XRT Timeline to be uploaded on 2009/06/16

Period: 2009/06/16 10:48:00 - 2009/06/20 10:34:00

* * * * * **Normal mode** * * * * *

XOB #15EB: XBP Q90 Al/poly (AEC4) + Ti/poly (AEC4) + Thin-Be (AEC0)- med cadence -FOV384

Term	Pointing (x, y)	Comment
06/16 11:01:02 - 06/16 13:16:00	Track (695.7, 295.1) @ 06/16 10:58:00	# OP start + 10min Uni polar region for SOT.

PROG= 08 Inf.-time(s)

Subr= 1 1-time(s) 120.0sec

Seqn= 69 10-time(s) 60.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Al-poly/Open	C-poly/Open	close	Safe	Norm	250ms	Obs	1x1	384x384 (1024, 1024)	Q=90	4	0	2.0sec
Open/Ti-poly	Open/thick-Al	close	Safe	Norm	1.00s	Obs	1x1	384x384 (1024, 1024)	Q=90	4	0	2.0sec

Subr= 2 1-time(s) 4.0sec

Seqn= 4 1-time(s) 4.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
thin-Be/Open	thin-Be/Open	close	Safe	Norm	64.0s	Obs	1x1	384x384 (1024, 1024)	Q=90	0	0	2.0sec

XOB #16AD: G-Band Alignment with East limb Q90 2x2 (G-band only) - 8 min cadence-wNGT

Term	Pointing (x, y)	Comment
06/16 13:46:00 - 06/16 15:29:54	Fixed (-945.0, 0.0)	* Co-alighnment progrum on east limb.

PROG= 06 1-time(s)

Subr= 1 1-time(s) 360.0sec

Seqn= 13 15-time(s) 480.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/G-band	Open/G-band	open	Safe	Norm	16ms	Obs	2x2	1536x2048 (1280, 1024)	Q=90	0	0	2.0sec

XOB #16AC: G-Band Alignment with North Pole Q90 2x2(G-band only) - 5min cadence - Partial Sun-wNGT

Term	Pointing (x, y)	Comment
06/16 15:33:00 - 06/16 17:56:54	Fixed (0.0, 945.0)	* Co-alignment progrum on North limb.

PROG= 13 1-time(s)

Subr= 1 1-time(s) 360.0sec

Seqn= 10 24-time(s) 300.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/G-band	Open/G-band	open	Safe	Norm	16ms	Obs	2x2	2048x1536 (1024, 768)	Q=90	0	0	2.0sec

XOB #166D: Synoptic Q95 2x2 - Al/poly(181/2048) + Dark cal(2x2 4x4 8x8 512 Q98) + Ti-poly(256/4096) + G-band(16)

Term	Pointing (x, y)	Comment
06/16 18:00:00 - 06/16 18:11:30	Fixed (0.0, 0.0)	synoptic, shifted -3.0 min and dry run for eclipse observation untill 19:50.
06/17 17:58:00 - 06/17 18:04:54	Fixed (0.0, 0.0)	synoptic, shifted -5.0 min

PROG= 11 1-time(s)

Subr= 1 1-time(s) 12.0sec

Seqn= 14 1-time(s) 4.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Al-poly/Open	Al-poly/Open	close	Safe	Norm	177ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Al-poly/Open	Al-poly/Open	close	Safe	Norm	2.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec

Seqn= 7 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/Ti-poly	Open/thick-Al	close	Safe	Dark	500ms	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
Open/Ti-poly	Open/thick-Al	close	Safe	Dark	500ms	Obs	4x4	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
Open/Ti-poly	Open/thick-Al	close	Safe	Dark	500ms	Obs	8x8	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec

Seqn= 21 1-time(s) 4.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/Ti-poly	Open/Ti-poly	close	Safe	Norm	250ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Open/Ti-poly	Open/Ti-poly	close	Safe	Norm	4.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec

Seqn= 92 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/G-band	Open/G-band	open	Safe	Norm	16ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec

XOB #16C6: Eclipse 20090722-1 dryrun

Term	Pointing (x, y)	Comment
06/16 18:55:00 - 06/16 19:49:54	Fixed (0.0, 0.0)	synoptic, shifted -3.0 min and dry run for eclipse observation untill 19:50.

PROG= 04 1-time(s)

Subr= 1 1-time(s) 60.0sec

Seqn= 93 2-time(s) 30.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/Ti-poly	Open/Ti-poly	close	Safe	Dark	4.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
Open/Ti-poly	Open/Ti-poly	close	Safe	Dark	4.00s	Obs	2x2	512x512 (1024, 256)	Q=98	0	0	2.0sec
Open/Ti-poly	Open/Ti-poly	close	Safe	Norm	250ms	Obs	2x2	2048x2048 (1024, 1024)	Q=92	0	0	2.0sec

Subr= 2 1-time(s) 2.0sec

Seqn= 9 72-time(s) 15.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/Ti-poly	Open/Ti-poly	close	Safe	Norm	4.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=92	0	0	2.0sec

Seqn= 94 4-time(s) 15.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/Ti-poly	Open/Ti-poly	close	Safe	Norm	4.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	4.00s	Obs	2x2	512x512 (1024, 256)	Q=95	0	0	2.0sec

Seqn= 9 4-time(s) 15.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/Ti-poly	Open/Ti-poly	close	Safe	Norm	4.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=92	0	0	2.0sec

Subr= 1 2-time(s) 60.0sec

Seqn= 93 2-time(s) 30.0sec

Open/Ti-poly	Open/Ti-poly	close	Safe	Dark	4.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
Open/Ti-poly	Open/Ti-poly	close	Safe	Dark	4.00s	Obs	2x2	512x512 (1024, 256)	Q=98	0	0	2.0sec
Open/Ti-poly	Open/Ti-poly	close	Safe	Norm	250ms	Obs	2x2	2048x2048 (1024, 1024)	Q=92	0	0	2.0sec
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval

XOB #169E: CME watch - C/poly - 2x2 768x768 - Be/thin - 2x2 - 1024x1024 - AEC2

Term	Pointing (x, y)	Comment
06/16 20:31:30 - 06/17 02:22:00	Fixed (-890.0, 268.0)	# East limb observation
06/17 18:08:02 - 06/18 05:39:54	Fixed (-890.0, 268.0)	# Cont

PROG= 10 Inf.-time(s)

Subr= 1 10-time(s) 2.0sec

Seqn= 49 1-time(s) 60.0sec

thin-Be/Open	thin-Be/Open	close	Safe	Norm	5.66s	Obs	2x2	1024x1024 (1024, 1024)	DPCM	2	0	2.0sec

Seqn= 97 2-time(s) 60.0sec

C-poly/Open	C-poly/Open	close	Safe	Norm	2.00s	Obs	2x2	768x768 (1024, 1024)	DPCM	2	0	2.0sec

Subr= 2 1-time(s) 2.0sec

Seqn= 76 1-time(s) 4.0sec

Open/G-band	Open/G-band	open	Safe	Norm	63ms	Obs	1x1	512x512 (1024, 1024)	Q=98	0	0	2.0sec
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval

XOB #16BA: Synoptic Q95 2x2 - Al/mesh(256/2897) + Dark cal(2x2 4x4 8x8 512 Q98) + Ti-poly(181/2048) + G-band(16)

Term	Pointing (x, y)	Comment
06/17 06:19:00 - 06/17 06:25:54	Fixed (0.0, 0.0)	synoptic, shifted 16.0 min
06/18 05:43:00 - 06/18 06:07:30	Fixed (0.0, 0.0)	synoptic, shifted -20.0 min
06/18 06:48:00 - 06/18 11:14:00	Fixed (-890.0, 268.0)	# Cont
06/18 11:43:30 - 06/20 10:34:00	Fixed (0.0, 0.0)	Backup plan

PROG= 01 1-time(s)

Subr= 1 1-time(s) 12.0sec

Seqn= 18 1-time(s) 4.0sec

Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	250ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	2.83s	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec

Seqn= 7 1-time(s) 2.0sec

Open/Ti-poly	Open/thick-Al	close	Safe	Dark	500ms	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
Open/Ti-poly	Open/thick-Al	close	Safe	Dark	500ms	Obs	4x4	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
Open/Ti-poly	Open/thick-Al	close	Safe	Dark	500ms	Obs	8x8	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec

Seqn= 68 1-time(s) 4.0sec

Open/Ti-poly	Open/thick-Al	close	Safe	Norm	1.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Open/Ti-poly	Open/thick-Al	close	Safe	Norm	8.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec

Seqn= 92 1-time(s) 2.0sec

Open/G-band	Open/G-band	open	Safe	Norm	16ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval

XOB #1371: Al_poly - AEC1 - 512x512 - 30 s cadence with 4096 ms full FOV context

Term	Pointing (x, y)	Comment
06/17 10:10:00 - 06/17 13:00:00	Fixed (-890.0, 268.0)	# Continue east limb observation.

PROG= 12 Inf.-time(s)

Subr= 1 20-time(s) 30.0sec

Seqn= 43 1-time(s) 2.0sec

Al-poly/Open	Al-poly/thick-Al	close	Safe	Norm	2.00s	Obs	1x1	512x512 (1024, 1024)	DPCM	1	0	2.0sec

Subr= 2 1-time(s) 60.0sec

Seqn= 53 1-time(s) 2.0sec

Al-poly/Open	Al-poly/thick-Al	close	Safe	Norm	4.00s	Obs	2x2	2048x2048 (1024, 1024)	DPCM	0	0	2.0sec
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval

* * * * * **Flare mode** * * * * *

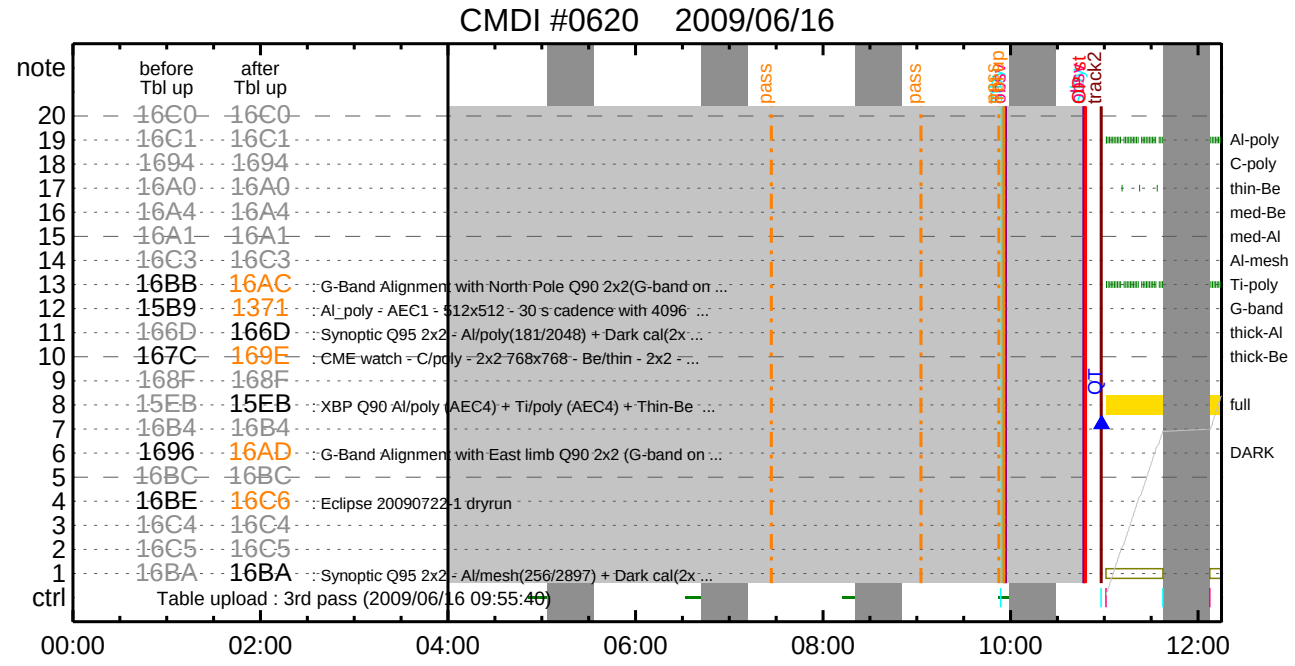
NOT USED

* * * * * **Active Region Search** * * * * *

NOT USED

* * * * * **Flare Detection** * * * * *

NOT USED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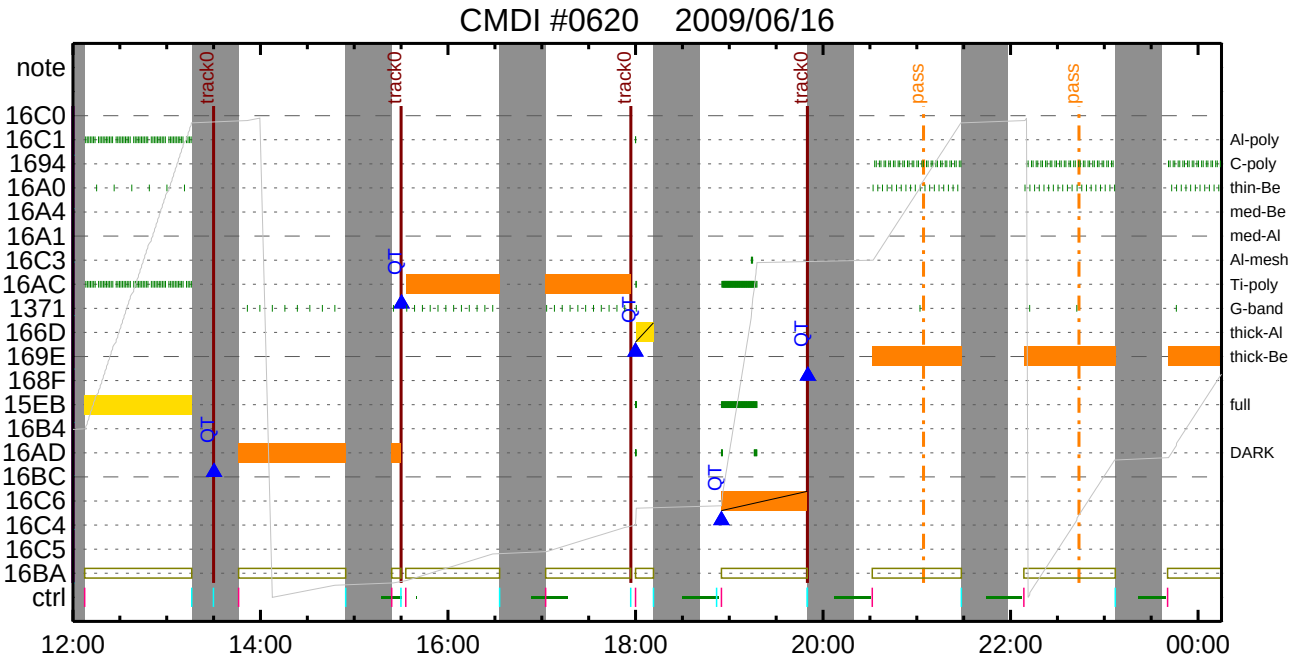
note
before Tbl up
after Tbl up
20 16C0 16C0
19 16C1 16C1
18 1694 1694
17 16A0 16A0
16 16A4 16A4
15 16A1 16A1
14 16C3 16C3
13 16BB 16AC : G-Band Alignment with North Pole Q90 2x2(G-band on ...
12 15B9 1371 : Al_poly - AEC1 - 512x512 - 30 s cadence with 4096 ...
11 166D 166D : Synoptic Q95 2x2 - Al/poly(181/2048) + Dark cal(2x ...
10 167C 169E : CME watch - C/poly - 2x2 768x768 - Be/thin - 2x2 - ...
9 168F 168F
8 15EB 15EB : XBP Q90 Al/poly (AEC4) + Ti/poly (AEC4) + Thin-Be ...
7 16B4 16B4
6 1696 16AD : G-Band Alignment with East limb Q90 2x2 (G-band on ...
5 16BC 16BC
4 16BE 16C6 : Eclipse 20090722-1 dryrun
3 16C4 16C4
2 16C5 16C5
1 16BA 16BA : Synoptic Q95 2x2 - Al/mesh(256/2897) + Dark cal(2x ...
ctrl Table upload : 3rd pass (2009/06/16 09:55:40)
pass
pass
track2
QT
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
00:00
02:00
04:00
06:00
08:00
10:00
12:00


CMDI #0620 2009/06/16
note
16C0
16C1
1694
16A0
16A4
16A1
16C3
16AC
1371
166D
169E
168F
15EB
16B4
16AD
16BC
16C6
16C4
16C5
16BA
ctrl
track0
QT
pass
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
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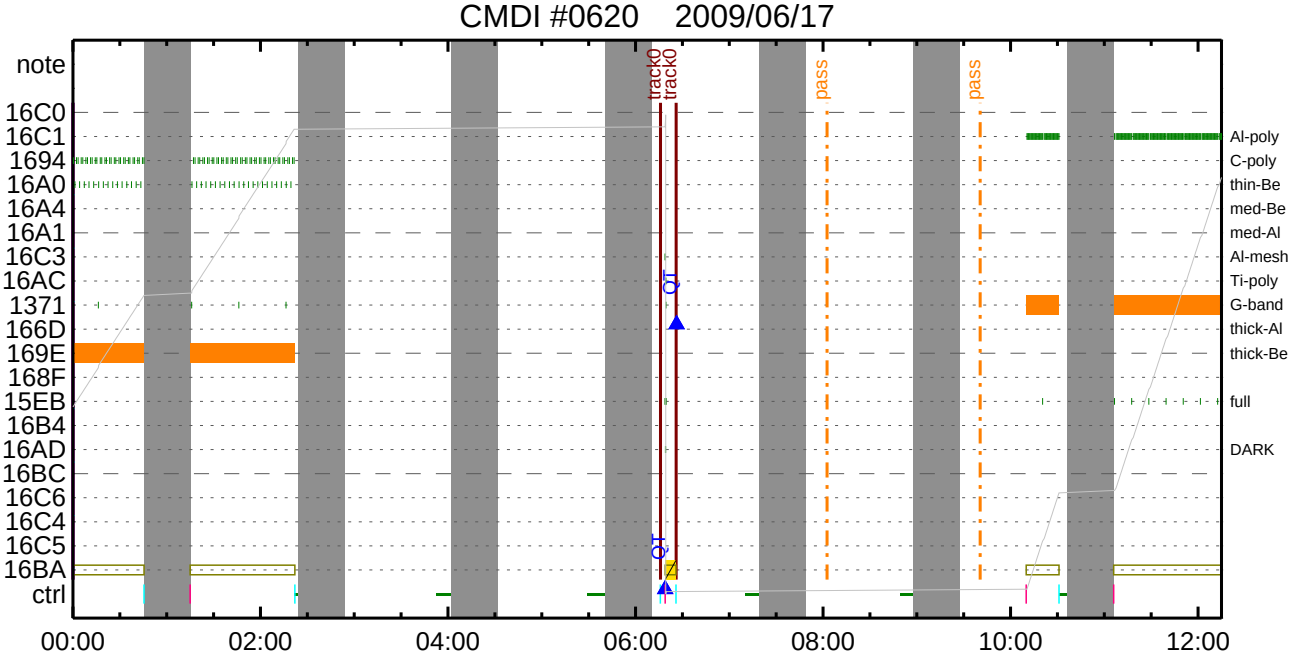
CMDI #0620 2009/06/17
note
16C0
16C1
1694
16A0
16A4
16A1
16C3
16AC
1371
166D
169E
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15EB
16B4
16AD
16BC
16C6
16C4
16C5
16BA
ctrl
track0
QT
pass
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
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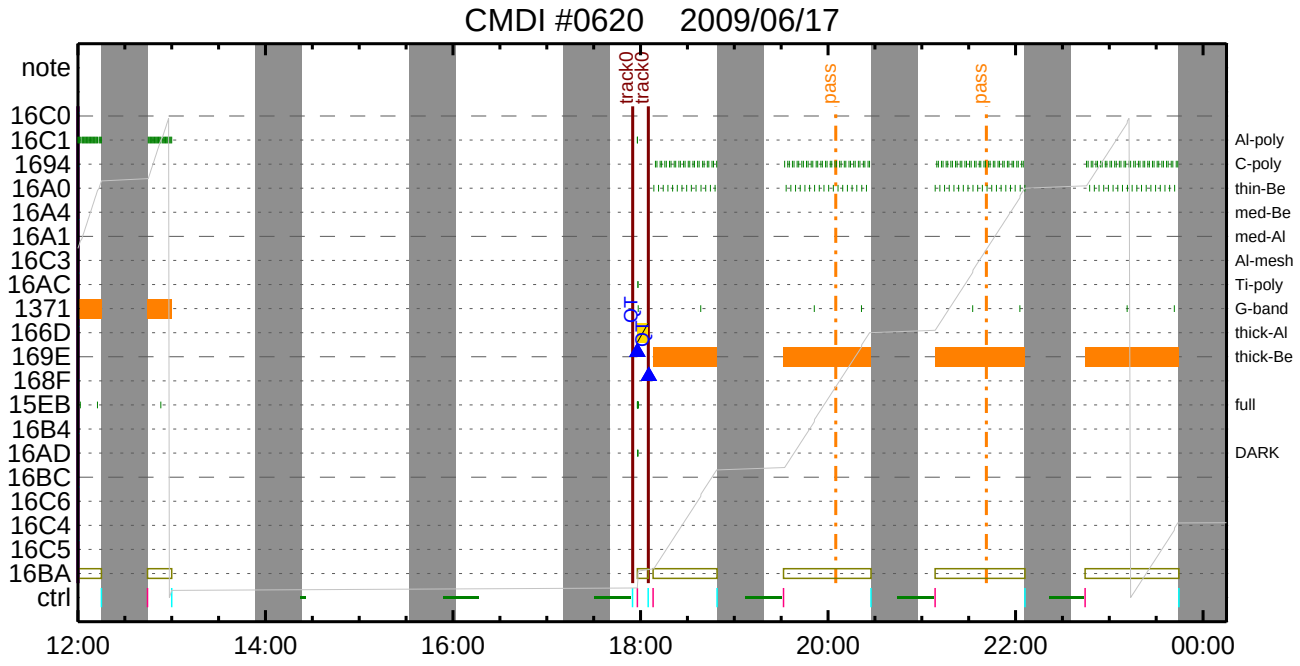
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16C0
16C1
1694
16A0
16A4
16A1
16C3
16AC
1371
166D
169E
168F
15EB
16B4
16AD
16BC
16C6
16C4
16C5
16BA
ctrl
track0
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pass
pass
CAT
12:00
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16:00
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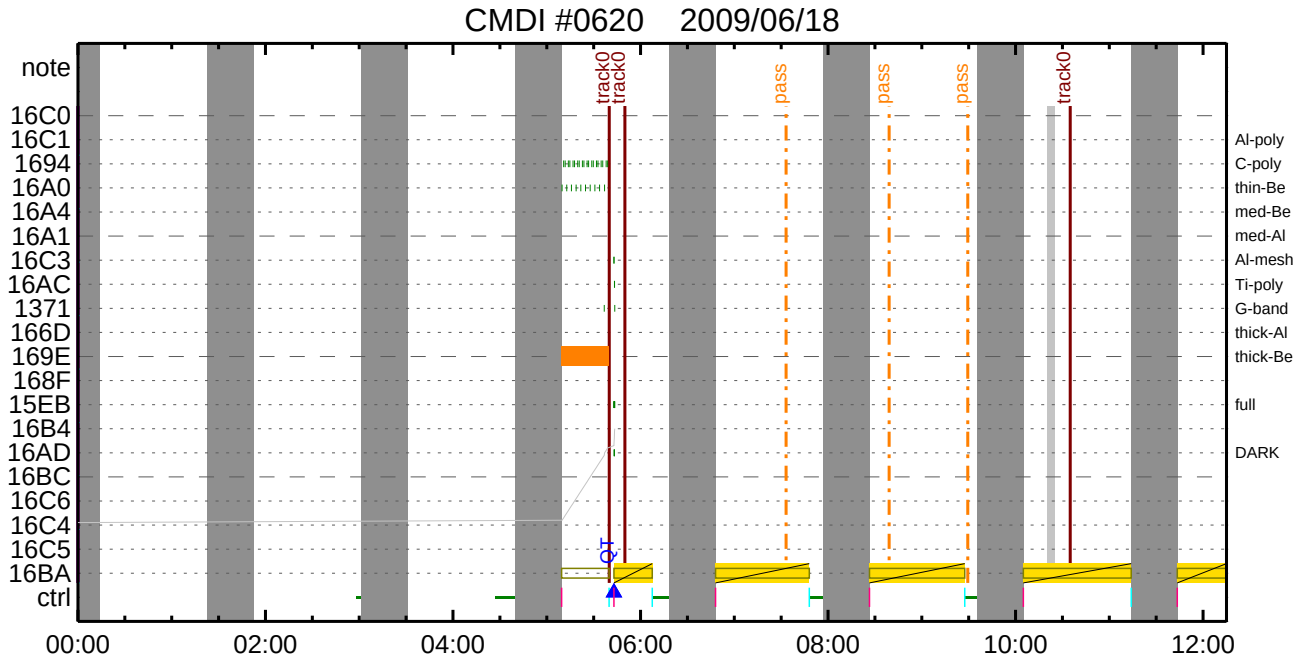
22:00
00:00
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK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16C1
1694
16A0
16A4
16A1
16C3
16AC
1371
166D
169E
168F
15EB
16B4
16AD
16BC
16C6
16C4
16C5
16BA
ctrl
track0
track0
pass
pass
pass
track0
CAT
00:00
02:00
04:00
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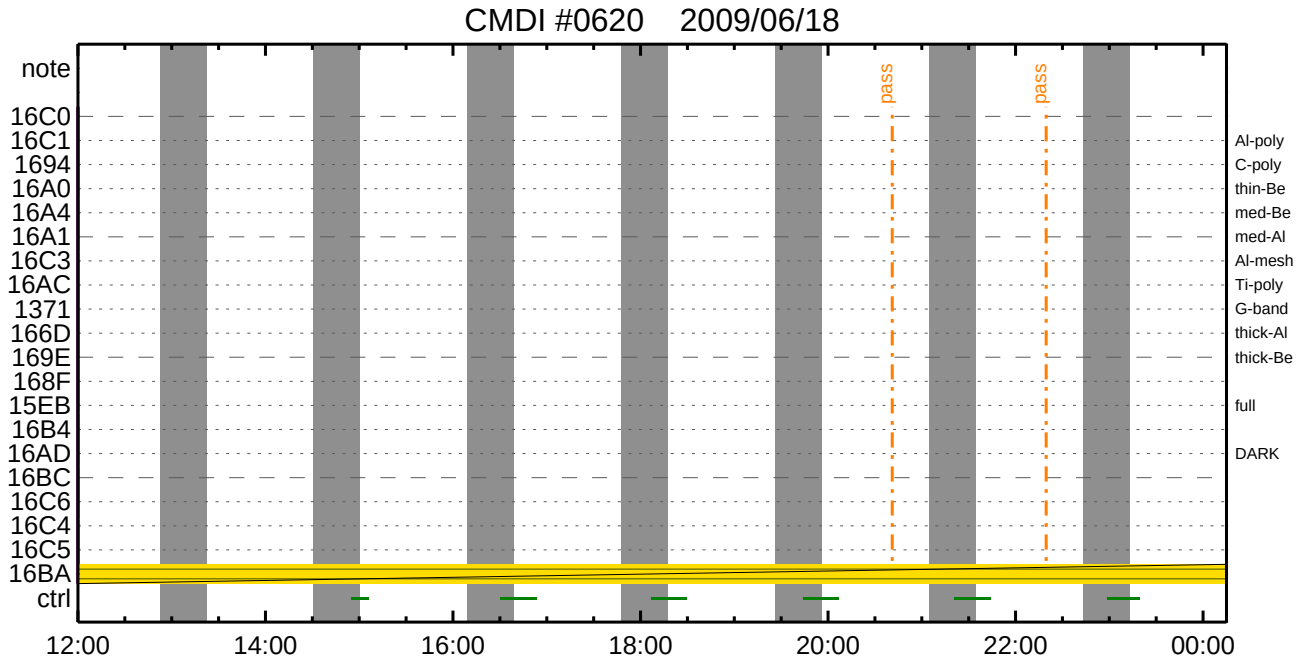
08:00
10:00
12:00
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK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16A4
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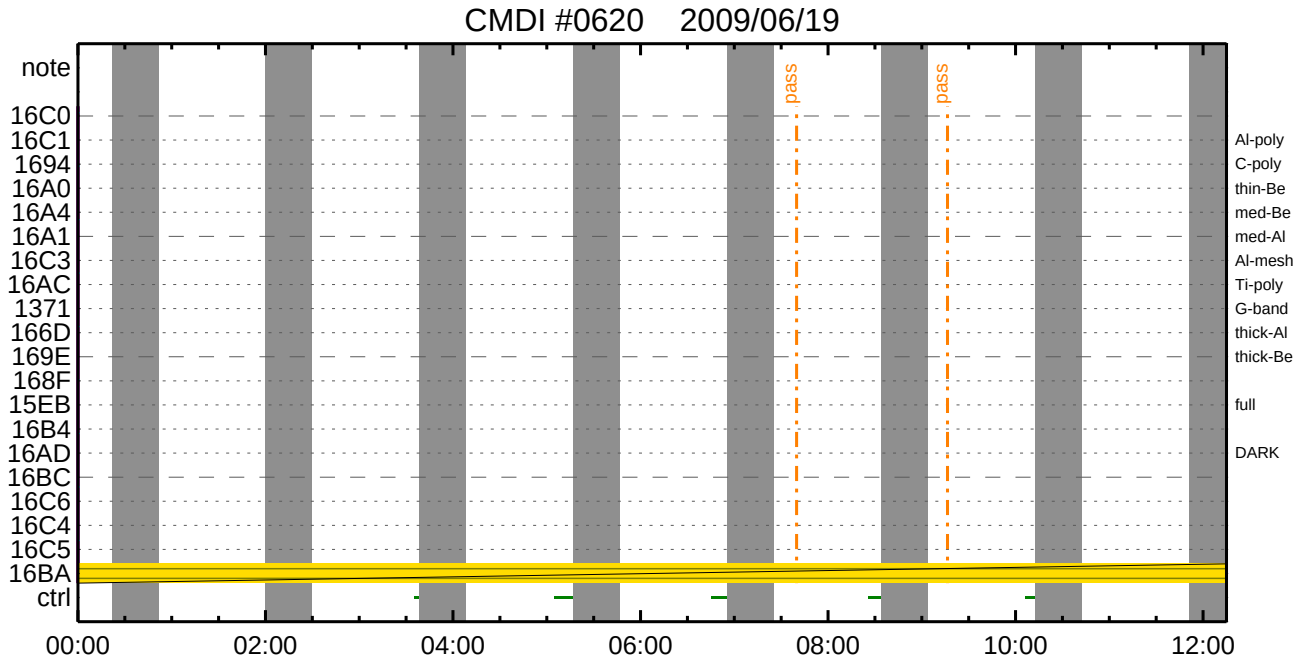
16C3
16AC
1371
166D
169E
168F
15EB
16B4
16AD
16BC
16C6
16C4
16C5
16BA
ctrl
pass
pass
12:00
14:00
16:00
18:00
20:00
22:00
00:00
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK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16C0
16C1
1694
16A0
16A4
16A1
16C3
16AC
1371
166D
169E
168F
15EB
16B4
16AD
16BC
16C6
16C4
16C5
16BA
ctrl
pass
pass
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
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06:00
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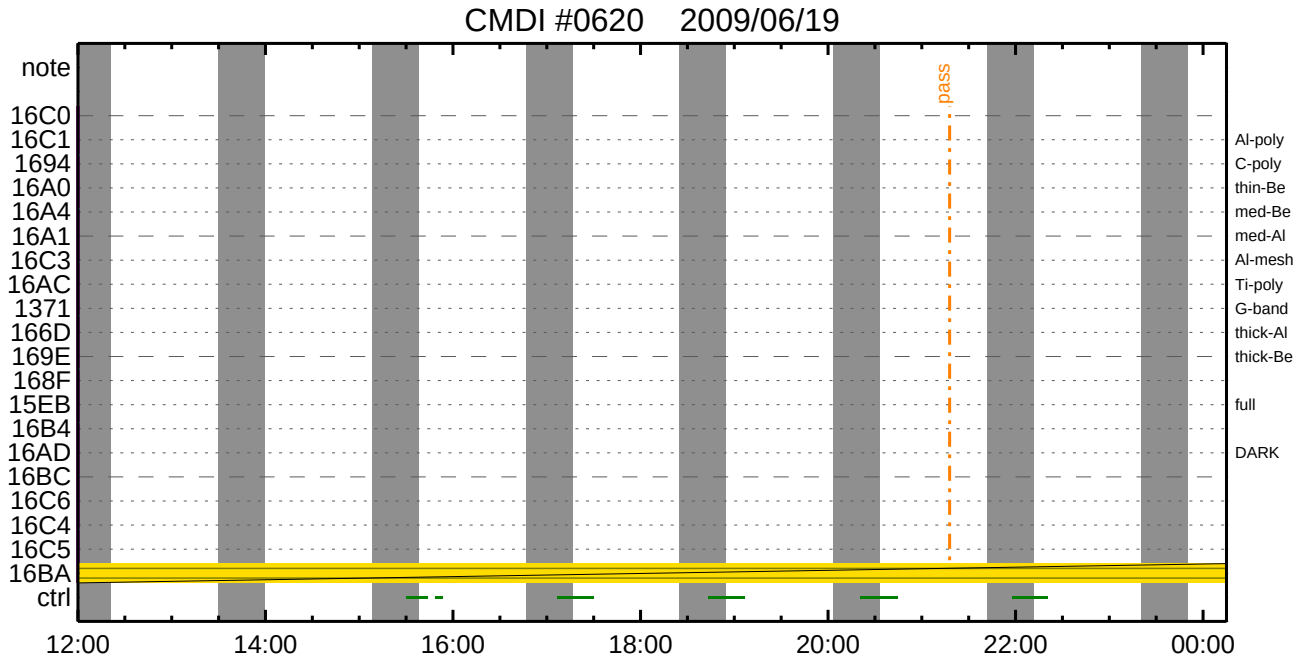
12:00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16AC
1371
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169E
168F
15EB
16B4
16AD
16BC
16C6
16C4
16C5
16BA
ctrl
pass
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
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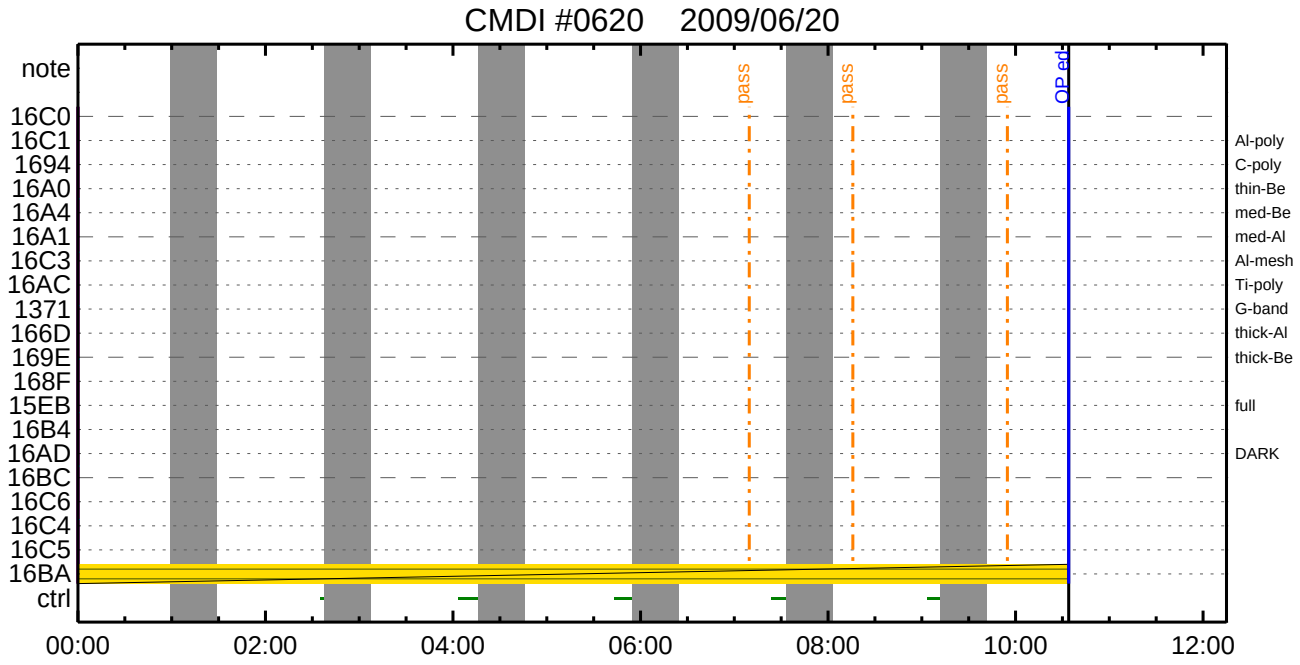
CMDI #0620 2009/06/20
note
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16C1
1694
16A0
16A4
16A1
16C3
16AC
1371
166D
169E
168F
15EB
16B4
16AD
16BC
16C6
16C4
16C5
16BA
ctrl
pass
pass
pass
OP ed
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
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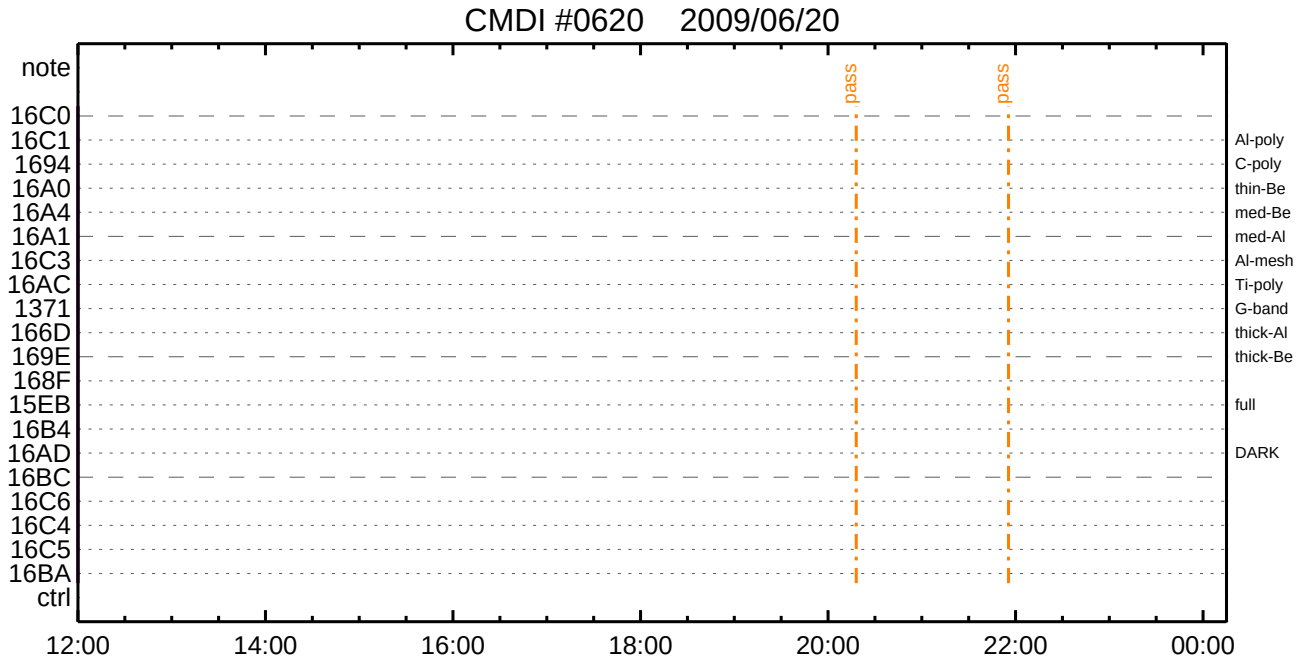
12:00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note
16C0
16C1
1694
16A0
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16C3
16AC
1371
166D
169E
168F
15EB
16B4
16AD
16BC
16C6
16C4
16C5
16BA
ctrl
pass
pass
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
12:00
14:00
16:00
18:00
20:00
22:00
00:00

```
(a) Spacecraft Operation Procedure (real-commands)

main-660 2009-06-16 12:42:13 289 33 SOLAR-B MAIN //
0001     C.
0002   . C. *********** AOS ***********
0003     C.
0004   . C. ¡ãAOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0005     C.
0006     C. ¥À¥ß¡¼¥³¥Þ¥ó¥ÉÁ÷¿®
0007   +. DC 00-00 NULL_DUMMY_CMD
0008     C.
0009   . C. ***** AOCS : Reload orbital element (send every contact) *****
0010     C.  Ãí¡Ë¤¿¤À¤•µ°Æ»Í×ÁÇ¤Î¥¢¥Ã¥×¥í¡¼¥É¡ËËè½µ•îÍË¡Ë¤Ë¼ºÇÔ¤•¤¿¾ì¹ç¤Ï¡¢À®¸ù¤¹¤ë¤Þ¤ÇÁ÷¿®¤•¤Ê¤¤¤³¤È¡£
0011   +. DC 02-8E AOCU_ORB_UPD
0012     C.
0013     C.
0014   . C. ****************************
0015     C. XÁ÷¿®µ¡ON
0016     C. ****************************
0017     C. ¢¨ ºÆÀ¸ Í×ÈÝ¤äLOS¤Þ¤ÇºÎ»Þ´Ö¤ò¹ÍÎ¸ ¤•¡¢ÉÔÍ×¤ÊXÂÓON¤Ï¹Ô¤Ê¤ï¤Ê¤¤¤³¤È¡£
0018     C.
0019   +. DC 03-B4 TCIA_XPA_ON/HI
0020     M. WAIT_SEC   1
0021   +  DC 03-84 TCIA_XMOD_ON
0022     M. WAIT_SEC   1
0023   +  DC 03-95 TCIA_XMOD_QPSK
0024     C.                      ¢¢[HK1_XPA_ON/OFF]              EQ     ON
0025     C.                      ¢¢[HK1_XPA_PWR_HI/LO]           EQ     HI
0026     C.                      ¢¢[HK1_XMOD_ON/OFF]             EQ     ON
0027     C.                      ¢¢[HK1_XMOD_QPSK/PM]            EQ     QPSK
0028     C.
0029   . C. X¥Ð¥ó¥É¥í¥Ã¥¯¾õÂÖ¤¬°ÂÄê¤•¤¿¤é¡¢°Ê²¼¤ÎºÆÀ¸ ¼ê½ç¤ò¼Â¹Ô¤¹¤ë¡£
0030     C.
0031   . C. ***************
0032     C. DR PT1 ÄÌ¾ïºÆÀ¸
0033     C. ***************
0034     C. ¢¨ RESTART¡ÊPT1¡Ë¤•¤¿¤¤¾ì¹ç¤Ï¡¢°Ê²¼¤Ï¼Â¹Ô¤»¤º¡¢DCBC-150¤Ø¿Ê¤à¡£
0035     C.
0036   . C. ¡ãPT1ºÆÀ¸ ³«»Ï¡ä
0037   +. DC 01-29 DHU_S/X_VC4_OFF
0038   +  DC 06-C8 DR_PT1_REP_SEL
0039     BC       (01 00)
0040   +  DC 06-B3 DR_REP_START
0041   +  DC 01-32 DHU_X_VC4_ON
0042     C.                      ¢¢[HK1_REP_PT_1/2]              EQ     PT1    (¼Â¹Ô¸¡¾Ú)
0043     C.                      ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸¡¾Ú)
0044     C.                      ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸¡¾Ú)
0045     C.
0046   . C. ¡ã¥¢¥ó¥Æ¥ÊÀÚÂØ¡ÊÅ•Äº²óÈò¡Ë¸å¤ÎºÆÀ¸ ºÆ³«¡ä
0047   +. DC 06-B3 DR_REP_START
0048   +  DC 01-32 DHU_X_VC4_ON
0049     C.                      ¢¢[HK1_REP_PT_1/2]              EQ     PT1    (¼Â¹Ô¸¡¾Ú)
0050     C.                      ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸¡¾Ú)
0051     C.                      ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸¡¾Ú)
0052     C.
0053     C.
0054   . C. PT1ºÆÀ¸ ¤¬¼«Æ°Ää»ß¤•¤¿¸å¡¢¢°Ê²¼¤ò¼Â¹Ô¤¹¤ë¡£
0055     C. ¥¢¥ó¥Æ¥ÊÀÚÂØ¤äÅ•Äº²óÈò¤¬¶á¤¤¾ì¹ç¤Ï´°Î»¤¹¤ë¤Þ¤ÇÂÔ¤Ä¡£
0056     C.
0057   . C. ***************
0058     C. DR PT2 ÄÌ¾ïºÆÀ¸
0059     C. ***************
0060     C. ¢¨ RESTART¡ÊPT2¡Ë¤•¤¿¤¤¾ì¹ç¤Ï¡¢°Ê²¼¤Ï¼Â¹Ô¤»¤º¡¢DCBC-151¤Ø¿Ê¤à¡£
0061     C.
0062   . C. ¡ãPT2ºÆÀ¸ ³«»Ï¡ä
0063   +. DC 01-29 DHU_S/X_VC4_OFF
0064   +  DC 06-C8 DR_PT2_REP_SEL
0065     BC       (02 00)
0066   +  DC 06-B3 DR_REP_START
0067   +  DC 01-32 DHU_X_VC4_ON
0068     C.                      ¢¢[HK1_REP_PT_1/2]              EQ     PT2    (¼Â¹Ô¸¡¾Ú)
0069     C.                      ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸¡¾Ú)
0070     C.                      ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸¡¾Ú)
0071     C.
0072   . C. ¡ã¥¢¥ó¥Æ¥ÊÀÚÂØ¡ÊÅ•Äº²óÈò¡Ë¸å¤ÎºÆÀ¸ ºÆ³«¡ä
0073   +. DC 06-B3 DR_REP_START
0074   +  DC 01-32 DHU_X_VC4_ON
0075     C.                      ¢¢[HK1_REP_PT_1/2]              EQ     PT2    (¼Â¹Ô¸¡¾Ú)
0076     C.                      ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸¡¾Ú)
0077     C.                      ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸¡¾Ú)
0078     C.
0079   . C. ****************************
0080     C. DRºÆÀ¸ Ää»ß¡¢XÁ÷¿®µ¡OFF
0081     C. ****************************
0082     C.
0083   . C. ¡ãDRºÆÀ¸ Ää»ß¡ä
0084   +. DC 06-B4 DR_REP_STOP
0085   +  DC 01-29 DHU_S/X_VC4_OFF
0086     C.                      ¢¢[HK1_REP_STA/STP]             EQ     STOP
0087     C.                      ¢¢[HK1_S_VC4_ON/OFF]            EQ     OFF
0088     C.                      ¢¢[HK1_X_VC4_ON/OFF]            EQ     OFF
0089     C.
0090   . C. ¡ãXÁ÷¿®µ¡OFF¡ä
0091   +. DC 03-85 TCIA_XMOD_OFF
0092     M. WAIT_SEC   1
0093   +  DC 03-B5 TCIA_XPA_OFF
0094     C.                      ¢¢[HK1_XMOD_ON/OFF]             EQ     OFF
0095     C.                      ¢¢[HK1_XPA_ON/OFF]              EQ     OFF
```

```
    C.
    C.
  . C. ****************************
    C. OP/OG¥í¡¼¥É¡¦¥À¥ó¥×
    C. ****************************
    C.
  . C. ¡ãOP/OG¥í¡¼¥É¡ä
  . S. OP    op-660:OP
    ()
  . S. OG    og-660:OG
    ()
    C.
  . C. ¡ãNMOG&OPÎÎ°è¥À¥ó¥×¡ä
    C. NMOG(0x200000-0x207FFF¡§ 32 kbyte)
 +. DC 01-23 DHU_DMA_DMP_PRM_SET
    BC       (20 00 7f 01 02)
    C.                     ¢¢[HK1_DMP_TOP_ADRS_1]          EQ     40
    C.                     ¢¢[HK1_DMP_TOP_ADRS_0]          EQ     0
    C.                     ¢¢[HK1_DMP_BLOCK_NUM]           EQ     127
    C.                     ¢¢[HK1_DMP_REPEAT_NUM]          EQ     0
    C.                     ¢¢[HK1_DMA_DMP_PIM]             EQ     DHU
 +. DC 01-22 DHU_MODE_CHNG
    BC       (07 0b f8)
    C.                     ¢¢[HK1_PKT_FORM_NO]             EQ     7
    C.                     ¢¢[HK1_PKT_GEN_TIME]            EQ     0.25 s
    C.                     ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32k
    C.                     ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
    C.                     ¢¢[HK1_DMP_CHK_FLG]             EQ     EXEC
  . C. ¥À¥ó¥×½ªÎ»¤ò³ÎÇ§
    C.                     ¢¢[HK1_DMP_CHK_FLG]             EQ     NON
  . C. RAM ID=NMOG¤Î¾È¹ç•ë²ÌOK¤ò³ÎÇ§
    C.
    C. NMOG(0x208000-0x20FFFF¡§ 32 kbyte)
 +. DC 01-23 DHU_DMA_DMP_PRM_SET
    BC       (20 80 7f 01 02)
    C.                     ¢¢[HK1_DMP_TOP_ADRS_1]          EQ     41
    C.                     ¢¢[HK1_DMP_TOP_ADRS_0]          EQ     0
    C.                     ¢¢[HK1_DMP_BLOCK_NUM]           EQ     127
    C.                     ¢¢[HK1_DMP_REPEAT_NUM]          EQ     0
    C.                     ¢¢[HK1_DMA_DMP_PIM]             EQ     DHU
 +. DC 01-22 DHU_MODE_CHNG
    BC       (07 0b f8)
    C.                     ¢¢[HK1_PKT_FORM_NO]             EQ     7
    C.                     ¢¢[HK1_PKT_GEN_TIME]            EQ     0.25 s
    C.                     ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32k
    C.                     ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
    C.                     ¢¢[HK1_DMP_CHK_FLG]             EQ     EXEC
  . C. ¥À¥ó¥×½ªÎ»¤ò³ÎÇ§
    C.                     ¢¢[HK1_DMP_CHK_FLG]             EQ     NON
  . C. RAM ID=NMOG¤Î¾È¹ç•ë²ÌOK¤ò³ÎÇ§
    C.
    C. NMOG(0x210000-0x2100FF¡§ 256byte)+OP(0x210100-0x2141FF: 16.25kbyte)
 +. DC 01-23 DHU_DMA_DMP_PRM_SET
    BC       (21 00 41 01 02)
    C.                     ¢¢[HK1_DMP_TOP_ADRS_1]          EQ     42
    C.                     ¢¢[HK1_DMP_TOP_ADRS_0]          EQ     0
    C.                     ¢¢[HK1_DMP_BLOCK_NUM]           EQ     65
    C.                     ¢¢[HK1_DMP_REPEAT_NUM]          EQ     0
    C.                     ¢¢[HK1_DMA_DMP_PIM]             EQ     DHU
 +. DC 01-22 DHU_MODE_CHNG
    BC       (07 0b f8)
    C.                     ¢¢[HK1_PKT_FORM_NO]             EQ     7
    C.                     ¢¢[HK1_PKT_GEN_TIME]            EQ     0.25 s
    C.                     ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32k
    C.                     ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
    C.                     ¢¢[HK1_DMP_CHK_FLG]             EQ     EXEC
  . C. ¥À¥ó¥×½ªÎ»¤ò³ÎÇ§
    C.                     ¢¢[HK1_DMP_CHK_FLG]             EQ     NON
  . C. RAM ID=NMOG,RAM ID=OP¤Î¾È¹ç•ë²ÌOK¤ò³ÎÇ§
    C.
  . C. ***** °Ê²¼¤Ï¾Ã´¶Á°¤ËÉ¬¤ºÁ÷¿® (¾åµ-¥À¥ó¥×¼ê½ç¤òÅÓÃæ¤Ç½ª¤¨¤ë¾ì¹ç¤Çâ) *****
    C. DHU¥â¡¼¥É¡Ê¼ý½¸¥ì¡¼¥È¡Ë¤ÌÌá¤¹
 +. DC 01-22 DHU_MODE_CHNG
    BC       (02 0a f8)
    C.                     ¢¢[HK1_PKT_FORM_NO]             EQ     2
    C.                     ¢¢[HK1_PKT_GEN_TIME]            EQ     0.5S
    C.                     ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32K
    C.                     ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
    C.
  . C. *********************************
    C. TI-CMD SET (OPOG STOP/COPY/START)
    C. *********************************
    C.
  . C. NOTICE ¡§ OPOG UPLOAD¤¬Á÷¿®NG¤Î¾ì¹ç¡¢°Ê²¼¤ÎTI-CMDÁ÷¿®¤Ï¼Â¹Ô¤•¤Ê¤¤¤³¤È¡£
    C.           ¤Þ¤¿¡¢SET¤ÈDUMP¤ÏÆ±°ì¥Ñ¥¹¤Ç¹Ô¤¦¤³¤È¡£
    C.
  . C. TI¥³¥Þ¥ó¥É¤òÅÐÏ¿(UT)
 +. TI 2009-06-16 10:43:00.0
    DC 01-B3 DHU_OP_STOP
    C.                     ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
    C.
 +. TI 2009-06-16 10:43:01.0
    DC 01-B4 DHU_OP_COPY
    C.                     ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
    C.
 +. TI 2009-06-16 10:43:01.0
    DC 01-B5 DHU_OPOG_COPY
    C.                     ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
```

```
0194     C.
0195   +. TI 2009-06-16 10:47:59.5
0196     DC 01-B2 DHU_OP_START
0197     C.                      ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
0198     C.
0199     C. °Ê²¼¤ÏÄê¾ïÍÑ¤Î¥Á¥§¥Ã¥¯¹àÌÜ
0200     C.                      ¢¢[HK1_TI_CMD_ENA/DIS]          EQ     ENA
0201     C.                      ¢¢[HK1_TI_CMD_NUM]              EQ     4
0202     C.                      ¢¢[HK1_NEXT_EXEC_PIM]           EQ     DHU
0203     C.                      ¢¢[HK1_NEXT_EXEC_DC]            EQ     0xB3
0204     C.
0205    . C. ****************************
0206     C. TIÎÎ°è¥À¥ó¥×
0207     C. ****************************
0208     C.
0209     C. TI_TBL(0x03AB00-0x03AEFF¡§ 1024byte)
0210   +. DC 01-23 DHU_DMA_DMP_PRM_SET
0211     BC       (03 ab 03 01 02)
0212     C.                      ¢¢[HK1_DMP_TOP_ADRS_1]          EQ     07
0213     C.                      ¢¢[HK1_DMP_TOP_ADRS_0]          EQ     2B
0214     C.                      ¢¢[HK1_DMP_BLOCK_NUM]           EQ     3
0215     C.                      ¢¢[HK1_DMP_REPEAT_NUM]          EQ     0
0216     C.                      ¢¢[HK1_DMA_DMP_PIM]             EQ     DHU
0217   +. DC 01-22 DHU_MODE_CHNG
0218     BC       (07 0b f8)
0219     C.                      ¢¢[HK1_PKT_FORM_NO]             EQ     7
0220     C.                      ¢¢[HK1_PKT_GEN_TIME]            EQ     0.25 s
0221     C.                      ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32k
0222     C.                      ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
0223     C.                      ¢¢[HK1_DMP_CHK_FLG]             EQ     EXEC
0224     C.
0225    . C. ¥À¥ó¥×½ªÎ»¤ò³ÎÇ§
0226     C.                      ¢¢[HK1_DMP_CHK_FLG]             EQ     NON
0227     C.
0228    . C. RAM ID=TI_TBL¤Î¾È¹ç•ë²ÌOK¤ò³ÎÇ§
0229     C.
0230    . C. DHU¥â¡¼¥É¡Ê¼ý½¸¥ì¡¼¥È¡Ë¤òÌá¤¹
0231   +. DC 01-22 DHU_MODE_CHNG
0232     BC       (02 0a f8)
0233     C.                      ¢¢[HK1_PKT_FORM_NO]             EQ     2
0234     C.                      ¢¢[HK1_PKT_GEN_TIME]            EQ     0.5S
0235     C.                      ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32K
0236     C.                      ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
0237     C.
0238     C. ********************************
0239     C.  SOT TI command set
0240     C. ********************************
0241     C. Execute, after the success of OP upload.
0242   +. TI 2009-06-16 10:47:16.0
0243     DC 07-F0 MDP_SOT_MODE_STBY
0244     BC       (41)
0245    . C. ------------------------------------
0246     C.   HK1_TI_CMD_NUM       = 1 CNTUP [ ]
0247     C. ------------------------------------
0248     C. ************ SOT END ***********
0249    . C. Stop EIS observation and temporarily disable EIS mode changes
0250     C.
0251     C.
0252     C. ********** Start EIS operation (TI set) **********
0253     C. Execute, after the success of OP upload.
0254     C. Set EIS TI-commands
0255   +. TI 2009-06-16 10:47:30.0
0256     DC 07-FC EIS_MODE_MANU
0257     BC       (21 02)
0258   +. TI 2009-06-16 10:47:40.0
0259     DC 07-FC EIS_MODE_CHG_DIS
0260     BC       (22)
0261    . C.                      [   ]  [HK1_TI_CMD_NUM]     EQ    2 COUNTUP
0262     C. ************ End EIS operation (TI set) ***********
0263     C.
0264     C.
0265     C.
0266     C. ************ XRT START ***********
0267     C. Execute, after the success of OP upload.
0268   +. TI 2009-06-16 10:47:00.0
0269     DC 07-F0 MDP_XRT_MODE_STBY
0270     BC       (c3)
0271    . C.                      [   ]  [HK1_TI_CMD_NUM]     EQ    1COUNTUP
0272     C.
0273     C. ************ XRT END ***********
0274     C.
0275    . C. ***** MDP ´ûÃÎ¤Î»ö¾Ý¤ËÂÐ¤¹¤ëDCBC•×²è *****
0276     C. (¾å°Ì¥Ó¥Ã¥È¥Þ¥Ë¥å¥¢¥ë¤Ë½¾¤¤¼Â»Ü¤¹¤ë)
0277    . S. DC-BC dcbc-402:DCBC
0278     (MDP_known_event)
0279     C.
0280     C.
0281    . C. ***** ¥Ð¥¹•Ï Daily±¿ÍÑ¤Ë´Ø¤¹¤ëDCBC•×²è *****
0282    . S. DC-BC dcbc-153:DCBC
0283     (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0284     C.
0285     C.
0286    . C. ¡ãLOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0287     C.
0288    . C. ********** LOS **********
0289     C.
```

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(a) Spacecraft Operation Procedure (real-commands)

main-661 2009-06-16 12:42:14 175 33 SOLAR-B MAIN //
0001     C.
0002   . C. *********** AOS ***********
0003     C.
0004   . C. ¡ãAOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0005     C.
0006     C. ¥À¥ß¡¼¥³¥Þ¥ó¥ÉÁ÷¿®
0007   +. DC 00-00 NULL_DUMMY_CMD
0008     C.
0009   . C. ***** AOCS : Reload orbital element (send every contact) *****
0010     C.  Ãí¡Ë¤¿¤À¤•µ°Æ»Í×ÁÇ¤Î¥¢¥Ã¥×¥í¡¼¥É¡ÊËè½µ•îÍË¡Ë¤Ë¼ºÇÔ¤•¤¿¾ì¹ç¤Ï¡¢À®¸ù¤¹¤ë¤Þ¤ÇÁ÷¿®¤•¤Ê¤¤¤³¤È¡£
0011   +. DC 02-8E AOCU_ORB_UPD
0012     C.
0013     C.
0014   . C. ****************************
0015     C. XÁ÷¿®µ¡ON
0016     C. ****************************
0017     C. ¢¨ ºÆÀ¸ Í×ÈÝ¤äLOS¤Þ¤ÇºÎ»Þ´Ö¤ò¹ÍÎ¸ ¤•¡¢ÉÔÍ×¤ÊXÂÓON¤Ï¹Ô¤Ê¤ï¤Ê¤¤¤³¤È¡£
0018     C.
0019   +. DC 03-B4 TCIA_XPA_ON/HI
0020     M. WAIT_SEC   1
0021   +  DC 03-84 TCIA_XMOD_ON
0022     M. WAIT_SEC   1
0023   +  DC 03-95 TCIA_XMOD_QPSK
0024     C.                      ¢¢[HK1_XPA_ON/OFF]              EQ     ON
0025     C.                      ¢¢[HK1_XPA_PWR_HI/LO]           EQ     HI
0026     C.                      ¢¢[HK1_XMOD_ON/OFF]             EQ     ON
0027     C.                      ¢¢[HK1_XMOD_QPSK/PM]            EQ     QPSK
0028     C.
0029   . C. X¥Ð¥ó¥É¥í¥Ã¥¯¾õÂÖ¤¬°ÂÄê¤•¤¿¤é¡¢°Ê²¼¤ÎºÆÀ¸ ¼ê½ç¤ò¼Â¹Ô¤¹¤ë¡£
0030     C.
0031   . C. ***************
0032     C. DR PT1 ÄÌ¾ïºÆÀ¸
0033     C. ***************
0034     C. ¢¨ RESTART¡ÊPT1¡Ë¤•¤¿¤¤¾ì¹ç¤Ï¡¢°Ê²¼¤Ï¼Â¹Ô¤»¤º¡¢DCBC-150¤Ø¿Ê¤à¡£
0035     C.
0036   . C. ¡ãPT1ºÆÀ¸ ³«»Ï¡ä
0037   +. DC 01-29 DHU_S/X_VC4_OFF
0038   +  DC 06-C8 DR_PT1_REP_SEL
0039     BC       (01 00)
0040   +  DC 06-B3 DR_REP_START
0041   +  DC 01-32 DHU_X_VC4_ON
0042     C.                      ¢¢[HK1_REP_PT_1/2]              EQ     PT1    (¼Â¹Ô¸¡¾Ú)
0043     C.                      ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸¡¾Ú)
0044     C.                      ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸¡¾Ú)
0045     C.
0046   . C. ¡ã¥¢¥ó¥Æ¥ÈÀÚÂØ¡ÊÅ•Ä°²óÈò¡Ë¸å¤ÎºÆÀ¸ ºÆ³«¡ä
0047   +. DC 06-B3 DR_REP_START
0048   +  DC 01-32 DHU_X_VC4_ON
0049     C.                      ¢¢[HK1_REP_PT_1/2]              EQ     PT1    (¼Â¹Ô¸¡¾Ú)
0050     C.                      ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸¡¾Ú)
0051     C.                      ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸¡¾Ú)
0052     C.
0053     C.
0054   . C. PT1ºÆÀ¸ ¤¬¼«Æ°Ää»ß¤•¤¿¸å¡¢°Ê²¼¤ò¼Â¹Ô¤¹¤ë¡£
0055     C. ¥¢¥ó¥Æ¥ÈÀÚÂØ¤äÅ•Ä°²óÈò¤¬¶á¤¤¾ì¹ç¤Ï´°Î»¤¹¤ë¤Þ¤ÇÂÔ¤Ä¡£
0056     C.
0057   . C. ***************
0058     C. DR PT2 ÄÌ¾ïºÆÀ¸
0059     C. ***************
0060     C. ¢¨ RESTART¡ÊPT2¡Ë¤•¤¿¤¤¾ì¹ç¤Ï¡¢°Ê²¼¤Ï¼Â¹Ô¤»¤º¡¢DCBC-151¤Ø¿Ê¤à¡£
0061     C.
0062   . C. ¡ãPT2ºÆÀ¸ ³«»Ï¡ä
0063   +. DC 01-29 DHU_S/X_VC4_OFF
0064   +  DC 06-C8 DR_PT2_REP_SEL
0065     BC       (02 00)
0066   +  DC 06-B3 DR_REP_START
0067   +  DC 01-32 DHU_X_VC4_ON
0068     C.                      ¢¢[HK1_REP_PT_1/2]              EQ     PT2    (¼Â¹Ô¸¡¾Ú)
0069     C.                      ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸¡¾Ú)
0070     C.                      ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸¡¾Ú)
0071     C.
0072   . C. ¡ã¥¢¥ó¥Æ¥ÈÀÚÂØ¡ÊÅ•Ä°²óÈò¡Ë¸å¤ÎºÆÀ¸ ºÆ³«¡ä
0073   +. DC 06-B3 DR_REP_START
0074   +  DC 01-32 DHU_X_VC4_ON
0075     C.                      ¢¢[HK1_REP_PT_1/2]              EQ     PT2    (¼Â¹Ô¸¡¾Ú)
0076     C.                      ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸¡¾Ú)
0077     C.                      ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸¡¾Ú)
0078     C.
0079   . C. ****************************
0080     C. DRºÆÀ¸ Ää»ß¡¢XÁ÷¿®µ¡OFF
0081     C. ****************************
0082     C.
0083   . C. ¡ãDRºÆÀ¸ Ää»ß¡ä
0084   +. DC 06-B4 DR_REP_STOP
0085   +  DC 01-29 DHU_S/X_VC4_OFF
0086     C.                      ¢¢[HK1_REP_STA/STP]             EQ     STOP
0087     C.                      ¢¢[HK1_S_VC4_ON/OFF]            EQ     OFF
0088     C.                      ¢¢[HK1_X_VC4_ON/OFF]            EQ     OFF
0089     C.
0090   . C. ¡ãXÁ÷¿®µ¡OFF¡ä
0091   +. DC 03-85 TCIA_XMOD_OFF
0092     M. WAIT_SEC   1
0093   +  DC 03-B5 TCIA_XPA_OFF
0094     C.                      ¢¢[HK1_XMOD_ON/OFF]             EQ     OFF
0095     C.                      ¢¢[HK1_XPA_ON/OFF]              EQ     OFF
```

```
0096     C.
0097     C.
0098   . C. ***** AOCS Commands (Tracking Curve Upload) ******
0099     C. Upload the Orbit Element and the Target Attitude
0100     C. RAM-ID:TARGET_ATT
0101   . S. RAM   ram-150:TARGET_ATT
0102     ()
0103     C.
0104     C.
0105     C. Set the dump memory area of TARGET_ATT
0106   +. DC 02-48 AOCU_DUMP_SET
0107     BC       (07 00 00 00 18 00)
0108     C.
0109     C.    <A_STS1>[MEMORY OPERATE SATUS] ADRS = 070000 [ ]
0110     C.
0111     C.
0112     C. Change the TLMFormatNo for the AOCS Dump Format
0113   +. DC 01-22 DHU_MODE_CHNG
0114     BC       (04 0b f8)
0115     C.
0116     C. Wait for AOCSDUMP to end
0117     C.
0118   . C. Check the dump memory
0119     C.
0120     C.                                      Result = OK [ ]
0121     C.
0122   +. DC 01-22 DHU_MODE_CHNG
0123     BC       (02 0a f8)
0124     C.
0125     C.                         <A_***>[TLM STS] FMT = 2 [ ]
0126     C.
0127   +. DC 02-8E AOCU_ORB_UPD
0128   . C.
0129   . C. ***** AOCS Commands (Orbital Element Update) *****
0130     C. Update the orbital element
0131   +. DC 02-50 AOCU_ORB_PRPGT_START
0132     BC       (16)
0133   +  DC 02-8E AOCU_ORB_UPD
0134     C.
0135     C.       <A_ORB>[ORBIT] EPC = 1319982.7 +- 1.0 (s) [ ]
0136     C.
0137   . C.
0138   . C. Load OBSTBL, dump OBSTBL, enable EIS mode changes
0139   +. DC 07-FC EIS_MODE_MANU
0140     BC       (21 02)
0141   . C. Verify EIS in MANUAL mode
0142   . C. Estimated OBSTBL upload time is 30s
0143     C. ********************************
0144     C. EIS START OBSTBL LOAD
0145     C. ********************************
0146   . S. RAM   ram-820:EIS_OBSTBL
0147     ()
0148   +. DC 07-FC EIS_DUMP_OBSTBL
0149     BC       (07 07 07 00 00 70 00)
0150     C.
0151     C. Execute, after the success of OBSTBL upload.
0152     C. Set EIS TI-commands
0153   +. TI 2009-06-16 10:47:50.0
0154     DC 07-FC EIS_MODE_CHG_ENA
0155     BC       (20)
0156   . C.                       [   ]  [HK1_TI_CMD_NUM]     EQ    1 COUNTUP
0157     C. ********************************
0158     C. EIS END OBSTBL LOAD
0159     C. ********************************
0160     C.
0161   . C. ***** MDP ´ûÃÎ¤Î»ö¾Ý¤ËÂÐ¤¹¤ëDCBC•×²è *****
0162     C. (¾å°Ì¥Ó¥Ã¥È¥Þ¥Ë¥å¥¢¥ë¤Ë½¾¤¤¼Â»Ü¤¹¤ë)
0163   . S. DC-BC dcbc-402:DCBC
0164     (MDP_known_event)
0165     C.
0166     C.
0167   . C. ***** ¥Ð¥¹•Ï Daily±¿ÍÑ¤Ë´Ø¤¹¤ëDCBC•×²è *****
0168   . S. DC-BC dcbc-153:DCBC
0169     (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0170     C.
0171     C.
0172   . C. ¡ãLOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0173     C.
0174   . C. ********** LOS **********
0175     C.
```

```
(a) Spacecraft Operation Procedure (real-commands)

main-662 2009-06-16 12:42:16 162 33 SOLAR-B MAIN //
0001     C.
0002    . C. *********** AOS ***********
0003     C.
0004    . C. ¡ãAOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0005     C.
0006     C. ¥À¥ß¡¼¥³¥Þ¥ó¥ÉÁ÷¿®
0007    +. DC 00-00 NULL_DUMMY_CMD
0008     C.
0009    . C. ***** AOCS : Reload orbital element (send every contact) *****
0010     C.  Ãí¡Ë¤¿¤À¤•µ°Æ»Í×ÁÇ¤Î¥¢¥Ã¥×¥í¡¼¥É¡ÊËè½µ•îÍË¡Ë¤¼ºÇÔ¤•¤¿¾ì¹ç¤Ï¡¢À®¸ù¤¹¤ë¤Þ¤ÇÁ÷¿®¤•¤Ê¤¤¤³¤È¡£
0011    +. DC 02-8E AOCU_ORB_UPD
0012     C.
0013     C.
0014    . C. ********************************
0015     C.  SOT table upload
0016     C. ********************************
0017    . C. < Stop FG table >
0018    +. DC 07-F0 MDP_FG_CTRL_MANU
0019     BC       (51)
0020    . C. ------------------------------------
0021     C.  MDP_FG_CTRL_MODE      = MANU    [ ]
0022     C. ------------------------------------
0023     C.
0024    . C. <Upload FG Observation Table>
0025    . S. RAM   ram-266:MDP_OBS_F
0026     ()
0027     C.
0028    . C. < Dump RAMID=MDP_OBS_F >
0029    +. DC 07-F0 MDP_DUMP_FGTBL
0030     BC       (82 07 00 00 00 38 b8)
0031     C. ------------------------------------
0032     C.  MDP_OBS_F verify = OK/NG        [ ]
0033     C. ------------------------------------
0034     C.
0035    . C. < Stop SP table >
0036    +. DC 07-F0 MDP_SP_CTRL_MANU
0037     BC       (61)
0038     C. ------------------------------------
0039     C.  MDP_SP_CTRL_MODE      = MANU    [ ]
0040     C. ------------------------------------
0041     C.
0042    . C. <Upload SP Observation Table>
0043    . S. RAM   ram-284:MDP_OBS_S
0044     ()
0045     C.
0046    . C. < Dump RAMID=MDP_OBS_S >
0047    +. DC 07-F0 MDP_DUMP_SPTBL
0048     BC       (83 07 00 00 00 38 b8)
0049     C. ------------------------------------
0050     C.  MDP_OBS_S verify = OK/NG        [ ]
0051     C. ------------------------------------
0052     C.
0053    . C. < Upload DPL table >
0054     C.
0055     C. ¥¢¥Ã¥×¥í¡¼¥É¤ÎÁ°¤ËSTS_CHK¤òOFF¤Ë¤¹¤ë
0056     C.
0057    . S. RAM   ram-271:MDP_DPL
0058     ()
0059     C.
0060    . C. < Dump RAMID=MDP_DPL >
0061    +. DC 07-F0 MDP_DUMP_FGTBL
0062     BC       (82 07 00 38 b8 00 40)
0063     C. ------------------------------------
0064     C.  MDP_DPL verify          = OK    [ ]
0065     C. ------------------------------------
0066     C.
0067     C. STS_CHK¤òON¤Ë¤¹¤ë
0068     C.
0069    . C. < Update MDP DSC PAR1 >
0070    +. DC 07-F0 MDP_DSC_PAR1_UPDATE
0071     BC       (4c)
0072     C.  MDP_CMD_CODE          = F04C0700[ ]
0073     C.  MDP_CMD_CNT        (count-up 1) [ ]
0074     C. ------------------------------------
0075     C.
0076    . C.
0077     C. ********************************
0078     C.  SOT TI command set
0079     C. ********************************
0080     C. Execute, after the success of TBL upload.
0081    +. TI 2009-06-16 10:47:18.0
0082     DC 07-F0 MDP_SOT_MODE_OBSV
0083     BC       (40)
0084    . C. ------------------------------------
0085     C.   HK1_TI_CMD_NUM       = 1 CNTUP [ ]
0086     C. ------------------------------------
0087     C.
0088     C.
0089     C. ************ XRT START ************
0090     C.
0091    +. DC 07-F0 MDP_XRT_CTRL_MANU
0092     BC       (c1)
0093    +  DC 07-F0 MDP_XRT_MODE_STBY
0094     BC       (c3)
0095    . C. ----------- Success Verify ?             OK / NG____
```

```
0096     C.
0097     C. XRT Obs. Table Upload
0098   . S. RAM   ram-291:MDP_OBS_X
0099     ()
0100     C.
0101  +. DC 07-F0 MDP_DUMP_XRTTBL
0102     BC       (84 07 00 00 00 3a d4)
0103   . C. ---------- Comparison Check ?                        OK / ERR ____
0104     C.
0105     C.
0106  +. DC 07-F0 MDP_XRT_ROI_SET
0107     BC       (cd 01 b1 b1 04 04)
0108  +  DC 07-F0 MDP_XRT_ROI_SET
0109     BC       (cd 02 b1 b1 08 08)
0110  +  DC 07-F0 MDP_XRT_ROI_SET
0111     BC       (cd 03 b1 b1 08 08)
0112  +  DC 07-F0 MDP_XRT_ROI_SET
0113     BC       (cd 04 b1 b1 06 06)
0114  +  DC 07-F0 MDP_XRT_ROI_SET
0115     BC       (cd 06 80 80 06 06)
0116  +  DC 07-F0 MDP_XRT_ROI_SET
0117     BC       (cd 07 a0 80 18 20)
0118  +  DC 07-F0 MDP_XRT_ROI_SET
0119     BC       (cd 08 80 60 20 18)
0120  +  DC 07-F0 MDP_XRT_ROI_SET
0121     BC       (cd 09 80 80 20 20)
0122  +  DC 07-F0 MDP_XRT_ROI_SET
0123     BC       (cd 0a 80 20 08 08)
0124  +  DC 07-F0 MDP_XRT_ROI_SET
0125     BC       (cd 0b 80 80 10 10)
0126  +  DC 07-F0 MDP_XRT_ROI_SET
0127     BC       (cd 0c 80 80 0c 0c)
0128  +  DC 07-F0 MDP_XRT_ROI_SET
0129     BC       (cd 0d 80 80 08 08)
0130  +  DC 07-F0 MDP_XRT_ROI_SET
0131     BC       (cd 0f 80 80 04 04)
0132  +  DC 07-F0 MDP_XRT_ROI_SET
0133     BC       (cd 10 80 80 10 10)
0134   . C. ---------- Success Verify ?            OK / NG ____
0135     C.
0136     C.
0137   . C. All OK?   Yes--> Please Proceed. / No --> Stop here.
0138     C.
0139  +. DC 07-F0 MDP_XRT_MODE_OBSV
0140     BC       (c2)
0141  +. TI 2009-06-16 10:47:02.0
0142     DC 07-F0 MDP_XRT_MODE_OBSV
0143     BC       (c2)
0144   . C. ---------- Success Verify ?            OK / NG ____
0145     C.
0146     C. ************ XRT END ***********
0147     C.
0148   . C. ***** MDP ´ûÃÎ¤Î»ö¾Ý¤ËÂÐ¤¹¤ëDCBC•×²è *****
0149     C. (¾å°Ì¥Ó¥Ã¥È¥Þ¥Ë¥å¥¢¥ë¤Ë½¾¤¤¼Â»Ü¤¹¤ë)
0150   . S. DC-BC dcbc-402:DCBC
0151     (MDP_known_event)
0152     C.
0153     C.
0154   . C. ***** ¥Ð¥¹•Ï Daily±¿ÍÑ¤Ë´Ø¤¹¤ëDCBC•×²è *****
0155   . S. DC-BC dcbc-153:DCBC
0156     (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0157     C.
0158     C.
0159   . C. ¡ãLOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0160     C.
0161   . C. *********** LOS ***********
0162     C.
```

```
*** OP Sequence for XRT ***

2009/06/16  10:57:54.0  XRT_CTRL_MANU_428_OG [0x1ac]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2009/06/16  10:57:56.0  XRT_FOCUS_POSITION_441_OG [0x1b9]
                                XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2009/06/16  10:58:00.0  AOCS_ORe-point_Start_1_OG [0x097]
                                AOCU_NM              5 02-76 02 01 ca 00 00
2009/06/16  10:58:16.0  XRT_QT_PROG_SET_412_OG [0x19c]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 08
2009/06/16  10:58:18.0  XRT_AEC_RESET_415_OG [0x19f]
                                MDP_XRT_AEC_RESET    1 07-F0 d0
2009/06/16  10:58:20.0  XRT_ARS_DIS_422_OG [0x1a6]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2009/06/16  10:58:22.0  XRT_FLD_DIS_445_OG [0x1bd]
                                MDP_XRT_FLD_DIS      1 07-F0 d9
2009/06/16  10:58:24.0  XRT_FLRCTRL_DIS_425_OG [0x1a9]
                                MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2009/06/16  11:01:02.0  XRT_CTRL_AUTO_403_OG [0x193]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2009/06/16  11:37:30.0  XRT_CTRL_MANU_435_OG [0x1b3]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2009/06/16  12:07:30.0  XRT_CTRL_AUTO_432_OG [0x1b0]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2009/06/16  13:16:00.0  XRT_CTRL_MANU_435_OG [0x1b3]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2009/06/16  13:29:54.0  XRT_CTRL_MANU_428_OG [0x1ac]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2009/06/16  13:29:56.0  XRT_FOCUS_POSITION_441_OG [0x1b9]
                                XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2009/06/16  13:30:00.0  AOCS_ORe-point_Start_2_OG [0x098]
                                AOCU_NM              5 02-76 00 00 00 54 00
2009/06/16  13:30:16.0  XRT_QT_PROG_SET_431_OG [0x1af]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 06
2009/06/16  13:30:18.0  XRT_ARS_DIS_422_OG [0x1a6]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2009/06/16  13:30:20.0  XRT_FLD_DIS_445_OG [0x1bd]
                                MDP_XRT_FLD_DIS      1 07-F0 d9
2009/06/16  13:30:22.0  XRT_FLRCTRL_DIS_425_OG [0x1a9]
                                MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2009/06/16  13:46:00.0  XRT_CTRL_AUTO_432_OG [0x1b0]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2009/06/16  14:54:30.0  XRT_CTRL_MANU_435_OG [0x1b3]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2009/06/16  15:24:00.0  XRT_CTRL_AUTO_432_OG [0x1b0]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2009/06/16  15:29:54.0  XRT_CTRL_MANU_428_OG [0x1ac]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2009/06/16  15:29:56.0  XRT_FOCUS_POSITION_441_OG [0x1b9]
                                XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2009/06/16  15:30:00.0  AOCS_ORe-point_Start_3_OG [0x099]
                                AOCU_NM              5 02-76 00 ac 00 00 00
2009/06/16  15:30:16.0  XRT_QT_PROG_SET_405_OG [0x195]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 0d
2009/06/16  15:30:18.0  XRT_ARS_DIS_422_OG [0x1a6]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2009/06/16  15:30:20.0  XRT_FLD_DIS_445_OG [0x1bd]
                                MDP_XRT_FLD_DIS      1 07-F0 d9
2009/06/16  15:30:22.0  XRT_FLRCTRL_DIS_425_OG [0x1a9]
                                MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2009/06/16  15:33:00.0  XRT_CTRL_AUTO_403_OG [0x193]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2009/06/16  16:33:00.0  XRT_CTRL_MANU_435_OG [0x1b3]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2009/06/16  17:02:30.0  XRT_CTRL_AUTO_432_OG [0x1b0]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2009/06/16  17:56:54.0  XRT_CTRL_MANU_428_OG [0x1ac]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2009/06/16  17:56:56.0  XRT_FOCUS_POSITION_442_OG [0x1ba]
                                XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2009/06/16  17:57:00.0  AOCS_ORe-point_Start_4_OG [0x09a]
                                AOCU_NM              5 02-76 00 00 00 00 00
2009/06/16  17:57:16.0  XRT_FLD_DIS_419_OG [0x1a3]
                                MDP_XRT_FLD_DIS      1 07-F0 d9
2009/06/16  17:57:18.0  XRT_FLRCTRL_DIS_447_OG [0x1bf]
                                MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2009/06/16  17:57:20.0  XRT_ARS_DIS_410_OG [0x19a]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2009/06/16  17:59:58.0  XRT_QT_PROG_SET_421_OG [0x1a5]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 0b
2009/06/16  18:00:00.0  XRT_CTRL_AUTO_440_OG [0x1b8]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2009/06/16  18:11:30.0  XRT_CTRL_MANU_435_OG [0x1b3]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2009/06/16  18:51:54.0  XRT_CTRL_MANU_428_OG [0x1ac]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2009/06/16  18:51:56.0  XRT_FOCUS_POSITION_442_OG [0x1ba]
                                XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2009/06/16  18:52:16.0  XRT_FLD_DIS_419_OG [0x1a3]
                                MDP_XRT_FLD_DIS      1 07-F0 d9
2009/06/16  18:52:18.0  XRT_FLRCTRL_DIS_447_OG [0x1bf]
                                MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2009/06/16  18:52:20.0  XRT_ARS_DIS_410_OG [0x19a]
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```
                                    MDP_XRT_ARS_DIS      1 07-F0 d5
2009/06/16  18:54:58.0  XRT_QT_PROG_SET_413_OG [0x19d]
                                    MDP_XRT_QT_PROG_SET  2 07-F0 c4 04
2009/06/16  18:55:00.0  XRT_CTRL_AUTO_440_OG [0x1b8]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2009/06/16  19:49:54.0  XRT_CTRL_MANU_428_OG [0x1ac]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2009/06/16  19:49:56.0  XRT_FOCUS_POSITION_441_OG [0x1b9]
                                    XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2009/06/16  19:50:00.0  AOCS_ORe-point_Start_5_OG [0x09b]
                                    AOCU_NM              5 02-76 00 e8 32 4f 1a
2009/06/16  19:50:00.5  XRT_CTRL_MANU_435_OG [0x1b3]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2009/06/16  19:50:16.0  XRT_QT_PROG_SET_406_OG [0x196]
                                    MDP_XRT_QT_PROG_SET  2 07-F0 c4 0a
2009/06/16  19:50:18.0  XRT_AEC_RESET_415_OG [0x19f]
                                    MDP_XRT_AEC_RESET    1 07-F0 d0
2009/06/16  19:50:20.0  XRT_ARS_DIS_422_OG [0x1a6]
                                    MDP_XRT_ARS_DIS      1 07-F0 d5
2009/06/16  19:50:22.0  XRT_FLD_DIS_445_OG [0x1bd]
                                    MDP_XRT_FLD_DIS      1 07-F0 d9
2009/06/16  19:50:24.0  XRT_FLRCTRL_DIS_425_OG [0x1a9]
                                    MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2009/06/16  20:30:30.0  XRT_Custom_430_OG [0x1ae]
2009/06/16  20:31:30.0  XRT_CTRL_AUTO_432_OG [0x1b0]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2009/06/16  21:28:30.0  XRT_CTRL_MANU_435_OG [0x1b3]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2009/06/16  22:07:30.0  XRT_Custom_430_OG [0x1ae]
2009/06/16  22:08:30.0  XRT_CTRL_AUTO_432_OG [0x1b0]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2009/06/16  23:07:00.0  XRT_CTRL_MANU_435_OG [0x1b3]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2009/06/16  23:39:30.0  XRT_Custom_430_OG [0x1ae]
2009/06/16  23:40:30.0  XRT_CTRL_AUTO_432_OG [0x1b0]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2009/06/17  00:45:30.0  XRT_CTRL_MANU_435_OG [0x1b3]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2009/06/17  01:15:00.0  XRT_CTRL_AUTO_432_OG [0x1b0]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2009/06/17  02:22:00.0  XRT_CTRL_MANU_435_OG [0x1b3]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2009/06/17  06:15:54.0  XRT_CTRL_MANU_428_OG [0x1ac]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2009/06/17  06:15:56.0  XRT_FOCUS_POSITION_442_OG [0x1ba]
                                    XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2009/06/17  06:16:00.0  AOCS_ORe-point_Start_4_OG [0x09a]
                                    AOCU_NM              5 02-76 00 00 00 00 00
2009/06/17  06:16:16.0  XRT_FLD_DIS_419_OG [0x1a3]
                                    MDP_XRT_FLD_DIS      1 07-F0 d9
2009/06/17  06:16:18.0  XRT_FLRCTRL_DIS_447_OG [0x1bf]
                                    MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2009/06/17  06:16:20.0  XRT_ARS_DIS_410_OG [0x19a]
                                    MDP_XRT_ARS_DIS      1 07-F0 d5
2009/06/17  06:18:58.0  XRT_QT_PROG_SET_400_OG [0x190]
                                    MDP_XRT_QT_PROG_SET  2 07-F0 c4 01
2009/06/17  06:19:00.0  XRT_CTRL_AUTO_403_OG [0x193]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2009/06/17  06:25:54.0  XRT_CTRL_MANU_428_OG [0x1ac]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2009/06/17  06:25:56.0  XRT_FOCUS_POSITION_441_OG [0x1b9]
                                    XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2009/06/17  06:26:00.0  AOCS_ORe-point_Start_5_OG [0x09b]
                                    AOCU_NM              5 02-76 00 e8 32 4f 1a
2009/06/17  06:26:16.0  XRT_QT_PROG_SET_438_OG [0x1b6]
                                    MDP_XRT_QT_PROG_SET  2 07-F0 c4 0c
2009/06/17  06:26:18.0  XRT_AEC_RESET_415_OG [0x19f]
                                    MDP_XRT_AEC_RESET    1 07-F0 d0
2009/06/17  06:26:20.0  XRT_ARS_DIS_422_OG [0x1a6]
                                    MDP_XRT_ARS_DIS      1 07-F0 d5
2009/06/17  06:26:22.0  XRT_FLD_DIS_445_OG [0x1bd]
                                    MDP_XRT_FLD_DIS      1 07-F0 d9
2009/06/17  06:26:24.0  XRT_FLRCTRL_DIS_425_OG [0x1a9]
                                    MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2009/06/17  10:10:00.0  XRT_CTRL_AUTO_432_OG [0x1b0]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2009/06/17  10:31:00.0  XRT_CTRL_MANU_435_OG [0x1b3]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2009/06/17  11:06:00.0  XRT_CTRL_AUTO_432_OG [0x1b0]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2009/06/17  12:15:00.0  XRT_CTRL_MANU_435_OG [0x1b3]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2009/06/17  12:44:30.0  XRT_CTRL_AUTO_432_OG [0x1b0]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2009/06/17  13:00:00.0  XRT_CTRL_MANU_428_OG [0x1ac]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2009/06/17  17:54:54.0  XRT_CTRL_MANU_428_OG [0x1ac]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2009/06/17  17:54:56.0  XRT_FOCUS_POSITION_442_OG [0x1ba]
                                    XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2009/06/17  17:55:00.0  AOCS_ORe-point_Start_4_OG [0x09a]
                                    AOCU_NM              5 02-76 00 00 00 00 00
2009/06/17  17:55:16.0  XRT_FLD_DIS_419_OG [0x1a3]
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                                    MDP_XRT_FLD_DIS      1 07-F0 d9
2009/06/17  17:55:18.0  XRT_FLRCTRL_DIS_447_OG [0x1bf]
                                    MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2009/06/17  17:55:20.0  XRT_ARS_DIS_410_OG [0x19a]
                                    MDP_XRT_ARS_DIS      1 07-F0 d5
2009/06/17  17:57:58.0  XRT_QT_PROG_SET_421_OG [0x1a5]
                                    MDP_XRT_QT_PROG_SET  2 07-F0 c4 0b
2009/06/17  17:58:00.0  XRT_CTRL_AUTO_440_OG [0x1b8]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2009/06/17  18:04:54.0  XRT_CTRL_MANU_428_OG [0x1ac]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2009/06/17  18:04:56.0  XRT_FOCUS_POSITION_441_OG [0x1b9]
                                    XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2009/06/17  18:05:00.0  AOCS_ORe-point_Start_5_OG [0x09b]
                                    AOCU_NM              5 02-76 00 e8 32 4f 1a
2009/06/17  18:05:16.0  XRT_QT_PROG_SET_406_OG [0x196]
                                    MDP_XRT_QT_PROG_SET  2 07-F0 c4 0a
2009/06/17  18:05:18.0  XRT_AEC_RESET_415_OG [0x19f]
                                    MDP_XRT_AEC_RESET    1 07-F0 d0
2009/06/17  18:05:20.0  XRT_ARS_DIS_422_OG [0x1a6]
                                    MDP_XRT_ARS_DIS      1 07-F0 d5
2009/06/17  18:05:22.0  XRT_FLD_DIS_445_OG [0x1bd]
                                    MDP_XRT_FLD_DIS      1 07-F0 d9
2009/06/17  18:05:24.0  XRT_FLRCTRL_DIS_425_OG [0x1a9]
                                    MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2009/06/17  18:08:02.0  XRT_CTRL_AUTO_403_OG [0x193]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2009/06/17  18:49:00.0  XRT_CTRL_MANU_435_OG [0x1b3]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2009/06/17  19:30:30.0  XRT_Custom_430_OG [0x1ae]
2009/06/17  19:31:30.5  XRT_CTRL_AUTO_432_OG [0x1b0]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2009/06/17  20:27:30.0  XRT_CTRL_MANU_435_OG [0x1b3]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2009/06/17  21:07:30.0  XRT_Custom_430_OG [0x1ae]
2009/06/17  21:08:30.0  XRT_CTRL_AUTO_432_OG [0x1b0]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2009/06/17  22:06:00.0  XRT_CTRL_MANU_435_OG [0x1b3]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2009/06/17  22:43:30.0  XRT_Custom_430_OG [0x1ae]
2009/06/17  22:44:30.0  XRT_CTRL_AUTO_432_OG [0x1b0]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2009/06/17  23:44:30.0  XRT_CTRL_MANU_435_OG [0x1b3]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2009/06/18  05:09:30.0  XRT_CTRL_AUTO_432_OG [0x1b0]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2009/06/18  05:39:54.0  XRT_CTRL_MANU_428_OG [0x1ac]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2009/06/18  05:39:56.0  XRT_FOCUS_POSITION_442_OG [0x1ba]
                                    XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2009/06/18  05:40:00.0  AOCS_ORe-point_Start_4_OG [0x09a]
                                    AOCU_NM              5 02-76 00 00 00 00 00
2009/06/18  05:40:16.0  XRT_FLD_DIS_419_OG [0x1a3]
                                    MDP_XRT_FLD_DIS      1 07-F0 d9
2009/06/18  05:40:18.0  XRT_FLRCTRL_DIS_447_OG [0x1bf]
                                    MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2009/06/18  05:40:20.0  XRT_ARS_DIS_410_OG [0x19a]
                                    MDP_XRT_ARS_DIS      1 07-F0 d5
2009/06/18  05:42:58.0  XRT_QT_PROG_SET_400_OG [0x190]
                                    MDP_XRT_QT_PROG_SET  2 07-F0 c4 01
2009/06/18  05:43:00.0  XRT_CTRL_AUTO_403_OG [0x193]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2009/06/18  05:50:00.0  AOCS_ORe-point_Start_5_OG [0x09b]
                                    AOCU_NM              5 02-76 00 e8 32 4f 1a
2009/06/18  06:07:30.0  XRT_CTRL_MANU_435_OG [0x1b3]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2009/06/18  06:48:00.0  XRT_CTRL_AUTO_432_OG [0x1b0]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2009/06/18  07:48:00.0  XRT_CTRL_MANU_435_OG [0x1b3]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2009/06/18  08:26:30.0  XRT_CTRL_AUTO_432_OG [0x1b0]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2009/06/18  09:27:30.0  XRT_CTRL_MANU_435_OG [0x1b3]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2009/06/18  10:05:00.0  XRT_CTRL_AUTO_432_OG [0x1b0]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2009/06/18  10:35:00.0  AOCS_ORe-point_Start_4_OG [0x09a]
                                    AOCU_NM              5 02-76 00 00 00 00 00
2009/06/18  11:14:00.0  XRT_CTRL_MANU_435_OG [0x1b3]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2009/06/18  11:43:30.0  XRT_CTRL_AUTO_432_OG [0x1b0]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
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