XRT Timeline to be uploaded on 2025/03/06

Period: 2025/03/06 10:01:00 - 2025/03/11 11:18:00

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

XOB #1CE6: HOP81/206 1-filter - Al/poly 6s, 120s cadence, G-band - 384x384 1ms

Term	Pointing (x, y)	Comment
03/06 10:28:00 - 03/06 18:02:24	Fixed (-20.0, -978.0)	# OP start + 10min + HOP81 South Pole
03/07 14:33:00 - 03/07 17:41:00	Fixed (-20.0, -958.0)	HOP206

PROG= 17 Inf.-time(s)

- **Subr= 1 1-time(s) 2.0sec**
  - **Seqn= 16 2-time(s) 2.0sec**
    - Open/G-band Open/G-band close Safe Norm 1ms Obs 1x1 384x384 (1064, 1048) DPCM 0 0 2.0sec
- **Subr= 2 1-time(s) 2.0sec**
  - **Seqn= 90 1-time(s) 30.0sec**
    - Open/G-band Open/G-band open Safe Norm 1ms Obs 1x1 384x384 (1064, 1048) Q=90 0 0 2.0sec
- **Subr= 3 60-time(s) 60.0sec**
  - **Seqn= 24 1-time(s) 120.0sec**
    - Al-poly/Open Al-poly/Open close Safe Norm 5.66s Obs 1x1 384x384 (1064, 1048) Q=90 0 0 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval

XOB #1CF0: Synoptic 8 Filter w/ Al-mesh(5/128/723), Al-poly(12/181/1443), Thin-Be(33/512/4096), Thick-Be(65536), Med-Al(512/8192/32768), Med-Be(128/579

Term	Pointing (x, y)	Comment
03/06 18:05:30 - 03/06 18:12:24	Fixed (0.0, 0.0)	synoptic, shifted 2.5 min

PROG= 16 1-time(s)

- **Subr= 1 1-time(s) 2.0sec**
  - **Seqn= 5 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
    - Open/Ti-poly Open/thick-Al close Safe Dark 500ms Obs 1x1 2048x512 (1024, 1024) DPCM 0 0 2.0sec
    - Open/Ti-poly Open/thick-Al close Safe Dark 500ms Obs 1x1 512x2048 (1024, 1024) DPCM 0 0 2.0sec
  - **Seqn= 26 1-time(s) 2.0sec**
    - Open/Al-mesh Open/Al-mesh close Safe Norm 5ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec
    - Open/Al-mesh Open/Al-mesh close Safe Norm 125ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec
    - Open/Al-mesh Open/Al-mesh close Safe Norm 707ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec
  - **Seqn= 15 1-time(s) 2.0sec**
    - Al-poly/Open Al-poly/Open close Safe Norm 12ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec
    - 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/thick-Al close Safe Norm 1.41s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec
  - **Seqn= 83 1-time(s) 2.0sec**
    - thin-Be/Open thin-Be/Open close Safe Norm 32ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec
    - thin-Be/Open thin-Be/Open close Safe Norm 500ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec
    - thin-Be/Open thin-Be/Open close Safe Norm 4.00s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec
  - **Seqn= 23 1-time(s) 4.0sec**
    - Open/G-band Open/G-band open Safe Norm 1ms Obs 1x1 2048x2048 (1024, 1024) Q=90 0 0 2.0sec
    - Open/G-band Open/G-band close Safe Norm 1ms Obs 1x1 2048x2048 (1024, 1024) Q=95 0 0 2.0sec
- **Subr= 2 1-time(s) 2.0sec**
  - **Seqn= 65 1-time(s) 2.0sec**
    - Open/thick-Be Open/thick-Be close Safe Norm 64.0s Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec
  - **Seqn= 17 1-time(s) 2.0sec**
    - med-Al/Open med-Al/thick-Al close Safe Norm 250ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec
    - med-Al/Open med-Al/thick-Al close Safe Norm 8.00s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec
    - med-Al/Open med-Al/Open close Safe Norm 32.0s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec
  - **Seqn= 33 1-time(s) 2.0sec**
    - med-Be/Open Open/thick-Al close Safe Norm 125ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec
    - med-Be/Open med-Be/Open close Safe Norm 5.66s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec
    - med-Be/Open med-Be/Open close Safe Norm 22.6s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec
  - **Seqn= 36 1-time(s) 2.0sec**
    - Al-poly/Ti-poly Al-poly/thick-Al close Safe Norm 63ms Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec
    - Al-poly/Ti-poly Al-poly/thick-Al close Safe Norm 2.00s Obs 2x2 2048x2048 (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 #1C94: AR (Filter-Ratio with Al/poly and thin-Be long/short pairs) with PFB, 512x512 at 1064 1048, thick-Al context, with G-band (1ms/1ms leak), 300s

Term	Pointing (x, y)	Comment
03/06 18:15:30 - 03/07 01:29:54	Track (-279.9, -248.9) @ 03/06 18:12:30	AR 14012 and 14016 tracking
03/07 06:32:00 - 03/07 09:01:30	Track (-175.9, -245.8) @ 03/07 06:29:00	AR cont.
03/07 18:17:30 - 03/08 03:08:00	Track (-74.2, -244.4) @ 03/07 18:14:30	AR cont.
03/08 06:01:30 - 03/08 06:15:00	Track (27.8, -244.3) @ 03/08 05:58:30	AR cont.

PROG= 20 Inf.-time(s)

- **Subr= 1 1-time(s) 2.0sec**
  - **Seqn= 81 1-time(s) 2.0sec**
    - Open/G-band Open/G-band open Safe Norm 1ms Obs 1x1 512x512 (1064, 1048) Q=90 0 0 2.0sec
    - Open/G-band Open/G-band close Safe Norm 1ms Obs 1x1 512x512 (1064, 1048) Q=95 0 0 2.0sec
  - **Seqn= 82 1-time(s) 2.0sec**
    - Al-poly/Open Al-poly/Open close Safe Dark 1.00s Obs 1x1 512x512 (1064, 1048) DPCM 0 0 2.0sec
  - **Seqn= 71 3-time(s) 2.0sec**

Open/thick-Al	Open/thick-Be	close	Safe	Norm	16.0s	Obs	1x1	512x512 (1064, 1048)	Q=98	3	0	2.0sec

Subr= 2 20-time(s) 300.0sec

Seqn= 94 1-time(s) 100.0sec

Al-poly/Open	thin-Be/Open	close	Safe	Norm	250ms	Obs	1x1	512x512 (1064, 1048)	Q=95	2	0	2.0sec
Al-poly/Open	thin-Be/Open	close	Safe	Norm	250ms	Obs	1x1	512x512 (1064, 1048)	Q=95	3	0	2.0sec

Seqn= 58 1-time(s) 100.0sec

Al-poly/Open	thin-Be/Open	close	Safe	Norm	500ms	Obs	1x1	384x384 (1064, 1048)	Q=95	3	1	2.0sec
thin-Be/Open	med-Be/Open	close	Safe	Norm	1.00s	Obs	1x1	384x384 (1064, 1048)	Q=95	3	1	2.0sec

Seqn= 48 1-time(s) 2.0sec

Al-poly/Open	thin-Be/Open	close	Safe	Norm	500ms	Obs	1x1	384x384 (1064, 1048)	Q=95	3	2	2.0sec
thin-Be/Open	med-Be/Open	close	Safe	Norm	1.00s	Obs	1x1	384x384 (1064, 1048)	Q=95	3	2	2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval

XOB #1D0D: HOP476_SOOP_AR_Be_Thin - (Med-Be) - Med-Be (Al-Thick) - AEC3 - PFB - Be-Thick- Be-Med 384X384 - AEC3

Term	Pointing (x, y)	Comment
03/07 01:31:00 - 03/07 03:59:54	Track (-279.9, -248.9) @ 03/06 18:12:30	AR 14012 and 14016 tracking

PROG= 19 Inf.-time(s)

Subr= 1 1-time(s) 2.0sec

Seqn= 92 1-time(s) 2.0sec

Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	1x1	384x384 (1064, 1048)	DPCM	0	0	2.0sec
Open/G-band	Open/G-band	close	Safe	Norm	1ms	Obs	1x1	384x384 (1064, 1048)	DPCM	0	0	2.0sec
Open/Ti-poly	Open/thick-Al	close	Safe	Dark	16.0s	Obs	1x1	384x384 (1064, 1048)	Q=98	0	0	2.0sec

Subr= 2 180-time(s) 2.0sec

Seqn= 3 1-time(s) 2.0sec

Open/thick-Be	Open/thick-Be	close	Safe	Norm	125ms	Obs	1x1	384x384 (1024, 1024)	DPCM	3	2	2.0sec
med-Be/Open	Open/thick-Al	close	Safe	Norm	250ms	Obs	1x1	384x384 (1024, 1024)	DPCM	3	2	2.0sec

Seqn= 39 1-time(s) 2.0sec

med-Be/Open	Open/thick-Al	close	Safe	Norm	250ms	Obs	1x1	384x384 (1024, 1024)	DPCM	3	1	2.0sec
Open/thick-Be	Open/thick-Be	close	Safe	Norm	125ms	Obs	1x1	384x384 (1024, 1024)	DPCM	3	1	2.0sec

Seqn= 80 1-time(s) 2.0sec

med-Be/Open	Open/thick-Al	close	Safe	Norm	250ms	Obs	1x1	384x384 (1024, 1024)	DPCM	3	0	2.0sec
thin-Be/Open	med-Be/Open	close	Safe	Norm	8ms	Obs	1x1	384x384 (1024, 1024)	DPCM	3	0	2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval

XOB #1D29: HOP349 - 3-filter Synoptics (Al-mesh[8/181/2897], Al-poly[16/181/4096], thin-Be[64/1024/11571] with 512x512 G-band+Leak(1064,1048) - 45 min

Term	Pointing (x, y)	Comment
03/07 04:03:00 - 03/07 06:18:54	Fixed (0.0, 0.0)	HOP349 + synoptic, shifted 19.0 min
03/08 04:03:00 - 03/08 05:48:24	Fixed (0.0, 0.0)	HOP349 + synoptic, shifted -11.5 min

PROG= 05 Inf.-time(s)

Subr= 1 1-time(s) 300.0sec

Seqn=100 1-time(s) 2.0sec

Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	8ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	177ms	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=95	0	0	2.0sec

Seqn= 84 1-time(s) 2.0sec

Al-poly/Open	Al-poly/Open	close	Safe	Norm	16ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
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/thick-Al	close	Safe	Norm	4.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec

Seqn= 57 1-time(s) 2.0sec

thin-Be/Open	thin-Be/Open	close	Safe	Norm	63ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
thin-Be/Open	thin-Be/Open	close	Safe	Norm	1.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
thin-Be/Open	thin-Be/Open	close	Safe	Norm	11.3s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec

Seqn= 81 1-time(s) 2.0sec

Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	1x1	512x512 (1064, 1048)	Q=90	0	0	2.0sec
Open/G-band	Open/G-band	close	Safe	Norm	1ms	Obs	1x1	512x512 (1064, 1048)	Q=95	0	0	2.0sec

Subr= 2 6-time(s) 1200.0sec

Seqn= 8 1-time(s) 2.0sec

thin-Be/Open	med-Be/Open	close	Safe	Norm	1.00s	Obs	4x4	2048x2048 (1024, 1024)	Q=98	3	0	2.0sec
thin-Be/Open	med-Be/Open	close	Safe	Norm	1.41s	Obs	4x4	2048x2048 (1024, 1024)	DPCM	2	0	2.0sec

Seqn= 6 1-time(s) 2.0sec

Al-poly/Open	Al-poly/Open	close	Safe	Norm	125ms	Obs	4x4	2048x2048 (1024, 1024)	Q=98	3	0	2.0sec
Al-poly/Open	Al-poly/Open	close	Safe	Norm	1.00s	Obs	4x4	2048x2048 (1024, 1024)	DPCM	2	0	2.0sec

Seqn= 29 1-time(s) 2.0sec

Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	125ms	Obs	4x4	2048x2048 (1024, 1024)	Q=98	3	0	2.0sec
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	250ms	Obs	4x4	2048x2048 (1024, 1024)	Q=98	2	0	2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval

XOB #1BC0: Synoptic Q95 2x2 - Al/mesh(8/128/1024) + Dark cal(2x2 4x4 8x8 512 Q98) + Dark cal(1x1 512x2048 - 1x1 2048x512) + Al-poly(12/181/1443) + Th

Term	Pointing (x, y)	Comment
03/07 06:22:00 - 03/07 06:28:54	Fixed (0.0, 0.0)	HOP349 + synoptic, shifted 19.0 min
03/07 18:07:30 - 03/07 18:14:24	Fixed (0.0, 0.0)	synoptic, shifted 4.5 min
03/08 05:51:30 - 03/08 05:58:24	Fixed (0.0, 0.0)	HOP349 + synoptic, shifted -11.5 min

PROG= 08 1-time(s)

Subr= 1 1-time(s) 2.0sec

Seqn= 5 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
Open/Ti-poly	Open/thick-Al	close	Safe	Dark	500ms	Obs	1x1	2048x512 (1024, 1024)	DPCM	0	0	2.0sec
Open/Ti-poly	Open/thick-Al	close	Safe	Dark	500ms	Obs	1x1	512x2048 (1024, 1024)	DPCM	0	0	2.0sec
Seqn= 13 1-time(s) 2.0sec												
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	8ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	125ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	1.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Seqn= 15 1-time(s) 2.0sec												
Al-poly/Open	Al-poly/Open	close	Safe	Norm	12ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
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/thick-Al	close	Safe	Norm	1.41s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Seqn= 45 1-time(s) 2.0sec												
thin-Be/Open	thin-Be/Open	close	Safe	Norm	63ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
thin-Be/Open	thin-Be/Open	close	Safe	Norm	1.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
thin-Be/Open	thin-Be/Open	close	Safe	Norm	5.66s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Seqn= 23 1-time(s) 2.0sec												
Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	1x1	2048x2048 (1024, 1024)	Q=90	0	0	2.0sec
Open/G-band	Open/G-band	close	Safe	Norm	1ms	Obs	1x1	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

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

XOB #1C96: Flare - multifilter 26 sec cadence (Be/thin, Be/med, Be/thick), AEC 3, 384x384 + context (med-Al,thick-Be -384x384 + Al-poly 512x512 2x2) + Gb

Term	Pointing (x, y)	Comment
03/06 10:28:00 - 03/06 18:02:24	Fixed (-20.0, -978.0)	# OP start + 10min + HOP81 South Pole
03/07 04:03:00 - 03/07 06:18:54	Fixed (0.0, 0.0)	HOP349 + synoptic, shifted 19.0 min
03/07 14:33:00 - 03/07 17:41:00	Fixed (-20.0, -958.0)	HOP206
03/08 04:03:00 - 03/08 05:48:24	Fixed (0.0, 0.0)	HOP349 + synoptic, shifted -11.5 min

PROG= 14 30-time(s)													
Subr= 1 20-time(s) 2.0sec													
Seqn= 11 1-time(s) 2.0sec													
Al-poly/Open	Al-poly/thick-Al	close	Safe	Norm	125ms	Obs	2x2	512x512 (1024, 1024)	Q=95	2	0	2.0sec
Seqn= 73 1-time(s) 10.0sec													
thin-Be/Open	med-Be/Open	close	Safe	Norm	125ms	Obs	1x1	384x384 (1024, 1024)	Q=95	3	0	2.0sec
med-Be/Open	Open/thick-Al	close	Safe	Norm	250ms	Obs	1x1	384x384 (1024, 1024)	Q=95	3	0	2.0sec
Open/thick-Be	Open/thick-Be	close	Safe	Norm	2.00s	Obs	1x1	384x384 (1024, 1024)	Q=95	3	0	2.0sec
Subr= 2 1-time(s) 2.0sec													
Seqn= 10 1-time(s) 2.0sec													
med-Al/Open	med-Al/thick-Al	close	Safe	Norm	500ms	Obs	1x1	384x384 (1024, 1024)	Q=95	3	0	2.0sec
Open/thick-Be	Open/thick-Be	close	Safe	Norm	2.00s	Obs	1x1	384x384 (1024, 1024)	Q=95	3	0	2.0sec
Seqn= 11 1-time(s) 2.0sec													
Al-poly/Open	Al-poly/thick-Al	close	Safe	Norm	125ms	Obs	2x2	512x512 (1024, 1024)	Q=95	2	0	2.0sec
Seqn= 87 1-time(s) 2.0sec													
Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	1x1	384x384 (1024, 1024)	Q=98	0	0	2.0sec
Open/G-band	Open/G-band	close	Safe	Norm	1ms	Obs	1x1	384x384 (1024, 1024)	Q=98	0	0	2.0sec
Open/thick-Al	Open/thick-Al	close	Safe	Dark	1.00s	Obs	1x1	384x384 (1024, 1024)	Q=98	0	0	2.0sec
Open/thick-Al	Open/thick-Al	close	Safe	Dark	1.00s	Obs	2x2	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 #1D2A: HOP500_SOOP_FLARE_MODE_Be_Thick_2s_Fixed_Exposure_2x2

Term	Pointing (x, y)	Comment
03/06 18:15:30 - 03/07 01:29:54	Track (-279.9, -248.9) @ 03/06 18:12:30	AR 14012 and 14016 tracking
03/07 06:32:00 - 03/07 09:01:30	Track (-175.9, -245.8) @ 03/07 06:29:00	AR cont.
03/07 18:17:30 - 03/08 03:08:00	Track (-74.2, -244.4) @ 03/07 18:14:30	AR cont.
03/08 06:01:30 - 03/08 06:15:00	Track (27.8, -244.3) @ 03/08 05:58:30	AR cont.

PROG= 06 30-time(s)													
Subr= 1 1-time(s) 2.0sec													
Seqn= 50 1-time(s) 2.0sec													
Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	1x1	384x384 (1024, 1024)	Q=98	0	0	2.0sec
Open/G-band	Open/G-band	close	Safe	Norm	1ms	Obs	1x1	384x384 (1024, 1024)	Q=98	0	0	2.0sec
Open/thick-Al	Open/thick-Al	close	Safe	Dark	1.00s	Obs	2x2	384x384 (1024, 1024)	Q=98	0	0	2.0sec
Open/thick-Al	Open/thick-Al	close	Safe	Dark	1.00s	Obs	2x2	512x512 (1024, 1024)	Q=98	0	0	2.0sec
Subr= 2 120-time(s) 2.0sec													
Seqn= 95 1-time(s) 2.0sec													
med-Be/Open	Open/thick-Al	close	Safe	Norm	86ms	Obs	2x2	384x384 (1024, 1024)	DPCM	3	0	2.0sec
Seqn= 88 10-time(s) 2.0sec													
Open/thick-Be	Open/thick-Be	close	Safe	Norm	2.00s	Obs	2x2	384x384 (1024, 1024)	DPCM	0	0	2.0sec
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval

XOB #1D27: HOP500_SOOP_FLARE_MODE_Be_Thick_2s_Fixed_Exposure

Term	Pointing (x, y)	Comment
03/07 01:31:00 - 03/07 03:59:54	Track (-279.9, -248.9) @ 03/06 18:12:30	AR 14012 and 14016 tracking

PROG= 15 30-time(s)													
Subr= 1 1-time(s) 2.0sec													
Seqn= 87 1-time(s) 2.0sec													
Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	1x1	384x384 (1024, 1024)	Q=98	0	0	2.0sec
Open/G-band	Open/G-band	close	Safe	Norm	1ms	Obs	1x1	384x384 (1024, 1024)	Q=98	0	0	2.0sec

Open/thick-Al	Open/thick-Al	close	Safe	Dark	1.00s	Obs	1x1	384x384 (1024, 1024)	Q=98	0	0	2.0sec
Open/thick-Al	Open/thick-Al	close	Safe	Dark	1.00s	Obs	2x2	512x512 (1024, 1024)	Q=98	0	0	2.0sec
Subr= 2 120-time(s) 2.0sec												
Seqn= 31 1-time(s) 2.0sec												
med-Be/Open	Open/thick-Al	close	Safe	Norm	16ms	Obs	1x1	384x384 (1024, 1024)	DPCM	3	0	2.0sec
Seqn= 40 10-time(s) 2.0sec												
Open/thick-Be	Open/thick-Be	close	Safe	Norm	2.00s	Obs	1x1	384x384 (1024, 1024)	DPCM	0	0	2.0sec
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer		Interval

Active Region Search

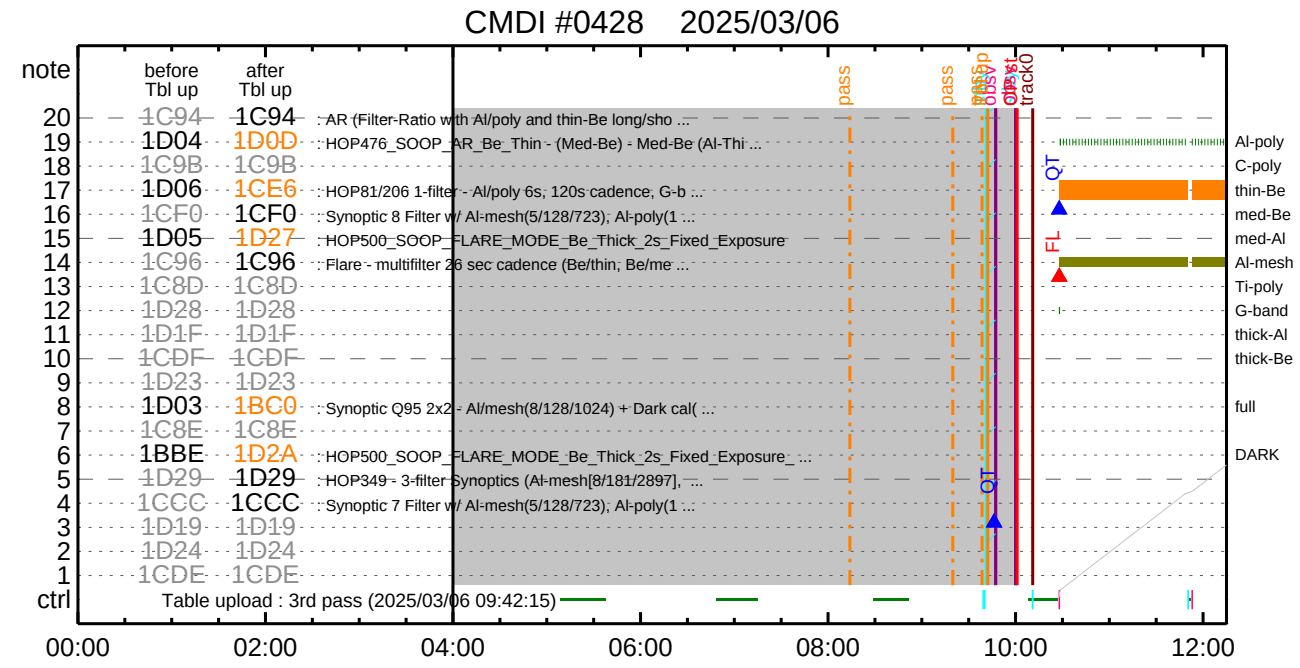
NOT USED

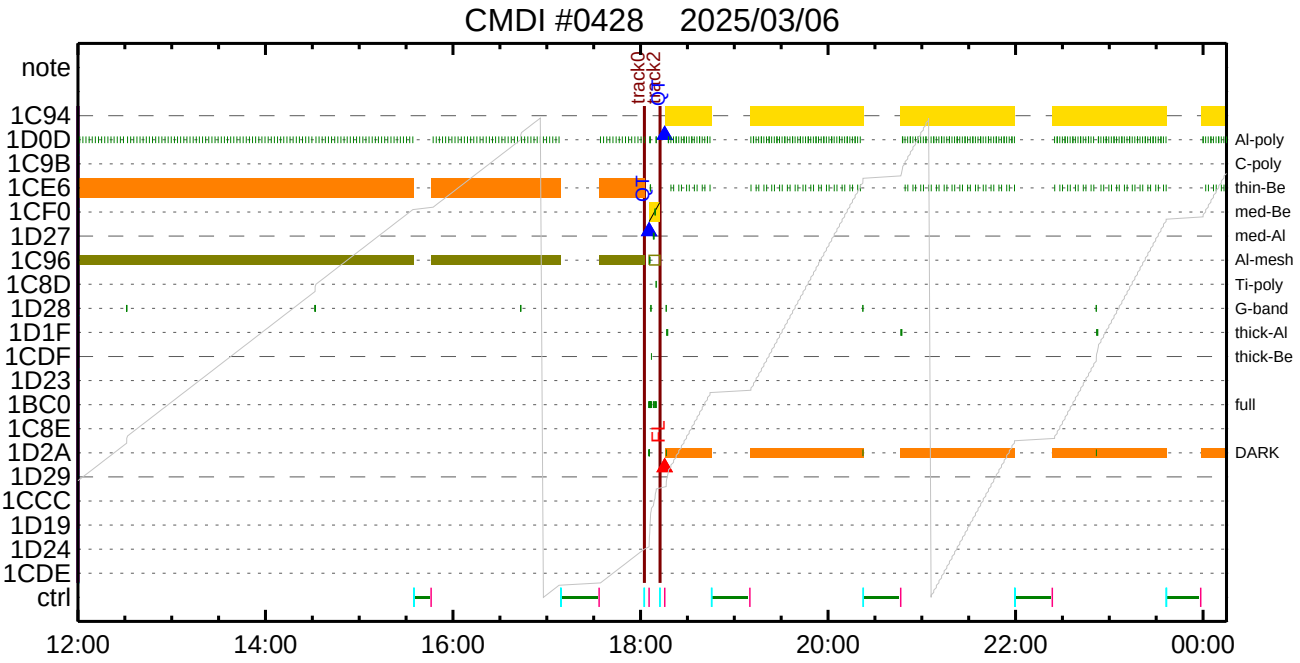
Flare Detection

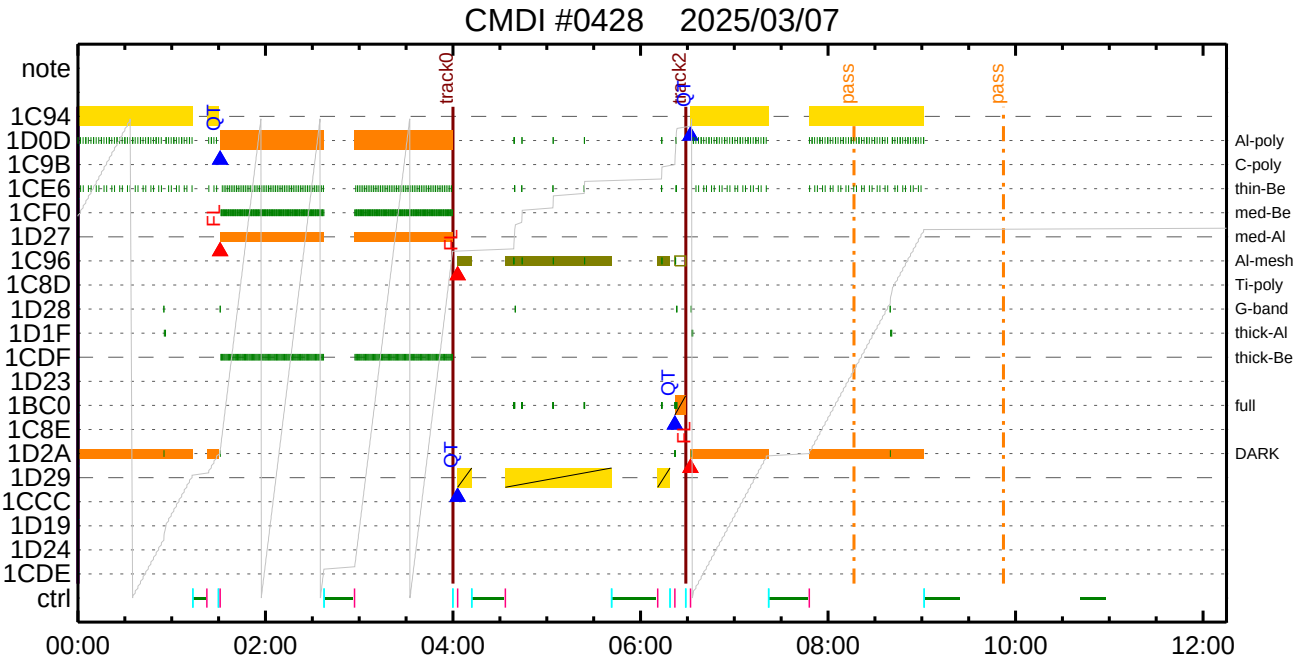
FLD Patrol

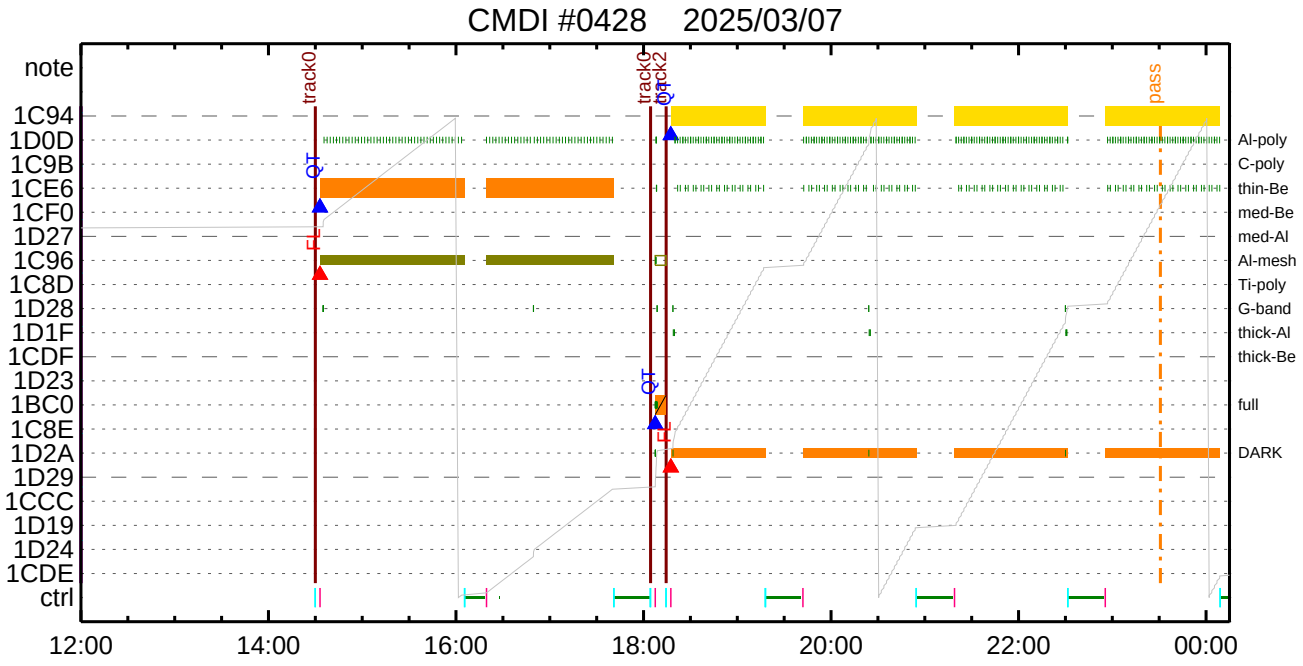
Term	Pointing (x, y)	Comment
03/06 10:11:18 - 03/06 18:02:48	Fixed (-20.0, -978.0)	# OP start + 10min + HOP81 South Pole
03/06 18:12:48 - 03/07 06:19:18	Track (-279.9, -248.9) @ 03/06 18:12:30	AR 14012 and 14016 tracking
03/07 06:29:18 - 03/07 18:04:48	Track (-175.9, -245.8) @ 03/07 06:29:00	AR cont.
03/07 18:14:48 - 03/08 05:48:48	Track (-74.2, -244.4) @ 03/07 18:14:30	AR cont.
03/08 05:58:48 - 03/11 11:18:00	Track (27.8, -244.3) @ 03/08 05:58:30	AR cont.

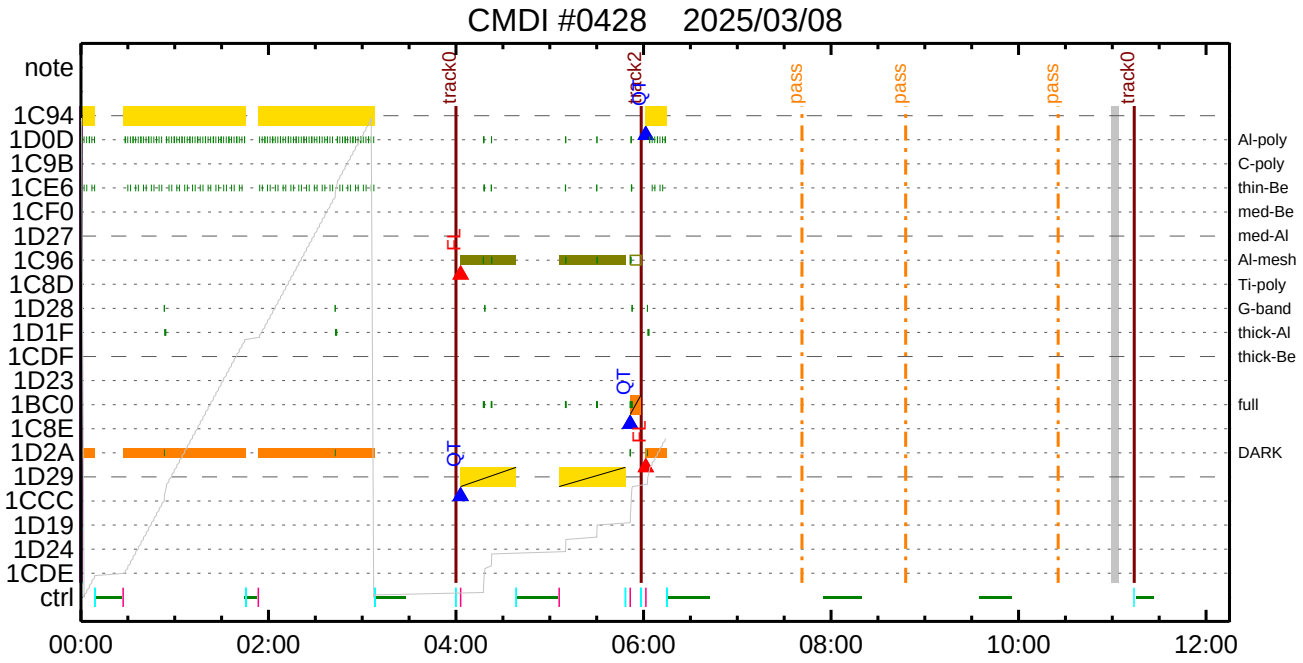
Al-poly/Open	Al-poly/Open	close	Safe	Norm	4ms	Obs	8x8		Q=50			30sec
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer		Interval

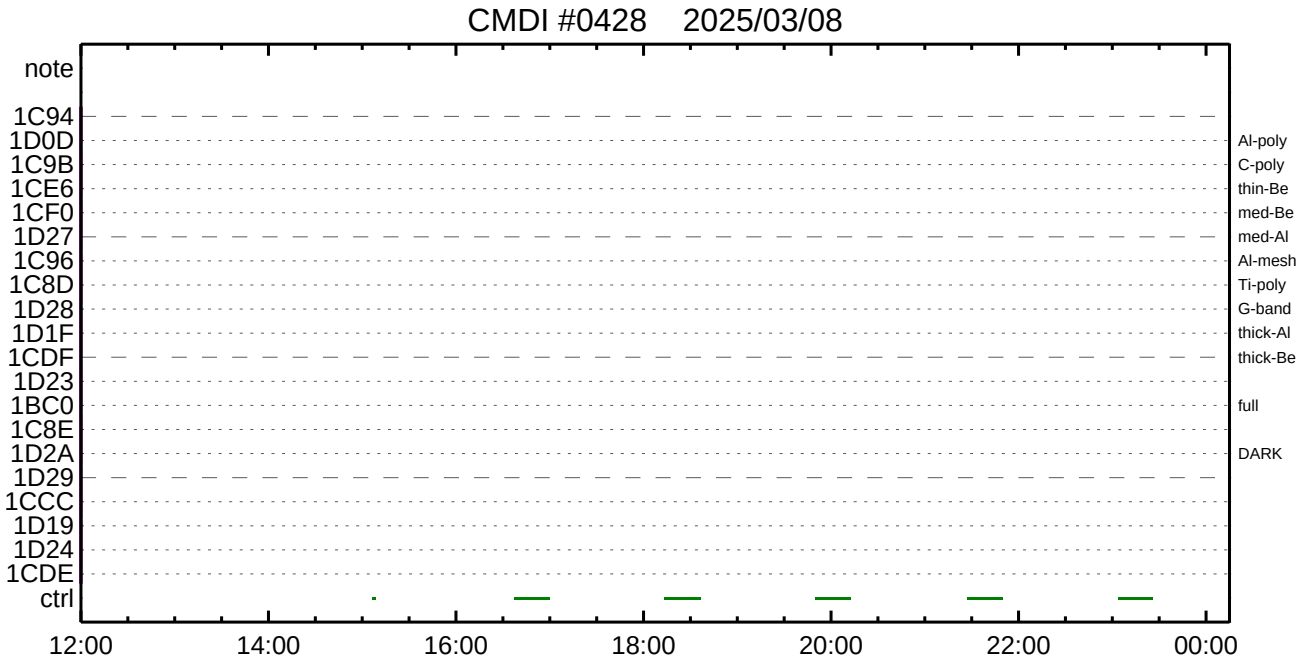

CMDI #0428 2025/03/06
note
before Tbl up
after Tbl up
20 1C94 1C94 : AR (Filter-Ratio with Al/poly and thin-Be long/sho ...
19 1D04 1D0D : HOP476_SOOP_AR_Be_Thin - (Med-Be) - Med-Be (Al-Thi ...
18 1C9B 1C9B
17 1D06 1CE6 : HOP81/206 1-filter - Al/poly 6s, 120s cadence, G-b ...
16 1CF0 1CF0 : Synoptic 8 Filter w/ Al-mesh(5/128/723); Al-poly(1 ...
15 1D05 1D27 : HOP500_SOOP_FLARE_MODE_Be_Thick_2s_Fixed_Exposure
14 1C96 1C96 : Flare - multifilter 26 sec cadence (Be/thin; Be/me ...
13 1C8D 1C8D
12 1D28 1D28
11 1D1F 1D1F
10 1CDF 1CDF
9 1D23 1D23
8 1D03 1BC0 : Synoptic Q95 2x2 - Al/mesh(8/128/1024) + Dark cal(...
7 1C8E 1C8E
6 1BBE 1D2A : HOP500_SOOP_FLARE_MODE_Be_Thick_2s_Fixed_Exposure_ ...
5 1D29 1D29 : HOP349 - 3-filter Synoptics (Al-mesh[8/181/2897], ...
4 1CCC 1CCC : Synoptic 7 Filter w/ Al-mesh(5/128/723); Al-poly(1 ...
3 1D19 1D19
2 1D24 1D24
1 1CDE 1CDE
ctrl Table upload : 3rd pass (2025/03/06 09:42:15)
pass
pass
track0
QT
FL
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

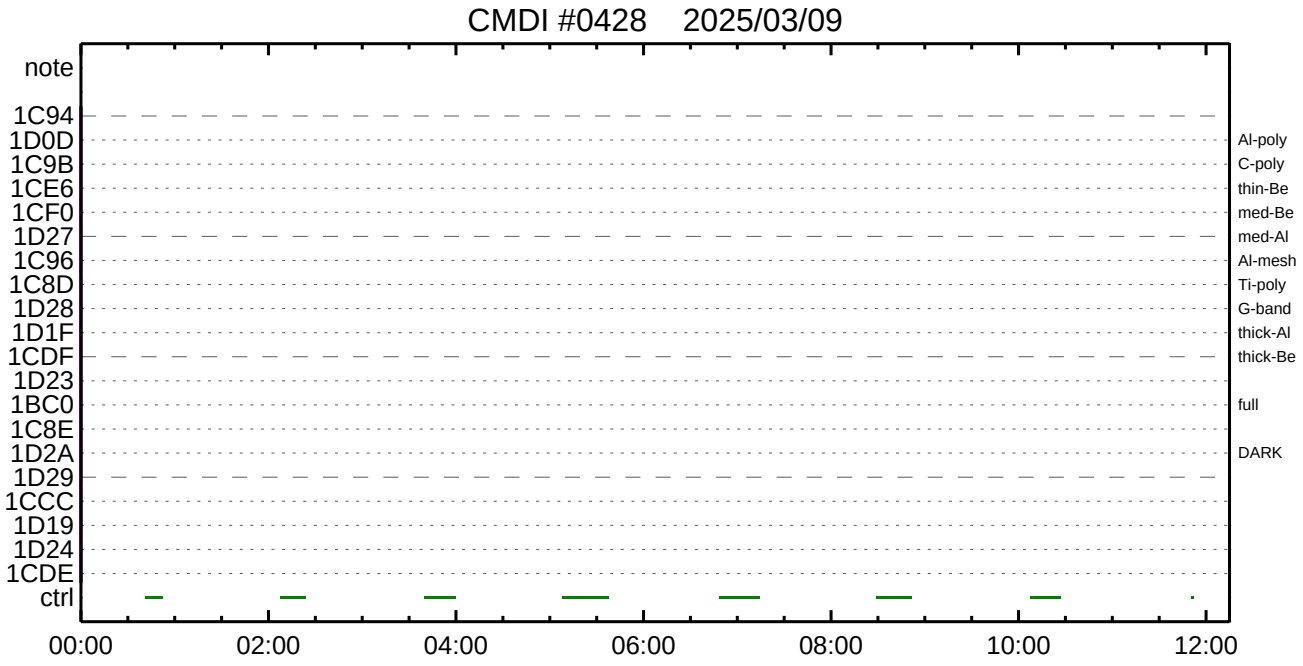

CMDI #0428 2025/03/06
note
1C94
1D0D
1C9B
1CE6
1CF0
1D27
1C96
1C8D
1D28
1D1F
1CDF
1D23
1BC0
1C8E
1D2A
1D29
1CCC
1D19
1D24
1CDE
ctrl
track0
track2
QT
FL
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
12:00
14:00
16:00
18:00
20:00
22:00
00:00

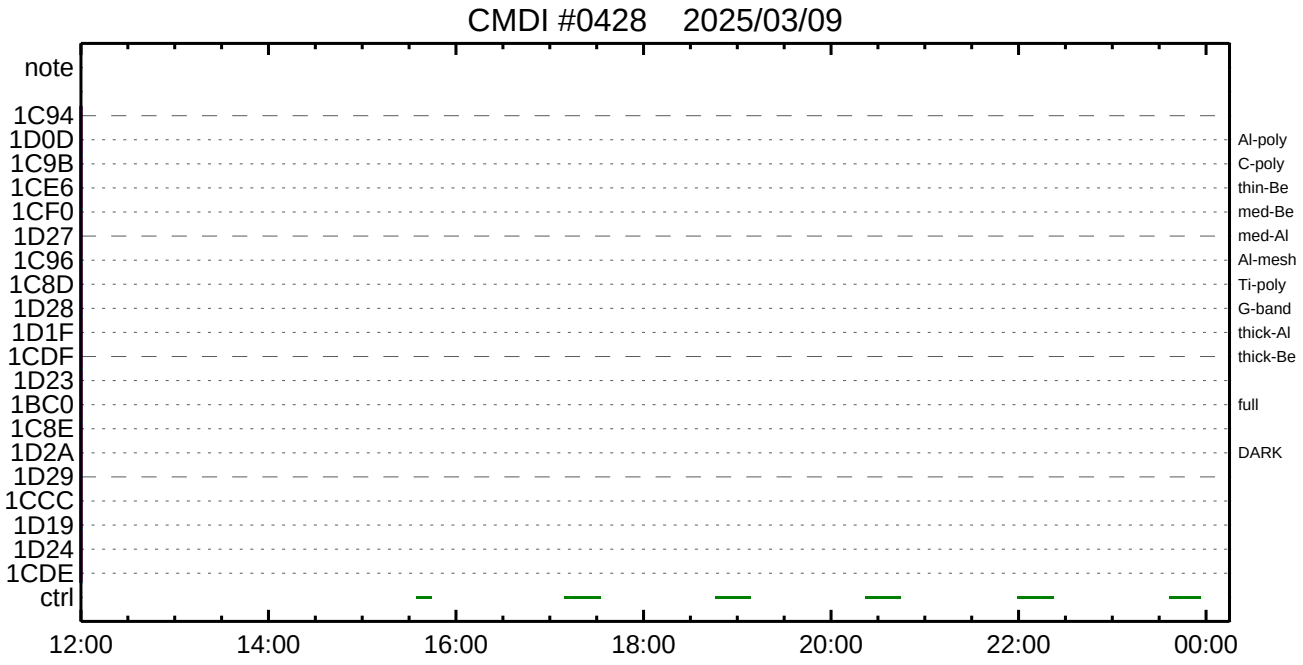

CMDI #0428 2025/03/07
note
1C94
1D0D
1C9B
1CE6
1CF0
1D27
1C96
1C8D
1D28
1D1F
1CDF
1D23
1BC0
1C8E
1D2A
1D29
1CCC
1D19
1D24
1CDE
ctrl
track0
track2
QT
FL
pass
pass
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
00:00
02:00
04:00
06:00
08:00
10:00
12:00

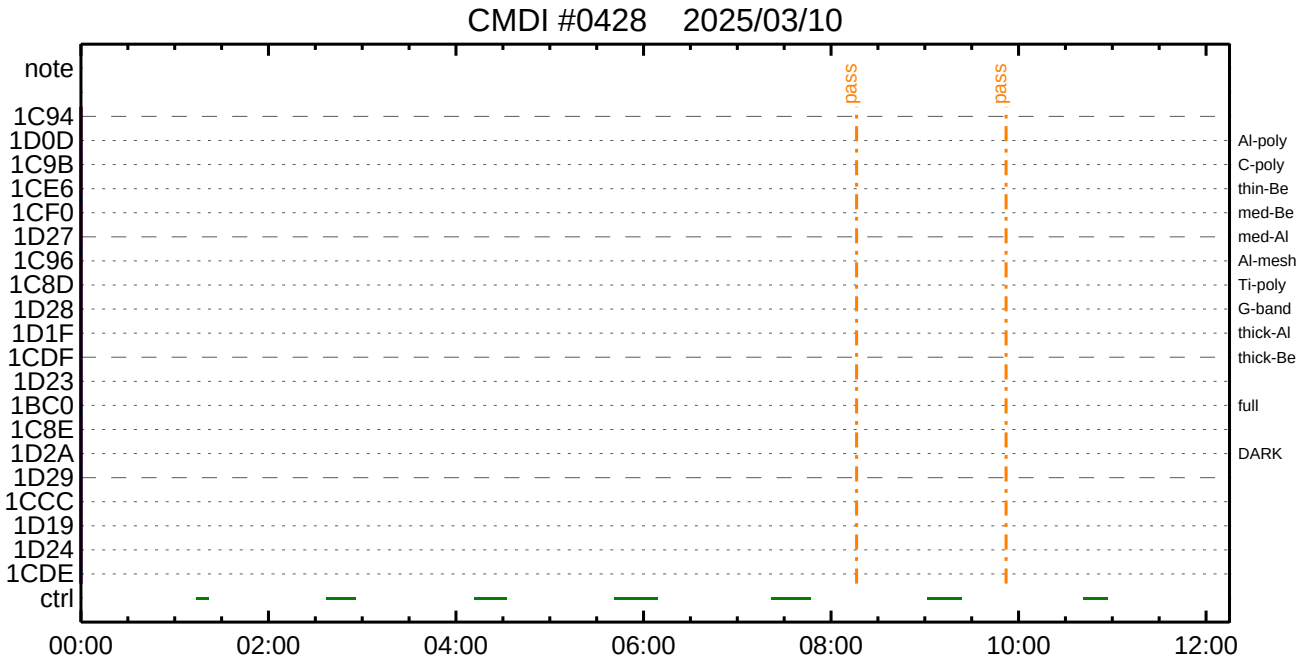

CMDI #0428 2025/03/07
note
1C94
1D0D
1C9B
1CE6
1CF0
1D27
1C96
1C8D
1D28
1D1F
1CDF
1D23
1BC0
1C8E
1D2A
1D29
1CCC
1D19
1D24
1CDE
ctrl
track0
track0
track2
pass
QT
FL
QT
FL
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
12:00
14:00
16:00
18:00
20:00
22:00
00:00

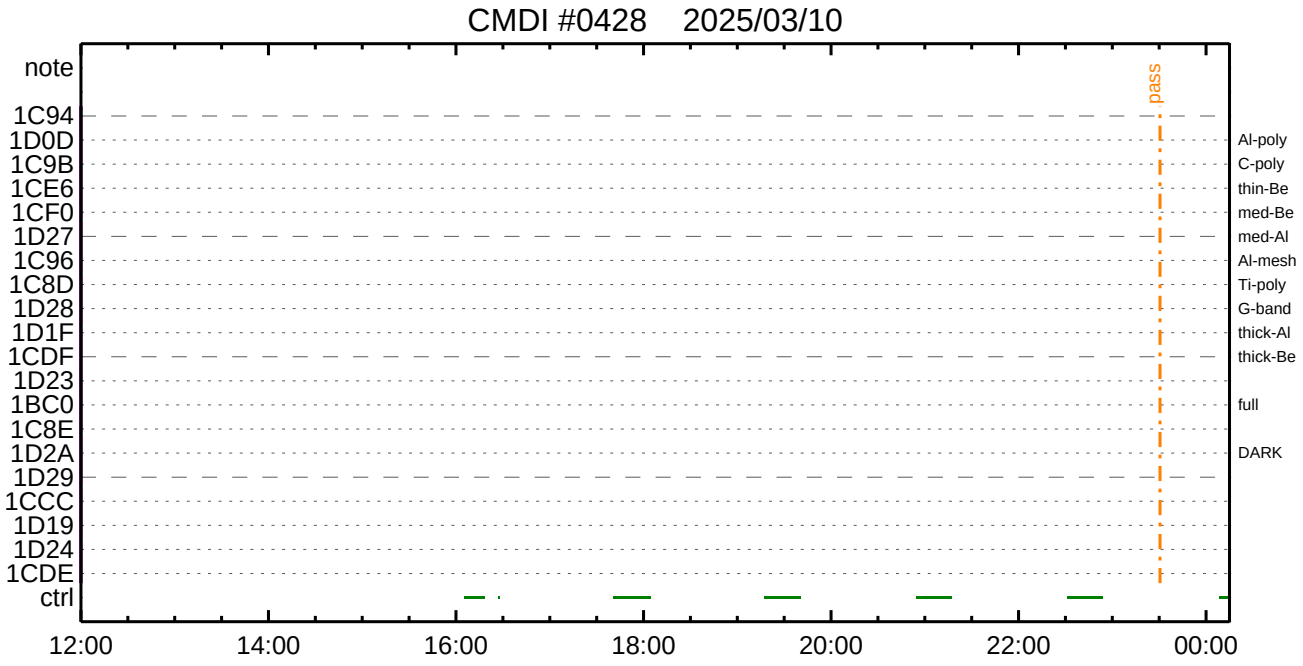

CMDI #0428 2025/03/08
note
1C94
1D0D
1C9B
1CE6
1CF0
1D27
1C96
1C8D
1D28
1D1F
1CDF
1D23
1BC0
1C8E
1D2A
1D29
1CCC
1D19
1D24
1CDE
ctrl
track0
track2
pass
pass
pass
track0
FL
QT
QT
FL
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
00:00
02:00
04:00
06:00
08:00
10:00
12:00

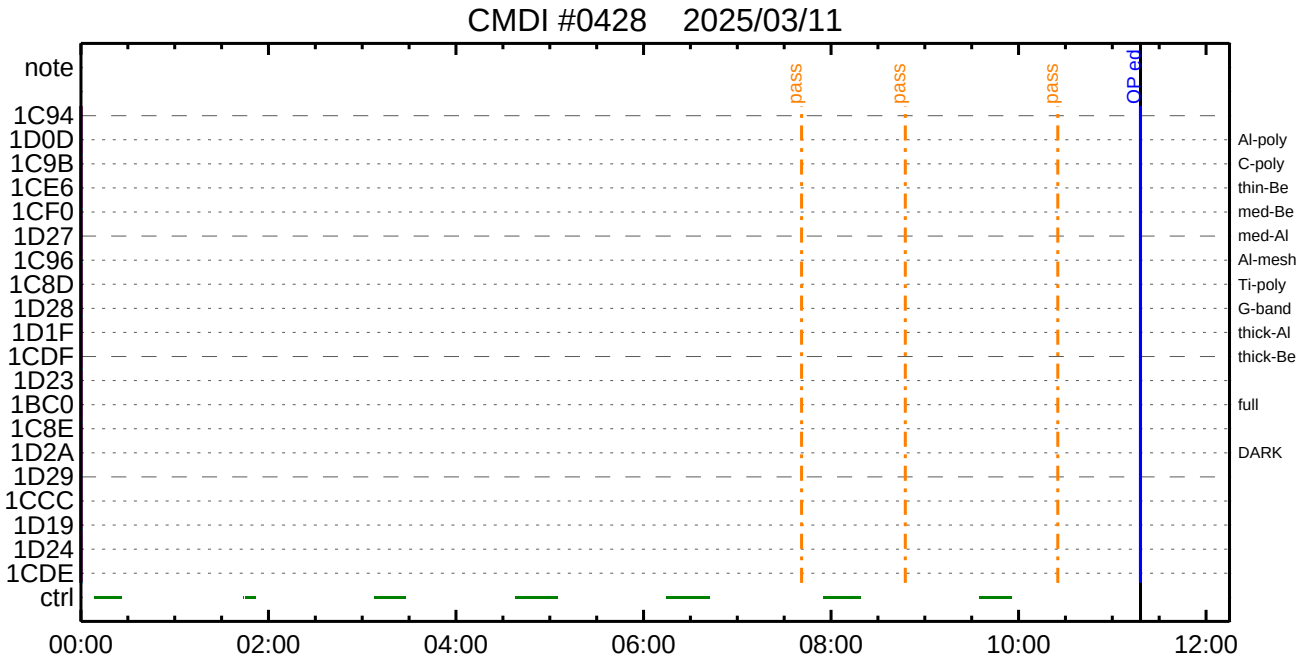

CMDI #0428 2025/03/08
note
1C94
1D0D
1C9B
1CE6
1CF0
1D27
1C96
1C8D
1D28
1D1F
1CDF
1D23
1BC0
1C8E
1D2A
1D29
1CCC
1D19
1D24
1CDE
ctrl
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
12:00
14:00
16:00
18:00
20:00
22:00
00:00

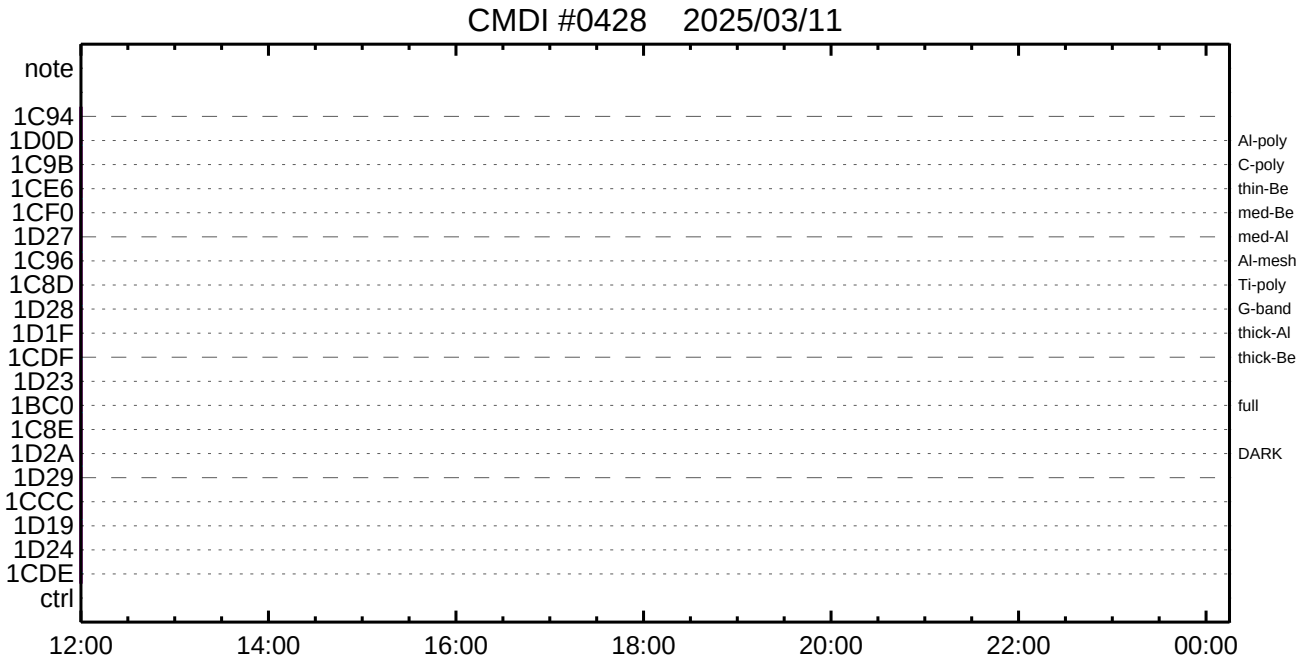

CMDI #0428 2025/03/09
note
1C94
1D0D
1C9B
1CE6
1CF0
1D27
1C96
1C8D
1D28
1D1F
1CDF
1D23
1BC0
1C8E
1D2A
1D29
1CCC
1D19
1D24
1CDE
ctrl
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
00:00
02:00
04:00
06:00
08:00
10:00
12:00


CMDI #0428 2025/03/09
note
1C94
1D0D
1C9B
1CE6
1CF0
1D27
1C96
1C8D
1D28
1D1F
1CDF
1D23
1BC0
1C8E
1D2A
1D29
1CCC
1D19
1D24
1CDE
ctrl
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


CMDI #0428 2025/03/10
note
pass
pass
1C94
1D0D
1C9B
1CE6
1CF0
1D27
1C96
1C8D
1D28
1D1F
1CDF
1D23
1BC0
1C8E
1D2A
1D29
1CCC
1D19
1D24
1CDE
ctrl
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 #0428 2025/03/10
note
1C94
1D0D
1C9B
1CE6
1CF0
1D27
1C96
1C8D
1D28
1D1F
1CDF
1D23
1BC0
1C8E
1D2A
1D29
1CCC
1D19
1D24
1CDE
ctrl
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


CMDI #0428 2025/03/11
note
1C94
1D0D
1C9B
1CE6
1CF0
1D27
1C96
1C8D
1D28
1D1F
1CDF
1D23
1BC0
1C8E
1D2A
1D29
1CCC
1D19
1D24
1CDE
ctrl
pass
pass
pass
OP end
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 #0428 2025/03/11
note
1C94
1D0D
1C9B
1CE6
1CF0
1D27
1C96
1C8D
1D28
1D1F
1CDF
1D23
1BC0
1C8E
1D2A
1D29
1CCC
1D19
1D24
1CDE
ctrl
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-133 2025-03-06 11:30:38 194 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¤Ë¼°ÇÔ¤•¤¿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. OP/OG¥í¡¼¥É¡¦¥À¥ó¥×
0016     C. ****************************
0017     C.
0018   . C. ¡ãOP/OG¥í¡¼¥É¡ä
0019   . S. OP     op-133:OP
0020     ()
0021   . S. OG     og-133:OG
0022     ()
0023     C.
0024   . C. ¡ãNMOG&OPÎÎ°è¥À¥ó¥×¡ä
0025     C. NMOG(0x200000-0x207FFF¡§ 32 kbyte)
0026   +. DC 01-23 DHU_DMA_DMP_PRM_SET
0027     BC        (20 00 7f 01 02)
0028     C.                        ¢¢[HK1_DMP_TOP_ADRS_1]          EQ     40
0029     C.                        ¢¢[HK1_DMP_TOP_ADRS_0]          EQ     0
0030     C.                        ¢¢[HK1_DMP_BLOCK_NUM]           EQ     127
0031     C.                        ¢¢[HK1_DMP_REPEAT_NUM]          EQ     0
0032     C.                        ¢¢[HK1_DMA_DMP_PIM]             EQ     DHU
0033   +. DC 01-22 DHU_MODE_CHNG
0034     BC        (07 0b f8)
0035     C.                        ¢¢[HK1_PKT_FORM_NO]             EQ     7
0036     C.                        ¢¢[HK1_PKT_GEN_TIME]            EQ     0.25 s
0037     C.                        ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32k
0038     C.                        ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
0039     C.                        ¢¢[HK1_DMP_CHK_FLG]             EQ     EXEC
0040   . C. ¥À¥ó¥×½ªÎ»¤ò³ÎÇ§
0041     C.                        ¢¢[HK1_DMP_CHK_FLG]             EQ     NON
0042   . C. RAM ID=NMOG¤Î¾È¹ç•ë²ÌOK¤ò³ÎÇ§
0043     C.
0044     C. NMOG(0x208000-0x20FFFF¡§ 32 kbyte)
0045   +. DC 01-23 DHU_DMA_DMP_PRM_SET
0046     BC        (20 80 7f 01 02)
0047     C.                        ¢¢[HK1_DMP_TOP_ADRS_1]          EQ     41
0048     C.                        ¢¢[HK1_DMP_TOP_ADRS_0]          EQ     0
0049     C.                        ¢¢[HK1_DMP_BLOCK_NUM]           EQ     127
0050     C.                        ¢¢[HK1_DMP_REPEAT_NUM]          EQ     0
0051     C.                        ¢¢[HK1_DMA_DMP_PIM]             EQ     DHU
0052   +. DC 01-22 DHU_MODE_CHNG
0053     BC        (07 0b f8)
0054     C.                        ¢¢[HK1_PKT_FORM_NO]             EQ     7
0055     C.                        ¢¢[HK1_PKT_GEN_TIME]            EQ     0.25 s
0056     C.                        ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32k
0057     C.                        ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
0058     C.                        ¢¢[HK1_DMP_CHK_FLG]             EQ     EXEC
0059   . C. ¥À¥ó¥×½ªÎ»¤ò³ÎÇ§
0060     C.                        ¢¢[HK1_DMP_CHK_FLG]             EQ     NON
0061   . C. RAM ID=NMOG¤Î¾È¹ç•ë²ÌOK¤ò³ÎÇ§
0062     C.
0063     C. NMOG(0x210000-0x2100FF¡§ 256byte)+OP(0x210100-0x2141FF: 16.25kbyte)
0064   +. DC 01-23 DHU_DMA_DMP_PRM_SET
0065     BC        (21 00 41 01 02)
0066     C.                        ¢¢[HK1_DMP_TOP_ADRS_1]          EQ     42
0067     C.                        ¢¢[HK1_DMP_TOP_ADRS_0]          EQ     0
0068     C.                        ¢¢[HK1_DMP_BLOCK_NUM]           EQ     65
0069     C.                        ¢¢[HK1_DMP_REPEAT_NUM]          EQ     0
0070     C.                        ¢¢[HK1_DMA_DMP_PIM]             EQ     DHU
0071   +. DC 01-22 DHU_MODE_CHNG
0072     BC        (07 0b f8)
0073     C.                        ¢¢[HK1_PKT_FORM_NO]             EQ     7
0074     C.                        ¢¢[HK1_PKT_GEN_TIME]            EQ     0.25 s
0075     C.                        ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32k
0076     C.                        ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
0077     C.                        ¢¢[HK1_DMP_CHK_FLG]             EQ     EXEC
0078   . C. ¥À¥ó¥×½ªÎ»¤ò³ÎÇ§
0079     C.                        ¢¢[HK1_DMP_CHK_FLG]             EQ     NON
0080   . C. RAM ID=NMOG,RAM ID=OP¤Î¾È¹ç•ë²ÌOK¤ò³ÎÇ§
0081     C.
0082   . C. ***** °Ê²¼¤Ï¾Ã´¶Á°¤ËÉ¬¤°Á÷¿® (¾åµ¬¥À¥ó¥×½ê½ç¤òÅÓÃæ¤Ç½ª¤¨¤ë¾ì¹ç¤Ç¤â) *****
0083     C. DHU¥â¡¼¥É¡Ê¼ý½¸¥ì¡¼¥È¡Ë¤òÌá¤¹
0084   +. DC 01-22 DHU_MODE_CHNG
0085     BC        (02 0a f8)
0086     C.                        ¢¢[HK1_PKT_FORM_NO]             EQ     2
0087     C.                        ¢¢[HK1_PKT_GEN_TIME]            EQ     0.5S
0088     C.                        ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32K
0089     C.                        ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
0090     C.
0091   . C. ********************************
0092     C. TI-CMD SET (OPOG STOP/COPY/START)
0093     C. ********************************
0094     C.
0095   . C. NOTICE ¡§ OPOG UPLOAD¤¬Á÷¿®NG¤Î¾ì¹ç¡¢°Ê²¼¤ÎTI-CMDÁ÷¿®¤Ï¼Â¹Ô¤•¤Ê¤¤¤³¤È¡£
```

```
0096     C.           ¤Þ¤¿¡¢SET¤ÈDUMP¤ÏÆ±°ì¥Ñ¥¹¤Ç¹Ô¤¦¤³¤È¡£
0097     C.
0098   . C. TI¥³¥Þ¥ó¥É¤òÅÐÏ¿(UT)
0099   +. TI 2025-03-06 09:56:00.0
0100     DC 01-B3 DHU_OP_STOP
0101     C.                      ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
0102     C.
0103   +. TI 2025-03-06 09:56:01.0
0104     DC 01-B4 DHU_OP_COPY
0105     C.                      ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
0106     C.
0107   +. TI 2025-03-06 09:56:01.0
0108     DC 01-B5 DHU_OPOG_COPY
0109     C.                      ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
0110     C.
0111   +. TI 2025-03-06 10:00:59.5
0112     DC 01-B2 DHU_OP_START
0113     C.                      ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
0114     C.
0115     C. °Ê²¼¤ÏÄê¾ïÍÑ¤Î¥Á¥§¥Ã¥¯¹àÌÜ
0116     C.                      ¢¢[HK1_TI_CMD_ENA/DIS]          EQ     ENA
0117     C.                      ¢¢[HK1_TI_CMD_NUM]              EQ     4
0118     C.                      ¢¢[HK1_NEXT_EXEC_PIM]           EQ     DHU
0119     C.                      ¢¢[HK1_NEXT_EXEC_DC]            EQ     0xB3
0120     C.
0121   . C. ***************************
0122     C. TIÎÎ°è¥À¥ó¥×
0123     C. ***************************
0124     C.
0125     C. TI_TBL(0x03AB00-0x03AEFF¡§ 1024byte)
0126   +. DC 01-23 DHU_DMA_DMP_PRM_SET
0127     BC       (03 ab 03 01 02)
0128     C.                      ¢¢[HK1_DMP_TOP_ADRS_1]          EQ     07
0129     C.                      ¢¢[HK1_DMP_TOP_ADRS_0]          EQ     2B
0130     C.                      ¢¢[HK1_DMP_BLOCK_NUM]           EQ     3
0131     C.                      ¢¢[HK1_DMP_REPEAT_NUM]          EQ     0
0132     C.                      ¢¢[HK1_DMA_DMP_PIM]             EQ     DHU
0133   +. DC 01-22 DHU_MODE_CHNG
0134     BC       (07 0b f8)
0135     C.                      ¢¢[HK1_PKT_FORM_NO]             EQ     7
0136     C.                      ¢¢[HK1_PKT_GEN_TIME]            EQ     0.25 s
0137     C.                      ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32k
0138     C.                      ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
0139     C.                      ¢¢[HK1_DMP_CHK_FLG]             EQ     EXEC
0140     C.
0141   . C. ¥À¥ó¥×½ªÎ»¤ò³ÎÇ§
0142     C.                      ¢¢[HK1_DMP_CHK_FLG]             EQ     NON
0143     C.
0144   . C. RAM ID=TI_TBL¤Î¾È¹ç•ë²ÌOK¤ò³ÎÇ§
0145     C.
0146   . C. DHU¥â¡¼¥É¡Ê¼ý½¸¥ì¡¼¥È¡Ë¤òÌá¤¹
0147   +. DC 01-22 DHU_MODE_CHNG
0148     BC       (02 0a f8)
0149     C.                      ¢¢[HK1_PKT_FORM_NO]             EQ     2
0150     C.                      ¢¢[HK1_PKT_GEN_TIME]            EQ     0.5S
0151     C.                      ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32K
0152     C.                      ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
0153     C.
0154   . C. Stop EIS observation and temporarily disable EIS mode changes
0155     C.
0156     C.
0157     C. ********** Start EIS operation (TI set) **********
0158     C. Execute, after the success of OP upload.
0159     C. Set EIS TI-commands
0160   +. TI 2025-03-06 10:00:30.0
0161     DC 07-FC EIS_MODE_MANU
0162     BC       (21 02)
0163   +. TI 2025-03-06 10:00:40.0
0164     DC 07-FC EIS_MODE_CHG_DIS
0165     BC       (22)
0166   . C.                       [   ]  [HK1_TI_CMD_NUM]     EQ    2 COUNTUP
0167     C. *********** End EIS operation (TI set) ***********
0168     C.
0169     C.
0170     C.
0171     C. ************ XRT START ***********
0172     C. Execute, after the success of OP upload.
0173   +. TI 2025-03-06 10:00:00.0
0174     DC 07-F0 MDP_XRT_MODE_STBY
0175     BC       (c3)
0176   . C.                       [   ]  [HK1_TI_CMD_NUM]     EQ    1COUNTUP
0177     C.
0178     C. ************ XRT END ***********
0179     C.
0180   . C. ***** MDP ´ûÃÎ¤Î»ö¾Ý¤ËÂÐ¤¹¤ëDCBC•×²è *****
0181     C. (¾å°Ì¥Ó¥Ã¥È¥Þ¥Ë¥å¥¢¥ë¤Ë½¾¤¤¼Â»Ü¤¹¤ë)
0182   . S. DC-BC dcbc-402:DCBC
0183     (MDP_known_event)
0184     C.
0185     C.
0186   . C. ***** ¥Ð¥¹•Ï Daily±¿ÍÑ¤Ë´Ø¤¹¤ëDCBC•×²è *****
0187   . S. DC-BC dcbc-153:DCBC
0188     (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0189     C.
0190     C.
0191   . C. ¡ãLOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0192     C.
0193   . C. ********** LOS **********
```

0194 C.

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(a) Spacecraft Operation Procedure (real-commands)

main-134 2025-03-06 11:30:38 169 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¤Ë¼°ÇÔ¤•¤¿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. ¢¨ °ÆÀ¸Í×È¥¤äLOS¤Þ¤Ç¤Î»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¤Î°ÆÀ¸¼ê½ç¤ò¼Â¹Ô¤¹¤ë¡£
0030     C.
0031   . C. ***************
0032     C. DR PT1 ÄÌ¾ï°ÆÀ¸
0033     C. ***************
0034     C. ¢¨ RESTART¡ÊPT1¡Ë¤•¤¿¤¤¾ì¹ç¤Ï¡¢¢°Ê²¼¤Ï¼Â¹Ô¤»¤°¡¢DCBC-150¤Ø¿Ê¤à¡£
0035     C.
0036   . C. ¡ãPT1°ÆÀ¸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•Ä°²óÈò¡Ë¸å¤Î°ÆÀ¸°Æ³«¡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. PT1°ÆÀ¸¤¬¼«°Ää»ß¤•¤¿¸å¡¢¢°Ê²¼¤ò¼Â¹Ô¤¹¤ë¡£
0055     C. ¥¢¥ó¥Æ¥ÊÀÚÂØ¤äÅ•Ä°²óÈò¤¬¶á¤¤¾ì¹ç¤Ï´°Î»¤¹¤ë¤Þ¤ÇÂÔ¤Ä¡£
0056     C.
0057   . C. ***************
0058     C. DR PT2 ÄÌ¾ï°ÆÀ¸
0059     C. ***************
0060     C. ¢¨ RESTART¡ÊPT2¡Ë¤•¤¿¤¤¾ì¹ç¤Ï¡¢¢°Ê²¼¤Ï¼Â¹Ô¤»¤°¡¢DCBC-151¤Ø¿Ê¤à¡£
0061     C.
0062   . C. ¡ãPT2°ÆÀ¸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•Ä°²óÈò¡Ë¸å¤Î°ÆÀ¸°Æ³«¡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. DR°ÆÀ¸Ää»ß¡¢XÁ÷¿®µ¡OFF
0081     C. ****************************
0082     C.
0083   . C. ¡ãDR°ÆÀ¸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
```

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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. Load OBSTBL, dump OBSTBL, enable EIS mode changes
0130   +. DC 07-FC EIS_MODE_CHG_ENA
0131     BC       (20)
0132   . C. Verify EIS_MODE_CHG_FLG is ENA
0133   +. DC 07-FC EIS_MODE_MANU
0134     BC       (21 02)
0135   . C. Verify EIS in MANUAL mode
0136   . C. Estimated OBSTBL upload time is 9s
0137     C. *********************************
0138     C. EIS START OBSTBL LOAD
0139     C. *********************************
0140   . S. RAM   ram-820:EIS_OBSTBL
0141     ()
0142   +. DC 07-FC EIS_DUMP_OBSTBL
0143     BC       (07 07 07 00 00 70 00)
0144     C.
0145     C. Execute, after the success of OBSTBL upload.
0146     C. Set EIS TI-commands
0147   +. TI 2025-03-06 10:00:50.0
0148     DC 07-FC EIS_MODE_CHG_ENA
0149     BC       (20)
0150   . C.                       [   ]  [HK1_TI_CMD_NUM]     EQ    1 COUNTUP
0151     C. *********************************
0152     C. EIS END OBSTBL LOAD
0153     C. *********************************
0154     C.
0155   . C. ***** MDP ´ûÃÎ¤Î»ö¾Ý¤ËÂÐ¤¹¤ëDCBC•×²è *****
0156     C. (¾å°Ì¥Ó¥Ã¥È¥Þ¥Ë¥å¥¢¥ë¤Ë½¾¤¤¼Â»Ü¤¹¤ë)
0157   . S. DC-BC dcbc-402:DCBC
0158     (MDP_known_event)
0159     C.
0160     C.
0161   . C. ***** ¥Ð¥¹•Ï Daily±¿ÍÑ¤Ë´Ø¤¹¤ëDCBC•×²è *****
0162   . S. DC-BC dcbc-153:DCBC
0163     (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0164     C.
0165     C.
0166   . C. ¡ãLOS¥Á¥Ş¥Ã¥¯¼Â»Ü¡ä
0167     C.
0168   . C. *********** LOS ***********
0169     C.
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(a) Spacecraft Operation Procedure (real-commands)

main-135 2025-03-06 11:30:38 96 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¤Ë¼°ÇÔ¤•¤¿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. ************ XRT START ************
0016     C.
0017   +. DC 07-F0 MDP_XRT_CTRL_MANU
0018     BC       (c1)
0019   +. DC 07-F0 MDP_XRT_CTRL_MANU
0020     BC       (c1)
0021   +  DC 07-F0 MDP_XRT_MODE_STBY
0022     BC       (c3)
0023   . C. ----------- Success Verify ?              OK / NG____
0024     C.
0025     C. XRT Obs. Table Upload
0026   . S. RAM   ram-291:MDP_OBS_X
0027     ()
0028     C.
0029   +. DC 07-F0 MDP_DUMP_XRTTBL
0030     BC       (84 07 00 00 00 3a d4)
0031   . C. ----------- Comparison Check ?                        OK / ERR ____
0032     C.
0033     C.
0034   +. DC 07-F0 MDP_XRT_ROI_SET
0035     BC       (cd 01 b1 b1 04 04)
0036   +  DC 07-F0 MDP_XRT_ROI_SET
0037     BC       (cd 02 b1 b1 08 08)
0038   +  DC 07-F0 MDP_XRT_ROI_SET
0039     BC       (cd 03 b1 b1 08 08)
0040   +  DC 07-F0 MDP_XRT_ROI_SET
0041     BC       (cd 04 b1 b1 06 06)
0042   +  DC 07-F0 MDP_XRT_ROI_SET
0043     BC       (cd 05 85 83 06 06)
0044   +  DC 07-F0 MDP_XRT_ROI_SET
0045     BC       (cd 06 80 80 20 20)
0046   +  DC 07-F0 MDP_XRT_ROI_SET
0047     BC       (cd 07 80 80 20 08)
0048   +  DC 07-F0 MDP_XRT_ROI_SET
0049     BC       (cd 08 80 80 08 20)
0050   +  DC 07-F0 MDP_XRT_ROI_SET
0051     BC       (cd 09 85 83 06 06)
0052   +  DC 07-F0 MDP_XRT_ROI_SET
0053     BC       (cd 0a 85 83 08 08)
0054   +  DC 07-F0 MDP_XRT_ROI_SET
0055     BC       (cd 0b 80 80 06 06)
0056   +  DC 07-F0 MDP_XRT_ROI_SET
0057     BC       (cd 0f 80 80 06 06)
0058   +  DC 07-F0 MDP_XRT_ROI_SET
0059     BC       (cd 10 80 80 08 08)
0060   +  DC 07-F0 MDP_XRT_FLD_DIS
0061     BC       (d9)
0062   +  DC 07-F0 MDP_XRT_FLRCTRL_DIS
0063     BC       (c9)
0064   +  DC 07-F0 MDP_XRT_ARS_DIS
0065     BC       (d5)
0066   +. DC 07-F0 MDP_XRT_QT_PROG_SET
0067     BC       (c4 04)
0068   . C. ---------- Success Verify ?            OK / NG ____
0069     C.
0070     C.
0071   . C. All OK?   Yes--> Please Proceed. / No --> Stop here.
0072     C.
0073   +. DC 07-F0 MDP_XRT_MODE_OBSV
0074     BC       (c2)
0075   +. TI 2025-03-06 10:00:02.0
0076     DC 07-F0 MDP_XRT_MODE_OBSV
0077     BC       (c2)
0078   . C. ---------- Success Verify ?            OK / NG ____
0079     C.
0080     C. ************ XRT END ************
0081     C.
0082   . C. ***** MDP ´ûÃÎ¤Î»ö¾Ý¤ËÂÐ¤¹¤ëDCBC•×²è *****
0083     C. (¾å°Ì¥Ó¥Ã¥È¥Þ¥Ë¥å¥¢¥ë¤Ë½¾¤¤¼Â»Ü¤¹¤ë)
0084   . S. DC-BC dcbc-402:DCBC
0085     (MDP_known_event)
0086     C.
0087     C.
0088   . C. ***** ¥Ð¥¹•Ï Daily±¿ÍÑ¤Ë´Ø¤¹¤ëDCBC•×²è *****
0089   . S. DC-BC dcbc-153:DCBC
0090     (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0091     C.
0092     C.
0093   . C. ¡ãLOS¥Á¥$¥Ã¥¯¼Â»Ü¡ä
0094     C.
0095   . C. *********** LOS ***********
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0096 C.

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*** OP Sequence for XRT ***

2025/03/06  10:10:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/06  10:10:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/06  10:10:58.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2025/03/06  10:11:00.0  AOCS_ORe-point_Start_1_OG [0x097]
                                AOCU_NM              5 02-76 00 56 f1 01 ca
2025/03/06  10:11:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                MDP_XRT_FLD_ENA      1 07-F0 d8
2025/03/06  10:11:20.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2025/03/06  10:11:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                MDP_XRT_AEC_RESET    1 07-F0 d0
2025/03/06  10:11:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2025/03/06  10:11:26.0  XRT_FLD_RESET_425_OG [0x1a9]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2025/03/06  10:27:56.0  XRT_QT_PROG_SET_416_OG [0x1a0]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 11
2025/03/06  10:27:58.0  XRT_FL_PROG_SET_439_OG [0x1b7]
                                MDP_XRT_FL_PROG_SET  2 07-F0 c5 0e
2025/03/06  10:28:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/03/06  11:50:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/06  11:50:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/06  11:50:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2025/03/06  11:50:36.0  XRT_PREFLR_STRT_417_OG [0x1a1]
                                MDP_XRT_PREFLR_STRT  1 07-F0 e8
2025/03/06  11:52:00.0  XRT_Custom_430_OG [0x1ae]
2025/03/06  11:53:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/03/06  11:53:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                MDP_XRT_PREFLR_STOP  1 07-F0 e9
2025/03/06  15:35:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/06  15:35:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/06  15:35:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2025/03/06  15:35:06.0  XRT_PREFLR_STRT_417_OG [0x1a1]
                                MDP_XRT_PREFLR_STRT  1 07-F0 e8
2025/03/06  15:38:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                MDP_XRT_PREFLR_STOP  1 07-F0 e9
2025/03/06  15:45:00.0  XRT_Custom_430_OG [0x1ae]
2025/03/06  15:46:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/03/06  17:09:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/06  17:09:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/06  17:09:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2025/03/06  17:09:06.0  XRT_PREFLR_STRT_417_OG [0x1a1]
                                MDP_XRT_PREFLR_STRT  1 07-F0 e8
2025/03/06  17:12:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                MDP_XRT_PREFLR_STOP  1 07-F0 e9
2025/03/06  17:32:30.0  XRT_Custom_430_OG [0x1ae]
2025/03/06  17:33:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/03/06  18:02:24.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/06  18:02:26.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/06  18:02:28.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2025/03/06  18:02:30.0  AOCS_ORe-point_Start_2_OG [0x098]
                                AOCU_NM              5 02-76 00 00 00 00 00
2025/03/06  18:02:48.0  XRT_FLD_DIS_409_OG [0x199]
                                MDP_XRT_FLD_DIS      1 07-F0 d9
2025/03/06  18:02:50.0  XRT_FLRCTRL_DIS_413_OG [0x19d]
                                MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2025/03/06  18:02:52.0  XRT_ARS_DIS_435_OG [0x1b3]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2025/03/06  18:05:28.0  XRT_QT_PROG_SET_420_OG [0x1a4]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 10
2025/03/06  18:05:30.0  XRT_CTRL_AUTO_408_OG [0x198]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/03/06  18:12:24.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/06  18:12:26.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/06  18:12:28.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2025/03/06  18:12:30.0  AOCS_ORe-point_Start_3_OG [0x099]
                                AOCU_NM              5 02-76 02 03 64 01 ca
2025/03/06  18:12:48.0  XRT_FLD_ENA_411_OG [0x19b]
                                MDP_XRT_FLD_ENA      1 07-F0 d8
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2025/03/06  18:12:50.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2025/03/06  18:12:52.0  XRT_AEC_RESET_448_OG [0x1c0]
                                MDP_XRT_AEC_RESET    1 07-F0 d0
2025/03/06  18:12:54.0  XRT_ARS_DIS_423_OG [0x1a7]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2025/03/06  18:12:56.0  XRT_FLD_RESET_434_OG [0x1b2]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2025/03/06  18:15:26.0  XRT_QT_PROG_SET_444_OG [0x1bc]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 14
2025/03/06  18:15:28.0  XRT_FL_PROG_SET_403_OG [0x193]
                                MDP_XRT_FL_PROG_SET  2 07-F0 c5 06
2025/03/06  18:15:30.0  XRT_CTRL_AUTO_408_OG [0x198]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/03/06  18:45:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/06  18:45:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/06  18:45:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2025/03/06  18:45:36.0  XRT_PREFLR_STRT_417_OG [0x1a1]
                                MDP_XRT_PREFLR_STRT  1 07-F0 e8
2025/03/06  18:48:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                MDP_XRT_PREFLR_STOP  1 07-F0 e9
2025/03/06  19:09:00.0  XRT_Custom_430_OG [0x1ae]
2025/03/06  19:10:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/03/06  20:22:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/06  20:22:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/06  20:22:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2025/03/06  20:22:36.0  XRT_PREFLR_STRT_417_OG [0x1a1]
                                MDP_XRT_PREFLR_STRT  1 07-F0 e8
2025/03/06  20:25:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                MDP_XRT_PREFLR_STOP  1 07-F0 e9
2025/03/06  20:45:30.0  XRT_Custom_430_OG [0x1ae]
2025/03/06  20:46:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/03/06  21:59:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/06  21:59:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/06  21:59:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2025/03/06  21:59:36.0  XRT_PREFLR_STRT_417_OG [0x1a1]
                                MDP_XRT_PREFLR_STRT  1 07-F0 e8
2025/03/06  22:02:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                MDP_XRT_PREFLR_STOP  1 07-F0 e9
2025/03/06  22:22:30.0  XRT_Custom_430_OG [0x1ae]
2025/03/06  22:23:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/03/06  23:36:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/06  23:36:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/06  23:36:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2025/03/06  23:36:36.0  XRT_PREFLR_STRT_417_OG [0x1a1]
                                MDP_XRT_PREFLR_STRT  1 07-F0 e8
2025/03/06  23:39:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                MDP_XRT_PREFLR_STOP  1 07-F0 e9
2025/03/06  23:57:30.0  XRT_Custom_430_OG [0x1ae]
2025/03/06  23:58:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/03/07  01:13:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/07  01:13:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/07  01:13:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2025/03/07  01:13:36.0  XRT_PREFLR_STRT_417_OG [0x1a1]
                                MDP_XRT_PREFLR_STRT  1 07-F0 e8
2025/03/07  01:16:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                MDP_XRT_PREFLR_STOP  1 07-F0 e9
2025/03/07  01:21:30.0  XRT_Custom_430_OG [0x1ae]
2025/03/07  01:22:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/03/07  01:29:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/07  01:29:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/07  01:29:58.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2025/03/07  01:30:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                MDP_XRT_FLD_ENA      1 07-F0 d8
2025/03/07  01:30:20.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2025/03/07  01:30:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                MDP_XRT_AEC_RESET    1 07-F0 d0
2025/03/07  01:30:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
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2025/03/07  01:30:26.0  XRT_FLD_RESET_443_OG [0x1bb]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2025/03/07  01:30:56.0  XRT_QT_PROG_SET_431_OG [0x1af]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 13
2025/03/07  01:30:58.0  XRT_FL_PROG_SET_404_OG [0x194]
                                MDP_XRT_FL_PROG_SET  2 07-F0 c5 0f
2025/03/07  01:31:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/03/07  02:37:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/07  02:37:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/07  02:37:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2025/03/07  02:37:36.0  XRT_PREFLR_STRT_417_OG [0x1a1]
                                MDP_XRT_PREFLR_STRT  1 07-F0 e8
2025/03/07  02:40:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                MDP_XRT_PREFLR_STOP  1 07-F0 e9
2025/03/07  02:56:00.0  XRT_Custom_430_OG [0x1ae]
2025/03/07  02:57:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/03/07  03:59:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/07  03:59:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/07  03:59:58.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2025/03/07  04:00:00.0  AOCS_ORe-point_Start_2_OG [0x098]
                                AOCU_NM              5 02-76 00 00 00 00 00
2025/03/07  04:00:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                MDP_XRT_FLD_ENA      1 07-F0 d8
2025/03/07  04:00:20.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2025/03/07  04:00:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                MDP_XRT_AEC_RESET    1 07-F0 d0
2025/03/07  04:00:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2025/03/07  04:00:26.0  XRT_FLD_RESET_434_OG [0x1b2]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2025/03/07  04:02:56.0  XRT_QT_PROG_SET_438_OG [0x1b6]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 05
2025/03/07  04:02:58.0  XRT_FL_PROG_SET_439_OG [0x1b7]
                                MDP_XRT_FL_PROG_SET  2 07-F0 c5 0e
2025/03/07  04:03:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/03/07  04:12:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/07  04:12:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/07  04:12:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2025/03/07  04:12:06.0  XRT_PREFLR_STRT_417_OG [0x1a1]
                                MDP_XRT_PREFLR_STRT  1 07-F0 e8
2025/03/07  04:15:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                MDP_XRT_PREFLR_STOP  1 07-F0 e9
2025/03/07  04:32:30.5  XRT_Custom_430_OG [0x1ae]
2025/03/07  04:33:30.5  XRT_CTRL_AUTO_424_OG [0x1a8]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/03/07  05:41:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/07  05:41:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/07  05:41:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2025/03/07  05:41:36.0  XRT_PREFLR_STRT_417_OG [0x1a1]
                                MDP_XRT_PREFLR_STRT  1 07-F0 e8
2025/03/07  05:44:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                MDP_XRT_PREFLR_STOP  1 07-F0 e9
2025/03/07  06:10:00.0  XRT_Custom_430_OG [0x1ae]
2025/03/07  06:11:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/03/07  06:18:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/07  06:18:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/07  06:18:58.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2025/03/07  06:19:18.0  XRT_FLD_DIS_409_OG [0x199]
                                MDP_XRT_FLD_DIS      1 07-F0 d9
2025/03/07  06:19:20.0  XRT_FLRCTRL_DIS_413_OG [0x19d]
                                MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2025/03/07  06:19:22.0  XRT_ARS_DIS_435_OG [0x1b3]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2025/03/07  06:21:58.0  XRT_QT_PROG_SET_437_OG [0x1b5]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 08
2025/03/07  06:22:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/03/07  06:28:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/07  06:28:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/07  06:28:58.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
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2025/03/07  06:29:00.0  AOCS_ORe-point_Start_3_OG [0x099]
                                AOCU_NM               5 02-76 02 03 64 01 ca
2025/03/07  06:29:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                MDP_XRT_FLD_ENA       1 07-F0 d8
2025/03/07  06:29:20.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                MDP_XRT_FLRCTRL_ENA   1 07-F0 c8
2025/03/07  06:29:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                MDP_XRT_AEC_RESET     1 07-F0 d0
2025/03/07  06:29:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                MDP_XRT_ARS_DIS       1 07-F0 d5
2025/03/07  06:29:26.0  XRT_FLD_RESET_434_OG [0x1b2]
                                MDP_XRT_FLD_RESET     1 07-F0 da
2025/03/07  06:31:56.0  XRT_QT_PROG_SET_444_OG [0x1bc]
                                MDP_XRT_QT_PROG_SET   2 07-F0 c4 14
2025/03/07  06:31:58.0  XRT_FL_PROG_SET_403_OG [0x193]
                                MDP_XRT_FL_PROG_SET   2 07-F0 c5 06
2025/03/07  06:32:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                MDP_XRT_CTRL_AUTO     1 07-F0 c0
2025/03/07  07:22:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU     1 07-F0 c1
2025/03/07  07:22:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU     1 07-F0 c1
2025/03/07  07:22:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                MDP_XRT_FLD_RESET     1 07-F0 da
2025/03/07  07:22:06.0  XRT_PREFLR_STRT_417_OG [0x1a1]
                                MDP_XRT_PREFLR_STRT   1 07-F0 e8
2025/03/07  07:25:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                MDP_XRT_PREFLR_STOP   1 07-F0 e9
2025/03/07  07:47:00.0  XRT_Custom_430_OG [0x1ae]
2025/03/07  07:48:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                MDP_XRT_CTRL_AUTO     1 07-F0 c0
2025/03/07  09:01:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU     1 07-F0 c1
2025/03/07  09:01:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU     1 07-F0 c1
2025/03/07  09:01:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                MDP_XRT_FLD_RESET     1 07-F0 da
2025/03/07  09:01:36.0  XRT_PREFLR_STRT_417_OG [0x1a1]
                                MDP_XRT_PREFLR_STRT   1 07-F0 e8
2025/03/07  09:04:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                MDP_XRT_PREFLR_STOP   1 07-F0 e9
2025/03/07  14:29:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU     1 07-F0 c1
2025/03/07  14:29:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU     1 07-F0 c1
2025/03/07  14:29:58.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                XRT_FOCUS_POSITION    4 07-F8 22 fe 97 00
2025/03/07  14:30:00.0  AOCS_ORe-point_Start_4_OG [0x09a]
                                AOCU_NM               5 02-76 00 55 26 01 ca
2025/03/07  14:30:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                MDP_XRT_FLD_ENA       1 07-F0 d8
2025/03/07  14:30:20.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                MDP_XRT_FLRCTRL_ENA   1 07-F0 c8
2025/03/07  14:30:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                MDP_XRT_AEC_RESET     1 07-F0 d0
2025/03/07  14:30:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                MDP_XRT_ARS_DIS       1 07-F0 d5
2025/03/07  14:30:26.0  XRT_FLD_RESET_434_OG [0x1b2]
                                MDP_XRT_FLD_RESET     1 07-F0 da
2025/03/07  14:32:56.0  XRT_QT_PROG_SET_416_OG [0x1a0]
                                MDP_XRT_QT_PROG_SET   2 07-F0 c4 11
2025/03/07  14:32:58.0  XRT_FL_PROG_SET_439_OG [0x1b7]
                                MDP_XRT_FL_PROG_SET   2 07-F0 c5 0e
2025/03/07  14:33:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                MDP_XRT_CTRL_AUTO     1 07-F0 c0
2025/03/07  16:05:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU     1 07-F0 c1
2025/03/07  16:05:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU     1 07-F0 c1
2025/03/07  16:05:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                MDP_XRT_FLD_RESET     1 07-F0 da
2025/03/07  16:05:36.0  XRT_PREFLR_STRT_417_OG [0x1a1]
                                MDP_XRT_PREFLR_STRT   1 07-F0 e8
2025/03/07  16:08:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                MDP_XRT_PREFLR_STOP   1 07-F0 e9
2025/03/07  16:18:30.0  XRT_Custom_430_OG [0x1ae]
2025/03/07  16:19:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                MDP_XRT_CTRL_AUTO     1 07-F0 c0
2025/03/07  17:41:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU     1 07-F0 c1
2025/03/07  17:41:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU     1 07-F0 c1
2025/03/07  17:41:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                MDP_XRT_FLD_RESET     1 07-F0 da
2025/03/07  17:41:06.0  XRT_PREFLR_STRT_417_OG [0x1a1]
                                MDP_XRT_PREFLR_STRT   1 07-F0 e8
2025/03/07  17:44:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                MDP_XRT_PREFLR_STOP   1 07-F0 e9
2025/03/07  18:04:24.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU     1 07-F0 c1
2025/03/07  18:04:26.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU     1 07-F0 c1
2025/03/07  18:04:28.0  XRT_FOCUS_POSITION_406_OG [0x196]
```

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                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2025/03/07  18:04:30.0  AOCS_ORe-point_Start_2_OG [0x098]
                                        AOCU_NM              5 02-76 00 00 00 00 00
2025/03/07  18:04:48.0  XRT_FLD_DIS_409_OG [0x199]
                                        MDP_XRT_FLD_DIS      1 07-F0 d9
2025/03/07  18:04:50.0  XRT_FLRCTRL_DIS_413_OG [0x19d]
                                        MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2025/03/07  18:04:52.0  XRT_ARS_DIS_435_OG [0x1b3]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2025/03/07  18:07:28.0  XRT_QT_PROG_SET_437_OG [0x1b5]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 08
2025/03/07  18:07:30.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/03/07  18:14:24.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/07  18:14:26.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/07  18:14:28.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                        XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2025/03/07  18:14:30.0  AOCS_ORe-point_Start_3_OG [0x099]
                                        AOCU_NM              5 02-76 02 03 64 01 ca
2025/03/07  18:14:48.0  XRT_FLD_ENA_411_OG [0x19b]
                                        MDP_XRT_FLD_ENA      1 07-F0 d8
2025/03/07  18:14:50.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                        MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2025/03/07  18:14:52.0  XRT_AEC_RESET_448_OG [0x1c0]
                                        MDP_XRT_AEC_RESET    1 07-F0 d0
2025/03/07  18:14:54.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2025/03/07  18:14:56.0  XRT_FLD_RESET_434_OG [0x1b2]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2025/03/07  18:17:26.0  XRT_QT_PROG_SET_444_OG [0x1bc]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 14
2025/03/07  18:17:28.0  XRT_FL_PROG_SET_403_OG [0x193]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 06
2025/03/07  18:17:30.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/03/07  19:18:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/07  19:18:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/07  19:18:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2025/03/07  19:18:06.0  XRT_PREFLR_STRT_417_OG [0x1a1]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2025/03/07  19:21:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2025/03/07  19:41:00.0  XRT_Custom_430_OG [0x1ae]
2025/03/07  19:42:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/03/07  20:54:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/07  20:54:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/07  20:54:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2025/03/07  20:54:36.0  XRT_PREFLR_STRT_417_OG [0x1a1]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2025/03/07  20:57:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2025/03/07  21:18:00.0  XRT_Custom_430_OG [0x1ae]
2025/03/07  21:19:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/03/07  22:31:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/07  22:31:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/07  22:31:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2025/03/07  22:31:36.0  XRT_PREFLR_STRT_417_OG [0x1a1]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2025/03/07  22:34:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2025/03/07  22:54:30.0  XRT_Custom_430_OG [0x1ae]
2025/03/07  22:55:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/03/08  00:09:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/08  00:09:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/08  00:09:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2025/03/08  00:09:06.0  XRT_PREFLR_STRT_417_OG [0x1a1]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2025/03/08  00:12:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2025/03/08  00:26:00.0  XRT_Custom_430_OG [0x1ae]
2025/03/08  00:27:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/03/08  01:45:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/08  01:45:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
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2025/03/08  01:45:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2025/03/08  01:45:36.0  XRT_PREFLR_STRT_417_OG [0x1a1]
                                MDP_XRT_PREFLR_STRT  1 07-F0 e8
2025/03/08  01:48:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                MDP_XRT_PREFLR_STOP  1 07-F0 e9
2025/03/08  01:52:30.0  XRT_Custom_430_OG [0x1ae]
2025/03/08  01:53:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/03/08  03:08:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/08  03:08:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/08  03:08:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2025/03/08  03:08:06.0  XRT_PREFLR_STRT_417_OG [0x1a1]
                                MDP_XRT_PREFLR_STRT  1 07-F0 e8
2025/03/08  03:11:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                MDP_XRT_PREFLR_STOP  1 07-F0 e9
2025/03/08  03:59:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/08  03:59:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/08  03:59:58.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2025/03/08  04:00:00.0  AOCS_ORe-point_Start_2_OG [0x098]
                                AOCU_NM              5 02-76 00 00 00 00 00
2025/03/08  04:00:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                MDP_XRT_FLD_ENA      1 07-F0 d8
2025/03/08  04:00:20.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2025/03/08  04:00:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                MDP_XRT_AEC_RESET    1 07-F0 d0
2025/03/08  04:00:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2025/03/08  04:00:26.0  XRT_FLD_RESET_434_OG [0x1b2]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2025/03/08  04:02:56.0  XRT_QT_PROG_SET_438_OG [0x1b6]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 05
2025/03/08  04:02:58.0  XRT_FL_PROG_SET_439_OG [0x1b7]
                                MDP_XRT_FL_PROG_SET  2 07-F0 c5 0e
2025/03/08  04:03:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/03/08  04:38:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/08  04:38:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/08  04:38:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2025/03/08  04:38:36.0  XRT_PREFLR_STRT_417_OG [0x1a1]
                                MDP_XRT_PREFLR_STRT  1 07-F0 e8
2025/03/08  04:41:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                MDP_XRT_PREFLR_STOP  1 07-F0 e9
2025/03/08  05:05:00.0  XRT_Custom_430_OG [0x1ae]
2025/03/08  05:06:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/03/08  05:48:24.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/08  05:48:26.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/08  05:48:28.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2025/03/08  05:48:48.0  XRT_FLD_DIS_409_OG [0x199]
                                MDP_XRT_FLD_DIS      1 07-F0 d9
2025/03/08  05:48:50.0  XRT_FLRCTRL_DIS_413_OG [0x19d]
                                MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2025/03/08  05:48:52.0  XRT_ARS_DIS_435_OG [0x1b3]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2025/03/08  05:51:28.0  XRT_QT_PROG_SET_437_OG [0x1b5]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 08
2025/03/08  05:51:30.0  XRT_CTRL_AUTO_408_OG [0x198]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/03/08  05:58:24.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/08  05:58:26.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/08  05:58:28.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2025/03/08  05:58:30.0  AOCS_ORe-point_Start_3_OG [0x099]
                                AOCU_NM              5 02-76 02 03 64 01 ca
2025/03/08  05:58:48.0  XRT_FLD_ENA_411_OG [0x19b]
                                MDP_XRT_FLD_ENA      1 07-F0 d8
2025/03/08  05:58:50.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2025/03/08  05:58:52.0  XRT_AEC_RESET_448_OG [0x1c0]
                                MDP_XRT_AEC_RESET    1 07-F0 d0
2025/03/08  05:58:54.0  XRT_ARS_DIS_423_OG [0x1a7]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2025/03/08  05:58:56.0  XRT_FLD_RESET_434_OG [0x1b2]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2025/03/08  06:01:26.0  XRT_QT_PROG_SET_444_OG [0x1bc]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 14
2025/03/08  06:01:28.0  XRT_FL_PROG_SET_403_OG [0x193]
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                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 06
2025/03/08  06:01:30.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/03/08  06:15:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/08  06:15:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/08  06:15:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2025/03/08  06:15:06.0  XRT_PREFLR_STRT_417_OG [0x1a1]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2025/03/08  06:18:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2025/03/08  11:13:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/03/08  11:14:00.0  AOCS_ORe-point_Start_2_OG [0x098]
                                        AOCU_NM              5 02-76 00 00 00 00 00
```