignated sequence block from the file system: 7, d:/seq/thruster_cal_parms.mod	VM_LOAD	01-150/12:44:01
25	M1O	01-150/12:44:59		SPAWN, Engine = 7, Parameters = d:/cfg/ahrro_earth_point_cal_45dmz.cfg, d:/cfg/ahrac_desat_nom_cal_45dmz.cfg, 900, 0, 0	thruster_cal_par	01-150/12:44:02
26	M1O	01-150/12:45:00		Selects the mode in which the ACS software will control the spacecraft including which actuator suite will be use to control the spacecraft: INERTIAL_HOLD, RWA	ACS_MODE_SELECT	01-150/12:44:03
27	M1O	01-150/12:45:00		Initializes the identified object using the specified files: AHRRO_EARTH_POINT, d:/cfg/ahrro_earth_point_cal_45dmz.cfg,	FSW_OBJ_INITIAL	01-150/12:44:03
28	M1O	01-150/12:45:00		Initializes the identified object using the specified files: AHRAC_DESAT_NOM, d:/cfg/ahrac_desat_nom_cal_45dmz.cfg,	FSW_OBJ_INITIAL	01-150/12:44:03
29	M1O	01-150/12:45:00		Initializes the identified object using the specified files: AHRRO_EARTH_TARG, d:/cfg/ahrro_earth_targ_rw_nom.cfg,	FSW_OBJ_INITIAL	01-150/12:44:03
30	M1O	01-150/12:45:00		Initializes the identified object using the specified files: AHRAC_SMALL_FORCES, d:/cfg/ahrac_small_forces_nom.cfg,	FSW_OBJ_INITIAL	01-150/12:44:03
31	M1O	01-150/12:45:01		Controls the power to heater circuits being controlled by mechanical thermostats or from the ground in an ON/OFF capacity: RCS_CATBEDS, BOTH, ON	DIR_CTRL_HTR_PWR	01-150/12:44:04
32	M1O	01-150/12:45:02		Initializes the identified object using the specified files: SAM_GIMBAL_AXIS, d:/cfg/sam_ga_sa_cps.cfg,	FSW_OBJ_INITIAL	01-150/12:44:05
33	M1O	01-150/12:45:03		Initializes the identified object using the specified files: SAM_KEEPOUT_ZONE, d:/cfg/sam_koz_def.cfg,	FSW_OBJ_INITIAL	01-150/12:44:06
34	M1O	01-150/12:50:03		Move the specified appendage o the specified gimbal angles unless inhibited by softstops: SA, 0, 0	APPNDG_GOTO_POS	01-150/12:49:06

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35	M1O	01-150/12:55:03		Enables or disables gyro bias updates: DISABLE	GYRO_BIAS_UPDATE	01-150/12:54:06
36	M1O	01-150/12:55:04		Selects the mode in which the ACS software will control the spacecraft including which actuator suite will be use to control the spacecraft: SLEW_EARTH_TARG, RWA	ACS_MODE_SELECT	01-150/12:54:07
37	M1O	01-150/12:55:04		NOTE: Start S/C Turn to Earth-Point		01-150/12:54:07
38	M1O	01-150/12:55:04		NOTE: Expect Signal Level Variation		
39	M1O	01-150/13:07:04		NOTE: Start S/C Turn to Earth-Point		01-150/13:06:07
40	M1O	01-150/13:07:04		NOTE: Expect Signal Level Variation		
41	M1O	01-150/13:10:05		Stops the production of packets for the specified channelized APID: 23	CHAN_APID_STOP	01-150/13:09:08
42	M1O	01-150/13:10:06		Enables or disables gyro bias updates: ENABLE	GYRO_BIAS_UPDATE	01-150/13:09:09
43	M1O	01-150/13:15:06		Starts the production of packets for the specified channelized APID: 12	CHAN_APID_START	01-150/13:14:09
44	M1O	01-150/13:15:07		Starts the production of packets for the specified channelized APID: 25	CHAN_APID_START	01-150/13:14:10
45	M1O	01-150/13:15:08		Forces a desaturation of the reaction wheels	RW_DESAT	01-150/13:14:11
46	M1O	01-150/13:35:08		Stops the production of packets for the specified channelized APID: 12	CHAN_APID_STOP	01-150/13:34:11
47	M1O	01-150/13:35:09		Stops the production of packets for the specified channelized APID: 25	CHAN_APID_STOP	01-150/13:34:12
48	M1O	01-150/13:40:09		Initializes the identified object using the specified files: AHRAC_DESAT_NOM, d:/cfg/ahrac_desat_nom_def.cfg,	FSW_OBJ_INITIAL	01-150/13:39:12
49	M1O	01-150/13:40:16		Deactivates the block running on the given sequence engine if it is currently active, unloads and releases the sequence engine : 7	VM_FORCE_UNLOAD	01-150/13:39:19
50	M1O	01-150/13:40:57		Selects the mode in which the ACS software will control the spacecraft including which actuator suite will be use to control the spacecraft: INERTIAL_HOLD, RWA	ACS_MODE_SELECT	01-150/13:40:00
51	M1O	01-150/13:40:58		Initializes the identified object using the specified files: SAM_GIMBAL_AXIS, d:/cfg/sam_ga_sa_cps.cfg,	FSW_OBJ_INITIAL	01-150/13:40:01
52	M1O	01-150/13:40:59		Initializes the identified object using the specified files: SAM_KEEPOUT_ZONE, d:/cfg/sam_koz_def.cfg,	FSW_OBJ_INITIAL	01-150/13:40:02
53	M1O	01-150/13:41:00		Move the specified appendage o the specified gimbal angles unless inhibited by softstops: SA, -122, 0	APPNDG_GOTO_POS	01-150/13:40:03
54	M1O	01-150/13:46:00		Initializes the identified object using the specified files: AHRRO_EARTH_POINT, d:/cfg/ahrro_earth_pt_def.cfg,	FSW_OBJ_INITIAL	01-150/13:45:03
55	M1O	01-150/13:46:01		Enables or disables gyro bias updates: DISABLE	GYRO_BIAS_UPDATE	01-150/13:45:04
56	M1O	01-150/13:46:02		Stops execution of FSW objects: AHRAC_DESAT_NOM	FSW_OBJ_STOP	01-150/13:45:05
57	M1O	01-150/13:46:03		Selects the mode in which the ACS software will control the spacecraft including which actuator suite will be use to control the spacecraft: SLEW_EARTH_TARG, RWA	ACS_MODE_SELECT	01-150/13:45:06
58	M1O	01-150/13:46:03		NOTE: Start S/C Turn to Earth-Point		01-150/13:45:05
59	M1O	01-150/13:46:03		NOTE: Expect Signal Level Variation		
60	M1O	01-150/13:58:03		NOTE: Start S/C Turn to Earth-Point		01-150/13:57:05
61	M1O	01-150/13:58:03		NOTE: Expect Signal Level Variation		
62	M1O	01-150/14:01:03		Starts execution of FSW objects: AHRAC_DESAT_NOM	FSW_OBJ_START	01-150/14:00:06
63	M1O	01-150/14:01:04		Enables or disables gyro bias updates: ENABLE	GYRO_BIAS_UPDATE	01-150/14:00:07
64	M1O	01-150/14:03:57		Initializes the identified object using the specified files: AHRAC_DESAT_NOM, d:/cfg/ahrac_desat_nom_test_0cbdly.cfg,	FSW_OBJ_INITIAL	01-150/14:03:00
65	M1O	01-150/14:03:58		Forces a desaturation of the reaction wheels	RW_DESAT	01-150/14:03:01
66	M1O	01-150/14:33:58		Deactivates the block running on the given sequence engine if it is currently active, unloads and releases the sequence engine : 6	VM_FORCE_UNLOAD	01-150/14:33:01
67	M1O	01-150/14:34:58		Loads the disignated sequence block from the file system: 6, d:/seq/sa_restraint_cal_parms.mod	VM_LOAD	01-150/14:34:01
68	M1O	01-150/14:34:59		SPAWN, Engine = 6, Parameters = 600, d:/cfg/ahrro_abs_slew_sa_cal.cfg, -122, 0	sa_restraint_cal	01-150/14:34:02
69	M1O	01-150/14:35:00		Initializes the identified object using the specified files: AHRRO_ABS_SLEW, d:/cfg/ahrro_abs_slew_sa_cal.cfg,	FSW_OBJ_INITIAL	01-150/14:34:03
70	M1O	01-150/14:35:00		Stops execution of FSW objects: AHRAC_DESAT_NOM	FSW_OBJ_STOP	01-150/14:34:03
71	M1O	01-150/14:35:15		Selects the mode in which the ACS software will control the spacecraft including which actuator suite will be use to control the spacecraft: SLEW_ABSOLUTE, RWA	ACS_MODE_SELECT	01-150/14:34:18
72	M1O	01-150/14:35:15		NOTE: Start S/C Maneuver		01-150/14:34:18
73	M1O	01-150/14:35:15		NOTE: Expect Signal Level Variation		
74	M1O	01-150/14:45:14		NOTE: Start S/C Maneuver		01-150/14:44:17

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75	M1O	01-150/14:45:14		NOTE: Expect Signal Level Variation		
76	M1O	01-150/14:45:15		Enables or disables fault protection for the designated FSW object: FP_ARTICULATION_MON, 0000, FFFFFFFF	FSW_OBJ_FP_ENAB	01-150/14:44:18
77	M1O	01-150/14:45:16		Loads the disignated sequence block from the file system: 65535, d:/seq/restrain_sa_noparms.mod	VM_LOAD	01-150/14:44:19
78	M1O	01-150/14:45:17		SPAWN, Engine = 65535, Parameters =	restrain_sa_nopa	01-150/14:44:20
79	M1O	01-150/14:45:17		SW enable for turning on/off the MAD card motor power: ENABLE	MADC_MTR_PWR_EN	01-150/14:44:20
80	M1O	01-150/14:45:17		Turns on/off the MAD card motor power: ON	MADC_MTR_PWR	01-150/14:44:20
81	M1O	01-150/14:45:21		Starts execution of FSW objects: SAM_AA_SA	FSW_OBJ_START	01-150/14:44:24
82	M1O	01-150/14:45:21		Initializes the identified object using the specified files: SAM_GIMBAL_AXIS, d:/cfg/sam_ga_sa_cps.cfg,	FSW_OBJ_INITIAL	01-150/14:44:24
83	M1O	01-150/14:45:22		Move the specified appendage o the specified gimbal angles unless inhibited by softstops: SA, 70, 1501	APPNDG_GOTO_POS	01-150/14:44:25
84	M1O	01-150/14:50:02		Move the specified appendage o the specified gimbal angles unless inhibited by softstops: SA, 35, 1501	APPNDG_GOTO_POS	01-150/14:49:05
85	M1O	01-150/14:50:42		Initializes the identified object using the specified files: SAM_GIMBAL_AXIS, d:/cfg/sam_ga_sa_restrain.cfg,	FSW_OBJ_INITIAL	01-150/14:49:45
86	M1O	01-150/14:50:43		Initializes the identified object using the specified files: SAM_KEEPOUT_ZONE, d:/cfg/sam_koz_sa_restrain.cfg,	FSW_OBJ_INITIAL	01-150/14:49:46
87	M1O	01-150/14:50:43		Starts the production of packets for the specified channelized APID: 27	CHAN_APID_START	01-150/14:49:46
88	M1O	01-150/14:50:44		Move the specified appendage o the specified gimbal angles unless inhibited by softstops: SA, 35, 1562	APPNDG_GOTO_POS	01-150/14:49:47
89	M1O	01-150/14:51:44		Move the specified appendage o the specified gimbal angles unless inhibited by softstops: SA, 0, 1562	APPNDG_GOTO_POS	01-150/14:50:47
90	M1O	01-150/14:52:44		Move the specified appendage o the specified gimbal angles unless inhibited by softstops: SA, 0, 1553	APPNDG_GOTO_POS	01-150/14:51:47
91	M1O	01-150/14:52:44		Stops the production of packets for the specified channelized APID: 27	CHAN_APID_STOP	01-150/14:51:47
92	M1O	01-150/14:52:45		Initializes the identified object using the specified files: SAM_GIMBAL_AXIS, d:/cfg/sam_ga_sa_05_ogdb.cfg,	FSW_OBJ_INITIAL	01-150/14:51:48
93	M1O	01-150/14:54:43		Initializes the identified object using the specified files: AHRAD_IMU, d:/cfg/ahrad_imu_hirate_data.cfg,	FSW_OBJ_INITIAL	01-150/14:53:46
94	M1O	01-150/14:56:47		Starts the production of packets for the specified channelized APID: 27	CHAN_APID_START	01-150/14:55:50
95	M1O	01-150/14:56:48		Initializes the identified object using the specified files: SAM_GIMBAL_AXIS, d:/cfg/sam_ga_sa_cal.cfg,	FSW_OBJ_INITIAL	01-150/14:55:51
96	M1O	01-150/14:56:49		Move the specified appendage o the specified gimbal angles unless inhibited by softstops: SA, 0, 1536	APPNDG_GOTO_POS	01-150/14:55:52
97	M1O	01-150/14:57:49		Commands the appendage to an idle state: SA	APPNDG_IDLE	01-150/14:56:52
98	M1O	01-150/14:57:50		Move the specified appendage o the specified gimbal angles unless inhibited by softstops: SA, 0, 1553	APPNDG_GOTO_POS	01-150/14:56:53
99	M1O	01-150/14:58:50		Loads the disignated sequence block from the file system: 65535, d:/seq/unrestrain_sa_parms.mod	VM_LOAD	01-150/14:57:53
100	M1O	01-150/14:58:51		SPAWN, Engine = 65535, Parameters = 0, -122, 0	unrestrain_sa_pa	01-150/14:57:54
101	M1O	01-150/14:58:51		SW enable for turning on/off the MAD card motor power: ENABLE	MADC_MTR_PWR_EN	01-150/14:57:54
102	M1O	01-150/14:58:51		Turns on/off the MAD card motor power: ON	MADC_MTR_PWR	01-150/14:57:54
103	M1O	01-150/14:58:55		Starts execution of FSW objects: SAM_AA_SA	FSW_OBJ_START	01-150/14:57:58
104	M1O	01-150/14:58:56		Initializes the identified object using the specified files: SAM_GIMBAL_AXIS, d:/cfg/sam_ga_sa_restrain.cfg,	FSW_OBJ_INITIAL	01-150/14:57:59
105	M1O	01-150/14:58:57		Initializes the identified object using the specified files: SAM_KEEPOUT_ZONE, d:/cfg/sam_koz_sa_restrain.cfg,	FSW_OBJ_INITIAL	01-150/14:58:00
106	M1O	01-150/14:58:57		Sets the current angular position: SA_INNER, 0	ENC_SET_POS	01-150/14:58:00
107	M1O	01-150/14:58:58		Sets the current angular position: SA_OUTER, 1553	ENC_SET_POS	01-150/14:58:00
108	M1O	01-150/14:58:58		Starts the production of packets for the specified channelized APID: 27	CHAN_APID_START	01-150/14:58:00
109	M1O	01-150/14:58:59		Move the specified appendage o the specified gimbal angles unless inhibited by softstops: SA, 0, 1558	APPNDG_GOTO_POS	01-150/14:58:01

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110	M1O	01-150/14:59:59		Move the specified appendage o the specified gimbal angles unless inhibited by softstops: SA, 35, 1558	APPNDG_GOTO_POS	01-150/14:59:01
111	M1O	01-150/15:00:59		Move the specified appendage o the specified gimbal angles unless inhibited by softstops: SA, 35, 1501	APPNDG_GOTO_POS	01-150/15:00:01
112	M1O	01-150/15:01:59		Stops the production of packets for the specified channelized APID: 27	CHAN_APID_STOP	01-150/15:01:01
113	M1O	01-150/15:02:00		Initializes the identified object using the specified files: SAM_GIMBAL_AXIS, d:/cfg/sam_ga_sa_cps.cfg,	FSW_OBJ_INITIAL	01-150/15:01:02
114	M1O	01-150/15:02:01		Initializes the identified object using the specified files: SAM_KEEPOUT_ZONE, d:/cfg/sam_koz_def.cfg,	FSW_OBJ_INITIAL	01-150/15:01:03
115	M1O	01-150/15:02:02		Move the specified appendage o the specified gimbal angles unless inhibited by softstops: SA, 88, 53	APPNDG_GOTO_POS	01-150/15:01:05
116	M1O	01-150/15:03:21		Initializes the identified object using the specified files: AHRAD_IMU, d:/cfg/ahrad_imu_def.cfg,	FSW_OBJ_INITIAL	01-150/15:02:24
117	M1O	01-150/15:06:42		Move the specified appendage o the specified gimbal angles unless inhibited by softstops: SA, -122, 0	APPNDG_GOTO_POS	01-150/15:05:45
118	M1O	01-150/15:23:51		Selects the mode in which the ACS software will control the spacecraft including which actuator suite will be use to control the spacecraft: SLEW_EARTH_TARG, RWA	ACS_MODE_SELECT	01-150/15:22:54
119	M1O	01-150/15:23:51		NOTE: Start S/C Turn to Earth-Point		01-150/15:22:54
120	M1O	01-150/15:23:51		NOTE: Expect Signal Level Variation		
121	M1O	01-150/15:33:51		Starts execution of FSW objects: AHRAC_DESAT_NOM	FSW_OBJ_START	01-150/15:32:54
122	M1O	01-150/15:35:51		NOTE: Start S/C Turn to Earth-Point		01-150/15:34:54
123	M1O	01-150/15:35:51		NOTE: Expect Signal Level Variation		
124	M1O	01-150/15:43:51		Enables or disables fault protection for the designated FSW object: FP_ARTICULATION_MON, FFFFFFFF, FFFFFFFF	FSW_OBJ_FP_ENAB	01-150/15:42:54
125	M1O	01-150/15:45:51		Deactivates the block running on the given sequence engine if it is currently active, unloads and releases the sequence engine : 6	VM_FORCE_UNLOAD	01-150/15:44:54
126	M1O	01-150/15:45:57		Initializes the identified object using the specified files: DWN_DPT, d:/cfg/dwn_dpt_small_forces.cfg,	FSW_OBJ_INITIAL	01-150/15:45:00
127	M1O	01-150/15:50:57		Initializes the identified object using the specified files: DWN_DPT, d:/cfg/dwn_dpt_tcm_pb.cfg,	FSW_OBJ_INITIAL	01-150/15:50:00
128	M1O	01-150/15:55:57		Initializes the identified object using the specified files: DWN_DPT, d:/cfg/dwn_dpt_evr_data_dump.cfg,	FSW_OBJ_INITIAL	01-150/15:55:00
129	M1O	01-150/16:00:57		Initializes the identified object using the specified files: DWN_DPT, d:/cfg/dwn_dpt_sci.cfg,	FSW_OBJ_INITIAL	01-150/16:00:00
130	M1O	01-150/16:04:09		Initializes the identified object using the specified files: DWN_DPT, d:/cfg/dwn_dpt_nom_rt_only.cfg,	FSW_OBJ_INITIAL	01-150/16:03:12
131	M1O	01-150/16:04:24		Turns power OFF or ON to the SSPA assigned as active: OFF	SSPA_POWER	01-150/16:03:27
132	M1O	01-150/16:04:25		Turns power OFF or ON to the SDST exciter on the active telecom side: OFF	SDST_EXCITER	01-150/16:03:28
133	M1O	01-150/16:04:26		Selects whether HGA or the LGA will be used for receipt of uplink commands: LGA2	RCVR_SELECT	01-150/16:03:29
134	M1O	01-150/16:04:27		Assigns the command uplink rate: 7_8125_BPS	UPLINK_RATE	01-150/16:03:30
135	M1O	01-150/16:11:57		Deactivates the block running on the given sequence engine if it is currently active, unloads and releases the sequence engine : 8	VM_FORCE_UNLOAD	01-150/16:11:00
136	M1O	01-150/16:11:58		Loads the disignated sequence block from the file system: 8, d:/seq/cr_dsn_contact_parms.mod	VM_LOAD	01-150/16:11:01
137	M1O	01-150/16:11:59		SPAWN, Engine = 8, Parameters = HGA, 00:05:00, 03:01:00, 00:00:00	cr_dsn_contact_p	01-150/16:11:02
138	M1O	01-150/16:11:59		Initializes the identified object using the specified files: DWN_DPT, d:/cfg/dwn_dpt_nom_rt_only.cfg,	FSW_OBJ_INITIAL	01-150/16:11:02
139	M1O	01-150/16:12:00		Assigns the command uplink rate: 125_BPS	UPLINK_RATE	01-150/16:11:03
140	M1O	01-150/16:12:02		Selects whether HGA or the LGA will be used for receipt of uplink commands: HGA	RCVR_SELECT	01-150/16:11:05
141	M1O	01-150/16:12:03		Selects whether the MGA or the HGA will be used for transmission of downlink telemetry when transmitting through the x-band: HGA	XMIT_SELECT	01-150/16:11:06
142	M1O	01-150/16:12:04		Turns power OFF or ON to the SDST exciter on the active telecom side: ON	SDST_EXCITER	01-150/16:11:07
143	M1O	01-150/16:13:04		Turns power OFF or ON to the SSPA assigned as active: ON	SSPA_POWER	01-150/16:12:07
144	M1O	01-150/16:18:05		Initializes the identified object using the specified files: DWN_DPT,	FSW_OBJ_INITIAL	01-150/16:17:08

ITEM	S/C	GND TIME (GMT)	STN	ACTIVITY/EVENT DESCRIPTION	CMD	SCET
				d:/cfg/dwn_dpt_sci.cfg,		
145	M1O	01-150/16:19:43		Initializes the identified object using the specified files: SAM_GIMBAL_AXIS, d:/cfg/sam_ga_sa_cps.cfg,	FSW_OBJ_INITIAL	01-150/16:18:46
146	M1O	01-150/16:19:44		Initializes the identified object using the specified files: SAM_KEEPOUT_ZONE, d:/cfg/sam_koz_def.cfg,	FSW_OBJ_INITIAL	01-150/16:18:47
147	M1O	01-150/16:19:45		Move the specified appendage o the specified gimbal angles unless inhibited by softstops: SA, -384, 0	APPNDG_GOTO_POS	01-150/16:18:48
148	M1O	01-150/16:24:45		Deactivates the block running on the given sequence engine if it is currently active, unloads and releases the sequence engine : 7	VM_FORCE_UNLOAD	01-150/16:23:48
149	M1O	01-150/16:24:46		Loads the disignated sequence block from the file system: 7, d:/seq/grs_on_noparms.mod	VM_LOAD	01-150/16:23:49
150	M1O	01-150/16:24:47		SPAWN, Engine = 7, Parameters =	grs_on_noparms	01-150/16:23:50
151	M1O	01-150/16:24:48		Turns power OFF or ON to GRS Replacement Heater: OFF	GRS_RP_HTR_PWR	01-150/16:23:51
152	M1O	01-150/16:24:49		Starts the production of packets for the specified channelized APID: 15	CHAN_APID_START	01-150/16:23:52
153	M1O	01-150/16:24:49		Starts the production of packets for the specified channelized APID: 16	CHAN_APID_START	01-150/16:23:52
154	M1O	01-150/16:24:49		Turns power OFF or ON to GRS instrument: ON	GRS_MAIN_PWR	01-150/16:23:52
155	M1O	01-150/16:26:49		Turns power OFF or ON to GRS Anneal: ON	GRS_ANNEAL_PWR	01-150/16:25:52
156	M1O	01-150/16:26:49		NOTE: The following GRS_PASS_THRU command dumps a register indicating from which side of EEPROM the GRS instrument flight software will load.		01-150/16:25:52
157	M1O	01-150/16:27:49		Passes the specified amount of data, data size parameter, through the PACI interface: 16, 8050, 0166, 0000, 0000, FFFD, 000F, 0001, 81C4, 0000	GRS_PASS_THROUGH	01-150/16:26:52
158	M1O	01-150/16:27:49		NOTE: The following GRS_PASS_THRU command starts the GRS instrument flight software.		01-150/16:26:52
159	M1O	01-150/16:28:09		Passes the specified amount of data, data size parameter, through the PACI interface: 14, 8057, 0167, 0000, 0000, 0000, 0000, 81BE, 0000, 0000	GRS_PASS_THROUGH	01-150/16:27:12
160	M1O	01-150/16:28:29		Synchronizes the spacecraft time with the instrument time via the TSYNC discrete	GRS_TIME_SYNC	01-150/16:27:32
161	M1O	01-150/16:28:49		Turns power OFF or ON to HEND instrument: ON	HEND_PWR	01-150/16:27:52
162	M1O	01-150/16:29:21		Deactivates the block running on the given sequence engine if it is currently active, unloads and releases the sequence engine : 7	VM_FORCE_UNLOAD	01-150/16:28:24
163	M1O	01-150/16:31:57		Starts the production of packets for the specified channelized APID: 13	CHAN_APID_START	01-150/16:31:00
164	M1O	01-150/16:31:58		Selects the method to use when calculating state of charge: AMP_HR_INTGR	SOC_CALC_METHOD	01-150/16:31:01
165	M1O	01-150/16:31:58		NOTE: This disables all three eps_chg_ctrl-handled battery-related FP responses only (6 bits total in LSB order detection first then response: overtemp ccu malfunc cell short).		01-150/16:31:01
166	M1O	01-150/16:31:59		Enables or disables fault protection for the designated FSW object: EPS_CHARGE_CONTROL, 0000, 002A	FSW_OBJ_FP_ENAB	01-150/16:31:02
167	M1O	01-150/16:31:59		NOTE: This disables SOC FP response handled by PCPM (24 bits total 19th bit is response).		01-150/16:31:02
168	M1O	01-150/16:32:00		Enables or disables fault protection for the designated FSW object: FP_POWER_CTL_MON_2, 0000, 40000	FSW_OBJ_FP_ENAB	01-150/16:31:03
169	M1O	01-150/16:32:01		Selects one of 4 tone beacon frequencies: M_437_1000	UHF_TONE_BEACON	01-150/16:31:04
170	M1O	01-150/16:32:02		Selects the mode in which the UHF transmitter is to operate: STAND_BY, 8_KPS, PSK, BYPASS_COD, DISABLE	UHF_XMIT_MODE	01-150/16:31:05
171	M1O	01-150/16:32:03		Turns power OFF or ON to the UHF transceiver: ON	UHF_POWER	01-150/16:31:06
172	M1O	01-150/16:32:04		Selects the mode in which the UHF transmitter is to operate: TONE_BEACON, 8_KPS, PSK, BYPASS_COD, DISABLE	UHF_XMIT_MODE	01-150/16:31:07
173	M1O	01-150/16:37:04		Selects the mode in which the UHF transmitter is to operate: STAND_BY, 8_KPS, PSK, BYPASS_COD, DISABLE	UHF_XMIT_MODE	01-150/16:36:07
174	M1O	01-150/16:37:05		Selects one of 4 tone beacon frequencies: M_440_7425	UHF_TONE_BEACON	01-150/16:36:08
175	M1O	01-150/16:37:06		Selects the mode in which the UHF transmitter is to operate: TONE_BEACON, 8_KPS, PSK, BYPASS_COD, DISABLE	UHF_XMIT_MODE	01-150/16:36:09
176	M1O	01-150/16:42:06		Selects the mode in which the UHF transmitter is to operate: STAND_BY, 8_KPS, PSK, BYPASS_COD, DISABLE	UHF_XMIT_MODE	01-150/16:41:09
177	M1O	01-150/16:42:07		Selects one of 4 tone beacon frequencies: M_444_3850	UHF_TONE_BEACON	01-150/16:41:10
178	M1O	01-150/16:42:08		Selects the mode in which the UHF transmitter is to operate: TONE_BEACON, 8_KPS, PSK, BYPASS_COD, DISABLE	UHF_XMIT_MODE	01-150/16:41:11
179	M1O	01-150/16:47:08		Selects the mode in which the UHF transmitter is to operate: STAND_BY, 8_KPS, PSK, BYPASS_COD, DISABLE	UHF_XMIT_MODE	01-150/16:46:11

ITEM	S/C	GND TIME (GMT)	STN	ACTIVITY/EVENT DESCRIPTION	CMD	SCET
180	M1O	01-150/16:47:09		Selects one of 4 tone beacon frequencies: M_448_0275	UHF_TONE_BEACON	01-150/16:46:12
181	M1O	01-150/16:47:10		Selects the mode in which the UHF transmitter is to operate: TONE_BEACON, 8_KPS, PSK, BYPASS_COD, DISABLE	UHF_XMIT_MODE	01-150/16:46:13
182	M1O	01-150/16:52:10		Selects the mode in which the UHF transmitter is to operate: STAND_BY, 8_KPS, PSK, BYPASS_COD, DISABLE	UHF_XMIT_MODE	01-150/16:51:13
183	M1O	01-150/16:52:11		Turns power OFF or ON to the UHF transceiver: OFF	UHF_POWER	01-150/16:51:14
184	M1O	01-150/16:52:16		Selects the method to use when calculating state of charge: PT_LOOKUP	SOC_CALC_METHOD	01-150/16:51:19
185	M1O	01-150/16:52:17		Stops the production of packets for the specified channelized APID: 13	CHAN_APID_STOP	01-150/16:51:20
186	M1O	01-150/16:52:17		NOTE: This sets the 19th bit to 1 to reenable SOC FP response.		01-150/16:51:20
187	M1O	01-150/16:52:18		Enables or disables fault protection for the designated FSW object: FP_POWER_CTL_MON_2, 40000, 40000	FSW_OBJ_FP_ENAB	01-150/16:51:21
188	M1O	01-150/16:52:18		NOTE: This resets the 2nd 4th and 6th bits to 1 reenabling overtemp ccu malfunc and cell short FP responses.		01-150/16:51:21
189	M1O	01-150/16:52:19		Enables or disables fault protection for the designated FSW object: EPS_CHARGE_CONTROL, 002A, 002A	FSW_OBJ_FP_ENAB	01-150/16:51:22
190	M1O	01-150/16:52:19		NOTE: End of uhf_compat_tone_selfx.		01-150/16:51:22
191	M1O	01-150/16:56:57		Starts the production of packets for the specified channelized APID: 13	CHAN_APID_START	01-150/16:56:00
192	M1O	01-150/16:56:58		Selects the method to use when calculating state of charge: AMP_HR_INTGR	SOC_CALC_METHOD	01-150/16:56:01
193	M1O	01-150/16:56:58		NOTE: This disables all three eps_chg_ctrl-handled battery-related FP responses only (6 bits total in LSB order detection first then response: overtemp ccu malfunc cell short).		01-150/16:56:01
194	M1O	01-150/16:56:59		Enables or disables fault protection for the designated FSW object: EPS_CHARGE_CONTROL, 0000, 002A	FSW_OBJ_FP_ENAB	01-150/16:56:02
195	M1O	01-150/16:56:59		NOTE: This disables SOC FP response handled by PCPM (24 bits total 19th bit is response).		01-150/16:56:02
196	M1O	01-150/16:57:00		Enables or disables fault protection for the designated FSW object: FP_POWER_CTL_MON_2, 0000, 40000	FSW_OBJ_FP_ENAB	01-150/16:56:03
197	M1O	01-150/16:57:01		Selects the mode in which the UHF transmitter is to operate: UNREL_BIT_STR, 8_KPS, PSK, BYPASS_COD, PSK	UHF_XMIT_MODE	01-150/16:56:04
198	M1O	01-150/16:57:02		Turns power OFF or ON to the UHF transceiver: ON	UHF_POWER	01-150/16:56:05
199	M1O	01-150/17:02:02		Selects the mode in which the UHF transmitter is to operate: UNREL_BIT_STR, 32_KPS, PSK, BYPASS_COD, PSK	UHF_XMIT_MODE	01-150/17:01:05
200	M1O	01-150/17:07:02		Selects the mode in which the UHF transmitter is to operate: UNREL_BIT_STR, 128_KPS, PSK, BYPASS_COD, PSK	UHF_XMIT_MODE	01-150/17:06:05
201	M1O	01-150/17:12:02		Selects the mode in which the UHF transmitter is to operate: UNREL_BIT_STR, 256_KPS, PSK, BYPASS_COD, PSK	UHF_XMIT_MODE	01-150/17:11:05
202	M1O	01-150/17:17:02		Turns power OFF or ON to the UHF transceiver: OFF	UHF_POWER	01-150/17:16:05
203	M1O	01-150/17:17:07		Selects the method to use when calculating state of charge: PT_LOOKUP	SOC_CALC_METHOD	01-150/17:16:10
204	M1O	01-150/17:17:08		Stops the production of packets for the specified channelized APID: 13	CHAN_APID_STOP	01-150/17:16:11
205	M1O	01-150/17:17:08		NOTE: This sets the 19th bit to 1 to reenable SOC FP response.		01-150/17:16:11
206	M1O	01-150/17:17:09		Enables or disables fault protection for the designated FSW object: FP_POWER_CTL_MON_2, 40000, 40000	FSW_OBJ_FP_ENAB	01-150/17:16:12
207	M1O	01-150/17:17:09		NOTE: This resets the 2nd 4th and 6th bits to 1 reenabling overtemp ccu malfunc and cell short FP responses.		01-150/17:16:12
208	M1O	01-150/17:17:10		Enables or disables fault protection for the designated FSW object: EPS_CHARGE_CONTROL, 002A, 002A	FSW_OBJ_FP_ENAB	01-150/17:16:13
209	M1O	01-150/17:17:10		NOTE: End of uhf_compat_bitstrm_selfx.		01-150/17:16:13
210	M1O	01-150/17:20:18		Deactivates the block running on the given sequence engine if it is currently active, unloads and releases the sequence engine : 6	VM_FORCE_UNLOAD	01-150/17:19:21
211	M1O	01-150/17:20:19		Loads the disignated sequence block from the file system: 6, d:/seq/grs_off_noparms.mod	VM_LOAD	01-150/17:19:22
212	M1O	01-150/17:20:20		SPAWN, Engine = 6, Parameters =	grs_off_noparms	01-150/17:19:23
213	M1O	01-150/17:20:21		Turns power OFF or ON to HEND instrument: OFF	HEND_PWR	01-150/17:19:24
214	M1O	01-150/17:20:22		Sends to the instrument a power down notification of the GRS instrument	GRS_PWR_DWN_NOTE	01-150/17:19:25
215	M1O	01-150/17:21:32		Turns power OFF or ON to GRS Anneal: OFF	GRS_ANNEAL_PWR	01-150/17:20:35
216	M1O	01-150/17:21:33		Turns power OFF or ON to GRS instrument: OFF	GRS_MAIN_PWR	01-150/17:20:36
217	M1O	01-150/17:21:34		Turns power OFF or ON to GRS Replacement Heater: ON	GRS_RP_HTR_PWR	01-150/17:20:37

ITEM	S/C	GND TIME (GMT)	STN	ACTIVITY/EVENT DESCRIPTION	CMD	SCET
218	M1O	01-150/17:21:50		Deactivates the block running on the given sequence engine if it is currently active, unloads and releases the sequence engine : 6	VM_FORCE_UNLOAD	01-150/17:20:53
219	M1O	01-150/17:21:51		Deactivates the block running on the given sequence engine if it is currently active, unloads and releases the sequence engine : 5	VM_FORCE_UNLOAD	01-150/17:20:54
220	M1O	01-150/17:21:52		Loads the disignated sequence block from the file system: 5, d:/seq/themis_on_noparms.mod	VM_LOAD	01-150/17:20:55
221	M1O	01-150/17:21:53		SPAWN, Engine = 5, Parameters =	themis_on_noparm	01-150/17:20:56
222	M1O	01-150/17:21:54		Starts the production of packets for the specified channelized APID: 15	CHAN_APID_START	01-150/17:20:57
223	M1O	01-150/17:21:55		Starts the production of packets for the specified channelized APID: 16	CHAN_APID_START	01-150/17:20:58
224	M1O	01-150/17:21:56		Turns overall power OFF or ON to the THEMIS IRS from the PDDU: ON	THEM_IRS_PWR_EPS	01-150/17:20:59
225	M1O	01-150/17:22:11		Turns overall power OFF or ON to the THEMIS VIS from the PDDU: ON	THEM_VIS_PWR_EPS	01-150/17:21:14
226	M1O	01-150/17:22:26		Turns main functional power OFF or ON to the THEMIS IR Subsystem in the THEMIS hardware: ON	THEM_IRS_MN_PWR	01-150/17:21:29
227	M1O	01-150/17:22:41		Turns main functional power OFF or ON to the THEMIS Visible Subsystem in the THEMIS hardware: ON	THEM_VIS_MN_PWR	01-150/17:21:44
228	M1O	01-150/17:22:56		Commands the THEMIS software to load the given file into its internal sequencer: d:/themis/themis_init.dat	THEMIS_FILE_LOAD	01-150/17:21:59
229	M1O	01-150/17:23:20		Deactivates the block running on the given sequence engine if it is currently active, unloads and releases the sequence engine : 5	VM_FORCE_UNLOAD	01-150/17:22:23
230	M1O	01-150/17:23:57		Forces a desaturation of the reaction wheels	RW_DESAT	01-150/17:23:00
231	M1O	01-150/17:53:57		Stops execution of FSW objects: AHRAC_DESAT_NOM	FSW_OBJ_STOP	01-150/17:53:00
232	M1O	01-150/17:53:57		NOTE: It’s assumed that ACS_MODE transition for Earth_targ to Earth_pt is enabled.		01-150/17:53:00
233	M1O	01-150/17:53:57		NOTE: It’s further assumed that a RW_DESAT has been completed before this starcal activity		01-150/17:53:00
234	M1O	01-150/17:53:58		Initializes the identified object using the specified files: AHRRO_ABS_SLEW, d:/cfg/ahrro_abs_slew_starcal1.cfg,	FSW_OBJ_INITIAL	01-150/17:53:01
235	M1O	01-150/17:53:59		Initializes the identified object using the specified files: AHRRO_REL_SLEW, d:/cfg/ahrro_rel_slew_starcal.cfg,	FSW_OBJ_INITIAL	01-150/17:53:02
236	M1O	01-150/17:54:00		Starts the production of packets for the specified channelized APID: 23	CHAN_APID_START	01-150/17:53:03
237	M1O	01-150/17:54:01		Enables or disables gyro bias updates: DISABLE	GYRO_BIAS_UPDATE	01-150/17:53:04
238	M1O	01-150/17:54:02		Initializes the identified object using the specified files: DWN_DPT, d:/cfg/dwn_dpt_rec_eng_only.cfg,	FSW_OBJ_INITIAL	01-150/17:53:05
239	M1O	01-150/17:54:03		Selects the mode in which the ACS software will control the spacecraft including which actuator suite will be use to control the spacecraft: SLEW_ABSOLUTE, RWA	ACS_MODE_SELECT	01-150/17:53:06
240	M1O	01-150/17:54:03		NOTE: Start S/C Maneuver		01-150/17:53:05
241	M1O	01-150/17:54:04		Selects whether HGA or the LGA will be used for receipt of uplink commands: LGA2	RCVR_SELECT	01-150/17:53:07
242	M1O	01-150/17:54:05		Assigns the command uplink rate: 7_8125_BPS	UPLINK_RATE	01-150/17:53:08
243	M1O	01-150/18:04:02		NOTE: Start S/C Maneuver		01-150/18:03:04
244	M1O	01-150/18:08:57		Commands the THEMIS software to load the given file into its internal sequencer: d:/themis/starimaging.dat	THEMIS_FILE_LOAD	01-150/18:08:00
245	M1O	01-150/18:09:32		Selects the mode in which the ACS software will control the spacecraft including which actuator suite will be use to control the spacecraft: SLEW_RELATIVE, RWA	ACS_MODE_SELECT	01-150/18:08:35
246	M1O	01-150/18:09:32		NOTE: Start S/C Maneuver		01-150/18:08:34
247	M1O	01-150/18:10:27		Commands the THEMIS software to load the given file into its internal sequencer: d:/themis/starimaging.dat	THEMIS_FILE_LOAD	01-150/18:09:30
248	M1O	01-150/18:11:02		Selects the mode in which the ACS software will control the spacecraft including which actuator suite will be use to control the spacecraft: SLEW_RELATIVE, RWA	ACS_MODE_SELECT	01-150/18:10:05
249	M1O	01-150/18:11:02		NOTE: Start S/C Maneuver		01-150/18:10:04
250	M1O	01-150/18:11:57		Commands the THEMIS software to load the given file into its internal sequencer: d:/themis/starimaging.dat	THEMIS_FILE_LOAD	01-150/18:11:00
251	M1O	01-150/18:12:32		Selects the mode in which the ACS software will control the spacecraft including which actuator suite will be use to control the spacecraft: SLEW_RELATIVE, RWA	ACS_MODE_SELECT	01-150/18:11:35
252	M1O	01-150/18:12:32		NOTE: Start S/C Maneuver		01-150/18:11:34
253	M1O	01-150/18:13:27		Commands the THEMIS software to load the given file into its internal sequencer: d:/themis/starimaging.dat	THEMIS_FILE_LOAD	01-150/18:12:30

ITEM	S/C	GND TIME (GMT)	STN	ACTIVITY/EVENT DESCRIPTION	CMD	SCET
254	M1O	01-150/18:14:02		Selects the mode in which the ACS software will control the spacecraft including which actuator suite will be use to control the spacecraft: SLEW_RELATIVE, RWA	ACS_MODE_SELECT	01-150/18:13:05
255	M1O	01-150/18:14:02		NOTE: Start S/C Maneuver		01-150/18:13:04
256	M1O	01-150/18:14:57		Commands the THEMIS software to load the given file into its internal sequencer: d:/themis/starimaging.dat	THEMIS_FILE_LOAD	01-150/18:14:00
257	M1O	01-150/18:15:31		Initializes the identified object using the specified files: AHRRO_ABS_SLEW, d:/cfg/ahrro_abs_slew_starcal2.cfg,	FSW_OBJ_INITIAL	01-150/18:14:34
258	M1O	01-150/18:15:32		Selects the mode in which the ACS software will control the spacecraft including which actuator suite will be use to control the spacecraft: SLEW_ABSOLUTE, RWA	ACS_MODE_SELECT	01-150/18:14:35
259	M1O	01-150/18:15:32		NOTE: Start S/C Maneuver		01-150/18:14:34
260	M1O	01-150/18:19:31		NOTE: Start S/C Maneuver		01-150/18:18:33
261	M1O	01-150/18:21:01		NOTE: Start S/C Maneuver		01-150/18:20:03
262	M1O	01-150/18:22:31		NOTE: Start S/C Maneuver		01-150/18:21:33
263	M1O	01-150/18:24:01		NOTE: Start S/C Maneuver		01-150/18:23:03
264	M1O	01-150/18:25:31		NOTE: Start S/C Maneuver		01-150/18:24:33
265	M1O	01-150/18:30:27		Commands the THEMIS software to load the given file into its internal sequencer: d:/themis/starimaging.dat	THEMIS_FILE_LOAD	01-150/18:29:30
266	M1O	01-150/18:31:02		Selects the mode in which the ACS software will control the spacecraft including which actuator suite will be use to control the spacecraft: SLEW_RELATIVE, RWA	ACS_MODE_SELECT	01-150/18:30:05
267	M1O	01-150/18:31:02		NOTE: Start S/C Maneuver		01-150/18:30:04
268	M1O	01-150/18:31:57		Commands the THEMIS software to load the given file into its internal sequencer: d:/themis/starimaging.dat	THEMIS_FILE_LOAD	01-150/18:31:00
269	M1O	01-150/18:32:32		Selects the mode in which the ACS software will control the spacecraft including which actuator suite will be use to control the spacecraft: SLEW_RELATIVE, RWA	ACS_MODE_SELECT	01-150/18:31:35
270	M1O	01-150/18:32:32		NOTE: Start S/C Maneuver		01-150/18:31:34
271	M1O	01-150/18:33:27		Commands the THEMIS software to load the given file into its internal sequencer: d:/themis/starimaging.dat	THEMIS_FILE_LOAD	01-150/18:32:30
272	M1O	01-150/18:34:02		Selects the mode in which the ACS software will control the spacecraft including which actuator suite will be use to control the spacecraft: SLEW_RELATIVE, RWA	ACS_MODE_SELECT	01-150/18:33:05
273	M1O	01-150/18:34:02		NOTE: Start S/C Maneuver		01-150/18:33:04
274	M1O	01-150/18:34:57		Commands the THEMIS software to load the given file into its internal sequencer: d:/themis/starimaging.dat	THEMIS_FILE_LOAD	01-150/18:34:00
275	M1O	01-150/18:35:32		Selects the mode in which the ACS software will control the spacecraft including which actuator suite will be use to control the spacecraft: SLEW_RELATIVE, RWA	ACS_MODE_SELECT	01-150/18:34:35
276	M1O	01-150/18:35:32		NOTE: Start S/C Maneuver		01-150/18:34:34
277	M1O	01-150/18:36:27		Commands the THEMIS software to load the given file into its internal sequencer: d:/themis/starimaging.dat	THEMIS_FILE_LOAD	01-150/18:35:30
278	M1O	01-150/18:37:01		Initializes the identified object using the specified files: AHRRO_EARTH_TARG, d:/cfg/ahrro_earth_targ_rw_nom.cfg,	FSW_OBJ_INITIAL	01-150/18:36:04
279	M1O	01-150/18:37:02		Selects the mode in which the ACS software will control the spacecraft including which actuator suite will be use to control the spacecraft: SLEW_EARTH_TARG, RWA	ACS_MODE_SELECT	01-150/18:36:05
280	M1O	01-150/18:37:02		NOTE: Start S/C Turn to Earth-Point		01-150/18:36:04
281	M1O	01-150/18:41:01		NOTE: Start S/C Turn to Earth-Point		01-150/18:40:03
282	M1O	01-150/18:42:31		NOTE: Start S/C Turn to Earth-Point		01-150/18:41:33
283	M1O	01-150/18:44:01		NOTE: Start S/C Turn to Earth-Point		01-150/18:43:03
284	M1O	01-150/18:45:31		NOTE: Start S/C Turn to Earth-Point		01-150/18:44:33
285	M1O	01-150/18:46:16		Selects whether HGA or the LGA will be used for receipt of uplink commands: HGA	RCVR_SELECT	01-150/18:45:19
286	M1O	01-150/18:46:17		Assigns the command uplink rate: 125_BPS	UPLINK_RATE	01-150/18:45:20
287	M1O	01-150/18:49:02		NOTE: Start S/C Turn to Earth-Point		01-150/18:48:05
288	M1O	01-150/18:51:17		Initializes the identified object using the specified files: DWN_DPT, d:/cfg/dwn_dpt_sci.cfg,	FSW_OBJ_INITIAL	01-150/18:50:20
289	M1O	01-150/18:52:03		Enables or disables gyro bias updates: ENABLE	GYRO_BIAS_UPDATE	01-150/18:51:06
290	M1O	01-150/18:52:04		Stops the production of packets for the specified channelized APID: 23	CHAN_APID_STOP	01-150/18:51:07
291	M1O	01-150/18:52:05		Starts execution of FSW objects: AHRAC_DESAT_NOM	FSW_OBJ_START	01-150/18:51:08

ITEM	S/C	GND TIME (GMT)	STN	ACTIVITY/EVENT DESCRIPTION	CMD	SCET
292	M1O	01-150/18:53:57		Deactivates the block running on the given sequence engine if it is currently active, unloads and releases the sequence engine : 6	VM_FORCE_UNLOAD	01-150/18:53:00
293	M1O	01-150/18:53:58		Loads the disignated sequence block from the file system: 6, d:/seq/themis_off_noparms.mod	VM_LOAD	01-150/18:53:01
294	M1O	01-150/18:53:59		SPAWN, Engine = 6, Parameters =	themis_off_nopar	01-150/18:53:02
295	M1O	01-150/18:54:00		Turns main functional power OFF or ON to the THEMIS IR Subsystem in the THEMIS hardware: OFF	THEM_IRS_MN_PWR	01-150/18:53:03
296	M1O	01-150/18:54:15		Turns main functional power OFF or ON to the THEMIS Visible Subsystem in the THEMIS hardware: OFF	THEM_VIS_MN_PWR	01-150/18:53:18
297	M1O	01-150/18:54:30		Turns overall power OFF or ON to the THEMIS IRS from the PDDU: OFF	THEM_IRS_PWR_EPS	01-150/18:53:33
298	M1O	01-150/18:54:45		Turns overall power OFF or ON to the THEMIS VIS from the PDDU: OFF	THEM_VIS_PWR_EPS	01-150/18:53:48
299	M1O	01-150/18:55:00		Deactivates the block running on the given sequence engine if it is currently active, unloads and releases the sequence engine : 6	VM_FORCE_UNLOAD	01-150/18:54:03
300	M1O	01-150/18:55:57		Loads the disignated sequence block from the file system: 6, d:/seq/marie_download_parms.mod	VM_LOAD	01-150/18:55:00
301	M1O	01-150/18:55:58		SPAWN, Engine = 6, Parameters = 6, 6	marie_download_p	01-150/18:55:01
302	M1O	01-150/18:55:59		Enables or disables the Communication Enable discrete allowing the spacecraft to send commands/data to MARIE: ENABLE	MARIE_COMM_ENABL	01-150/18:55:02
303	M1O	01-150/18:59:59		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: 6, 6	MARIE_DNLD_DATA	01-150/18:59:02
304	M1O	01-150/19:04:01		Run one of several possible applications(Application 1,2, 255): 1	MARIE_RUN_APP	01-150/19:03:04
305	M1O	01-150/19:04:58		Deactivates the block running on the given sequence engine if it is currently active, unloads and releases the sequence engine : 6	VM_FORCE_UNLOAD	01-150/19:04:01
306	M1O	01-150/19:19:06		Initializes the identified object using the specified files: DWN_DPT, d:/cfg/dwn_dpt_nom_rt_only.cfg,	FSW_OBJ_INITIAL	01-150/19:18:09
307	M1O	01-150/19:19:21		Turns power OFF or ON to the SSPA assigned as active: OFF	SSPA_POWER	01-150/19:18:24
308	M1O	01-150/19:19:22		Turns power OFF or ON to the SDST exciter on the active telecom side: OFF	SDST_EXCITER	01-150/19:18:25
309	M1O	01-150/19:19:23		Selects whether HGA or the LGA will be used for receipt of uplink commands: LGA2	RCVR_SELECT	01-150/19:18:26
310	M1O	01-150/19:19:24		Assigns the command uplink rate: 7_8125_BPS	UPLINK_RATE	01-150/19:18:27
311	M1O	01-151/00:00:00		Light Time: OWLT = 00:57, RTLT = 01:55		