

## Period: 2025/09/06 11:43:00 - 2025/09/11 11:09:00

Period: 2025/09/06 11:43:00 - 2025/09/11 11:09:00

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| XOB #1CEE: Synoptic 8 Filter w/ Al-mesh(5/128/723), Al-poly(12/181/1443), Thin-Be(33/512/4096), Thick-Be(32768), Med-Al(512/8192/32768), Med-Be(128/5712/16384) |  |                   |  |       |      |       |                                     |     |     |                        |  |       |            |          |        |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------|--|-------|------|-------|-------------------------------------|-----|-----|------------------------|--|-------|------------|----------|--------|--|
| Term                                                                                                                                                            |  | Pointing (x, y)   |  |       |      |       | Comment                             |     |     |                        |  |       |            |          |        |  |
| 09/06 17:56:30 - 09/06 18:03:24                                                                                                                                 |  | Fixed ( 0.0, 0.0) |  |       |      |       | synoptic, shifted -6.5 min          |     |     |                        |  |       |            |          |        |  |
| 09/07 06:02:32 - 09/07 06:09:54                                                                                                                                 |  | Fixed ( 0.0, 0.0) |  |       |      |       | HOP349 + synoptic                   |     |     |                        |  |       |            |          |        |  |
| 09/07 18:09:30 - 09/07 18:16:24                                                                                                                                 |  | Fixed ( 0.0, 0.0) |  |       |      |       | synoptic, shifted 6.5 min           |     |     |                        |  |       |            |          |        |  |
| 09/08 06:25:12 - 09/08 06:32:54                                                                                                                                 |  | Fixed ( 0.0, 0.0) |  |       |      |       | HOP349 + synoptic, shifted 23.0 min |     |     |                        |  |       |            |          |        |  |
| 09/08 18:11:00 - 09/08 18:17:54                                                                                                                                 |  | Fixed ( 0.0, 0.0) |  |       |      |       | synoptic, shifted 8.0 min           |     |     |                        |  |       |            |          |        |  |
| 09/09 05:54:32 - 09/09 06:01:24                                                                                                                                 |  | Fixed ( 0.0, 0.0) |  |       |      |       | HOP349 + synoptic, shifted -8.5 min |     |     |                        |  |       |            |          |        |  |
| PROG= 02 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= 41 1-time(s) 2.0sec                                                                                                                                       |  |                   |  |       |      |       |                                     |     |     |                        |  |       |            |          |        |  |
| Open/thick-Be                                                                                                                                                   |  | Open/thick-Be     |  | close | Safe | Norm  | 32.0s                               | 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 #1CD7: AR - Standard Core - (Filter-Ratio with Al/poly and thin-Be long/short pairs) with PFB, 384x384 at 1064 1048, thin-Be, and Al/poly context, with |                 |         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|
| Term                                                                                                                                                        | Pointing (x, y) | Comment |

09/06 18:06:30 - 09/07 03:44:00 Track ( 186.1, 314.7) @ 09/06 18:03:30 AR 14207  
09/07 06:13:00 - 09/07 09:59:54 Track ( 275.4, 318.3) @ 09/07 06:10:00 AR obs.  
09/07 18:19:30 - 09/08 03:59:54 Track ( 361.0, 323.0) @ 09/07 18:16:30 AR obs.  
09/08 06:36:00 - 09/08 10:45:00 Track ( 442.8, 329.1) @ 09/08 06:33:00 AR obs.  
09/08 18:21:00 - 09/09 03:59:54 Track ( 515.5, 335.9) @ 09/08 18:18:00 AR obs.  
09/09 06:04:30 - 09/09 09:37:30 Track ( 581.6, 343.6) @ 09/09 06:01:30 AR obs.

|                       |                |                |       |          |       |       |     |     |                      |       |            |          |        |
|-----------------------|----------------|----------------|-------|----------|-------|-------|-----|-----|----------------------|-------|------------|----------|--------|
| PROG= 16 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               |                | 5-time(s)      |       | 2.0sec   |       |       |     |     |                      |       |            |          |        |
| Seqn= 47              |                | 1-time(s)      |       | 2.0sec   |       |       |     |     |                      |       |            |          |        |
|                       | Al-poly/Open   | thin-Be/Open   | close | Safe     | Norm  | 250ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 2          | 0        | 2.0sec |
|                       | Al-poly/Open   | thin-Be/Open   | close | Safe     | Norm  | 250ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 2.0sec |
|                       | thin-Be/Open   | med-Be/Open    | close | Safe     | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 2          | 0        | 2.0sec |
|                       | thin-Be/Open   | med-Be/Open    | close | Safe     | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 2.0sec |
| Seqn= 96              |                | 4-time(s)      |       | 180.0sec |       |       |     |     |                      |       |            |          |        |
|                       | Al-poly/Open   | thin-Be/Open   | close | Safe     | Norm  | 250ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 0        | 2.0sec |
|                       | thin-Be/Open   | med-Be/Open    | close | Safe     | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 0        | 2.0sec |
|                       | Al-poly/Open   | thin-Be/Open   | close | Safe     | Norm  | 250ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 1        | 2.0sec |
|                       | thin-Be/Open   | med-Be/Open    | close | Safe     | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 1        | 2.0sec |
|                       | Al-poly/Open   | thin-Be/Open   | close | Safe     | Norm  | 250ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 2        | 2.0sec |
|                       | thin-Be/Open   | med-Be/Open    | close | Safe     | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 2        | 2.0sec |
|                       | Default Filter | Thicker Filter | VLS   | mode     | image | Exp.  | CCD | Bin | ROI: size (center)   | Comp. | AEC Buffer | Interval |        |

**XOB #1D28: 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                             |
|---------------------------------|-------------------|-------------------------------------|
| 09/07 04:05:30 - 09/07 06:02:00 | Fixed ( 0.0, 0.0) | HOP349 + synoptic                   |
| 09/08 04:03:00 - 09/08 06:24:40 | Fixed ( 0.0, 0.0) | HOP349 + synoptic, shifted 23.0 min |
| 09/09 04:04:32 - 09/09 05:54:00 | Fixed ( 0.0, 0.0) | HOP349 + synoptic, shifted -8.5 min |

|          |                |                  |       |          |       |       |     |     |                        |  |       |            |          |              |  |  |  |  |  |  |  |  |  |
|----------|----------------|------------------|-------|----------|-------|-------|-----|-----|------------------------|--|-------|------------|----------|--------------|--|--|--|--|--|--|--|--|--|
| PROG= 18 |                |                  |       |          |       |       |     |     |                        |  |       |            |          | 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  |                | 10-time(s)       |       | 720.0sec |       |       |     |     |                        |  |       |            |          |              |  |  |  |  |  |  |  |  |  |
| 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 #1CE6: HOP81/206 1-filter - Al/poly 6s, 120s cadence, G-band - 384x384 1ms**

| Term                            | Pointing (x, y)       | Comment            |
|---------------------------------|-----------------------|--------------------|
| 09/07 10:03:00 - 09/07 18:06:24 | Fixed ( -21.0, 887.0) | HOP81 (North Pole) |

|          |  |                |                |          |      |       |       |     |     |                      |  |       |            |              |        |  |  |  |  |  |  |  |  |
|----------|--|----------------|----------------|----------|------|-------|-------|-----|-----|----------------------|--|-------|------------|--------------|--------|--|--|--|--|--|--|--|--|
| PROG= 13 |  |                |                |          |      |       |       |     |     |                      |  |       |            | 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 #1CDF: HOP81/206 1-filter - Al/poly 6s, 60s cadence, G-band - 384x384 1ms**

| Term                            | Pointing (x, y)       |                |  |         |      |       |       |     |     |                      | Comment              |       |            |          |  |
|---------------------------------|-----------------------|----------------|--|---------|------|-------|-------|-----|-----|----------------------|----------------------|-------|------------|----------|--|
| 09/08 11:03:00 - 09/08 17:44:30 | Fixed ( -21.0, 857.0) |                |  |         |      |       |       |     |     |                      | HOP 206 (North Pole) |       |            |          |  |
| PROG= 07 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)      |  | 30.0sec |      |       |       |     |     |                      |                      |       |            |          |  |
| └ 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 |  |

\* \* \* \* \*

## Flare mode

\* \* \* \* \*

### XOB #1D35: Flare - multifilter 26 sec cadence (Be/thin, Be/med, Be/thick), AEC 3, 384x384 + context (med-Al,thick-Be -384x384 + Al-poly 512x512 2x2) + GL

| Term                            | Pointing (x, y)                        |  |  |  |  |  |  |  |  |  | Comment                                          |  |  |  |
|---------------------------------|----------------------------------------|--|--|--|--|--|--|--|--|--|--------------------------------------------------|--|--|--|
| 09/06 11:56:00 - 09/06 17:53:24 | Fixed ( 870.0, -310.0)                 |  |  |  |  |  |  |  |  |  | # OP start + 10min + AR 14197(EIS core programs) |  |  |  |
| 09/06 18:06:30 - 09/07 03:44:00 | Track ( 186.1, 314.7) @ 09/06 18:03:30 |  |  |  |  |  |  |  |  |  | AR 14207                                         |  |  |  |
| 09/07 04:05:30 - 09/07 06:02:00 | Fixed ( 0.0, 0.0)                      |  |  |  |  |  |  |  |  |  | HOP349 + synoptic                                |  |  |  |
| 09/07 06:13:00 - 09/07 09:59:54 | Track ( 275.4, 318.3) @ 09/07 06:10:00 |  |  |  |  |  |  |  |  |  | AR obs.                                          |  |  |  |
| 09/07 10:03:00 - 09/07 18:06:24 | Fixed ( -21.0, 887.0)                  |  |  |  |  |  |  |  |  |  | HOP81 (North Pole)                               |  |  |  |
| 09/07 18:19:30 - 09/08 03:59:54 | Track ( 361.0, 323.0) @ 09/07 18:16:30 |  |  |  |  |  |  |  |  |  | AR obs.                                          |  |  |  |
| 09/08 04:03:00 - 09/08 06:24:40 | Fixed ( 0.0, 0.0)                      |  |  |  |  |  |  |  |  |  | HOP349 + synoptic, shifted 23.0 min              |  |  |  |
| 09/08 06:36:00 - 09/08 10:45:00 | Track ( 442.8, 329.1) @ 09/08 06:33:00 |  |  |  |  |  |  |  |  |  | AR obs.                                          |  |  |  |
| 09/08 11:03:00 - 09/08 17:44:30 | Fixed ( -21.0, 857.0)                  |  |  |  |  |  |  |  |  |  | HOP 206 (North Pole)                             |  |  |  |
| 09/08 18:21:00 - 09/09 03:59:54 | Track ( 515.5, 335.9) @ 09/08 18:18:00 |  |  |  |  |  |  |  |  |  | AR obs.                                          |  |  |  |
| 09/09 04:04:32 - 09/09 05:54:00 | Fixed ( 0.0, 0.0)                      |  |  |  |  |  |  |  |  |  | HOP349 + synoptic, shifted -8.5 min              |  |  |  |
| 09/09 06:04:30 - 09/09 09:37:30 | Track ( 581.6, 343.6) @ 09/09 06:01:30 |  |  |  |  |  |  |  |  |  | AR obs.                                          |  |  |  |

#### PROG= 14 30-time(s)

|                 |  |                  |     |         |       |      |       |     |                    |                      |       |            |          |        |
|-----------------|--|------------------|-----|---------|-------|------|-------|-----|--------------------|----------------------|-------|------------|----------|--------|
| Subr= 1         |  | 1-time(s)        |     | 2.0sec  |       |      |       |     |                    |                      |       |            |          |        |
| └ Seqn= 68      |  | 1-time(s)        |     | 2.0sec  |       |      |       |     |                    |                      |       |            |          |        |
| └ Open/G-band   |  | Open/G-band      |     | open    | Safe  | Norm | 1ms   | Obs | 1x1                | 384x384 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| Subr= 2         |  | 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= 3         |  | 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 |        |

\* \* \* \* \*

## Active Region Search

\* \* \* \* \*

NOT USED

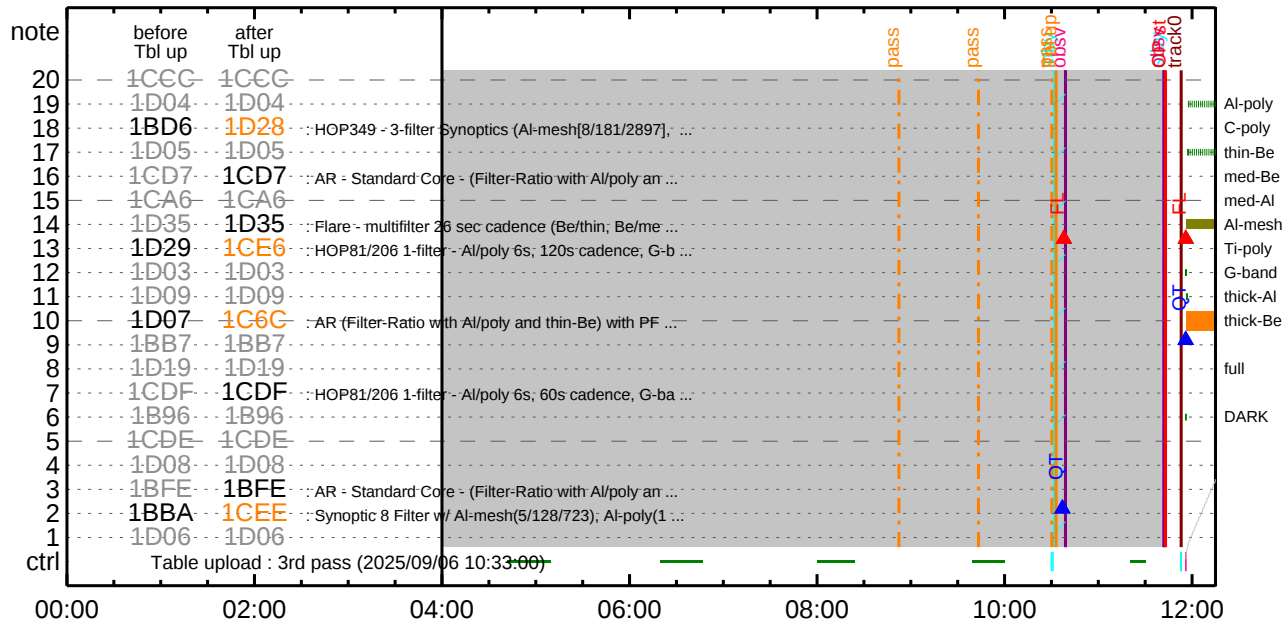
\* \* \* \* \*

## Flare Detection

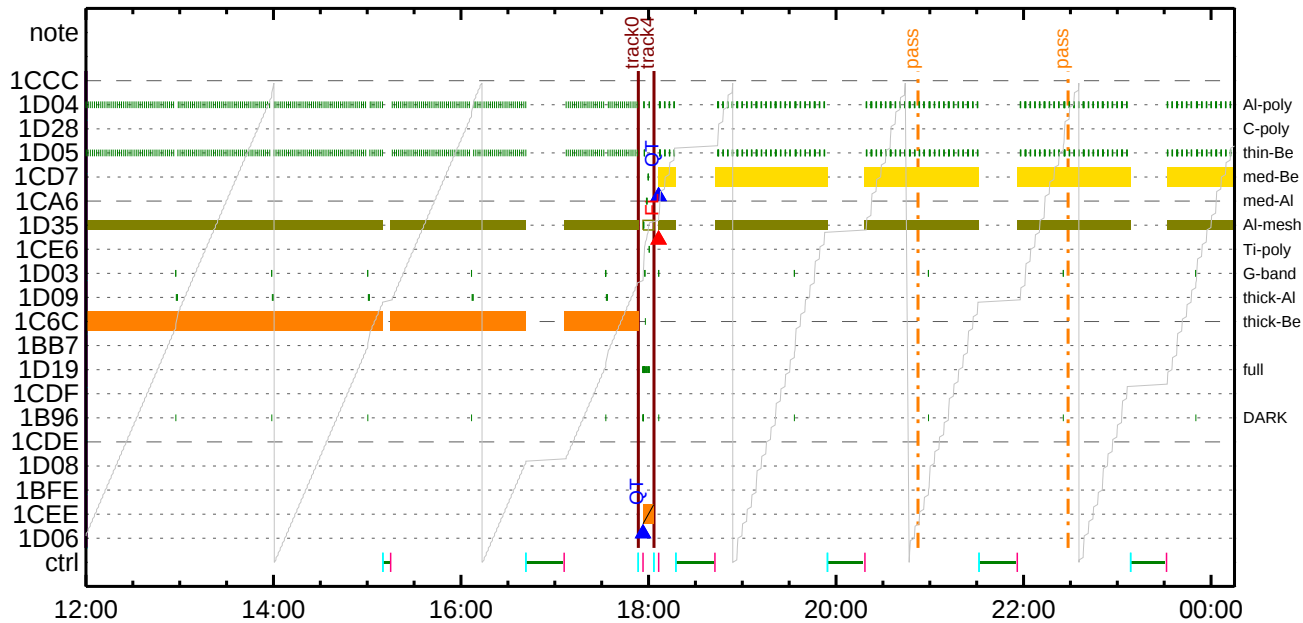
\* \* \* \* \*

| FLD Patrol                      |                                        |                |     |       |       |      |     |     |                    |  |          |            |          |  |
|---------------------------------|----------------------------------------|----------------|-----|-------|-------|------|-----|-----|--------------------|--|----------|------------|----------|--|
| Term                            | Pointing (x, y)                        |                |     |       |       |      |     |     |                    |  | Comment  |            |          |  |
| 09/06 10:34:00 - 09/06 17:53:48 | cannot be identified                   |                |     |       |       |      |     |     |                    |  |          |            |          |  |
| 09/06 18:03:48 - 09/07 06:02:24 | Track ( 186.1, 314.7) @ 09/06 18:03:30 |                |     |       |       |      |     |     |                    |  | AR 14207 |            |          |  |
| 09/07 06:10:18 - 09/07 18:06:48 | Track ( 275.4, 318.3) @ 09/07 06:10:00 |                |     |       |       |      |     |     |                    |  | AR obs.  |            |          |  |
| 09/07 18:16:48 - 09/08 06:25:04 | Track ( 361.0, 323.0) @ 09/07 18:16:30 |                |     |       |       |      |     |     |                    |  | AR obs.  |            |          |  |
| 09/08 06:33:18 - 09/08 18:08:18 | Track ( 442.8, 329.1) @ 09/08 06:33:00 |                |     |       |       |      |     |     |                    |  | AR obs.  |            |          |  |
| 09/08 18:18:18 - 09/09 05:54:24 | Track ( 515.5, 335.9) @ 09/08 18:18:00 |                |     |       |       |      |     |     |                    |  | AR obs.  |            |          |  |
| 09/09 06:01:48 - 09/11 11:09:00 | Track ( 581.6, 343.6) @ 09/09 06:01:30 |                |     |       |       |      |     |     |                    |  | AR obs.  |            |          |  |
| 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 |  |

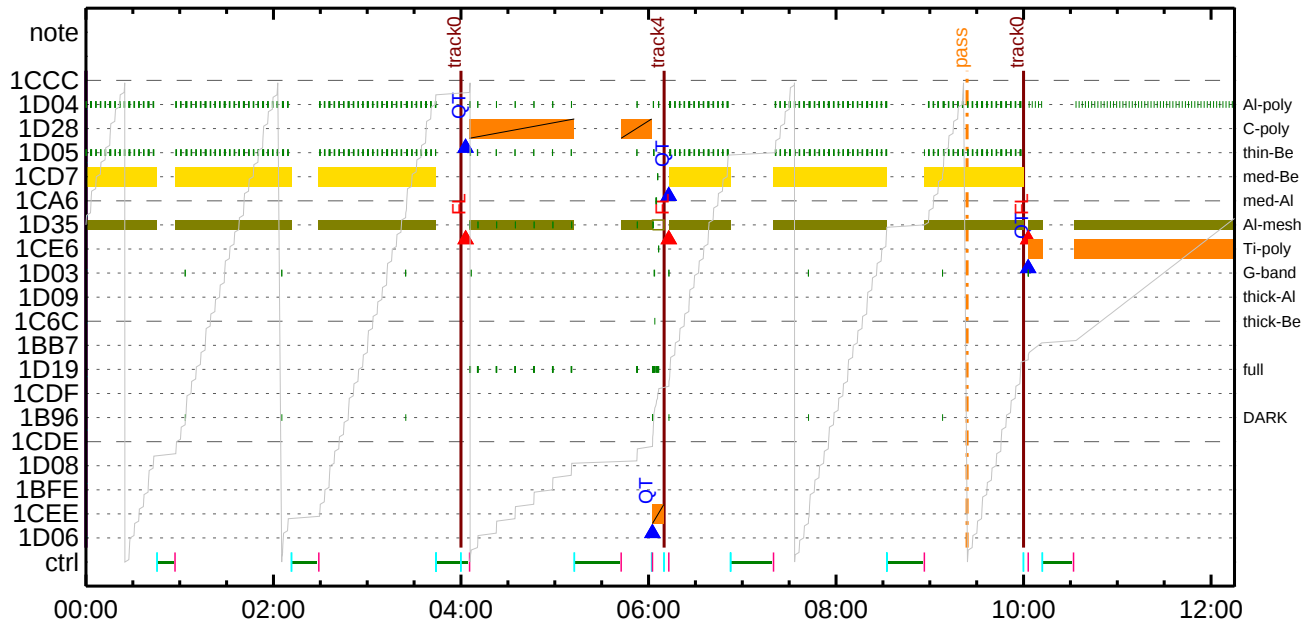
# CMDI #0825 2025/09/06



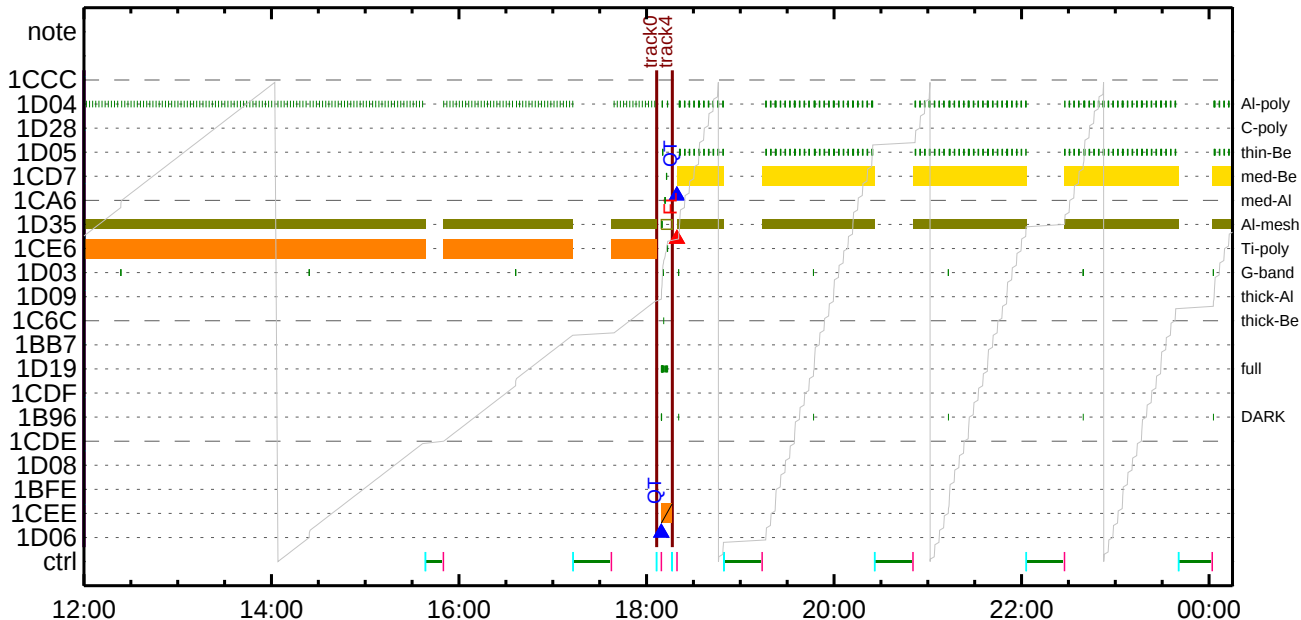
# CMDI #0825 2025/09/06



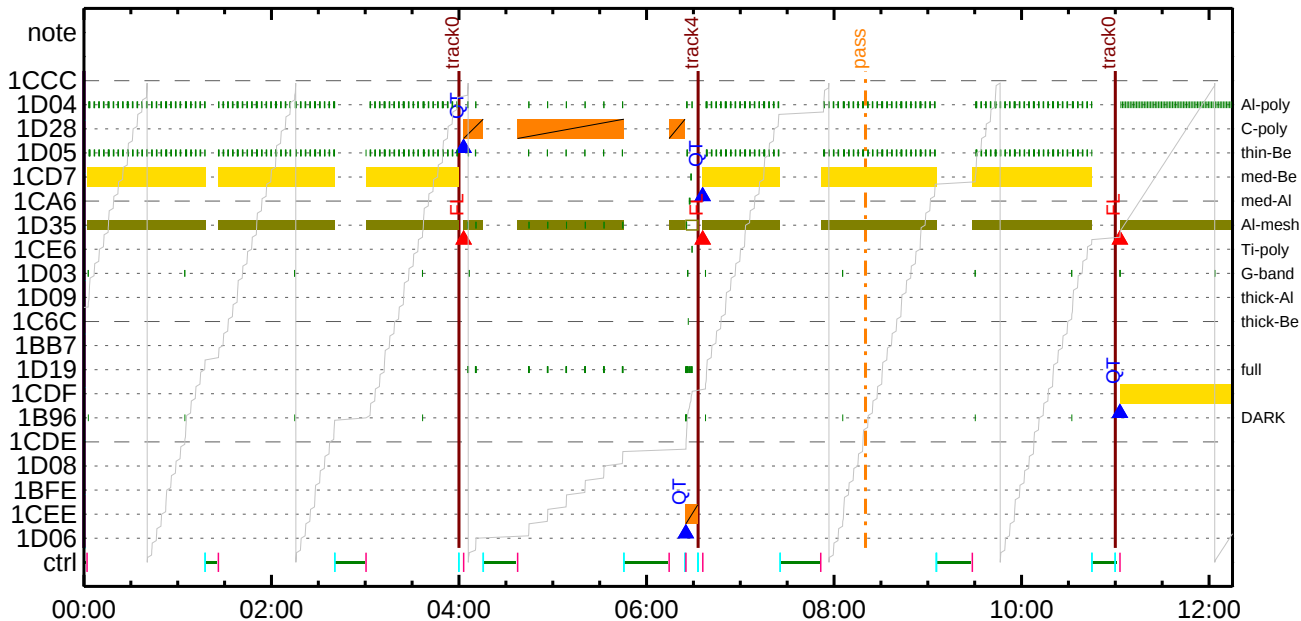
# CMDI #0825 2025/09/07



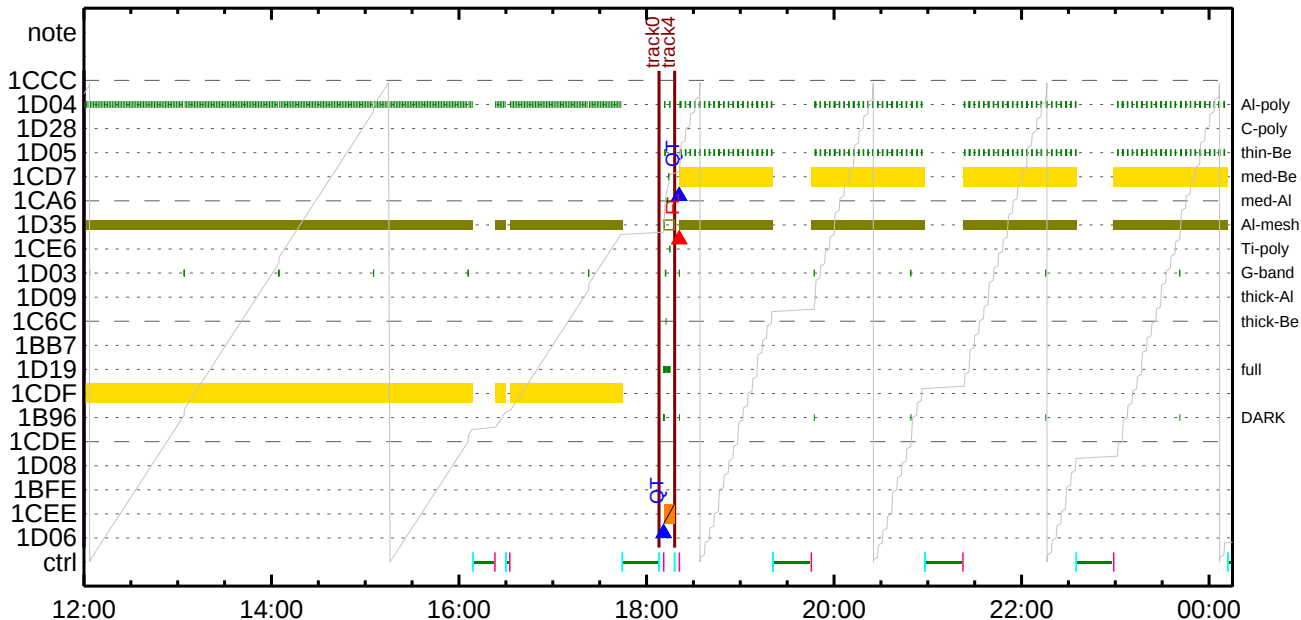
# CMDI #0825 2025/09/07



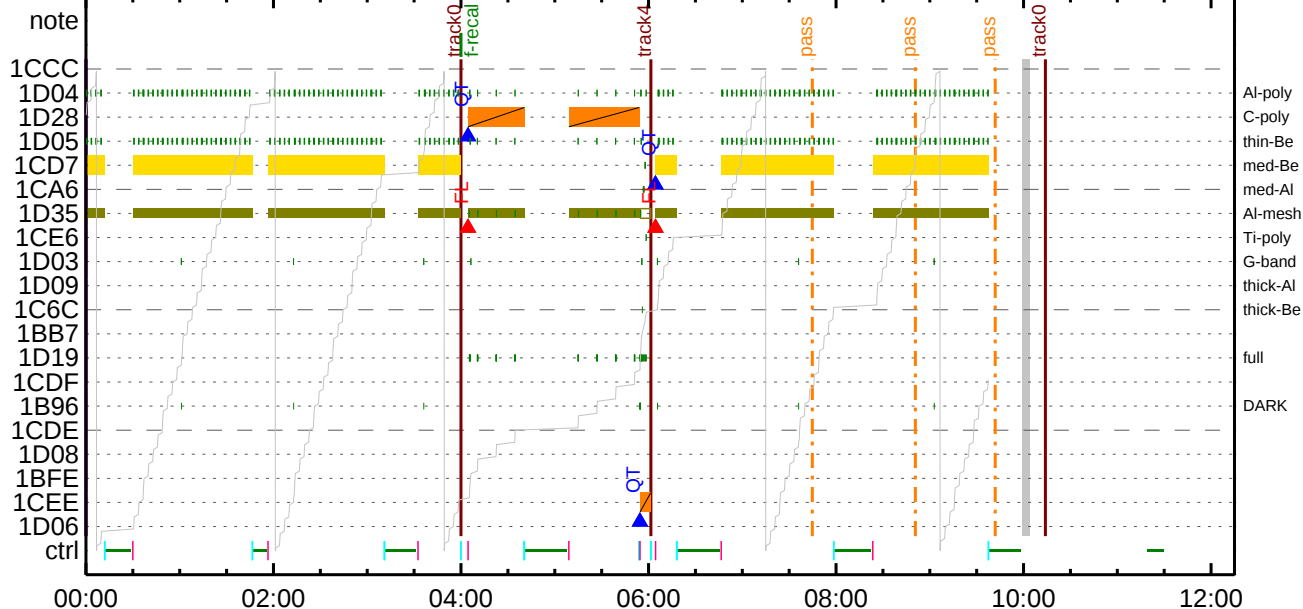
# CMDI #0825 2025/09/08



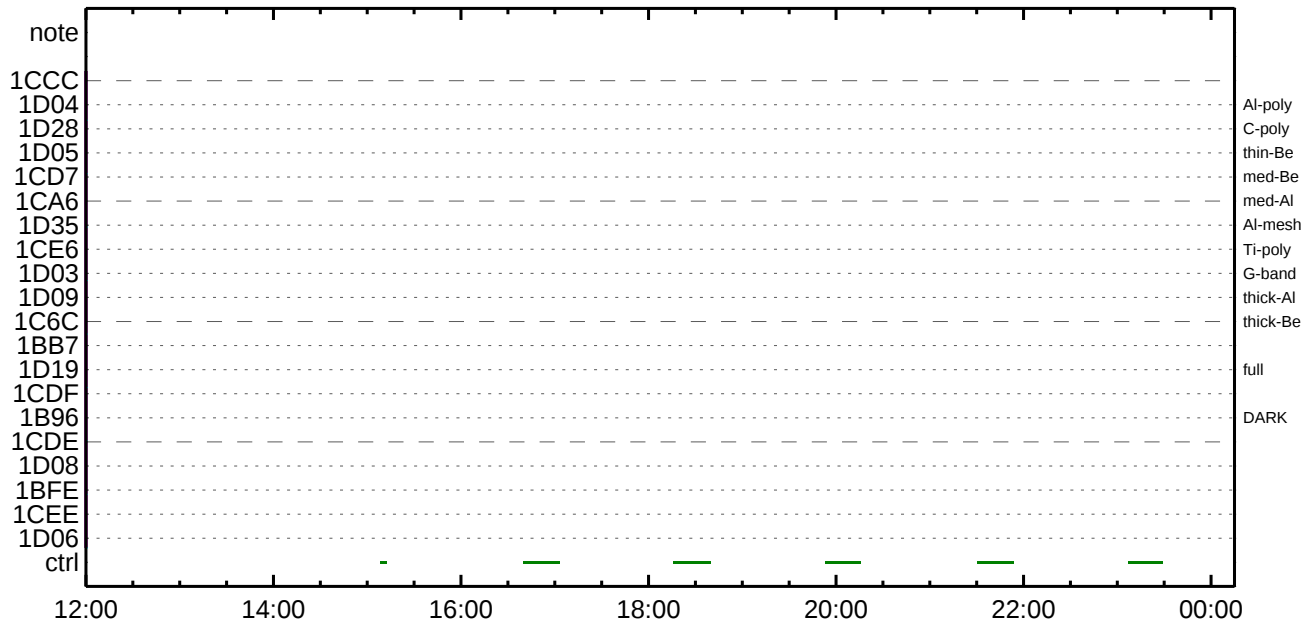
# CMDI #0825 2025/09/08



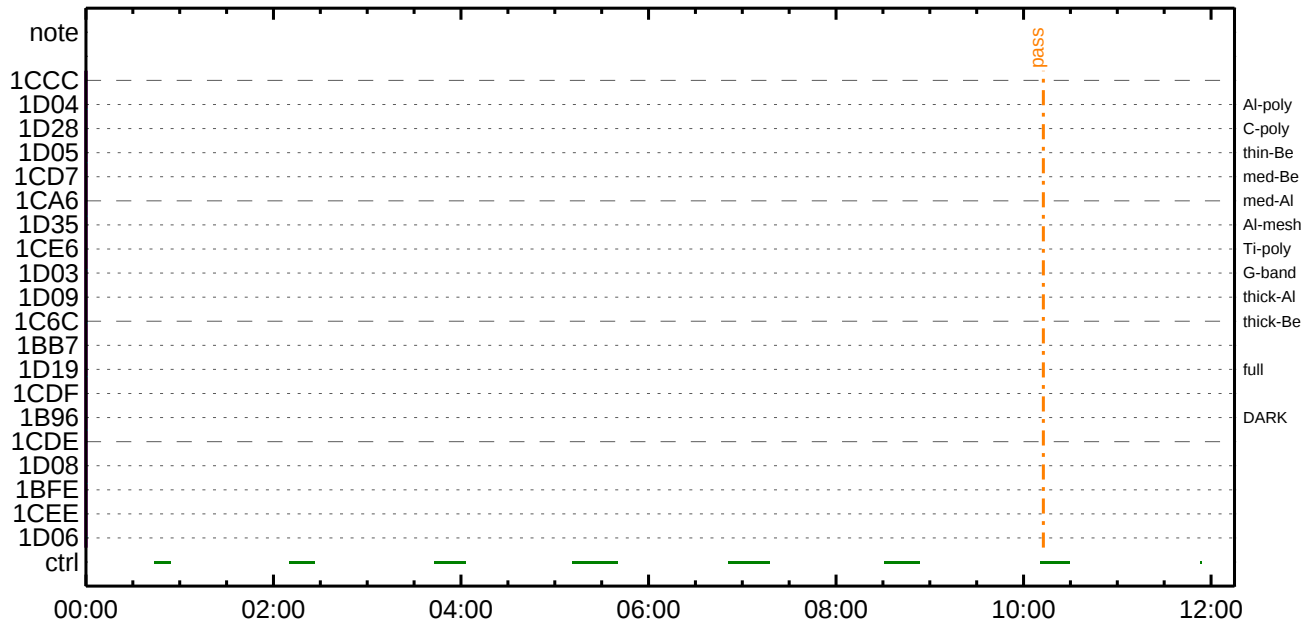
# CMDI #0825 2025/09/09



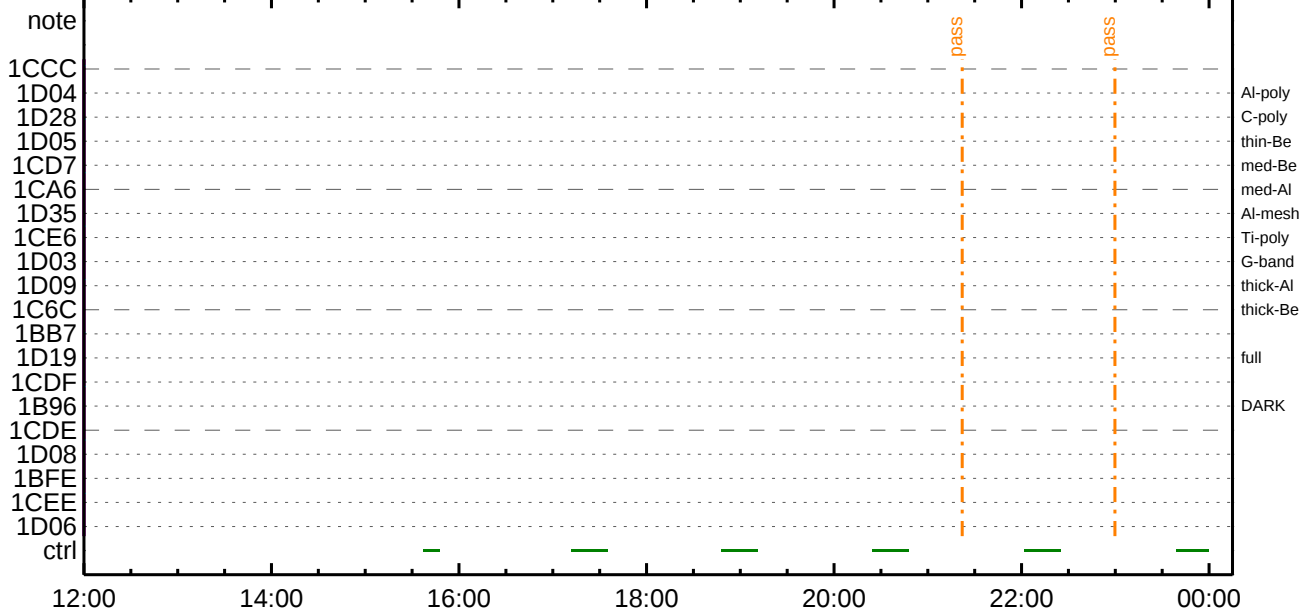
# CMDI #0825 2025/09/09



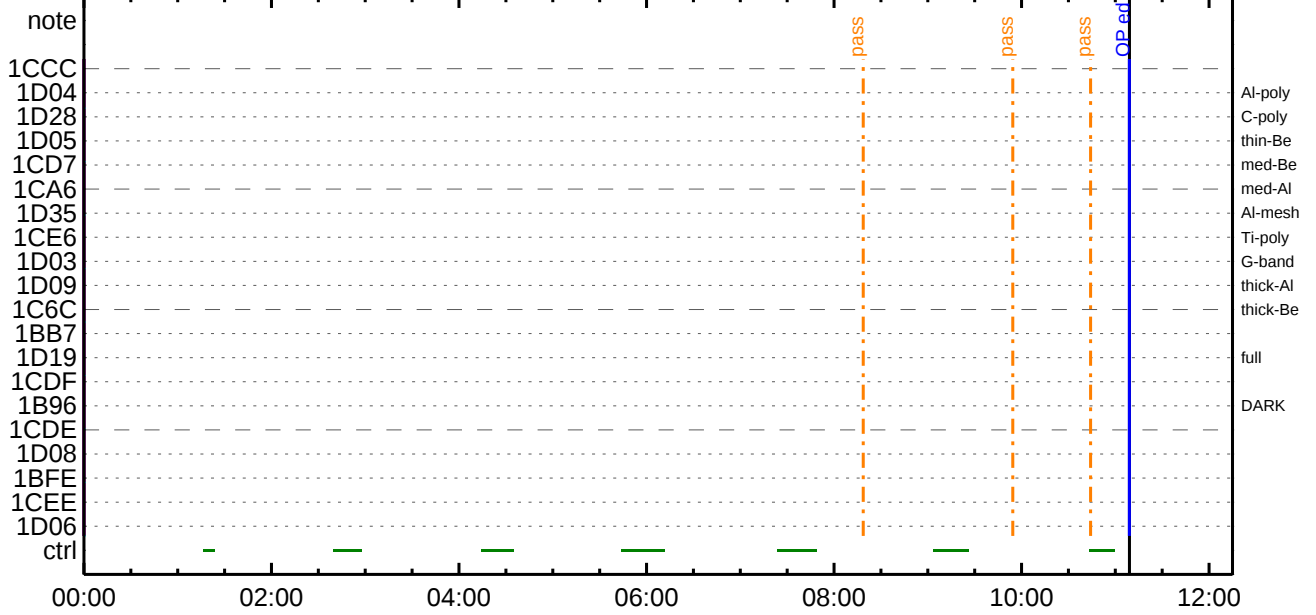
# CMDI #0825 2025/09/10



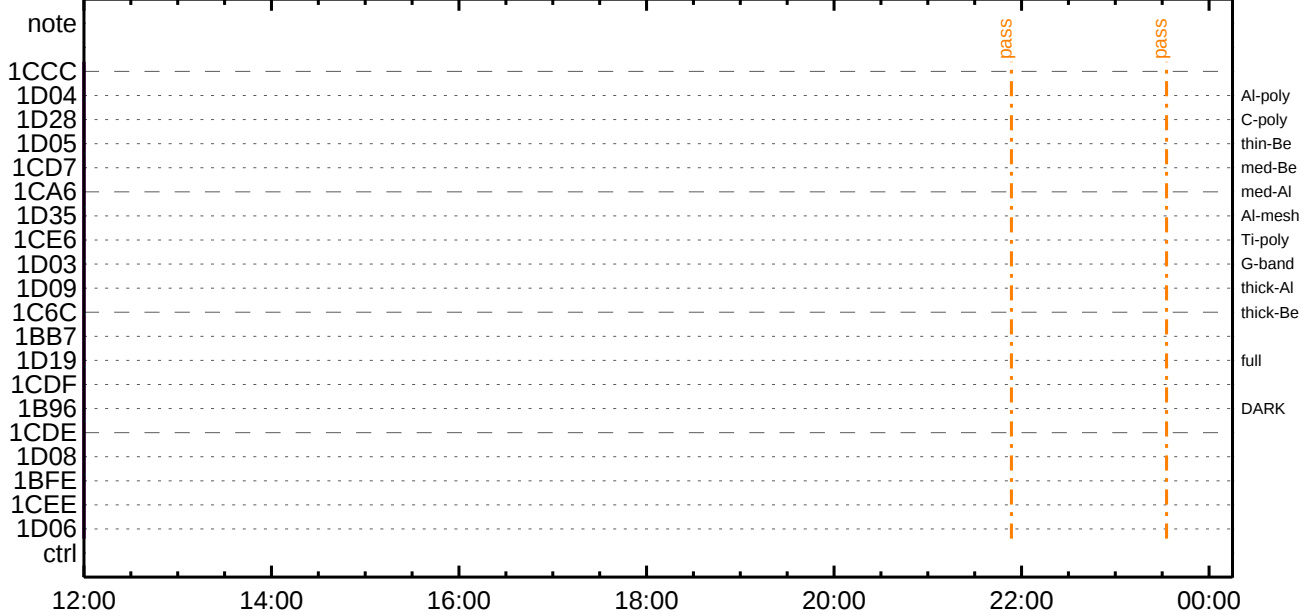
# CMDI #0825 2025/09/10



# CMDI #0825 2025/09/11



# CMDI #0825 2025/09/11



```
main-497 2025-09-06 12:00:36 289 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSŲÁŲ$ŲÃŲ~¼Ä»Ü;ä
0005 C.
0006 C. ŲÄŲß;¼Ų³ŲÐŲóŲÉÄ÷ç®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCS : Reload orbital element (send every contact) *****
0010 C. Äí;ËñçðÀñ•µ°E»Í×ÅÇñÎŲÇŲÃŲ×Ųí;¼ŲÉ;ËËè²µ•íîÊ;ËÈ¼°ÇÖñ•ñç¼¹¹Çñİ;çÀ®,ùñ¹ñèñÞñÇÄ÷ç®ñ•ñÈñññ³ñÈ;£
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. *****
0015 C. XÄ÷ç®µ;ON
0016 C. *****
0017 C. °EÄ,Í×ÈÝñäLOSñÞñÇñÎ»Þ'Öòò¹íî,ñ•;çÉÔÍ×ñÈXÄÓONñİ¹ÔñÈñíñÈñññ³ñÈ;£
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. çç[HK1_XPA_ON/OFF] EQ ON
0025 C. çç[HK1_XPA_PWR_HI/LO] EQ HI
0026 C. çç[HK1_XMOD_ON/OFF] EQ ON
0027 C. çç[HK1_XMOD_QPSK/PM] EQ QPSK
0028 C.
0029 . C. XŲÐŲóŲÉŲíŲÄŲ~¾ÔÄÖñ¬°ÄÄèñ•ñç,ç°Ê²¼ñî°EÄ,¼è½Çñò¼Ä¹Ôñ¹ñè;£
0030 C.
0031 . C. *****
0032 C. DR PT1 Äî¼í°EÄ,
0033 C. *****
0034 C. ° RESTART;ÊPT1;Ëñ•ñç¼ñ¼¹¹Çñİ;ç°Ê²¼ñî¼Ä¹Ôñññ°;çDCBC-150ñØçÊñà;£
0035 C.
0036 . C. ;ãPT1°EÄ,³«»İ;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. çç[HK1_REP_PT_1/2] EQ PT1 (¼Ä¹Ô,;¼Ü)
0043 C. çç[HK1_REP_STA/STP] EQ START (¼Ä¹Ô,;¼Ü)
0044 C. çç[HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ô,;¼Ü)
0045 C.
0046 . C. ;ãŲçŲóŲEŲEŲÄÚÂØ;ÊÄ•Ä°²öÈò;Ë,ãñî°EÄ,°E³«;ä
0047 +. DC 06-B3 DR_REP_START
0048 + DC 01-32 DHU_X_VC4_ON
0049 C. çç[HK1_REP_PT_1/2] EQ PT1 (¼Ä¹Ô,;¼Ü)
0050 C. çç[HK1_REP_STA/STP] EQ START (¼Ä¹Ô,;¼Ü)
0051 C. çç[HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ô,;¼Ü)
0052 C.
0053 C.
0054 . C. PT1°EÄ,ñ¬¼«E°Ää»ßñ•ñç,ä;ç°Ê²¼ñò¼Ä¹Ôñ¹ñè;£
0055 C. ŲçŲóŲEŲEŲÄÚÂØñäÄ•Ä°²öÈòñ¬¼áñ¼¼¹¹Çñİ'°î»ñ¹ñèñÞñÇÄÔñÄ;£
0056 C.
0057 . C. *****
0058 C. DR PT2 Äî¼í°EÄ,
0059 C. *****
0060 C. ° RESTART;ÊPT2;Ëñ•ñç¼ñ¼¹¹Çñİ;ç°Ê²¼ñî¼Ä¹Ôñññ°;çDCBC-151ñØçÊñà;£
0061 C.
0062 . C. ;ãPT2°EÄ,³«»İ;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. çç[HK1_REP_PT_1/2] EQ PT2 (¼Ä¹Ô,;¼Ü)
0069 C. çç[HK1_REP_STA/STP] EQ START (¼Ä¹Ô,;¼Ü)
0070 C. çç[HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ô,;¼Ü)
0071 C.
0072 . C. ;ãŲçŲóŲEŲEŲÄÚÂØ;ÊÄ•Ä°²öÈò;Ë,ãñî°EÄ,°E³«;ä
0073 +. DC 06-B3 DR_REP_START
0074 + DC 01-32 DHU_X_VC4_ON
0075 C. çç[HK1_REP_PT_1/2] EQ PT2 (¼Ä¹Ô,;¼Ü)
0076 C. çç[HK1_REP_STA/STP] EQ START (¼Ä¹Ô,;¼Ü)
0077 C. çç[HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ô,;¼Ü)
0078 C.
0079 . C. *****
0080 C. DR°EÄ,Ää»ß;çXÄ÷ç®µ;OFF
0081 C. *****
0082 C.
0083 . C. ;ãDR°EÄ,Ää»ß;ä
0084 +. DC 06-B4 DR_REP_STOP
0085 + DC 01-29 DHU_S/X_VC4_OFF
0086 C. çç[HK1_REP_STA/STP] EQ STOP
0087 C. çç[HK1_S_VC4_ON/OFF] EQ OFF
0088 C. çç[HK1_X_VC4_ON/OFF] EQ OFF
0089 C.
0090 . C. ;ãXÄ÷ç®µ;OFF;ä
0091 +. DC 03-85 TCIA_XMOD_OFF
0092 M. WAIT_SEC 1
0093 + DC 03-B5 TCIA_XPA_OFF
0094 C. çç[HK1_XMOD_ON/OFF] EQ OFF
0095 C. çç[HK1 XPA ON/OFF] EO OFF
```

```

0096 . C.
0097 . C.
0098 . C. *****
0099 . C. OP/OG¥1;¼¥É;|¥À¥ó¥×
0100 . C. *****
0101 . C.
0102 . C. ;ãOP/OG¥1;¼¥É;ä
0103 . S. OP      op-497:OP
0104 . ()
0105 . S. OG      og-497:OG
0106 . ()
0107 . C.
0108 . C. ;ãNMOG&OPîî°è¥À¥ó¥×;ä
0109 . C. NMOG(0x200000-0x207FFF;$ 32 kbyte)
0110 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0111 BC      (20 00 7f 01 02)
0112 . C.                ¢¢[HK1_DMP_TOP_ADRS_1]          EQ      40
0113 . C.                ¢¢[HK1_DMP_TOP_ADRS_0]          EQ      0
0114 . C.                ¢¢[HK1_DMP_BLOCK_NUM]           EQ     127
0115 . C.                ¢¢[HK1_DMP_REPEAT_NUM]          EQ      0
0116 . C.                ¢¢[HK1_DMA_DMP_PIM]             EQ     DHU
0117 +. DC 01-22 DHU_MODE_CHNG
0118 BC      (07 0b f8)
0119 . C.                ¢¢[HK1_PKT_FORM_NO]              EQ      7
0120 . C.                ¢¢[HK1_PKT_GEN_TIME]             EQ    0.25 s
0121 . C.                ¢¢[HK1_S_TLM_BIT_RATE]          EQ    32k
0122 . C.                ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
0123 . C.                ¢¢[HK1_DMP_CHK_FLG]             EQ    EXEC
0124 . C. ¥À¥ó¥×½ªî»¤ð³îÇ$
0125 . C.                ¢¢[HK1_DMP_CHK_FLG]              EQ    NON
0126 . C. RAM ID=NMOG¤î¾È¹Ç•ë²ïOK¤ð³îÇ$
0127 . C.
0128 . C. NMOG(0x208000-0x20FFFF;$ 32 kbyte)
0129 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0130 BC      (20 80 7f 01 02)
0131 . C.                ¢¢[HK1_DMP_TOP_ADRS_1]          EQ     41
0132 . C.                ¢¢[HK1_DMP_TOP_ADRS_0]          EQ      0
0133 . C.                ¢¢[HK1_DMP_BLOCK_NUM]           EQ    127
0134 . C.                ¢¢[HK1_DMP_REPEAT_NUM]          EQ      0
0135 . C.                ¢¢[HK1_DMA_DMP_PIM]             EQ     DHU
0136 +. DC 01-22 DHU_MODE_CHNG
0137 BC      (07 0b f8)
0138 . C.                ¢¢[HK1_PKT_FORM_NO]              EQ      7
0139 . C.                ¢¢[HK1_PKT_GEN_TIME]             EQ    0.25 s
0140 . C.                ¢¢[HK1_S_TLM_BIT_RATE]          EQ    32k
0141 . C.                ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
0142 . C.                ¢¢[HK1_DMP_CHK_FLG]             EQ    EXEC
0143 . C. ¥À¥ó¥×½ªî»¤ð³îÇ$
0144 . C.                ¢¢[HK1_DMP_CHK_FLG]              EQ    NON
0145 . C. RAM ID=NMOG¤î¾È¹Ç•ë²ïOK¤ð³îÇ$
0146 . C.
0147 . C. NMOG(0x210000-0x2100FF;$ 256byte)+OP(0x210100-0x2141FF: 16.25kbyte)
0148 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0149 BC      (21 00 41 01 02)
0150 . C.                ¢¢[HK1_DMP_TOP_ADRS_1]          EQ     42
0151 . C.                ¢¢[HK1_DMP_TOP_ADRS_0]          EQ      0
0152 . C.                ¢¢[HK1_DMP_BLOCK_NUM]           EQ     65
0153 . C.                ¢¢[HK1_DMP_REPEAT_NUM]          EQ      0
0154 . C.                ¢¢[HK1_DMA_DMP_PIM]             EQ     DHU
0155 +. DC 01-22 DHU_MODE_CHNG
0156 BC      (07 0b f8)
0157 . C.                ¢¢[HK1_PKT_FORM_NO]              EQ      7
0158 . C.                ¢¢[HK1_PKT_GEN_TIME]             EQ    0.25 s
0159 . C.                ¢¢[HK1_S_TLM_BIT_RATE]          EQ    32k
0160 . C.                ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
0161 . C.                ¢¢[HK1_DMP_CHK_FLG]             EQ    EXEC
0162 . C. ¥À¥ó¥×½ªî»¤ð³îÇ$
0163 . C.                ¢¢[HK1_DMP_CHK_FLG]              EQ    NON
0164 . C. RAM ID=NMOG,RAM ID=OP¤î¾È¹Ç•ë²ïOK¤ð³îÇ$
0165 . C.
0166 . C. ***** °Ê²¼¤î¾Ä´¶Á¤¤ËÉ¬¤°Á÷¿@ (¾âµ-¥À¥ó¥×¼ê½Ç¤ðÃÓÃæ¤Ç½ª¤¤¬¤ë¾ì¹Ç¤Ç¤â) *****
0167 . C. DHU¥â;¼¥É;Ê¼ý½,¥ì;¼¥É;Ê¤ðòÎá¤¹
0168 +. DC 01-22 DHU_MODE_CHNG
0169 BC      (02 0a f8)
0170 . C.                ¢¢[HK1_PKT_FORM_NO]              EQ      2
0171 . C.                ¢¢[HK1_PKT_GEN_TIME]             EQ    0.5S
0172 . C.                ¢¢[HK1_S_TLM_BIT_RATE]          EQ   32K
0173 . C.                ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
0174 . C.
0175 . C. *****
0176 . C. TI-CMD SET (OPOG STOP/COPY/START)
0177 . C. *****
0178 . C.
0179 . C. NOTICE ;$ OPOG UPLOAD¤¬Á÷¿ONG¤î¾ì¹Ç;¢°Ê²¼¤î¾TI-CMDÁ÷¿@¤î¾Ä¹Ô¤¤¤¤Ë¤¤¤¤¤¤;£
0180 . C.                ¢¢¤¤¿;¢SET¤EDUMP¤îÆ±°ì½Ñ¥¹¤Ç¹Ô¤¤¤¤¤¤;£
0181 . C.
0182 . C. TI¥³¥P¥ó¥É¤ðÃBî¿(UT)
0183 +. TI 2025-09-06 11:38:00.0
0184 DC 01-B3 DHU_OP_STOP
0185 . C.                ¢¢[HK1_TI_CMD_NUM]                 EQ    1COUNTUP
0186 . C.
0187 +. TI 2025-09-06 11:38:01.0
0188 DC 01-B4 DHU_OP_COPY
0189 . C.                ¢¢[HK1_TI_CMD_NUM]                 EQ    1COUNTUP
0190 . C.
0191 +. TI 2025-09-06 11:38:01.0
0192 DC 01-B5 DHU_OPOG_COPY
0193 . C.                ¢¢[HK1_TI_CMD_NUM]                 EQ    1COUNTUP

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0194 C.
0195 +. TI 2025-09-06 11:42:59.5
0196 DC 01-B2 DHU_OP_START
0197 C.          ¢¢[HK1_TI_CMD_NUM]          EQ      1COUNTUP
0198 C.
0199 C. °Ê¼¼¼İÄê¼İİÑ¼İ¥Á¥$¥Ä¥~¹àİÜ
0200 C.          ¢¢[HK1_TI_CMD_ENA/DIS]      EQ      ENA
0201 C.          ¢¢[HK1_TI_CMD_NUM]          EQ      4
0202 C.          ¢¢[HK1_NEXT_EXEC_PIM]        EQ      DHU
0203 C.          ¢¢[HK1_NEXT_EXEC_DC]         EQ      0xB3
0204 C.
0205 C. *****
0206 C. TIİİ°è¥Ä¥Ö¥×
0207 C. *****
0208 C.
0209 C. TI_TBL(0x03AB00-0x03AEFF;$ 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. ¥Ä¥Ö¥×½ªİ»ò³İÇ$
0226 C.          ¢¢[HK1_DMP_CHK_FLG]          EQ      NON
0227 C.
0228 C. RAM ID=TI_TBL¼İ¾È¹Ç•ë²İOK¼ò³İÇ$
0229 C.
0230 C. DHU¥â;¼¥É;Ê¼ý½,¥İ;¼¥È;Ë¼òİá¼¹
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 2025-09-06 11:42:16.0
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 2025-09-06 11:42:30.0
0256 DC 07-FC EIS_MODE_MANU
0257 BC      (21 02)
0258 +. TI 2025-09-06 11:42:40.0
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 2025-09-06 11:42:00.0
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 ´ûÃİ¼İ»ö¼ý¼ÈÄ¼¹¼ÈDCBC•×²è *****
0276 C. (¼å°İ¥Ö¥Ä¥È¥Ð¥È¥Ä¥Ç¥È¼È¼¼Ä»Ü¼¹¼è)
0277 C. S. DC-BC dcbc-402:DCBC
0278 C. (MDP_known_event)
0279 C.
0280 C.
0281 C. ***** ¥Ð¥¹•İ Daily±çİÑ¼È´Ø¼¹¼ÈDCBC•×²è *****
0282 C. S. DC-BC dcbc-153:DCBC
0283 C. (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0284 C.
0285 C.
0286 C. ;äLOS¥Á¥$¥Ä¥~¼Ä»Ü;ä
0287 C.
0288 C. ***** LOS *****
0289 C.
```

(a) Spacecraft Operation Procedure (real-commands)

```
main-498 2025-09-06 12:00:36 85 33 SOLAR-B MAIN //  
0001 C.  
0002 . C. ***** AOS *****  
0003 C.  
0004 . C. ;ãAOSŸÁŸ$ŸÄŸ~¼Ä»Ü;ä  
0005 C.  
0006 C. ŸÄŸß;¼Ÿ³ŸÐŸóŸÉÄ÷¿®  
0007 +. DC 00-00 NULL_DUMMY_CMD  
0008 C.  
0009 . C. ***** AOCS : Reload orbital element (send every contact) *****  
0010 C. Äí;Ë¿¿Ä»•µ°Æ»Í×ÄÇ»ÍŸçŸÄŸ×Ÿí;¼ŸÉ;ËËè½µ•ííË;Ë»Ë¼°ÇÖ»•¿¿¼í¹Ç»Í;çÄ®,ù»¹»è»Ð»ÇÄ÷¿®»•»Ë»»»³»È;f  
0011 +. DC 02-8E AOCU_ORB_UPD  
0012 C.  
0013 C.  
0014 . C. ***** AOCS Commands (Tracking Curve Upload) *****  
0015 C. Upload the Orbit Element and the Target Attitude  
0016 C. RAM-ID:TARGET_ATT  
0017 . S. RAM ram-150:TARGET_ATT  
0018 ()  
0019 C.  
0020 C.  
0021 C. Set the dump memory area of TARGET_ATT  
0022 +. DC 02-48 AOCU_DUMP_SET  
0023 BC (07 00 00 00 18 00)  
0024 C.  
0025 C. <A_STS1>[MEMORY OPERATE SATUS] ADRS = 070000 [ ]  
0026 C.  
0027 C.  
0028 C. Change the TLMFormatNo for the AOCS Dump Format  
0029 +. DC 01-22 DHU_MODE_CHNG  
0030 BC (04 0b f8)  
0031 C.  
0032 C. Wait for AOCS DUMP to end  
0033 C.  
0034 . C. Check the dump memory  
0035 C.  
0036 C. Result = OK [ ]  
0037 C.  
0038 +. DC 01-22 DHU_MODE_CHNG  
0039 BC (02 0a f8)  
0040 C.  
0041 C. <A_***>[TLM STS] FMT = 2 [ ]  
0042 C.  
0043 +. DC 02-8E AOCU_ORB_UPD  
0044 . C.  
0045 C. Load OBSTBL, dump OBSTBL, enable EIS mode changes  
0046 +. DC 07-FC EIS_MODE_CHG_ENA  
0047 BC (20)  
0048 C. Verify EIS_MODE_CHG_FLG is ENA  
0049 +. DC 07-FC EIS_MODE_MANU  
0050 BC (21 02)  
0051 C. Verify EIS in MANUAL mode  
0052 C. Estimated OBSTBL upload time is 10s  
0053 C. *****  
0054 C. EIS START OBSTBL LOAD  
0055 C. *****  
0056 . S. RAM ram-820:EIS_OBSTBL  
0057 ()  
0058 +. DC 07-FC EIS_DUMP_OBSTBL  
0059 BC (07 07 07 00 00 70 00)  
0060 C.  
0061 C. Execute, after the success of OBSTBL upload.  
0062 C. Set EIS TI-commands  
0063 +. TI 2025-09-06 11:42:50.0  
0064 DC 07-FC EIS_MODE_CHG_ENA  
0065 BC (20)  
0066 . C. [ ] [HK1_TI_CMD_NUM] EQ 1 COUNTUP  
0067 C. *****  
0068 C. EIS END OBSTBL LOAD  
0069 C. *****  
0070 C.  
0071 . C. ***** MDP ´ûÄî»Í»ó¼Ÿ»ËÄÐ»¹»èDCBC•×²è *****  
0072 C. (¾ä°íŸóŸÄŸËŸÐŸŸËŸäŸçŸë»Ë½¼»¼Ä»Ü»¹»è)  
0073 . S. DC-BC dcbc-402:DCBC  
0074 (MDP_known_event)  
0075 C.  
0076 C.  
0077 . C. ***** ŸÐŸ¹•İ Daily±¿íî»Ë´Ø»¹»èDCBC•×²è *****  
0078 . S. DC-BC dcbc-153:DCBC  
0079 (SPECIAL-CMD_DAILY_OPERATIN_DCB)  
0080 C.  
0081 C.  
0082 . C. ;ãLOSŸÁŸ$ŸÄŸ~¼Ä»Ü;ä  
0083 C.  
0084 . C. ***** LOS *****  
0085 C.
```

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main-499 2025-09-06 12:00:36 216 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSŲÁŲ$ŲÃŲ~¼Ä»Ü;ä
0005 C.
0006 C. ŲÄŲß;¼Ų³ŲÐŲóŲÉÄ÷ç®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCS : Reload orbital element (send every contact) *****
0010 C. Äí;ËñçðÀñ•µ°E»Í×ÅÇñÎŲÇŲÃŲ×Ųí;¼ŲÉ;ËËè²µ•íîÊ;ËÈ¼°ÇÖñ•ñç¼¹¹Çñİ;ÇÀ®,ùñ¹ñèñÞñÇÄ÷ç®ñ•ñÈñññ³ñÈ;£
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. *****
0015 C. XÄ÷ç®µ;ON
0016 C. *****
0017 C. °EÄ,Í×ÈÝñäLOSñÞñÇñÎ»Þ'Öòò¹íî,ñ•;ÇÉÔÍ×ñÈXÄÓONñİ¹ÖñÈñíñÈñññ³ñÈ;£
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. ÇÇ[HK1_XPA_ON/OFF] EQ ON
0025 C. ÇÇ[HK1_XPA_PWR_HI/LO] EQ HI
0026 C. ÇÇ[HK1_XMOD_ON/OFF] EQ ON
0027 C. ÇÇ[HK1_XMOD_QPSK/PM] EQ QPSK
0028 C.
0029 . C. XŲÐŲóŲÉŲíŲÄŲ~¾ÒÄÖñ¬°ÄÄèñ•ñççé;Ç°Ê²¼ñî°EÄ,¼è½Çñò¼Ä¹Öñ¹ñè;£
0030 C.
0031 . C. *****
0032 C. DR PT1 Äî¼í°EÄ,
0033 C. *****
0034 C. °° RESTART;ÊPT1;Ëñ•ñçç¼¹¹Çñİ;Ç°Ê²¼ñî¼Ä¹Öñññ°;ÇDCBC-150ñØçÊñà;£
0035 C.
0036 . C. ;ãPT1°EÄ,³«»İ;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. ÇÇ[HK1_REP_PT_1/2] EQ PT1 (¼Ä¹Ö,;¼Ü)
0043 C. ÇÇ[HK1_REP_STA/STP] EQ START (¼Ä¹Ö,;¼Ü)
0044 C. ÇÇ[HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ö,;¼Ü)
0045 C.
0046 . C. ;ãŲÇŲóŲEŲEŲÄÚÂØ;ÊÄ•Ä°²öÈò;Ë,ãñî°EÄ,°E³«;ä
0047 +. DC 06-B3 DR_REP_START
0048 + DC 01-32 DHU_X_VC4_ON
0049 C. ÇÇ[HK1_REP_PT_1/2] EQ PT1 (¼Ä¹Ö,;¼Ü)
0050 C. ÇÇ[HK1_REP_STA/STP] EQ START (¼Ä¹Ö,;¼Ü)
0051 C. ÇÇ[HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ö,;¼Ü)
0052 C.
0053 C.
0054 . C. PT1°EÄ,ñ¬¼«E°Ää»ßñ•ñçç,ä;Ç°Ê²¼ñò¼Ä¹Öñ¹ñè;£
0055 C. ŲÇŲóŲEŲEŲÄÚÂØñäÄ•Ä°²öÈòñ¬¼áñç¼¹¹Çñİ'°î»ñ¹ñèñÞñÇÄÖñÄ;£
0056 C.
0057 . C. *****
0058 C. DR PT2 Äî¼í°EÄ,
0059 C. *****
0060 C. °° RESTART;ÊPT2;Ëñ•ñçç¼¹¹Çñİ;Ç°Ê²¼ñî¼Ä¹Öñññ°;ÇDCBC-151ñØçÊñà;£
0061 C.
0062 . C. ;ãPT2°EÄ,³«»İ;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. ÇÇ[HK1_REP_PT_1/2] EQ PT2 (¼Ä¹Ö,;¼Ü)
0069 C. ÇÇ[HK1_REP_STA/STP] EQ START (¼Ä¹Ö,;¼Ü)
0070 C. ÇÇ[HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ö,;¼Ü)
0071 C.
0072 . C. ;ãŲÇŲóŲEŲEŲÄÚÂØ;ÊÄ•Ä°²öÈò;Ë,ãñî°EÄ,°E³«;ä
0073 +. DC 06-B3 DR_REP_START
0074 + DC 01-32 DHU_X_VC4_ON
0075 C. ÇÇ[HK1_REP_PT_1/2] EQ PT2 (¼Ä¹Ö,;¼Ü)
0076 C. ÇÇ[HK1_REP_STA/STP] EQ START (¼Ä¹Ö,;¼Ü)
0077 C. ÇÇ[HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ö,;¼Ü)
0078 C.
0079 . C. *****
0080 C. DR°EÄ,Ää»ß;ÇXÄ÷ç®µ;OFF
0081 C. *****
0082 C.
0083 . C. ;ãDR°EÄ,Ää»ß;ä
0084 +. DC 06-B4 DR_REP_STOP
0085 + DC 01-29 DHU_S/X_VC4_OFF
0086 C. ÇÇ[HK1_REP_STA/STP] EQ STOP
0087 C. ÇÇ[HK1_S_VC4_ON/OFF] EQ OFF
0088 C. ÇÇ[HK1_X_VC4_ON/OFF] EQ OFF
0089 C.
0090 . C. ;ãXÄ÷ç®µ;OFF;ä
0091 +. DC 03-85 TCIA_XMOD_OFF
0092 M. WAIT_SEC 1
0093 + DC 03-B5 TCIA_XPA_OFF
0094 C. ÇÇ[HK1_XMOD_ON/OFF] EQ OFF
0095 C. ÇÇ[HK1 XPA ON/OFF] EQ OFF
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0096 C.
0097 C.
0098 C.
0099 C. ***** XRT START *****
0100 C.
0101 +. DC 07-F0 MDP_XRT_CTRL_MANU
0102 BC (c1)
0103 +. DC 07-F0 MDP_XRT_CTRL_MANU
0104 BC (c1)
0105 + DC 07-F0 MDP_XRT_MODE_STBY
0106 BC (c3)
0107 . C. ----- Success Verify ? OK / NG____
0108 C.
0109 C. XRT Obs. Table Upload
0110 . S. RAM ram-291:MDP_OBS_X
0111 ()
0112 C.
0113 +. DC 07-F0 MDP_DUMP_XRTTBL
0114 BC (84 07 00 00 00 3a d4)
0115 . C. ----- Comparison Check ? OK / ERR ____
0116 C.
0117 C.
0118 +. DC 07-F0 MDP_XRT_ROI_SET
0119 BC (cd 01 b1 b1 04 04)
0120 + DC 07-F0 MDP_XRT_ROI_SET
0121 BC (cd 02 b1 b1 08 08)
0122 + DC 07-F0 MDP_XRT_ROI_SET
0123 BC (cd 03 b1 b1 08 08)
0124 + DC 07-F0 MDP_XRT_ROI_SET
0125 BC (cd 04 b1 b1 06 06)
0126 + DC 07-F0 MDP_XRT_ROI_SET
0127 BC (cd 05 85 83 06 06)
0128 + DC 07-F0 MDP_XRT_ROI_SET
0129 BC (cd 06 85 83 06 06)
0130 + DC 07-F0 MDP_XRT_ROI_SET
0131 BC (cd 07 85 83 08 08)
0132 + DC 07-F0 MDP_XRT_ROI_SET
0133 BC (cd 08 80 80 20 20)
0134 + DC 07-F0 MDP_XRT_ROI_SET
0135 BC (cd 09 80 80 20 08)
0136 + DC 07-F0 MDP_XRT_ROI_SET
0137 BC (cd 0a 80 80 08 20)
0138 + DC 07-F0 MDP_XRT_ROI_SET
0139 BC (cd 0f 80 80 06 06)
0140 + DC 07-F0 MDP_XRT_ROI_SET
0141 BC (cd 10 80 80 08 08)
0142 + DC 07-F0 MDP_XRT_FLD_ENA
0143 BC (d8)
0144 + DC 07-F0 MDP_XRT_FLRCTRL_ENA
0145 BC (c8)
0146 + DC 07-F0 MDP_XRT_ARS_DIS
0147 BC (d5)
0148 + DC 07-F0 MDP_XRT_AEC_RESET
0149 BC (d0)
0150 + DC 07-F0 MDP_XRT_FLD_RESET
0151 BC (da)
0152 +. DC 07-F0 MDP_XRT_QT_PROG_SET
0153 BC (c4 03)
0154 +. DC 07-F0 MDP_XRT_FL_PROG_SET
0155 BC (c5 0e)
0156 . C. ----- Success Verify ? OK / NG ____
0157 C.
0158 C.
0159 . C. All OK? Yes--> Please Proceed. / No --> Stop here.
0160 C.
0161 +. DC 07-F0 MDP_XRT_MODE_OBSV
0162 BC (c2)
0163 +. TI 2025-09-06 11:42:02.0
0164 DC 07-F0 MDP_XRT_MODE_OBSV
0165 BC (c2)
0166 . C. ----- Success Verify ? OK / NG ____
0167 C.
0168 C. ***** XRT END *****
0169 . C. *****
0170 C. SOT table upload
0171 C. *****
0172 . C. < Stop SP table >
0173 +. DC 07-F0 MDP_SP_CTRL_MANU
0174 BC (61)
0175 C. -----
0176 C. MDP_SP_CTRL_MODE = MANU [ ]
0177 C. -----
0178 C.
0179 . C. <Upload SP Observation Table>
0180 . S. RAM ram-286:MDP_OBS_S
0181 ()
0182 C.
0183 . C. < Dump RAMID=MDP_OBS_S >
0184 +. DC 07-F0 MDP_DUMP_SPTBL
0185 BC (83 07 00 00 00 38 b8)
0186 C. -----
0187 C. MDP_OBS_S verify = OK/NG [ ]
0188 C. -----
0189 C.
0190 C. *****
0191 C. SOT TI command set
0192 C. *****
0193 C. Execute, after the success of TBL upload.

```

```
0194 +. TI 2025-09-06 11:42:18.0
0195 DC 07-F0 MDP_SOT_MODE_OBSV
0196 BC (40)
0197 . C. -----
0198 C. HK1_TI_CMD_NUM = 1 CNTUP [ ]
0199 C. -----
0200 C.
0201 C.
0202 . C. ***** MDP 'ûÃÎ¤Î»ö¼Ý¤ËÂÐ¤¹¤èDCBC•×²è *****
0203 C. (¾â°î¥Ó¥Ã¥Ë¥Ð¥Ë¥â¥¢¥è¤Ë¾¤¤¼Ã»Û¤¹¤è)
0204 . S. DC-BC dcbc-402:DCBC
0205 (MDP_known_event)
0206 C.
0207 C.
0208 . C. ***** ¥Ð¥¹•Ï Daily±¿ÍÑ¤Ë'Ø¤¹¤èDCBC•×²è *****
0209 . S. DC-BC dcbc-153:DCBC
0210 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0211 C.
0212 C.
0213 . C. ;ãLOS¥Á¥$¥Ã¥~¼Ã»Û;ä
0214 C.
0215 . C. ***** LOS *****
0216 C.
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\*\*\* OP Sequence for XRT \*\*\*

|            |            |                                   |   |       |                |
|------------|------------|-----------------------------------|---|-------|----------------|
| 2025/09/06 | 11:52:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/09/06 | 11:52:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/09/06 | 11:52:58.0 | XRT_FOCUS_POSITION_414_OG [0x19e] |   |       |                |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |
| 2025/09/06 | 11:53:00.0 | AOCS_ORe-point_Start_1_OG [0x097] |   |       |                |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 1b 8d b2 a8 |
| 2025/09/06 | 11:53:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |
| 2025/09/06 | 11:53:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |
| 2025/09/06 | 11:53:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |
| 2025/09/06 | 11:53:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |
| 2025/09/06 | 11:53:26.0 | XRT_FLD_RESET_434_OG [0x1b2]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/09/06 | 11:55:56.0 | XRT_QT_PROG_SET_440_OG [0x1b8]    |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 0a          |
| 2025/09/06 | 11:55:58.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    |   |       |                |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 0e          |
| 2025/09/06 | 11:56:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/09/06 | 15:10:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/09/06 | 15:10:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/09/06 | 15:10:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/09/06 | 15:10:06.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2025/09/06 | 15:13:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2025/09/06 | 15:14:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2025/09/06 | 15:15:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/09/06 | 16:41:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/09/06 | 16:41:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/09/06 | 16:41:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/09/06 | 16:41:36.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2025/09/06 | 16:44:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2025/09/06 | 17:05:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2025/09/06 | 17:06:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/09/06 | 17:53:24.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/09/06 | 17:53:26.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/09/06 | 17:53:28.0 | XRT_FOCUS_POSITION_406_OG [0x196] |   |       |                |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |
| 2025/09/06 | 17:53:30.0 | AOCS_ORe-point_Start_2_OG [0x098] |   |       |                |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 00 00 00 00 |
| 2025/09/06 | 17:53:48.0 | XRT_FLD_DIS_409_OG [0x199]        |   |       |                |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9             |
| 2025/09/06 | 17:53:50.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]    |   |       |                |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9             |
| 2025/09/06 | 17:53:52.0 | XRT_ARS_DIS_435_OG [0x1b3]        |   |       |                |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |
| 2025/09/06 | 17:56:28.0 | XRT_QT_PROG_SET_444_OG [0x1bc]    |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 02          |
| 2025/09/06 | 17:56:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/09/06 | 18:03:24.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/09/06 | 18:03:26.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/09/06 | 18:03:28.0 | XRT_FOCUS_POSITION_414_OG [0x19e] |   |       |                |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |
| 2025/09/06 | 18:03:30.0 | AOCS_ORe-point_Start_3_OG [0x099] |   |       |                |
|            |            | AOCU_NM                           | 5 | 02-76 | 04 03 ce 01 db |
| 2025/09/06 | 18:03:48.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |
| 2025/09/06 | 18:03:50.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |
| 2025/09/06 | 18:03:52.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |
| 2025/09/06 | 18:03:54.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |
| 2025/09/06 | 18:03:56.0 | XRT_FLD_RESET_434_OG [0x1b2]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/09/06 | 18:06:26.0 | XRT_QT_PROG_SET_447_OG [0x1bf]    |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 10          |
| 2025/09/06 | 18:06:28.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    |   |       |                |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 0e          |
| 2025/09/06 | 18:06:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |

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|            |            |                                |                     |   |       |    |
|------------|------------|--------------------------------|---------------------|---|-------|----|
| 2025/09/06 | 18:17:30.0 | XRT_CTRL_MANU_400_OG [0x190]   | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |
| 2025/09/06 | 18:17:32.0 | XRT_CTRL_MANU_402_OG [0x192]   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |
| 2025/09/06 | 18:17:34.0 | XRT_FLD_RESET_415_OG [0x19f]   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |
| 2025/09/06 | 18:17:36.0 | XRT_PREFLR_STRT_404_OG [0x194] | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |
| 2025/09/06 | 18:20:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2025/09/06 | 18:41:30.0 | XRT_Custom_430_OG [0x1ae]      | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2025/09/06 | 18:42:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]   |                     |   |       |    |
| 2025/09/06 | 19:54:30.0 | XRT_CTRL_MANU_400_OG [0x190]   | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |
| 2025/09/06 | 19:54:32.0 | XRT_CTRL_MANU_402_OG [0x192]   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |
| 2025/09/06 | 19:54:34.0 | XRT_FLD_RESET_415_OG [0x19f]   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |
| 2025/09/06 | 19:54:36.0 | XRT_PREFLR_STRT_404_OG [0x194] | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |
| 2025/09/06 | 19:57:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2025/09/06 | 20:17:30.0 | XRT_Custom_430_OG [0x1ae]      | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2025/09/06 | 20:18:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]   |                     |   |       |    |
| 2025/09/06 | 21:31:30.0 | XRT_CTRL_MANU_400_OG [0x190]   | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |
| 2025/09/06 | 21:31:32.0 | XRT_CTRL_MANU_402_OG [0x192]   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |
| 2025/09/06 | 21:31:34.0 | XRT_FLD_RESET_415_OG [0x19f]   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |
| 2025/09/06 | 21:31:36.0 | XRT_PREFLR_STRT_404_OG [0x194] | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |
| 2025/09/06 | 21:34:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2025/09/06 | 21:55:00.0 | XRT_Custom_430_OG [0x1ae]      | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2025/09/06 | 21:56:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]   |                     |   |       |    |
| 2025/09/06 | 23:08:30.0 | XRT_CTRL_MANU_400_OG [0x190]   | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |
| 2025/09/06 | 23:08:32.0 | XRT_CTRL_MANU_402_OG [0x192]   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |
| 2025/09/06 | 23:08:34.0 | XRT_FLD_RESET_415_OG [0x19f]   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |
| 2025/09/06 | 23:08:36.0 | XRT_PREFLR_STRT_404_OG [0x194] | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |
| 2025/09/06 | 23:11:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2025/09/06 | 23:30:30.0 | XRT_Custom_430_OG [0x1ae]      | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2025/09/06 | 23:31:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]   |                     |   |       |    |
| 2025/09/07 | 00:45:30.0 | XRT_CTRL_MANU_400_OG [0x190]   | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |
| 2025/09/07 | 00:45:32.0 | XRT_CTRL_MANU_402_OG [0x192]   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |
| 2025/09/07 | 00:45:34.0 | XRT_FLD_RESET_415_OG [0x19f]   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |
| 2025/09/07 | 00:45:36.0 | XRT_PREFLR_STRT_404_OG [0x194] | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |
| 2025/09/07 | 00:48:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2025/09/07 | 00:56:00.0 | XRT_Custom_430_OG [0x1ae]      | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2025/09/07 | 00:57:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]   |                     |   |       |    |
| 2025/09/07 | 02:11:30.0 | XRT_CTRL_MANU_400_OG [0x190]   | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |
| 2025/09/07 | 02:11:32.0 | XRT_CTRL_MANU_402_OG [0x192]   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |
| 2025/09/07 | 02:11:34.0 | XRT_FLD_RESET_415_OG [0x19f]   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |
| 2025/09/07 | 02:11:36.0 | XRT_PREFLR_STRT_404_OG [0x194] | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |
| 2025/09/07 | 02:14:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2025/09/07 | 02:28:00.0 | XRT_Custom_430_OG [0x1ae]      | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2025/09/07 | 02:29:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]   |                     |   |       |    |
| 2025/09/07 | 03:44:00.0 | XRT_CTRL_MANU_400_OG [0x190]   | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |
| 2025/09/07 | 03:44:02.0 | XRT_CTRL_MANU_402_OG [0x192]   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |
| 2025/09/07 | 03:44:04.0 | XRT_FLD_RESET_415_OG [0x19f]   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |
| 2025/09/07 | 03:44:06.0 | XRT_PREFLR_STRT_404_OG [0x194] | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |
| 2025/09/07 | 03:47:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2025/09/07 | 03:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]   | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2025/09/07 | 03:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |
|            |            |                                | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |

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|            |            |                                   |   |                      |  |
|------------|------------|-----------------------------------|---|----------------------|--|
| 2025/09/07 | 03:59:58.0 | XRT_FOCUS_POSITION_406_OG [0x196] |   |                      |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 22 ff aa 00    |  |
| 2025/09/07 | 04:00:00.0 | AOCs_Ore-point_Start_2_OG [0x098] |   |                      |  |
|            |            | AOCU_NM                           | 5 | 02-76 00 00 00 00 00 |  |
| 2025/09/07 | 04:00:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |                      |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 d8             |  |
| 2025/09/07 | 04:00:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |                      |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 c8             |  |
| 2025/09/07 | 04:00:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |                      |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 d0             |  |
| 2025/09/07 | 04:00:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |                      |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 d5             |  |
| 2025/09/07 | 04:00:26.0 | XRT_FLD_RESET_434_OG [0x1b2]      |   |                      |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 da             |  |
| 2025/09/07 | 04:02:56.0 | XRT_QT_PROG_SET_437_OG [0x1b5]    |   |                      |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 c4 12          |  |
| 2025/09/07 | 04:02:58.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    |   |                      |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 c5 0e          |  |
| 2025/09/07 | 04:04:30.0 | XRT_Custom_430_OG [0x1ae]         |   |                      |  |
| 2025/09/07 | 04:05:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |                      |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 c0             |  |
| 2025/09/07 | 05:12:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |                      |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |  |
| 2025/09/07 | 05:12:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |                      |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |  |
| 2025/09/07 | 05:12:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |                      |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 da             |  |
| 2025/09/07 | 05:12:36.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |                      |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 e8             |  |
| 2025/09/07 | 05:15:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |                      |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 e9             |  |
| 2025/09/07 | 05:41:30.0 | XRT_Custom_430_OG [0x1ae]         |   |                      |  |
| 2025/09/07 | 05:42:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |                      |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 c0             |  |
| 2025/09/07 | 06:02:00.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |                      |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |  |
| 2025/09/07 | 06:02:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |                      |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |  |
| 2025/09/07 | 06:02:04.0 | XRT_FOCUS_POSITION_406_OG [0x196] |   |                      |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 22 ff aa 00    |  |
| 2025/09/07 | 06:02:24.0 | XRT_FLD_DIS_409_OG [0x199]        |   |                      |  |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 d9             |  |
| 2025/09/07 | 06:02:26.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]    |   |                      |  |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 c9             |  |
| 2025/09/07 | 06:02:28.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |                      |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 d5             |  |
| 2025/09/07 | 06:02:30.0 | XRT_QT_PROG_SET_444_OG [0x1bc]    |   |                      |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 c4 02          |  |
| 2025/09/07 | 06:02:32.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |                      |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 c0             |  |
| 2025/09/07 | 06:09:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |                      |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |  |
| 2025/09/07 | 06:09:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |                      |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |  |
| 2025/09/07 | 06:09:58.0 | XRT_FOCUS_POSITION_414_OG [0x19e] |   |                      |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 22 fe 97 00    |  |
| 2025/09/07 | 06:10:00.0 | AOCs_Ore-point_Start_3_OG [0x099] |   |                      |  |
|            |            | AOCU_NM                           | 5 | 02-76 04 03 ce 01 db |  |
| 2025/09/07 | 06:10:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |                      |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 d8             |  |
| 2025/09/07 | 06:10:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |                      |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 c8             |  |
| 2025/09/07 | 06:10:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |                      |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 d0             |  |
| 2025/09/07 | 06:10:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |                      |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 d5             |  |
| 2025/09/07 | 06:10:26.0 | XRT_FLD_RESET_434_OG [0x1b2]      |   |                      |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 da             |  |
| 2025/09/07 | 06:12:56.0 | XRT_QT_PROG_SET_447_OG [0x1bf]    |   |                      |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 c4 10          |  |
| 2025/09/07 | 06:12:58.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    |   |                      |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 c5 0e          |  |
| 2025/09/07 | 06:13:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |                      |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 c0             |  |
| 2025/09/07 | 06:52:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |                      |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |  |
| 2025/09/07 | 06:52:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |                      |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |  |
| 2025/09/07 | 06:52:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |                      |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 da             |  |
| 2025/09/07 | 06:52:36.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |                      |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 e8             |  |
| 2025/09/07 | 06:55:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |                      |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 e9             |  |
| 2025/09/07 | 07:19:00.0 | XRT_Custom_430_OG [0x1ae]         |   |                      |  |
| 2025/09/07 | 07:20:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |                      |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 c0             |  |
| 2025/09/07 | 08:32:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |                      |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |  |
| 2025/09/07 | 08:32:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |                      |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |  |
| 2025/09/07 | 08:32:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |                      |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 da             |  |

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|            |            |                                   |   |       |                |
|------------|------------|-----------------------------------|---|-------|----------------|
| 2025/09/07 | 08:32:36.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2025/09/07 | 08:35:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2025/09/07 | 08:55:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2025/09/07 | 08:56:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/09/07 | 09:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/09/07 | 09:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/09/07 | 09:59:58.0 | XRT_FOCUS_POSITION_414_OG [0x19e] |   |       |                |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |
| 2025/09/07 | 10:00:00.0 | AOCs_ORe-point_Start_4_OG [0x09a] |   |       |                |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 b1 27 01 db |
| 2025/09/07 | 10:00:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |
| 2025/09/07 | 10:00:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |
| 2025/09/07 | 10:00:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |
| 2025/09/07 | 10:00:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |
| 2025/09/07 | 10:00:26.0 | XRT_FLD_RESET_434_OG [0x1b2]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/09/07 | 10:02:56.0 | XRT_QT_PROG_SET_443_OG [0x1bb]    |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 0d          |
| 2025/09/07 | 10:02:58.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    |   |       |                |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 0e          |
| 2025/09/07 | 10:03:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/09/07 | 10:12:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/09/07 | 10:12:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/09/07 | 10:12:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/09/07 | 10:12:06.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2025/09/07 | 10:15:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2025/09/07 | 10:31:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2025/09/07 | 10:32:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/09/07 | 15:38:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/09/07 | 15:38:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/09/07 | 15:38:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/09/07 | 15:38:36.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2025/09/07 | 15:41:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2025/09/07 | 15:49:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2025/09/07 | 15:50:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/09/07 | 17:13:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/09/07 | 17:13:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/09/07 | 17:13:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/09/07 | 17:13:06.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2025/09/07 | 17:16:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2025/09/07 | 17:36:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2025/09/07 | 17:37:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/09/07 | 18:06:24.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/09/07 | 18:06:26.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/09/07 | 18:06:28.0 | XRT_FOCUS_POSITION_406_OG [0x196] |   |       |                |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |
| 2025/09/07 | 18:06:30.0 | AOCs_ORe-point_Start_2_OG [0x098] |   |       |                |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 00 00 00 00 |
| 2025/09/07 | 18:06:48.0 | XRT_FLD_DIS_409_OG [0x199]        |   |       |                |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9             |
| 2025/09/07 | 18:06:50.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]    |   |       |                |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9             |
| 2025/09/07 | 18:06:52.0 | XRT_ARS_DIS_435_OG [0x1b3]        |   |       |                |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |
| 2025/09/07 | 18:09:28.0 | XRT_QT_PROG_SET_444_OG [0x1bc]    |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 02          |
| 2025/09/07 | 18:09:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/09/07 | 18:16:24.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/09/07 | 18:16:26.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/09/07 | 18:16:28.0 | XRT_FOCUS_POSITION_414_OG [0x19e] |   |       |                |

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|            |            |                                   |                              |   |       |    |    |    |       |
|------------|------------|-----------------------------------|------------------------------|---|-------|----|----|----|-------|
| 2025/09/07 | 18:16:30.0 | AOCs_ORe-point_Start_3_OG [0x099] | XRT_FOCUS_POSITION           | 4 | 07-F8 | 22 | fe | 97 | 00    |
| 2025/09/07 | 18:16:48.0 | XRT_FLD_ENA_411_OG [0x19b]        | AOCU_NM                      | 5 | 02-76 | 04 | 03 | ce | 01 db |
| 2025/09/07 | 18:16:50.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_FLD_ENA              | 1 | 07-F0 | d8 |    |    |       |
| 2025/09/07 | 18:16:52.0 | XRT_AEC_RESET_448_OG [0x1c0]      | MDP_XRT_FLRCTRL_ENA          | 1 | 07-F0 | c8 |    |    |       |
| 2025/09/07 | 18:16:54.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_AEC_RESET            | 1 | 07-F0 | d0 |    |    |       |
| 2025/09/07 | 18:16:56.0 | XRT_FLD_RESET_434_OG [0x1b2]      | MDP_XRT_ARS_DIS              | 1 | 07-F0 | d5 |    |    |       |
| 2025/09/07 | 18:19:26.0 | XRT_QT_PROG_SET_447_OG [0x1bf]    | MDP_XRT_FLD_RESET            | 1 | 07-F0 | da |    |    |       |
| 2025/09/07 | 18:19:28.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    | MDP_XRT_QT_PROG_SET          | 2 | 07-F0 | c4 | 10 |    |       |
| 2025/09/07 | 18:19:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_FL_PROG_SET          | 2 | 07-F0 | c5 | 0e |    |       |
| 2025/09/07 | 18:49:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO            | 1 | 07-F0 | c0 |    |    |       |
| 2025/09/07 | 18:49:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU            | 1 | 07-F0 | c1 |    |    |       |
| 2025/09/07 | 18:49:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU            | 1 | 07-F0 | c1 |    |    |       |
| 2025/09/07 | 18:49:36.0 | XRT_PREFLR_STRT_404_OG [0x194]    | MDP_XRT_FLD_RESET            | 1 | 07-F0 | da |    |    |       |
| 2025/09/07 | 18:52:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT          | 1 | 07-F0 | e8 |    |    |       |
| 2025/09/07 | 19:13:00.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STOP          | 1 | 07-F0 | e9 |    |    |       |
| 2025/09/07 | 19:14:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | XRT_Custom_430_OG [0x1ae]    |   |       |    |    |    |       |
| 2025/09/07 | 20:26:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | XRT_CTRL_AUTO_424_OG [0x1a8] |   |       |    |    |    |       |
| 2025/09/07 | 20:26:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_AUTO            | 1 | 07-F0 | c0 |    |    |       |
| 2025/09/07 | 20:26:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU            | 1 | 07-F0 | c1 |    |    |       |
| 2025/09/07 | 20:26:06.0 | XRT_PREFLR_STRT_404_OG [0x194]    | MDP_XRT_CTRL_MANU            | 1 | 07-F0 | c1 |    |    |       |
| 2025/09/07 | 20:29:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_FLD_RESET            | 1 | 07-F0 | da |    |    |       |
| 2025/09/07 | 20:49:30.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STRT          | 1 | 07-F0 | e8 |    |    |       |
| 2025/09/07 | 20:50:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_PREFLR_STOP          | 1 | 07-F0 | e9 |    |    |       |
| 2025/09/07 | 22:03:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | XRT_CTRL_AUTO_424_OG [0x1a8] |   |       |    |    |    |       |
| 2025/09/07 | 22:03:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_AUTO            | 1 | 07-F0 | c0 |    |    |       |
| 2025/09/07 | 22:03:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU            | 1 | 07-F0 | c1 |    |    |       |
| 2025/09/07 | 22:03:06.0 | XRT_PREFLR_STRT_404_OG [0x194]    | MDP_XRT_CTRL_MANU            | 1 | 07-F0 | c1 |    |    |       |
| 2025/09/07 | 22:06:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_FLD_RESET            | 1 | 07-F0 | da |    |    |       |
| 2025/09/07 | 22:26:30.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STRT          | 1 | 07-F0 | e8 |    |    |       |
| 2025/09/07 | 22:27:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_PREFLR_STOP          | 1 | 07-F0 | e9 |    |    |       |
| 2025/09/07 | 23:40:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | XRT_CTRL_AUTO_424_OG [0x1a8] |   |       |    |    |    |       |
| 2025/09/07 | 23:40:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_AUTO            | 1 | 07-F0 | c0 |    |    |       |
| 2025/09/07 | 23:40:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU            | 1 | 07-F0 | c1 |    |    |       |
| 2025/09/07 | 23:40:36.0 | XRT_PREFLR_STRT_404_OG [0x194]    | MDP_XRT_CTRL_MANU            | 1 | 07-F0 | c1 |    |    |       |
| 2025/09/07 | 23:43:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_FLD_RESET            | 1 | 07-F0 | da |    |    |       |
| 2025/09/08 | 00:01:00.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STRT          | 1 | 07-F0 | e8 |    |    |       |
| 2025/09/08 | 00:02:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_PREFLR_STOP          | 1 | 07-F0 | e9 |    |    |       |
| 2025/09/08 | 01:17:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | XRT_CTRL_AUTO_424_OG [0x1a8] |   |       |    |    |    |       |
| 2025/09/08 | 01:17:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_AUTO            | 1 | 07-F0 | c0 |    |    |       |
| 2025/09/08 | 01:17:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU            | 1 | 07-F0 | c1 |    |    |       |
| 2025/09/08 | 01:17:36.0 | XRT_PREFLR_STRT_404_OG [0x194]    | MDP_XRT_CTRL_MANU            | 1 | 07-F0 | c1 |    |    |       |
| 2025/09/08 | 01:20:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_FLD_RESET            | 1 | 07-F0 | da |    |    |       |
| 2025/09/08 | 01:25:00.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STRT          | 1 | 07-F0 | e8 |    |    |       |
| 2025/09/08 | 01:26:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_PREFLR_STOP          | 1 | 07-F0 | e9 |    |    |       |
| 2025/09/08 | 02:40:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | XRT_CTRL_AUTO_424_OG [0x1a8] |   |       |    |    |    |       |
| 2025/09/08 | 02:40:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_AUTO            | 1 | 07-F0 | c0 |    |    |       |
| 2025/09/08 | 02:40:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU            | 1 | 07-F0 | c1 |    |    |       |
| 2025/09/08 | 02:40:36.0 | XRT_PREFLR_STRT_404_OG [0x194]    | MDP_XRT_CTRL_MANU            | 1 | 07-F0 | c1 |    |    |       |
| 2025/09/08 | 02:43:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_FLD_RESET            | 1 | 07-F0 | da |    |    |       |
| 2025/09/08 | 02:43:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT          | 1 | 07-F0 | e8 |    |    |       |

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|            |            |                                   |                     |   |       |                |
|------------|------------|-----------------------------------|---------------------|---|-------|----------------|
| 2025/09/08 | 02:59:30.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2025/09/08 | 03:00:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |                     |   |       |                |
| 2025/09/08 | 03:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2025/09/08 | 03:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2025/09/08 | 03:59:58.0 | XRT_FOCUS_POSITION_406_OG [0x196] | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2025/09/08 | 04:00:00.0 | XRT_FOCUS_POSITION                |                     | 4 | 07-F8 | 22 ff aa 00    |
| 2025/09/08 | 04:00:00.0 | AOCs_ORe-point_Start_2_OG [0x098] |                     |   |       |                |
| 2025/09/08 | 04:00:18.0 | AOCU_NM                           |                     | 5 | 02-76 | 00 00 00 00 00 |
| 2025/09/08 | 04:00:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |                     |   |       |                |
| 2025/09/08 | 04:00:20.0 | XRT_FLD_ENA_411_OG [0x19b]        | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |
| 2025/09/08 | 04:00:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |                     |   |       |                |
| 2025/09/08 | 04:00:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |
| 2025/09/08 | 04:00:24.0 | XRT_AEC_RESET_448_OG [0x1c0]      | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |
| 2025/09/08 | 04:00:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |                     |   |       |                |
| 2025/09/08 | 04:00:26.0 | XRT_FLD_RESET_434_OG [0x1b2]      | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |
| 2025/09/08 | 04:02:56.0 | XRT_QT_PROG_SET_437_OG [0x1b5]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2025/09/08 | 04:02:58.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 12          |
| 2025/09/08 | 04:03:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 0e          |
| 2025/09/08 | 04:15:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2025/09/08 | 04:15:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2025/09/08 | 04:15:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2025/09/08 | 04:15:36.0 | XRT_PREFLR_STRT_404_OG [0x194]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2025/09/08 | 04:18:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2025/09/08 | 04:36:30.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2025/09/08 | 04:37:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |                     |   |       |                |
| 2025/09/08 | 05:45:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2025/09/08 | 05:45:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2025/09/08 | 05:45:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2025/09/08 | 05:45:36.0 | XRT_PREFLR_STRT_404_OG [0x194]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2025/09/08 | 05:48:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2025/09/08 | 06:13:30.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2025/09/08 | 06:14:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |                     |   |       |                |
| 2025/09/08 | 06:24:40.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2025/09/08 | 06:24:42.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2025/09/08 | 06:24:44.0 | XRT_FOCUS_POSITION_406_OG [0x196] | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2025/09/08 | 06:25:04.0 | XRT_FLD_DIS_409_OG [0x199]        | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa 00    |
| 2025/09/08 | 06:25:06.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]    |                     |   |       |                |
| 2025/09/08 | 06:25:08.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | d9             |
| 2025/09/08 | 06:25:10.0 | XRT_QT_PROG_SET_444_OG [0x1bc]    | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |
| 2025/09/08 | 06:25:12.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 02          |
| 2025/09/08 | 06:32:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2025/09/08 | 06:32:56.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2025/09/08 | 06:32:58.0 | XRT_FOCUS_POSITION_414_OG [0x19e] | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2025/09/08 | 06:33:00.0 | AOCs_ORe-point_Start_3_OG [0x099] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 fe 97 00    |
| 2025/09/08 | 06:33:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |                     |   |       |                |
| 2025/09/08 | 06:33:20.0 | XRT_FLD_ENA_411_OG [0x19b]        | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |
| 2025/09/08 | 06:33:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |
| 2025/09/08 | 06:33:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |
| 2025/09/08 | 06:33:26.0 | XRT_FLD_RESET_434_OG [0x1b2]      | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |
| 2025/09/08 | 06:35:56.0 | XRT_QT_PROG_SET_447_OG [0x1bf]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2025/09/08 | 06:35:58.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 10          |
| 2025/09/08 | 06:36:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 0e          |

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|            |            |                                   |                     |   |       |                |
|------------|------------|-----------------------------------|---------------------|---|-------|----------------|
| 2025/09/08 | 07:25:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2025/09/08 | 07:25:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2025/09/08 | 07:25:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2025/09/08 | 07:25:36.0 | XRT_PREFLR_STRT_404_OG [0x194]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2025/09/08 | 07:28:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2025/09/08 | 07:50:30.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2025/09/08 | 07:51:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |                     |   |       |                |
| 2025/09/08 | 09:05:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2025/09/08 | 09:05:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2025/09/08 | 09:05:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2025/09/08 | 09:05:36.0 | XRT_PREFLR_STRT_404_OG [0x194]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2025/09/08 | 09:08:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2025/09/08 | 09:27:30.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2025/09/08 | 09:28:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |                     |   |       |                |
| 2025/09/08 | 10:45:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2025/09/08 | 10:45:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2025/09/08 | 10:45:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2025/09/08 | 10:45:06.0 | XRT_PREFLR_STRT_404_OG [0x194]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2025/09/08 | 10:48:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2025/09/08 | 10:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2025/09/08 | 10:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |                     |   |       |                |
| 2025/09/08 | 10:59:58.0 | XRT_FOCUS_POSITION_414_OG [0x19e] | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2025/09/08 | 11:00:00.0 | AOCs_Or-point_Start_5_OG [0x09b]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 fe 97 00    |
| 2025/09/08 | 11:00:18.0 | XRT_FLD_ENA_411_OG [0x19b]        | AOCU_NM             | 5 | 02-76 | 00 b3 cf 01 db |
| 2025/09/08 | 11:00:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |
| 2025/09/08 | 11:00:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |
| 2025/09/08 | 11:00:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |
| 2025/09/08 | 11:00:26.0 | XRT_FLD_RESET_434_OG [0x1b2]      | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |
| 2025/09/08 | 11:02:56.0 | XRT_QT_PROG_SET_428_OG [0x1ac]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2025/09/08 | 11:02:58.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 07          |
| 2025/09/08 | 11:03:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 0e          |
| 2025/09/08 | 16:09:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2025/09/08 | 16:09:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2025/09/08 | 16:09:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2025/09/08 | 16:09:06.0 | XRT_PREFLR_STRT_404_OG [0x194]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2025/09/08 | 16:12:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2025/09/08 | 16:22:00.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2025/09/08 | 16:23:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |                     |   |       |                |
| 2025/09/08 | 16:30:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2025/09/08 | 16:30:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2025/09/08 | 16:30:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2025/09/08 | 16:30:06.0 | XRT_PREFLR_STRT_404_OG [0x194]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2025/09/08 | 16:31:30.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2025/09/08 | 16:32:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |                     |   |       |                |
| 2025/09/08 | 16:33:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2025/09/08 | 17:44:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2025/09/08 | 17:44:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2025/09/08 | 17:44:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
|            |            |                                   | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |

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|            |            |                                   |   |       |                |
|------------|------------|-----------------------------------|---|-------|----------------|
| 2025/09/08 | 17:44:36.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2025/09/08 | 17:47:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2025/09/08 | 18:07:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/09/08 | 18:07:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/09/08 | 18:07:58.0 | XRT_FOCUS_POSITION_406_OG [0x196] |   |       |                |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |
| 2025/09/08 | 18:08:00.0 | AOCS_ORe-point_Start_2_OG [0x098] |   |       |                |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 00 00 00 00 |
| 2025/09/08 | 18:08:18.0 | XRT_FLD_DIS_409_OG [0x199]        |   |       |                |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9             |
| 2025/09/08 | 18:08:20.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]    |   |       |                |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9             |
| 2025/09/08 | 18:08:22.0 | XRT_ARS_DIS_435_OG [0x1b3]        |   |       |                |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |
| 2025/09/08 | 18:10:58.0 | XRT_QT_PROG_SET_444_OG [0x1bc]    |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 02          |
| 2025/09/08 | 18:11:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/09/08 | 18:17:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/09/08 | 18:17:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/09/08 | 18:17:58.0 | XRT_FOCUS_POSITION_414_OG [0x19e] |   |       |                |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |
| 2025/09/08 | 18:18:00.0 | AOCS_ORe-point_Start_3_OG [0x099] |   |       |                |
|            |            | AOCU_NM                           | 5 | 02-76 | 04 03 ce 01 db |
| 2025/09/08 | 18:18:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |
| 2025/09/08 | 18:18:20.5 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |
| 2025/09/08 | 18:18:22.5 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |
| 2025/09/08 | 18:18:24.5 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |
| 2025/09/08 | 18:18:26.5 | XRT_FLD_RESET_434_OG [0x1b2]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/09/08 | 18:20:56.5 | XRT_QT_PROG_SET_447_OG [0x1bf]    |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 10          |
| 2025/09/08 | 18:20:58.5 | XRT_FL_PROG_SET_439_OG [0x1b7]    |   |       |                |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 0e          |
| 2025/09/08 | 18:21:00.5 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/09/08 | 19:21:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/09/08 | 19:21:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/09/08 | 19:21:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/09/08 | 19:21:06.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2025/09/08 | 19:24:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2025/09/08 | 19:44:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2025/09/08 | 19:45:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/09/08 | 20:58:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/09/08 | 20:58:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/09/08 | 20:58:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/09/08 | 20:58:06.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2025/09/08 | 21:01:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2025/09/08 | 21:21:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2025/09/08 | 21:22:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/09/08 | 22:35:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/09/08 | 22:35:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/09/08 | 22:35:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/09/08 | 22:35:06.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2025/09/08 | 22:38:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2025/09/08 | 22:58:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2025/09/08 | 22:59:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/09/09 | 00:12:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/09/09 | 00:12:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/09/09 | 00:12:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/09/09 | 00:12:06.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |

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|            |            |                                      |   |       |                |
|------------|------------|--------------------------------------|---|-------|----------------|
| 2025/09/09 | 00:15:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]       |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP                  | 1 | 07-F0 | e9             |
| 2025/09/09 | 00:29:00.0 | XRT_Custom_430_OG [0x1ae]            |   |       |                |
| 2025/09/09 | 00:30:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]         |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0             |
| 2025/09/09 | 01:46:30.0 | XRT_CTRL_MANU_400_OG [0x190]         |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |
| 2025/09/09 | 01:46:32.0 | XRT_CTRL_MANU_402_OG [0x192]         |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |
| 2025/09/09 | 01:46:34.0 | XRT_FLD_RESET_415_OG [0x19f]         |   |       |                |
|            |            | MDP_XRT_FLD_RESET                    | 1 | 07-F0 | da             |
| 2025/09/09 | 01:46:36.0 | XRT_PREFLR_STRT_404_OG [0x194]       |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT                  | 1 | 07-F0 | e8             |
| 2025/09/09 | 01:49:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]       |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP                  | 1 | 07-F0 | e9             |
| 2025/09/09 | 01:55:30.0 | XRT_Custom_430_OG [0x1ae]            |   |       |                |
| 2025/09/09 | 01:56:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]         |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0             |
| 2025/09/09 | 03:11:00.0 | XRT_CTRL_MANU_400_OG [0x190]         |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |
| 2025/09/09 | 03:11:02.0 | XRT_CTRL_MANU_402_OG [0x192]         |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |
| 2025/09/09 | 03:11:04.0 | XRT_FLD_RESET_415_OG [0x19f]         |   |       |                |
|            |            | MDP_XRT_FLD_RESET                    | 1 | 07-F0 | da             |
| 2025/09/09 | 03:11:06.0 | XRT_PREFLR_STRT_404_OG [0x194]       |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT                  | 1 | 07-F0 | e8             |
| 2025/09/09 | 03:14:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]       |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP                  | 1 | 07-F0 | e9             |
| 2025/09/09 | 03:31:30.0 | XRT_Custom_430_OG [0x1ae]            |   |       |                |
| 2025/09/09 | 03:32:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]         |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0             |
| 2025/09/09 | 03:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]         |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |
| 2025/09/09 | 03:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]         |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |
| 2025/09/09 | 03:59:58.0 | XRT_FOCUS_RECALIBRATE_407_OG [0x197] |   |       |                |
|            |            | XRT_FOCUS_RECAL                      | 2 | 07-F8 | 78 00          |
| 2025/09/09 | 04:00:00.0 | AOCs_ORe-point_Start_2_OG [0x098]    |   |       |                |
|            |            | AOCU_NM                              | 5 | 02-76 | 00 00 00 00 00 |
| 2025/09/09 | 04:03:58.0 | XRT_FOCUS_POSITION_406_OG [0x196]    |   |       |                |
|            |            | XRT_FOCUS_POSITION                   | 4 | 07-F8 | 22 ff aa 00    |
| 2025/09/09 | 04:04:18.0 | XRT_FLD_ENA_411_OG [0x19b]           |   |       |                |
|            |            | MDP_XRT_FLD_ENA                      | 1 | 07-F0 | d8             |
| 2025/09/09 | 04:04:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]       |   |       |                |
|            |            | MDP_XRT_FLRCTRL_ENA                  | 1 | 07-F0 | c8             |
| 2025/09/09 | 04:04:22.0 | XRT_AEC_RESET_448_OG [0x1c0]         |   |       |                |
|            |            | MDP_XRT_AEC_RESET                    | 1 | 07-F0 | d0             |
| 2025/09/09 | 04:04:24.0 | XRT_ARS_DIS_423_OG [0x1a7]           |   |       |                |
|            |            | MDP_XRT_ARS_DIS                      | 1 | 07-F0 | d5             |
| 2025/09/09 | 04:04:26.0 | XRT_FLD_RESET_415_OG [0x19f]         |   |       |                |
|            |            | MDP_XRT_FLD_RESET                    | 1 | 07-F0 | da             |
| 2025/09/09 | 04:04:28.0 | XRT_QT_PROG_SET_437_OG [0x1b5]       |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET                  | 2 | 07-F0 | c4 12          |
| 2025/09/09 | 04:04:30.0 | XRT_FL_PROG_SET_439_OG [0x1b7]       |   |       |                |
|            |            | MDP_XRT_FL_PROG_SET                  | 2 | 07-F0 | c5 0e          |
| 2025/09/09 | 04:04:32.0 | XRT_CTRL_AUTO_408_OG [0x198]         |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0             |
| 2025/09/09 | 04:40:30.0 | XRT_CTRL_MANU_400_OG [0x190]         |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |
| 2025/09/09 | 04:40:32.0 | XRT_CTRL_MANU_402_OG [0x192]         |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |
| 2025/09/09 | 04:40:34.0 | XRT_FLD_RESET_415_OG [0x19f]         |   |       |                |
|            |            | MDP_XRT_FLD_RESET                    | 1 | 07-F0 | da             |
| 2025/09/09 | 04:40:36.0 | XRT_PREFLR_STRT_404_OG [0x194]       |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT                  | 1 | 07-F0 | e8             |
| 2025/09/09 | 04:43:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]       |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP                  | 1 | 07-F0 | e9             |
| 2025/09/09 | 05:08:00.0 | XRT_Custom_430_OG [0x1ae]            |   |       |                |
| 2025/09/09 | 05:09:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]         |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0             |
| 2025/09/09 | 05:54:00.0 | XRT_CTRL_MANU_402_OG [0x192]         |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |
| 2025/09/09 | 05:54:02.0 | XRT_CTRL_MANU_402_OG [0x192]         |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |
| 2025/09/09 | 05:54:04.0 | XRT_FOCUS_POSITION_406_OG [0x196]    |   |       |                |
|            |            | XRT_FOCUS_POSITION                   | 4 | 07-F8 | 22 ff aa 00    |
| 2025/09/09 | 05:54:24.0 | XRT_FLD_DIS_409_OG [0x199]           |   |       |                |
|            |            | MDP_XRT_FLD_DIS                      | 1 | 07-F0 | d9             |
| 2025/09/09 | 05:54:26.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]       |   |       |                |
|            |            | MDP_XRT_FLRCTRL_DIS                  | 1 | 07-F0 | c9             |
| 2025/09/09 | 05:54:28.0 | XRT_ARS_DIS_423_OG [0x1a7]           |   |       |                |
|            |            | MDP_XRT_ARS_DIS                      | 1 | 07-F0 | d5             |
| 2025/09/09 | 05:54:30.0 | XRT_QT_PROG_SET_444_OG [0x1bc]       |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET                  | 2 | 07-F0 | c4 02          |
| 2025/09/09 | 05:54:32.0 | XRT_CTRL_AUTO_408_OG [0x198]         |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0             |
| 2025/09/09 | 06:01:24.0 | XRT_CTRL_MANU_402_OG [0x192]         |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |
| 2025/09/09 | 06:01:26.0 | XRT_CTRL_MANU_402_OG [0x192]         |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |
| 2025/09/09 | 06:01:28.0 | XRT_FOCUS_POSITION_414_OG [0x19e]    |   |       |                |
|            |            | XRT_FOCUS_POSITION                   | 4 | 07-F8 | 22 fe 97 00    |
| 2025/09/09 | 06:01:30.0 | AOCs_ORe-point_Start_3_OG [0x099]    |   |       |                |

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|            |            |                                   |   |                      |
|------------|------------|-----------------------------------|---|----------------------|
| 2025/09/09 | 06:01:48.0 | XRT_FLD_ENA_411_OG [0x19b]        | 5 | 02-76 04 03 ce 01 db |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 d8             |
| 2025/09/09 | 06:01:50.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |                      |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 c8             |
| 2025/09/09 | 06:01:52.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |                      |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 d0             |
| 2025/09/09 | 06:01:54.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |                      |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 d5             |
| 2025/09/09 | 06:01:56.0 | XRT_FLD_RESET_434_OG [0x1b2]      |   |                      |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 da             |
| 2025/09/09 | 06:04:26.0 | XRT_QT_PROG_SET_447_OG [0x1bf]    |   |                      |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 c4 10          |
| 2025/09/09 | 06:04:28.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    |   |                      |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 c5 0e          |
| 2025/09/09 | 06:04:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |                      |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 c0             |
| 2025/09/09 | 06:18:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |                      |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |
| 2025/09/09 | 06:18:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |                      |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |
| 2025/09/09 | 06:18:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |                      |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 da             |
| 2025/09/09 | 06:18:06.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |                      |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 e8             |
| 2025/09/09 | 06:21:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |                      |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 e9             |
| 2025/09/09 | 06:45:30.5 | XRT_Custom_430_OG [0x1ae]         |   |                      |
| 2025/09/09 | 06:46:30.5 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |                      |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 c0             |
| 2025/09/09 | 07:58:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |                      |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |
| 2025/09/09 | 07:58:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |                      |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |
| 2025/09/09 | 07:58:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |                      |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 da             |
| 2025/09/09 | 07:58:36.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |                      |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 e8             |
| 2025/09/09 | 08:01:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |                      |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 e9             |
| 2025/09/09 | 08:22:30.0 | XRT_Custom_430_OG [0x1ae]         |   |                      |
| 2025/09/09 | 08:23:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |                      |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 c0             |
| 2025/09/09 | 09:37:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |                      |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |
| 2025/09/09 | 09:37:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |                      |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |
| 2025/09/09 | 09:37:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |                      |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 da             |
| 2025/09/09 | 09:37:36.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |                      |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 e8             |
| 2025/09/09 | 09:40:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |                      |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 e9             |
| 2025/09/09 | 10:14:00.0 | AOCS_Ore-point_Start_2_OG [0x098] |   |                      |
|            |            | AOCU_NM                           | 5 | 02-76 00 00 00 00 00 |