

# XRT Timeline to be uploaded on 2026/08/15

Period: 2026/08/15 12:15:00 - 2026/08/20 10:46:00

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## Normal mode

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| XOB #1D1F: 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                                    |       |     |     |                      |       |            |          |         |
| 08/15 12:32:00 - 08/15 16:29:54                                                                                                                             |  |  | Track ( 53.0, -88.8) @ 08/15 12:25:00  |       |      | # OP start + 10min + AR 14507              |       |     |     |                      |       |            |          |         |
| 08/15 22:33:00 - 08/16 03:59:54                                                                                                                             |  |  | Track ( 144.9, -87.8) @ 08/15 22:30:00 |       |      | # end of HOP 535 + AR 14507                |       |     |     |                      |       |            |          |         |
| 08/16 06:43:30 - 08/16 15:57:00                                                                                                                             |  |  | Track ( 218.4, -86.2) @ 08/16 06:40:30 |       |      | # end of synoptic + AR 14507               |       |     |     |                      |       |            |          |         |
| 08/16 22:58:30 - 08/17 03:10:30                                                                                                                             |  |  | Track ( 355.9, -81.2) @ 08/16 22:30:00 |       |      | # end of HOP 535 + AR 14507                |       |     |     |                      |       |            |          |         |
| 08/17 06:04:00 - 08/17 07:59:54                                                                                                                             |  |  | Track ( 418.2, -77.9) @ 08/17 06:01:00 |       |      | # end of synoptic + AR 14507               |       |     |     |                      |       |            |          |         |
| 08/17 12:03:00 - 08/17 16:19:54                                                                                                                             |  |  | Track ( 466.2, -74.9) @ 08/17 12:00:00 |       |      | # end of HOP 542 + AR 14507                |       |     |     |                      |       |            |          |         |
| 08/18 00:01:21 - 08/18 03:41:00                                                                                                                             |  |  | Track ( 557.2, -68.0) @ 08/17 23:58:21 |       |      | # end of HOP 541 (coronal hole) + AR 14507 |       |     |     |                      |       |            |          |         |
| 08/18 06:13:00 - 08/18 11:51:30                                                                                                                             |  |  | Track ( 601.2, -63.9) @ 08/18 06:10:00 |       |      | # end of synoptic + AR 14507               |       |     |     |                      |       |            |          |         |
| PROG= 09 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 4-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= 77 4-time(s) 600.0sec                                                                                                                                 |  |  |                                        |       |      |                                            |       |     |     |                      |       |            |          |         |
| 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        | 95.0sec |
| 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        | 95.0sec |
| 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 #1B96: CME watch - 4x4 - AEC 2/3 - 2-filter (Be-thin, Al-poly) - G-band (1x1,512x512,1ms) - Leak (1x1,512x512,1ms) - 360s cad (G-band/Leak first)

| Term                            |  |  | Pointing (x, y)                         |       |          |       |       | Comment                  |     |                        |       |            |          |        |
|---------------------------------|--|--|-----------------------------------------|-------|----------|-------|-------|--------------------------|-----|------------------------|-------|------------|----------|--------|
| 08/15 16:33:00 - 08/15 18:06:54 |  |  | Track ( -425.9, -43.3) @ 08/15 16:30:00 |       |          |       |       | HOP 535                  |     |                        |       |            |          |        |
| 08/15 18:20:00 - 08/15 21:57:30 |  |  | Track ( -411.1, -44.2) @ 08/15 18:17:00 |       |          |       |       | # HOP 535                |     |                        |       |            |          |        |
| 08/16 16:33:00 - 08/16 17:35:00 |  |  | Track ( -218.5, -52.3) @ 08/16 16:30:00 |       |          |       |       | # HOP 535                |     |                        |       |            |          |        |
| 08/16 18:20:30 - 08/16 22:29:30 |  |  | Track ( -202.4, -52.7) @ 08/16 18:17:30 |       |          |       |       | # HOP 535                |     |                        |       |            |          |        |
| 08/17 17:03:30 - 08/17 19:39:54 |  |  | Track ( -0.2, -55.5) @ 08/17 16:30:00   |       |          |       |       | # HOP 535                |     |                        |       |            |          |        |
| 08/17 21:55:00 - 08/17 23:58:15 |  |  | Track ( 30.7, -486.2) @ 08/17 19:40:00  |       |          |       |       | # HOP 541 (coronal hole) |     |                        |       |            |          |        |
| PROG= 13 Inf.-time(s)           |  |  |                                         |       |          |       |       |                          |     |                        |       |            |          |        |
| Subr= 1                         |  |  | 1-time(s)                               |       | 2.0sec   |       |       |                          |     |                        |       |            |          |        |
| Seqn= 30                        |  |  | 1-time(s)                               |       | 2.0sec   |       |       |                          |     |                        |       |            |          |        |
| Open/G-band                     |  |  | Open/G-band                             | open  | Safe     | Norm  | 1ms   | Obs                      | 1x1 | 512x512 (1024, 1024)   | Q=90  | 0          | 0        | 2.0sec |
| Open/G-band                     |  |  | Open/G-band                             | close | Safe     | Norm  | 1ms   | Obs                      | 1x1 | 512x512 (1024, 1024)   | Q=95  | 0          | 0        | 2.0sec |
| Subr= 2                         |  |  | 10-time(s)                              |       | 360.0sec |       |       |                          |     |                        |       |            |          |        |
| 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 |
| Default Filter                  |  |  | Thicker Filter                          | VLS   | mode     | image | Exp.  | CCD                      | Bin | ROI: size (center)     | Comp. | AEC Buffer | Interval |        |

### XOB #1D50: Synoptic 8 Filter w/ Al-mesh(8/256/2048), Al-poly(24/362/4096), Thin-Be(64/2048/11571), Thick-Be(65536), Med-Al(512/11571/46284), Med-Be(25

| Term                            |  | Pointing (x, y)   |       |      |      |       | Comment                              |     |                        |  |  |      |   |   |        |  |
|---------------------------------|--|-------------------|-------|------|------|-------|--------------------------------------|-----|------------------------|--|--|------|---|---|--------|--|
| 08/15 18:10:00 - 08/15 18:16:54 |  | Fixed ( 0.0, 0.0) |       |      |      |       | synoptic, shifted 7.0 min            |     |                        |  |  |      |   |   |        |  |
| 08/16 06:33:30 - 08/16 06:40:24 |  | Fixed ( 0.0, 0.0) |       |      |      |       | synoptic, shifted 30.5 min + HOP 349 |     |                        |  |  |      |   |   |        |  |
| 08/16 18:10:30 - 08/16 18:17:24 |  | Fixed ( 0.0, 0.0) |       |      |      |       | synoptic, shifted 7.5 min            |     |                        |  |  |      |   |   |        |  |
| 08/17 05:54:00 - 08/17 06:00:54 |  | Fixed ( 0.0, 0.0) |       |      |      |       | synoptic, shifted -9.0 min + HOP 349 |     |                        |  |  |      |   |   |        |  |
| 08/17 16:23:00 - 08/17 16:29:54 |  | Fixed ( 0.0, 0.0) |       |      |      |       | synoptic shifted manually            |     |                        |  |  |      |   |   |        |  |
| 08/18 06:07:30 - 08/18 06:09:54 |  | Fixed ( 0.0, 0.0) |       |      |      |       | synoptic + HOP 349                   |     |                        |  |  |      |   |   |        |  |
| PROG= 04 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= 79                        |  | 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 | 250ms | Obs                                  | 2x2 | 2048x2048 (1024, 1024) |  |  | Q=95 | 0 | 0 | 2.0sec |  |

XOB #1D28: HOP349 - 3-filter Synoptics (Al-mesh[8/181/2897], Al-poly[16/181/4096], thin-Bel64/1024/11571] with 512x512 G-band+Leak(1064,1048) - 45 min

| Term                            | Pointing (x, y)   | Comment   |
|---------------------------------|-------------------|-----------|
| 08/16 04:03:00 - 08/16 05:45:30 | Fixed ( 0.0, 0.0) | # HOP 349 |
| 08/17 04:03:00 - 08/17 05:50:54 | Fixed ( 0.0, 0.0) | # HOP 349 |
| 08/18 04:18:00 - 08/18 05:09:30 | Fixed ( 0.0, 0.0) | # HOP 349 |

PROG= 06 Inf.-time(s)

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| Subr= 1 | Seqn=100 | 1-time(s) | 2.0sec |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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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   |
|---------------------------------|----------------------------------------|-----------|
| 08/17 08:41:00 - 08/17 11:18:00 | Track ( 434.3, -77.0) @ 08/17 08:00:00 | # HOP 542 |

PROG= 01 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 #1D51: CME watch - 4x4 - AEC 2/3 - 2-filter (Be-thin, Al-poly) - G-band (1x1,512x512,1ms) - Leak (1x1,512x512,1ms) - 30s cad (G-band/Leak first) |  |                |                                        |         |      |       |                          |     |     |                        |       |                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------|----------------------------------------|---------|------|-------|--------------------------|-----|-----|------------------------|-------|---------------------|
| Term                                                                                                                                                 |  |                | Pointing (x, y)                        |         |      |       | Comment                  |     |     |                        |       |                     |
| 08/17 20:16:00 - 08/17 21:23:00                                                                                                                      |  |                | Track ( 30.7, -486.2) @ 08/17 19:40:00 |         |      |       | # HOP 541 (coronal hole) |     |     |                        |       |                     |
| PROG= 11 Inf-time(s)                                                                                                                                 |  |                |                                        |         |      |       |                          |     |     |                        |       |                     |
| Subr= 1                                                                                                                                              |  | 1-time(s)      |                                        | 2.0sec  |      |       |                          |     |     |                        |       |                     |
| Seqn= 30                                                                                                                                             |  | 1-time(s)      |                                        | 2.0sec  |      |       |                          |     |     |                        |       |                     |
| Open/G-band                                                                                                                                          |  | Open/G-band    |                                        | open    | Safe | Norm  | 1ms                      | Obs | 1x1 | 512x512 (1024, 1024)   | Q=90  | 0 0 2.0sec          |
| Open/G-band                                                                                                                                          |  | Open/G-band    |                                        | close   | Safe | Norm  | 1ms                      | Obs | 1x1 | 512x512 (1024, 1024)   | Q=95  | 0 0 2.0sec          |
| Subr= 2                                                                                                                                              |  | 180-time(s)    |                                        | 30.0sec |      |       |                          |     |     |                        |       |                     |
| 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          |
| 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) + G |                |                                         |      |                                            |      |     |                      |                    |       |            |          |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------------------------------|------|--------------------------------------------|------|-----|----------------------|--------------------|-------|------------|----------|--|
| Term                                                                                                                                                     |                | Pointing (x, y)                         |      | Comment                                    |      |     |                      |                    |       |            |          |  |
| 08/15 12:32:00 - 08/15 16:29:54                                                                                                                          |                | Track ( 53.0, -88.8) @ 08/15 12:25:00   |      | # OP start + 10min + AR 14507              |      |     |                      |                    |       |            |          |  |
| 08/15 16:33:00 - 08/15 18:06:54                                                                                                                          |                | Track ( -425.9, -43.3) @ 08/15 16:30:00 |      | HOP 535                                    |      |     |                      |                    |       |            |          |  |
| 08/15 18:20:00 - 08/15 21:57:30                                                                                                                          |                | Track ( -411.1, -44.2) @ 08/15 18:17:00 |      | # HOP 535                                  |      |     |                      |                    |       |            |          |  |
| 08/15 22:33:00 - 08/16 03:59:54                                                                                                                          |                | Track ( 144.9, -87.8) @ 08/15 22:30:00  |      | # end of HOP 535 + AR 14507                |      |     |                      |                    |       |            |          |  |
| 08/16 04:03:00 - 08/16 05:45:30                                                                                                                          |                | Fixed ( 0.0, 0.0)                       |      | # HOP 349                                  |      |     |                      |                    |       |            |          |  |
| 08/16 06:43:30 - 08/16 15:57:00                                                                                                                          |                | Track ( 218.4, -86.2) @ 08/16 06:40:30  |      | # end of synoptic + AR 14507               |      |     |                      |                    |       |            |          |  |
| 08/16 16:33:00 - 08/16 17:35:00                                                                                                                          |                | Track ( -218.5, -52.3) @ 08/16 16:30:00 |      | # HOP 535                                  |      |     |                      |                    |       |            |          |  |
| 08/16 18:20:30 - 08/16 22:29:30                                                                                                                          |                | Track ( -202.4, -52.7) @ 08/16 18:17:30 |      | # HOP 535                                  |      |     |                      |                    |       |            |          |  |
| 08/16 22:58:30 - 08/17 03:10:30                                                                                                                          |                | Track ( 355.9, -81.2) @ 08/16 22:30:00  |      | # end of HOP 535 + AR 14507                |      |     |                      |                    |       |            |          |  |
| 08/17 04:03:00 - 08/17 05:50:54                                                                                                                          |                | Fixed ( 0.0, 0.0)                       |      | # HOP 349                                  |      |     |                      |                    |       |            |          |  |
| 08/17 06:04:00 - 08/17 07:59:54                                                                                                                          |                | Track ( 418.2, -77.9) @ 08/17 06:01:00  |      | # end of synoptic + AR 14507               |      |     |                      |                    |       |            |          |  |
| 08/17 08:41:00 - 08/17 11:18:00                                                                                                                          |                | Track ( 434.3, -77.0) @ 08/17 08:00:00  |      | # HOP 542                                  |      |     |                      |                    |       |            |          |  |
| 08/17 12:03:00 - 08/17 16:19:54                                                                                                                          |                | Track ( 466.2, -74.9) @ 08/17 12:00:00  |      | # end of HOP 542 + AR 14507                |      |     |                      |                    |       |            |          |  |
| 08/17 17:03:30 - 08/17 19:39:54                                                                                                                          |                | Track ( -0.2, -55.5) @ 08/17 16:30:00   |      | # HOP 535                                  |      |     |                      |                    |       |            |          |  |
| 08/17 20:16:00 - 08/17 21:23:00                                                                                                                          |                | Track ( 30.7, -486.2) @ 08/17 19:40:00  |      | # HOP 541 (coronal hole)                   |      |     |                      |                    |       |            |          |  |
| 08/17 21:55:00 - 08/17 23:58:15                                                                                                                          |                | Track ( 30.7, -486.2) @ 08/17 19:40:00  |      | # HOP 541 (coronal hole)                   |      |     |                      |                    |       |            |          |  |
| 08/18 00:01:21 - 08/18 03:41:00                                                                                                                          |                | Track ( 557.2, -68.0) @ 08/17 23:58:21  |      | # end of HOP 541 (coronal hole) + AR 14507 |      |     |                      |                    |       |            |          |  |
| 08/18 04:18:00 - 08/18 05:09:30                                                                                                                          |                | Fixed ( 0.0, 0.0)                       |      | # HOP 349                                  |      |     |                      |                    |       |            |          |  |
| 08/18 06:13:00 - 08/18 11:51:30                                                                                                                          |                | Track ( 601.2, -63.9) @ 08/18 06:10:00  |      | # end of synoptic + AR 14507               |      |     |                      |                    |       |            |          |  |
| 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

\* \* \* \* \*

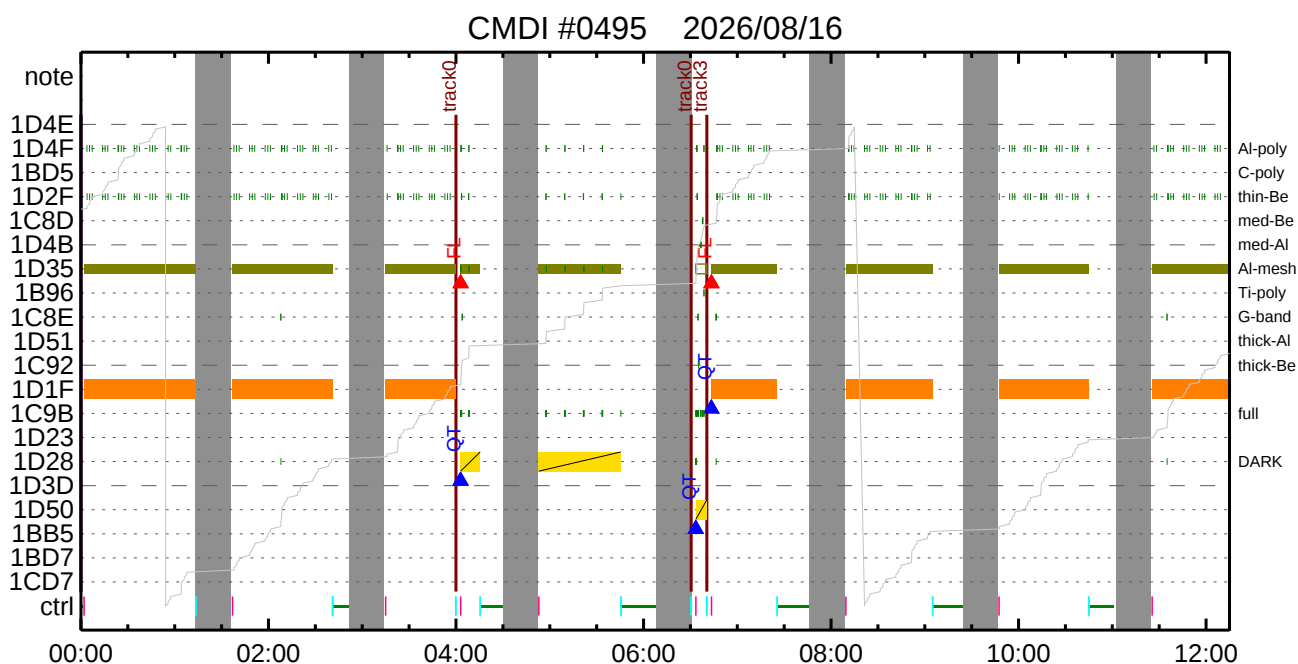
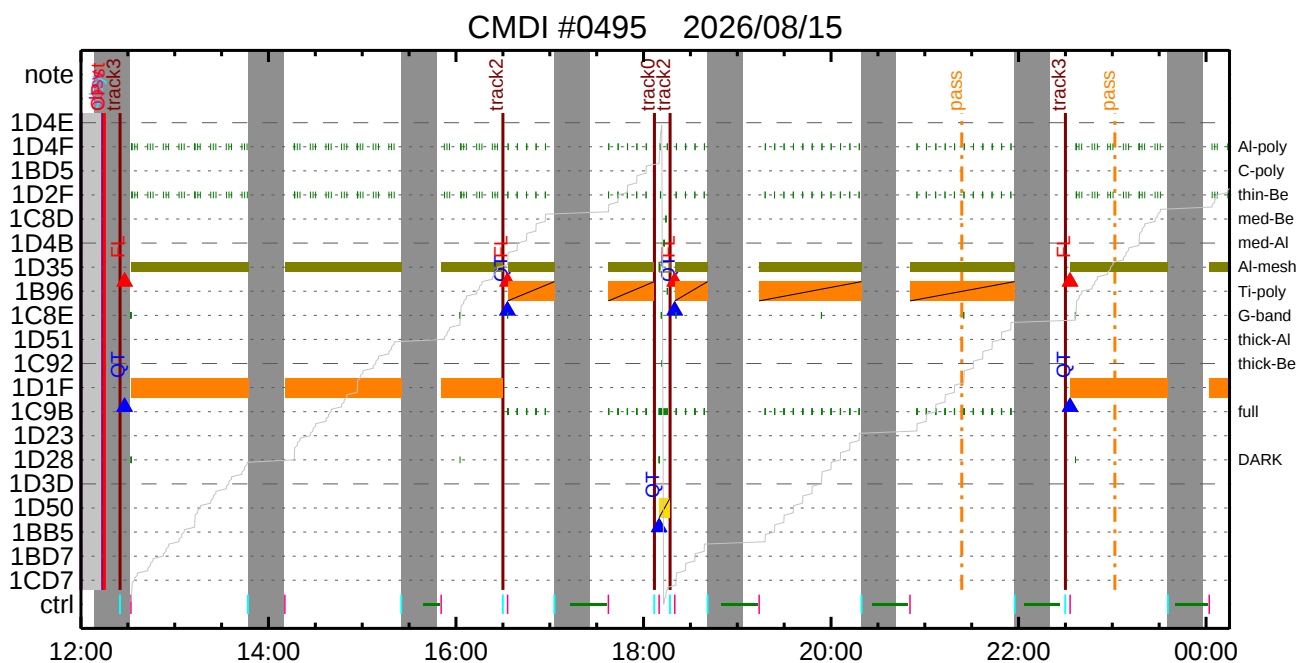
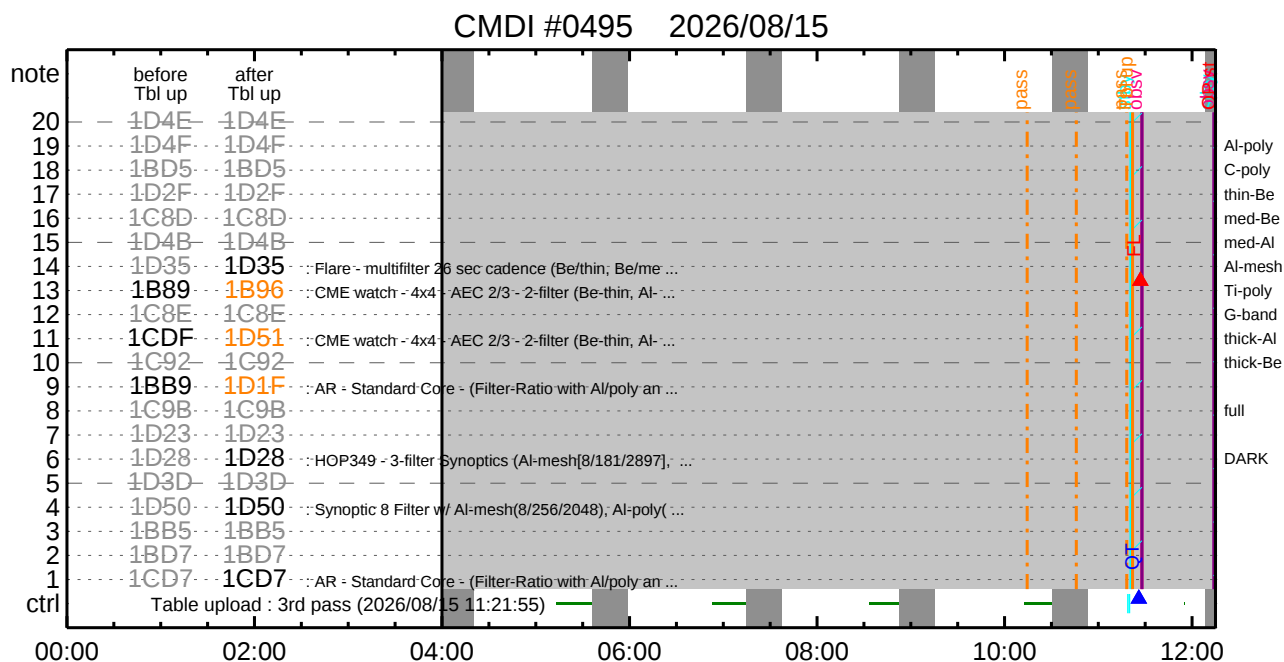
NOT USED

\* \* \* \* \*

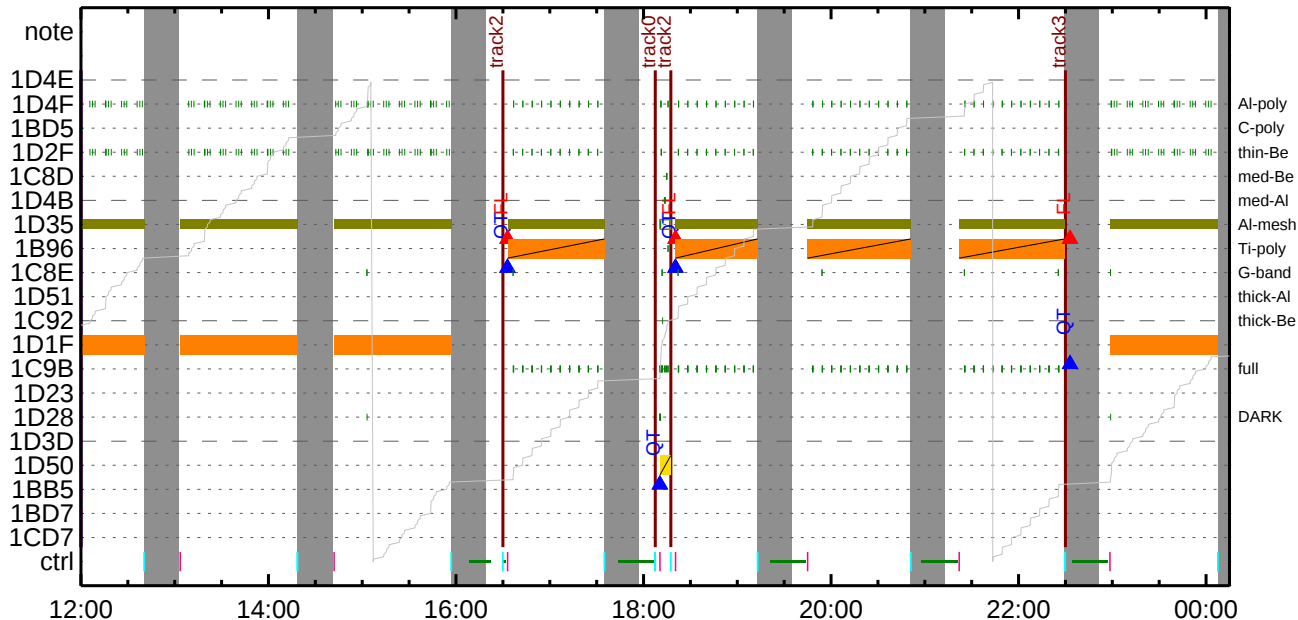
## Flare Detection

\* \* \* \* \*

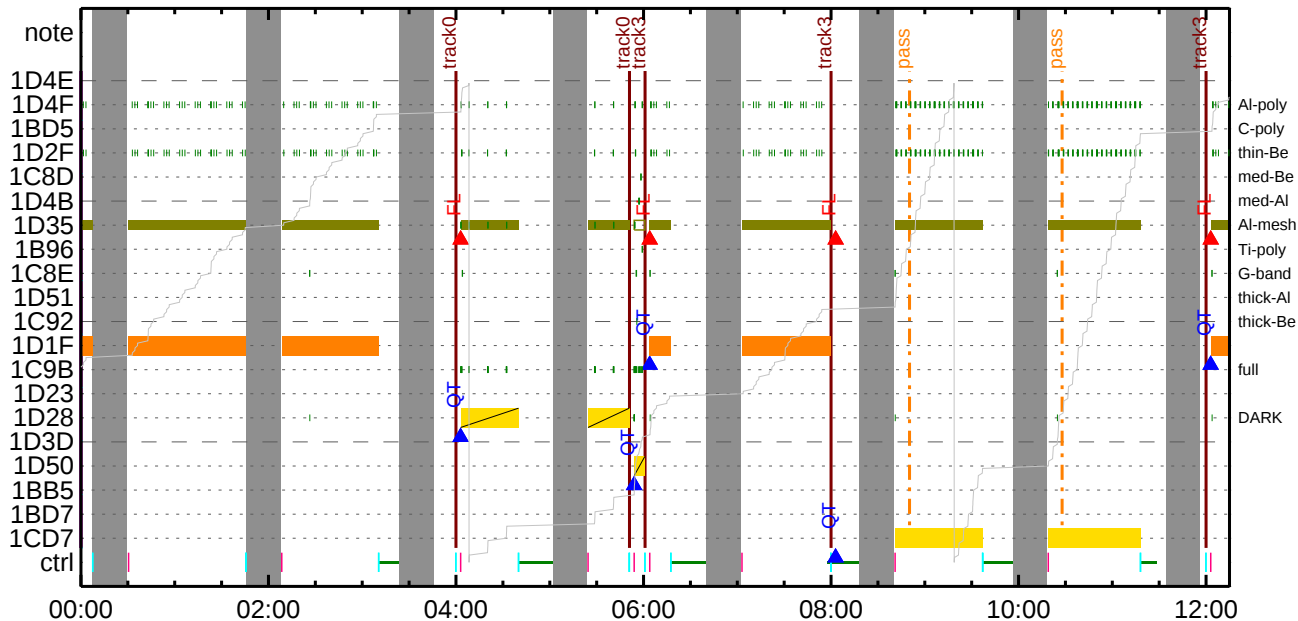
| FLD Patrol                      |  |                |                                                                     |      |       |      |     |     |                    |  |                           |
|---------------------------------|--|----------------|---------------------------------------------------------------------|------|-------|------|-----|-----|--------------------|--|---------------------------|
| Term                            |  |                | Pointing (x, y)                                                     |      |       |      |     |     | Comment            |  |                           |
| 08/15 11:22:55 - 08/15 18:07:18 |  |                | cannot be identified                                                |      |       |      |     |     |                    |  |                           |
| 08/15 18:17:18 - 08/16 06:30:48 |  |                | Track ( -411.1, -44.2) @ 08/15 18:17:00 # HOP 535                   |      |       |      |     |     |                    |  |                           |
| 08/16 06:40:48 - 08/16 18:07:48 |  |                | Track ( 218.4, -86.2) @ 08/16 06:40:30 # end of synoptic + AR 14507 |      |       |      |     |     |                    |  |                           |
| 08/16 18:17:48 - 08/17 05:51:18 |  |                | Track ( -202.4, -52.7) @ 08/16 18:17:30 # HOP 535                   |      |       |      |     |     |                    |  |                           |
| 08/17 06:01:18 - 08/17 16:20:18 |  |                | Track ( 418.2, -77.9) @ 08/17 06:01:00 # end of synoptic + AR 14507 |      |       |      |     |     |                    |  |                           |
| 08/17 16:30:18 - 08/18 06:04:48 |  |                | Track ( -0.2, -55.5) @ 08/17 16:30:00 # HOP 535                     |      |       |      |     |     |                    |  |                           |
| 08/18 06:10:18 - 08/20 10:46:00 |  |                | Track ( 601.2, -63.9) @ 08/18 06:10:00 # end of synoptic + AR 14507 |      |       |      |     |     |                    |  |                           |
| 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 |



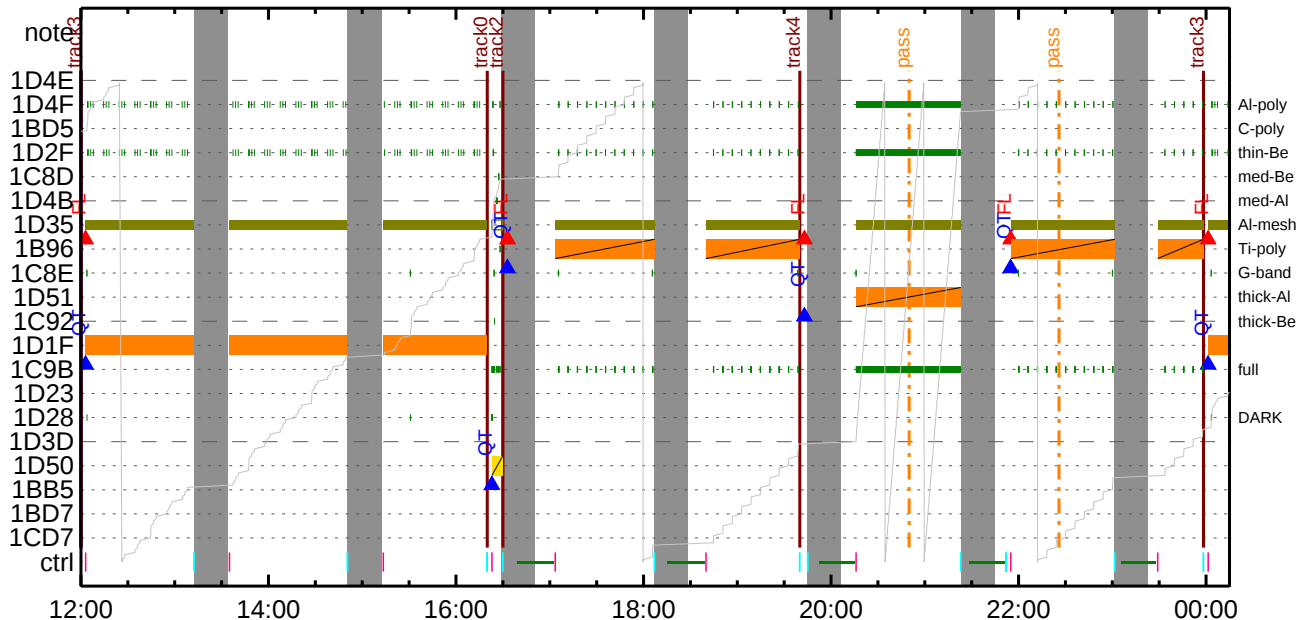
# CMDI #0495 2026/08/16



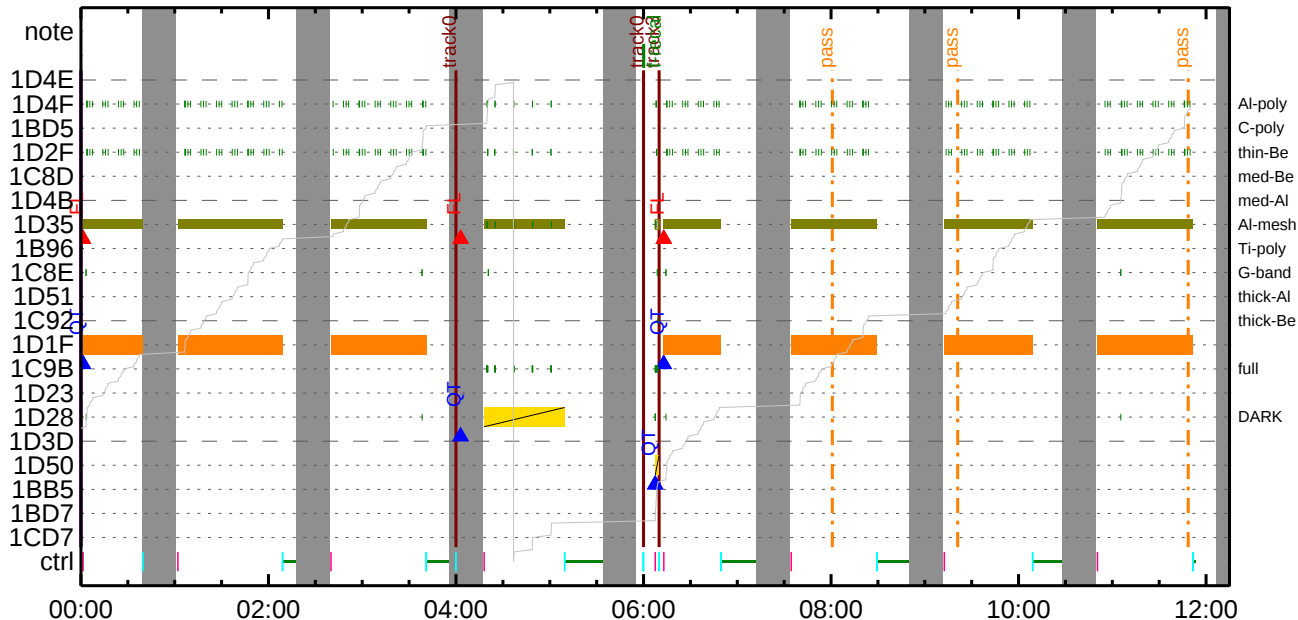
# CMDI #0495 2026/08/17



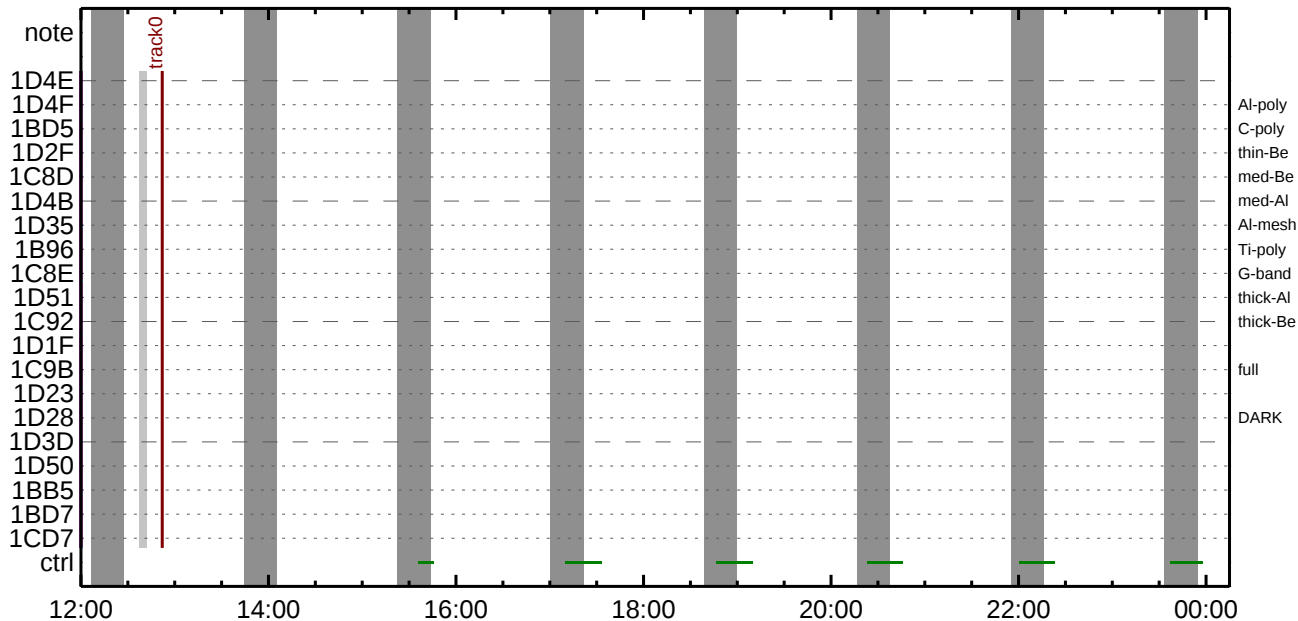
# CMDI #0495 2026/08/17



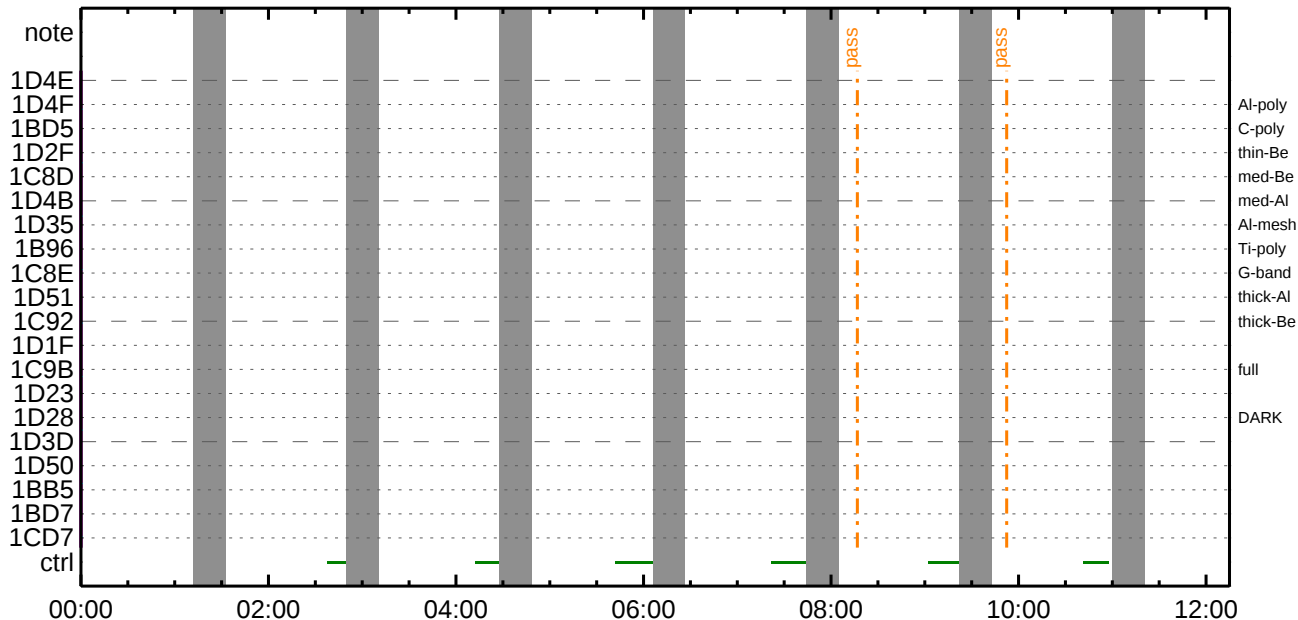
# CMDI #0495 2026/08/18



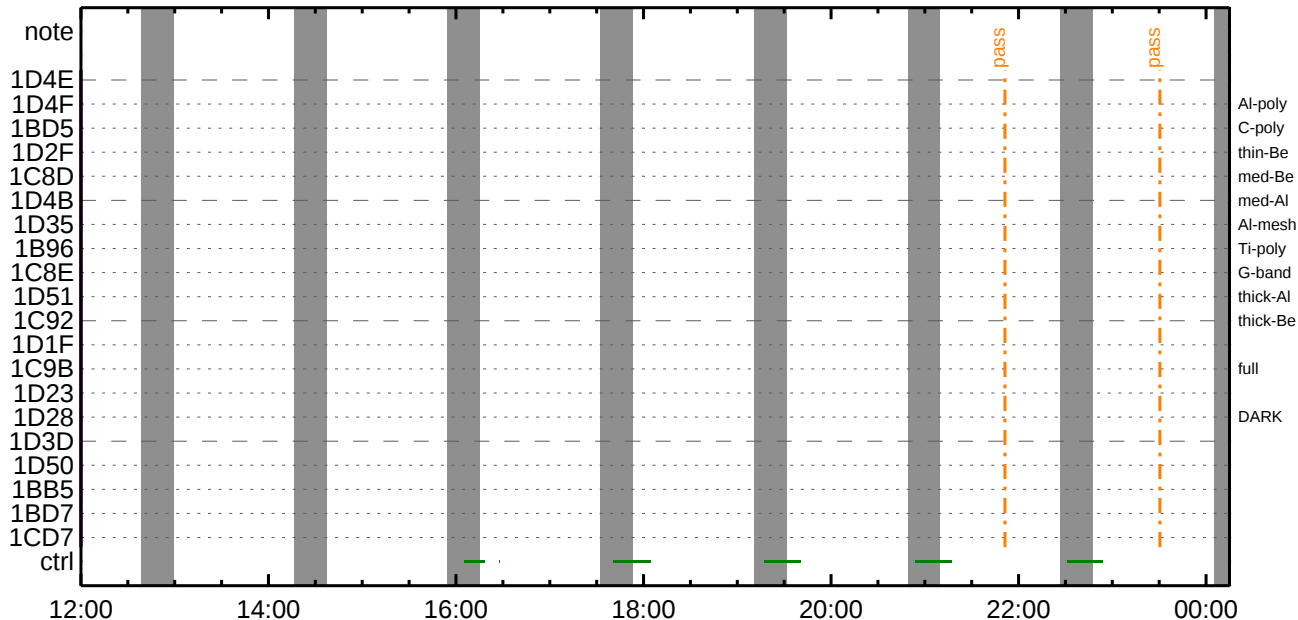
# CMDI #0495 2026/08/18



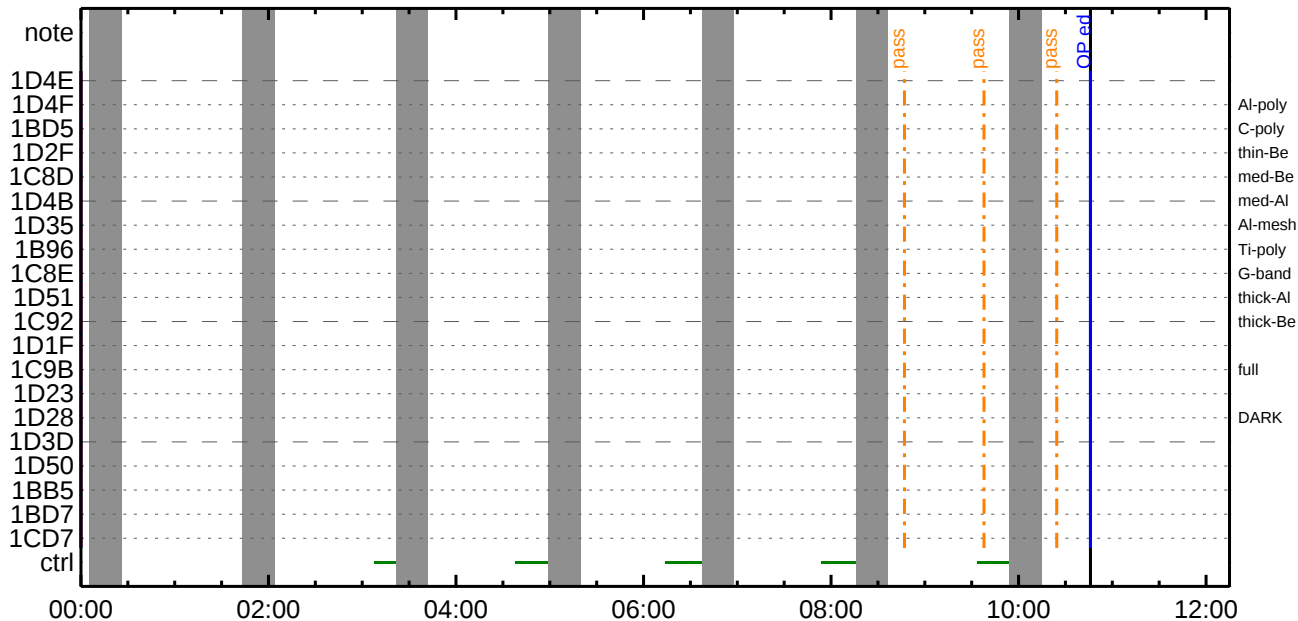
# CMDI #0495 2026/08/19



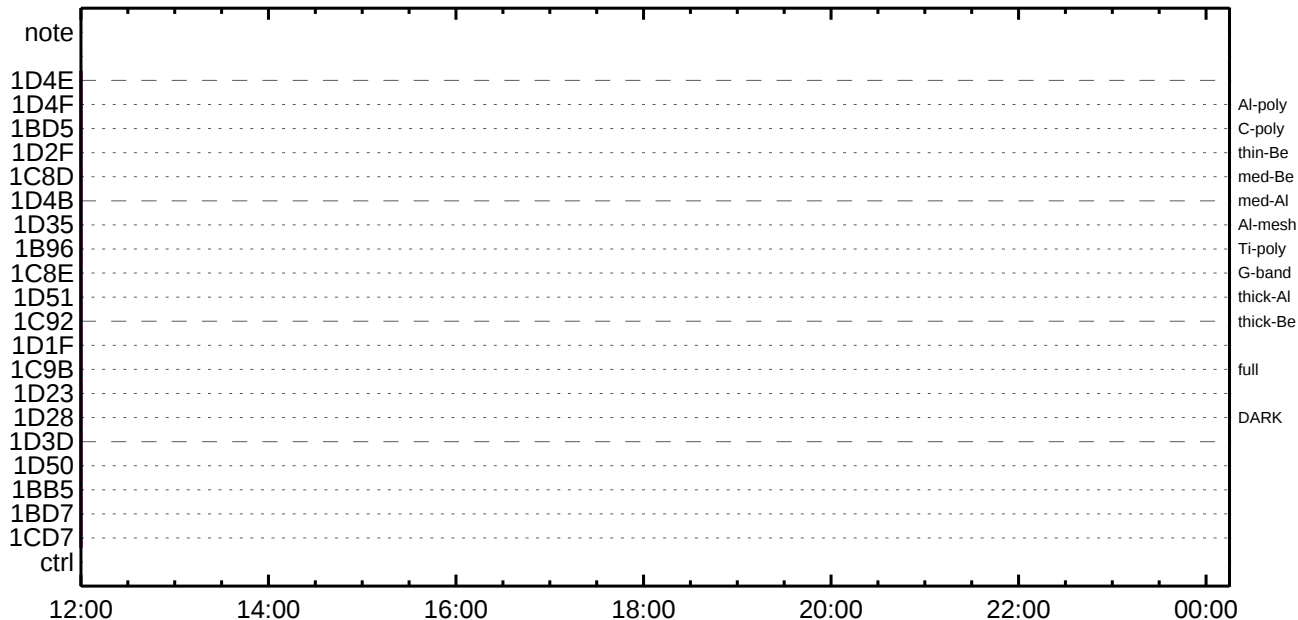
# CMDI #0495 2026/08/19



# CMDI #0495 2026/08/20



# CMDI #0495 2026/08/20



```
main-164 2026-08-15 12:34:41 205 33 SOLAR-B MAIN //
```

```

main-164 2026-08-15 12:24:41 205 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSŸÁŸ$ŸÄŸ~¼Ä»Ü;ä
0005 C.
0006 C. ŸÄŸß;¼Ÿ³ŸPŸóŸÉÁ÷ç®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCS : Reload orbital element (send every contact) *****
0010 C. Äí;ËñçñÄñ•µ°E»Í×ÄÇñÍŸçŸÄŸ×Ÿí;¼ŸÉ;ËËèµ•íÍË;ËñÉ¼°ÇÓñ•ñç¼í¹çñÍ;çÄ®,ùñ¹ñËñPñÇÁ÷ç®ñ•ñËñññ³ñË;£
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. *****
0015 C. OP/OGŸí;¼ŸÉ;|ŸÄŸóŸ×
0016 C. *****
0017 C.
0018 . C. ;ãOP/OGŸí;¼ŸÉ;ä
0019 . S. OP op-164:OP
0020 ()
0021 . S. OG og-164:OG
0022 ()
0023 C.
0024 . C. ;ãNMOG&OPÎî°èŸÄŸóŸ×;ä
0025 C. NMOG(0x200000-0x207FFF;$ 32 kbyte)
0026 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0027 BC (20 00 7f 01 02)
0028 C. çç[HK1_DMP_TOP_ADRS_1] EQ 40
0029 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0030 C. çç[HK1_DMP_BLOCK_NUM] EQ 127
0031 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0032 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0033 +. DC 01-22 DHU_MODE_CHNG
0034 BC (07 0b f8)
0035 C. çç[HK1_PKT_FORM_NO] EQ 7
0036 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0037 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0038 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0039 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0040 . C. ŸÄŸóŸ×½ªî»ñò³îÇ$
0041 C. çç[HK1_DMP_CHK_FLG] EQ NON
0042 . C. RAM ID=NMOGñî¼Ë¹ç•ë²îOKñò³îÇ$
0043 C.
0044 C. NMOG(0x208000-0x20FFFF;$ 32 kbyte)
0045 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0046 BC (20 80 7f 01 02)
0047 C. çç[HK1_DMP_TOP_ADRS_1] EQ 41
0048 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0049 C. çç[HK1_DMP_BLOCK_NUM] EQ 127
0050 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0051 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0052 +. DC 01-22 DHU_MODE_CHNG
0053 BC (07 0b f8)
0054 C. çç[HK1_PKT_FORM_NO] EQ 7
0055 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0056 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0057 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0058 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0059 . C. ŸÄŸóŸ×½ªî»ñò³îÇ$
0060 C. çç[HK1_DMP_CHK_FLG] EQ NON
0061 . C. RAM ID=NMOGñî¼Ë¹ç•ë²îOKñò³îÇ$
0062 C.
0063 C. NMOG(0x210000-0x2100FF;$ 256byte)+OP(0x210100-0x2141FF: 16.25kbyte)
0064 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0065 BC (21 00 41 01 02)
0066 C. çç[HK1_DMP_TOP_ADRS_1] EQ 42
0067 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0068 C. çç[HK1_DMP_BLOCK_NUM] EQ 65
0069 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0070 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0071 +. DC 01-22 DHU_MODE_CHNG
0072 BC (07 0b f8)
0073 C. çç[HK1_PKT_FORM_NO] EQ 7
0074 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0075 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0076 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0077 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0078 . C. ŸÄŸóŸ×½ªî»ñò³îÇ$
0079 C. çç[HK1_DMP_CHK_FLG] EQ NON
0080 . C. RAM ID=NMOG,RAM ID=OPñî¼Ë¹ç•ë²îOKñò³îÇ$
0081 C.
0082 . C. ***** °Ë²¼ñî¼Ä´¶°ñËË¬ñ°Ä÷ç® (¾âµ-ŸÄŸóŸ×½è½çñòÄÓæñÇ½ªñ``ñë¼í¹çñÇñâ) *****
0083 C. DHUŸä;¼ŸÉ;Ë¼ý½,Ÿí;¼ŸÉ;ËñòÍäñ¹
0084 +. DC 01-22 DHU_MODE_CHNG
0085 BC (02 0a f8)
0086 C. çç[HK1_PKT_FORM_NO] EQ 2
0087 C. çç[HK1_PKT_GEN_TIME] EQ 0.5S
0088 C. çç[HK1_S_TLM_BIT_RATE] EQ 32K
0089 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0090 C.
0091 . C. *****
0092 C. TI-CMD SET (OPOG STOP/COPY/START)
0093 C. *****
0094 C.
0095 . C. NOTICE ;$ OPOG UPLOADñ¬Á÷ç®NGñî¼í¹ç;ç°Ë²¼ñîTI-CMDÁ÷ç®ñî¼Ä¹Ôñ•ñËñññ³ñË;£

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|      |        |                                                               |    |           |  |
|------|--------|---------------------------------------------------------------|----|-----------|--|
| 0096 | C.     |                                                               |    |           |  |
| 0097 | C.     |                                                               |    |           |  |
| 0098 | . C.   | TIY³¥P¥Ó¥£¤ðÄDİ; (UT)                                         |    |           |  |
| 0099 | + . TI | 2026-08-15 12:10:00.0                                         |    |           |  |
| 0100 | DC     | 01-B3 DHU_OP_STOP                                             |    |           |  |
| 0101 | C.     | ¢¢[HK1_TI_CMD_NUM]                                            | EQ | 1COUNTUP  |  |
| 0102 | C.     |                                                               |    |           |  |
| 0103 | + . TI | 2026-08-15 12:10:01.0                                         |    |           |  |
| 0104 | DC     | 01-B4 DHU_OP_COPY                                             |    |           |  |
| 0105 | C.     | ¢¢[HK1_TI_CMD_NUM]                                            | EQ | 1COUNTUP  |  |
| 0106 | C.     |                                                               |    |           |  |
| 0107 | + . TI | 2026-08-15 12:10:01.0                                         |    |           |  |
| 0108 | DC     | 01-B5 DHU_OPOG_COPY                                           |    |           |  |
| 0109 | C.     | ¢¢[HK1_TI_CMD_NUM]                                            | EQ | 1COUNTUP  |  |
| 0110 | C.     |                                                               |    |           |  |
| 0111 | + . TI | 2026-08-15 12:14:59.5                                         |    |           |  |
| 0112 | DC     | 01-B2 DHU_OP_START                                            |    |           |  |
| 0113 | C.     | ¢¢[HK1_TI_CMD_NUM]                                            | EQ | 1COUNTUP  |  |
| 0114 | C.     |                                                               |    |           |  |
| 0115 | C.     | °Ê²¼¤İÄê¼İİŃ¤İ¥Á¥\$¥Ã¥~¹àİÜ                                   |    |           |  |
| 0116 | C.     | ¢¢[HK1_TI_CMD_ENA/DIS]                                        | EQ | ENA       |  |
| 0117 | C.     | ¢¢[HK1_TI_CMD_NUM]                                            | EQ | 4         |  |
| 0118 | C.     | ¢¢[HK1_NEXT_EXEC_PIM]                                         | EQ | DHU       |  |
| 0119 | C.     | ¢¢[HK1_NEXT_EXEC_DC]                                          | EQ | 0xB3      |  |
| 0120 | C.     |                                                               |    |           |  |
| 0121 | . C.   | *****                                                         |    |           |  |
| 0122 | C.     | TIIÎ°è¥À¥ó¥×                                                  |    |           |  |
| 0123 | C.     | *****                                                         |    |           |  |
| 0124 | C.     |                                                               |    |           |  |
| 0125 | C.     | TI_TBL(0x03AB00-0x03AEFF;\$ 1024byte)                         |    |           |  |
| 0126 | + . DC | 01-23 DHU_DMA_DMP_PRM_SET                                     |    |           |  |
| 0127 | BC     | (03 ab 03 01 02)                                              |    |           |  |
| 0128 | C.     | ¢¢[HK1_DMP_TOP_ADRS_1]                                        | EQ | 07        |  |
| 0129 | C.     | ¢¢[HK1_DMP_TOP_ADRS_0]                                        | EQ | 2B        |  |
| 0130 | C.     | ¢¢[HK1_DMP_BLOCK_NUM]                                         | EQ | 3         |  |
| 0131 | C.     | ¢¢[HK1_DMP_REPEAT_NUM]                                        | EQ | 0         |  |
| 0132 | C.     | ¢¢[HK1_DMA_DMP_PIM]                                           | EQ | DHU       |  |
| 0133 | + . DC | 01-22 DHU_MODE_CHNG                                           |    |           |  |
| 0134 | BC     | (07 0b f8)                                                    |    |           |  |
| 0135 | C.     | ¢¢[HK1_PKT_FORM_NO]                                           | EQ | 7         |  |
| 0136 | C.     | ¢¢[HK1_PKT_GEN_TIME]                                          | EQ | 0.25 s    |  |
| 0137 | C.     | ¢¢[HK1_S_TLM_BIT_RATE]                                        | EQ | 32k       |  |
| 0138 | C.     | ¢¢[HK1_X_TLM_BIT_RATE]                                        | EQ | 4M        |  |
| 0139 | C.     | ¢¢[HK1_DMP_CHK_FLG]                                           | EQ | EXEC      |  |
| 0140 | C.     |                                                               |    |           |  |
| 0141 | . C.   | ¥À¥ó¥×½ªİ»¤ò³İÇ\$                                             |    |           |  |
| 0142 | C.     | ¢¢[HK1_DMP_CHK_FLG]                                           | EQ | NON       |  |
| 0143 | C.     |                                                               |    |           |  |
| 0144 | . C.   | RAM ID=TI_TBL¤İ¾È¹Ç•ë²İOK¤ò³İÇ\$                              |    |           |  |
| 0145 | C.     |                                                               |    |           |  |
| 0146 | . C.   | DHUYâ;¼¥É;Ê¼¥½,¥İ;¼¥É;Ë¤òİá¤¹                                 |    |           |  |
| 0147 | + . DC | 01-22 DHU_MODE_CHNG                                           |    |           |  |
| 0148 | BC     | (02 0a f8)                                                    |    |           |  |
| 0149 | C.     | ¢¢[HK1_PKT_FORM_NO]                                           | EQ | 2         |  |
| 0150 | C.     | ¢¢[HK1_PKT_GEN_TIME]                                          | EQ | 0.5S      |  |
| 0151 | C.     | ¢¢[HK1_S_TLM_BIT_RATE]                                        | EQ | 32K       |  |
| 0152 | C.     | ¢¢[HK1_X_TLM_BIT_RATE]                                        | EQ | 4M        |  |
| 0153 | C.     |                                                               |    |           |  |
| 0154 | C.     | *****                                                         |    |           |  |
| 0155 | C.     | SOT TI command set                                            |    |           |  |
| 0156 | C.     | *****                                                         |    |           |  |
| 0157 | C.     | Execute, after the success of OP upload.                      |    |           |  |
| 0158 | + . TI | 2026-08-15 12:14:16.0                                         |    |           |  |
| 0159 | DC     | 07-F0 MDP_SOT_MODE_STBY                                       |    |           |  |
| 0160 | BC     | (41)                                                          |    |           |  |
| 0161 | . C.   | -----                                                         |    |           |  |
| 0162 | C.     | HK1_TI_CMD_NUM = 1 CNTUP [ ]                                  |    |           |  |
| 0163 | C.     | -----                                                         |    |           |  |
| 0164 | C.     | ***** SOT END *****                                           |    |           |  |
| 0165 | . C.   | Stop EIS observation and temporarily disable EIS mode changes |    |           |  |
| 0166 | C.     |                                                               |    |           |  |
| 0167 | C.     |                                                               |    |           |  |
| 0168 | C.     | ***** Start EIS operation (TI set) *****                      |    |           |  |
| 0169 | C.     | Execute, after the success of OP upload.                      |    |           |  |
| 0170 | C.     | Set EIS TI-commands                                           |    |           |  |
| 0171 | + . TI | 2026-08-15 12:14:30.0                                         |    |           |  |
| 0172 | DC     | 07-FC EIS_MODE_MANU                                           |    |           |  |
| 0173 | BC     | (21 02)                                                       |    |           |  |
| 0174 | + . TI | 2026-08-15 12:14:40.0                                         |    |           |  |
| 0175 | DC     | 07-FC EIS_MODE_CHG_DIS                                        |    |           |  |
| 0176 | BC     | (22)                                                          |    |           |  |
| 0177 | . C.   | [ ] [HK1_TI_CMD_NUM]                                          | EQ | 2 COUNTUP |  |
| 0178 | C.     | ***** End EIS operation (TI set) *****                        |    |           |  |
| 0179 | C.     |                                                               |    |           |  |
| 0180 | C.     |                                                               |    |           |  |
| 0181 | C.     |                                                               |    |           |  |
| 0182 | C.     | ***** XRT START *****                                         |    |           |  |
| 0183 | C.     | Execute, after the success of OP upload.                      |    |           |  |
| 0184 | + . TI | 2026-08-15 12:14:00.0                                         |    |           |  |
| 0185 | DC     | 07-F0 MDP_XRT_MODE_STBY                                       |    |           |  |
| 0186 | BC     | (c3                                                           |    |           |  |

```
0194      (MDP_known_event)
0195      C.
0196      C.
0197      . C. ***** ¥ÐŸ!•İ Daily±ĭĨñÈ´Ø▯¹▯ēDCBC•×²è *****
0198      . S. DC-BC dcbc-153:DCBC
0199      (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0200      C.
0201      C.
0202      . C. ;ãLOS¥Á¥$¥Ã¥⁻¼Â»Ü;ä
0203      C.
0204      . C. ***** LOS *****
0205      C.
```

(a) Spacecraft Operation Procedure (real-commands)

```
main-165 2026-08-15 12:34:41 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 35s
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 2026-08-15 12:14:50.0
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°íŸóŸÄŸËŸŸŸËŸäŸÇŸè»Ë½¼»¼Ä»Ü»¹»è)
0073 . S. DC-BC dcbc-402:DCBC
0074 (MDP_known_event)
0075 C.
0076 C.
0077 . C. ***** ŸÐŸ¹•Ï 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.
```

```
main-166 2026-08-15 12:34:41 134 33 SOLAR-B MAIN //
```

```

0094 + DC 07-F0 MDP_XRT_FLRCTRL_ENA
0095 BC (c8)

```

```
0096 + DC 07-F0 MDP_XRT_ARS_DIS
0097 BC (d5)
0098 + DC 07-F0 MDP_XRT_AEC_RESET
0099 BC (d0)
0100 + DC 07-F0 MDP_XRT_FLD_RESET
0101 BC (da)
0102 + DC 07-F0 MDP_XRT_QT_PROG_SET
0103 BC (c4 01)
0104 + DC 07-F0 MDP_XRT_FL_PROG_SET
0105 BC (c5 0e)
0106 . C. ----- Success Verify ? OK / NG ____
0107 C.
0108 C.
0109 . C. All OK? Yes--> Please Proceed. / No --> Stop here.
0110 C.
0111 + DC 07-F0 MDP_XRT_MODE_OBSV
0112 BC (c2)
0113 + TI 2026-08-15 12:14:02.0
0114 DC 07-F0 MDP_XRT_MODE_OBSV
0115 BC (c2)
0116 . C. ----- Success Verify ? OK / NG ____
0117 C.
0118 C. ***** XRT END *****
0119 C.
0120 . C. ***** MDP 'ûÃîñî»ö¼ýñÊÂðñ¹ñÐDCBC•x²è *****
0121 C. (¼å°îÿÓÿÃÿÊÿÐÿËÿÂÿÇÿËñÊ¼¼ñ¼Ã»Ûñ¹ñË)
0122 . S. DC-BC dcbc-402:DCBC
0123 (MDP_known_event)
0124 C.
0125 C.
0126 . C. ***** ¥Ðÿ¹•Ï Daily±¿ÍÑñÊ´Øñ¹ñÐDCBC•x²è *****
0127 . S. DC-BC dcbc-153:DCBC
0128 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0129 C.
0130 C.
0131 . C. ;ãLOS¥Á¥$¥Ã¥´¼Ã»Û;ä
0132 C.
0133 . C. ***** LOS *****
0134 C.
```

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\*\*\* OP Sequence for XRT \*\*\*

|            |            |                                   |   |       |                |
|------------|------------|-----------------------------------|---|-------|----------------|
| 2026/08/15 | 12:24:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/08/15 | 12:24:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/08/15 | 12:24:58.0 | XRT_FOCUS_POSITION_414_OG [0x19e] |   |       |                |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |
| 2026/08/15 | 12:25:00.0 | AOCS_ORe-point_Start_1_OG [0x097] |   |       |                |
|            |            | AOCU_NM                           | 5 | 02-76 | 03 04 31 01 ca |
| 2026/08/15 | 12:25:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |
| 2026/08/15 | 12:25:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |
| 2026/08/15 | 12:25:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |
| 2026/08/15 | 12:25:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |
| 2026/08/15 | 12:25:26.0 | XRT_FLD_RESET_401_OG [0x191]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/08/15 | 12:27:56.0 | XRT_QT_PROG_SET_447_OG [0x1bf]    |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 09          |
| 2026/08/15 | 12:27:58.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    |   |       |                |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 0e          |
| 2026/08/15 | 12:31:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2026/08/15 | 12:32:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2026/08/15 | 13:47:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/08/15 | 13:47:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/08/15 | 13:47:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/08/15 | 13:47:06.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2026/08/15 | 13:50:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2026/08/15 | 14:09:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2026/08/15 | 14:10:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2026/08/15 | 15:25:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/08/15 | 15:25:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/08/15 | 15:25:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/08/15 | 15:25:06.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2026/08/15 | 15:28:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2026/08/15 | 15:49:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2026/08/15 | 15:50:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2026/08/15 | 16:29:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/08/15 | 16:29:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/08/15 | 16:29:58.0 | XRT_FOCUS_POSITION_406_OG [0x196] |   |       |                |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |
| 2026/08/15 | 16:30:00.0 | AOCS_ORe-point_Start_2_OG [0x098] |   |       |                |
|            |            | AOCU_NM                           | 5 | 02-76 | 02 04 31 01 ca |
| 2026/08/15 | 16:30:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |
| 2026/08/15 | 16:30:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |
| 2026/08/15 | 16:30:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |
| 2026/08/15 | 16:30:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |
| 2026/08/15 | 16:30:26.0 | XRT_FLD_RESET_401_OG [0x191]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/08/15 | 16:32:56.0 | XRT_QT_PROG_SET_441_OG [0x1b9]    |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 0d          |
| 2026/08/15 | 16:32:58.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    |   |       |                |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 0e          |
| 2026/08/15 | 16:33:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2026/08/15 | 17:03:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/08/15 | 17:03:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/08/15 | 17:03:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/08/15 | 17:03:06.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2026/08/15 | 17:06:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2026/08/15 | 17:36:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2026/08/15 | 17:37:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2026/08/15 | 18:06:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/08/15 | 18:06:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |

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|            |            |                                   |   |       |                |
|------------|------------|-----------------------------------|---|-------|----------------|
| 2026/08/15 | 18:06:58.0 | XRT_FOCUS_POSITION_406_OG [0x196] | 1 | 07-F0 | c1             |
| 2026/08/15 | 18:07:00.0 | AOCs_Ore-point_Start_3_OG [0x099] | 4 | 07-F8 | 22 ff aa 00    |
| 2026/08/15 | 18:07:18.0 | XRT_FLD_DIS_409_OG [0x199]        | 5 | 02-76 | 00 00 00 00    |
| 2026/08/15 | 18:07:20.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]    | 1 | 07-F0 | d9             |
| 2026/08/15 | 18:07:22.0 | XRT_ARS_DIS_420_OG [0x1a4]        | 1 | 07-F0 | d5             |
| 2026/08/15 | 18:09:58.0 | XRT_QT_PROG_SET_435_OG [0x1b3]    | 2 | 07-F0 | c4 04          |
| 2026/08/15 | 18:10:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      | 1 | 07-F0 | c0             |
| 2026/08/15 | 18:16:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | 1 | 07-F0 | c1             |
| 2026/08/15 | 18:16:56.0 | XRT_CTRL_MANU_402_OG [0x192]      | 1 | 07-F0 | c1             |
| 2026/08/15 | 18:16:58.0 | XRT_FOCUS_POSITION_406_OG [0x196] | 4 | 07-F8 | 22 ff aa 00    |
| 2026/08/15 | 18:17:00.0 | AOCs_Ore-point_Start_2_OG [0x098] | 5 | 02-76 | 02 04 31 01 ca |
| 2026/08/15 | 18:17:18.0 | XRT_FLD_ENA_411_OG [0x19b]        | 1 | 07-F0 | d8             |
| 2026/08/15 | 18:17:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | 1 | 07-F0 | c8             |
| 2026/08/15 | 18:17:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      | 1 | 07-F0 | d0             |
| 2026/08/15 | 18:17:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        | 1 | 07-F0 | d5             |
| 2026/08/15 | 18:17:26.0 | XRT_FLD_RESET_401_OG [0x191]      | 1 | 07-F0 | da             |
| 2026/08/15 | 18:19:56.0 | XRT_QT_PROG_SET_441_OG [0x1b9]    | 2 | 07-F0 | c4 0d          |
| 2026/08/15 | 18:19:58.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    | 2 | 07-F0 | c5 0e          |
| 2026/08/15 | 18:20:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      | 1 | 07-F0 | c0             |
| 2026/08/15 | 18:41:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | 1 | 07-F0 | c1             |
| 2026/08/15 | 18:41:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | 1 | 07-F0 | c1             |
| 2026/08/15 | 18:41:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | 1 | 07-F0 | da             |
| 2026/08/15 | 18:41:06.0 | XRT_PREFLR_STRT_404_OG [0x194]    | 1 | 07-F0 | e8             |
| 2026/08/15 | 18:44:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | 1 | 07-F0 | e9             |
| 2026/08/15 | 19:13:00.0 | XRT_Custom_430_OG [0x1ae]         | 1 | 07-F0 | c0             |
| 2026/08/15 | 19:14:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | 1 | 07-F0 | c0             |
| 2026/08/15 | 20:19:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | 1 | 07-F0 | c1             |
| 2026/08/15 | 20:19:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | 1 | 07-F0 | c1             |
| 2026/08/15 | 20:19:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | 1 | 07-F0 | da             |
| 2026/08/15 | 20:19:36.0 | XRT_PREFLR_STRT_404_OG [0x194]    | 1 | 07-F0 | e8             |
| 2026/08/15 | 20:22:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | 1 | 07-F0 | e9             |
| 2026/08/15 | 20:49:30.0 | XRT_Custom_430_OG [0x1ae]         | 1 | 07-F0 | c0             |
| 2026/08/15 | 20:50:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | 1 | 07-F0 | c0             |
| 2026/08/15 | 21:57:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | 1 | 07-F0 | c1             |
| 2026/08/15 | 21:57:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | 1 | 07-F0 | c1             |
| 2026/08/15 | 21:57:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | 1 | 07-F0 | da             |
| 2026/08/15 | 21:57:36.0 | XRT_PREFLR_STRT_404_OG [0x194]    | 1 | 07-F0 | e8             |
| 2026/08/15 | 22:00:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | 1 | 07-F0 | e9             |
| 2026/08/15 | 22:29:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | 1 | 07-F0 | c1             |
| 2026/08/15 | 22:29:56.0 | XRT_CTRL_MANU_402_OG [0x192]      | 1 | 07-F0 | c1             |
| 2026/08/15 | 22:29:58.0 | XRT_FOCUS_POSITION_414_OG [0x19e] | 4 | 07-F8 | 22 fe 97 00    |
| 2026/08/15 | 22:30:00.0 | AOCs_Ore-point_Start_1_OG [0x097] | 5 | 02-76 | 03 04 31 01 ca |
| 2026/08/15 | 22:30:18.0 | XRT_FLD_ENA_411_OG [0x19b]        | 1 | 07-F0 | d8             |
| 2026/08/15 | 22:30:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | 1 | 07-F0 | c8             |
| 2026/08/15 | 22:30:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      | 1 | 07-F0 | d0             |
| 2026/08/15 | 22:30:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        | 1 | 07-F0 | d5             |
| 2026/08/15 | 22:30:26.0 | XRT_FLD_RESET_401_OG [0x191]      | 1 | 07-F0 | da             |

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|            |            |                                   |   |       |    |    |    |    |    |
|------------|------------|-----------------------------------|---|-------|----|----|----|----|----|
| 2026/08/15 | 22:32:56.0 | XRT_QT_PROG_SET_447_OG [0x1bf]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 | 09 |    |    |    |
| 2026/08/15 | 22:32:58.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 | 0e |    |    |    |
| 2026/08/15 | 22:33:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |    |    |    |    |
| 2026/08/15 | 23:35:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2026/08/15 | 23:35:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2026/08/15 | 23:35:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |    |    |    |    |
| 2026/08/15 | 23:35:36.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8 |    |    |    |    |
| 2026/08/15 | 23:38:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9 |    |    |    |    |
| 2026/08/16 | 00:01:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |    |    |    |    |    |
| 2026/08/16 | 00:02:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |    |    |    |    |
| 2026/08/16 | 01:13:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2026/08/16 | 01:13:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2026/08/16 | 01:13:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |    |    |    |    |
| 2026/08/16 | 01:13:36.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8 |    |    |    |    |
| 2026/08/16 | 01:16:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9 |    |    |    |    |
| 2026/08/16 | 01:36:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |    |    |    |    |    |
| 2026/08/16 | 01:37:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |    |    |    |    |
| 2026/08/16 | 02:41:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2026/08/16 | 02:41:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2026/08/16 | 02:41:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |    |    |    |    |
| 2026/08/16 | 02:41:06.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8 |    |    |    |    |
| 2026/08/16 | 02:44:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9 |    |    |    |    |
| 2026/08/16 | 03:14:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |    |    |    |    |    |
| 2026/08/16 | 03:15:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |    |    |    |    |
| 2026/08/16 | 03:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2026/08/16 | 03:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2026/08/16 | 03:59:58.0 | XRT_FOCUS_POSITION_406_OG [0x196] |   |       |    |    |    |    |    |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 | ff | aa | 00 |    |
| 2026/08/16 | 04:00:00.0 | AOCs_ORe-point_Start_3_OG [0x099] |   |       |    |    |    |    |    |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 | 00 | 00 | 00 | 00 |
| 2026/08/16 | 04:00:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8 |    |    |    |    |
| 2026/08/16 | 04:00:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8 |    |    |    |    |
| 2026/08/16 | 04:00:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0 |    |    |    |    |
| 2026/08/16 | 04:00:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |    |    |    |    |    |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5 |    |    |    |    |
| 2026/08/16 | 04:00:26.0 | XRT_FLD_RESET_401_OG [0x191]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |    |    |    |    |
| 2026/08/16 | 04:02:56.0 | XRT_QT_PROG_SET_429_OG [0x1ad]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 | 06 |    |    |    |
| 2026/08/16 | 04:02:58.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 | 0e |    |    |    |
| 2026/08/16 | 04:03:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |    |    |    |    |
| 2026/08/16 | 04:15:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2026/08/16 | 04:15:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2026/08/16 | 04:15:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |    |    |    |    |
| 2026/08/16 | 04:15:36.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8 |    |    |    |    |
| 2026/08/16 | 04:18:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9 |    |    |    |    |
| 2026/08/16 | 04:52:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |    |    |    |    |    |
| 2026/08/16 | 04:53:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |    |    |    |    |
| 2026/08/16 | 05:45:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2026/08/16 | 05:45:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2026/08/16 | 05:45:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |    |    |    |    |
| 2026/08/16 | 05:45:36.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8 |    |    |    |    |
| 2026/08/16 | 05:48:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9 |    |    |    |    |
| 2026/08/16 | 06:30:24.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |    |    |    |    |    |

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|            |            |                                   |                           |   |       |                |
|------------|------------|-----------------------------------|---------------------------|---|-------|----------------|
| 2026/08/16 | 06:30:26.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
| 2026/08/16 | 06:30:28.0 | XRT_FOCUS_POSITION_406_OG [0x196] | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
| 2026/08/16 | 06:30:30.0 | AOCs_Ore-point_Start_3_OG [0x099] | XRT_FOCUS_POSITION        | 4 | 07-F8 | 22 ff aa 00    |
| 2026/08/16 | 06:30:48.0 | XRT_FLD_DIS_409_OG [0x199]        | AOCU_NM                   | 5 | 02-76 | 00 00 00 00 00 |
| 2026/08/16 | 06:30:50.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]    | MDP_XRT_FLD_DIS           | 1 | 07-F0 | d9             |
| 2026/08/16 | 06:30:52.0 | XRT_ARS_DIS_420_OG [0x1a4]        | MDP_XRT_FLRCTRL_DIS       | 1 | 07-F0 | c9             |
| 2026/08/16 | 06:33:28.0 | XRT_QT_PROG_SET_435_OG [0x1b3]    | MDP_XRT_ARS_DIS           | 1 | 07-F0 | d5             |
| 2026/08/16 | 06:33:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_QT_PROG_SET       | 2 | 07-F0 | c4 04          |
| 2026/08/16 | 06:40:24.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_AUTO         | 1 | 07-F0 | c0             |
| 2026/08/16 | 06:40:26.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
| 2026/08/16 | 06:40:28.0 | XRT_FOCUS_POSITION_414_OG [0x19e] | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
| 2026/08/16 | 06:40:30.0 | AOCs_Ore-point_Start_1_OG [0x097] | XRT_FOCUS_POSITION        | 4 | 07-F8 | 22 fe 97 00    |
| 2026/08/16 | 06:40:48.0 | XRT_FLD_ENA_411_OG [0x19b]        | AOCU_NM                   | 5 | 02-76 | 03 04 31 01 ca |
| 2026/08/16 | 06:40:50.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_FLD_ENA           | 1 | 07-F0 | d8             |
| 2026/08/16 | 06:40:52.0 | XRT_AEC_RESET_448_OG [0x1c0]      | MDP_XRT_FLRCTRL_ENA       | 1 | 07-F0 | c8             |
| 2026/08/16 | 06:40:54.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_AEC_RESET         | 1 | 07-F0 | d0             |
| 2026/08/16 | 06:40:56.0 | XRT_FLD_RESET_401_OG [0x191]      | MDP_XRT_ARS_DIS           | 1 | 07-F0 | d5             |
| 2026/08/16 | 06:43:26.0 | XRT_QT_PROG_SET_447_OG [0x1bf]    | MDP_XRT_FLD_RESET         | 1 | 07-F0 | da             |
| 2026/08/16 | 06:43:28.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    | MDP_XRT_QT_PROG_SET       | 2 | 07-F0 | c4 09          |
| 2026/08/16 | 06:43:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_FL_PROG_SET       | 2 | 07-F0 | c5 0e          |
| 2026/08/16 | 07:25:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO         | 1 | 07-F0 | c0             |
| 2026/08/16 | 07:25:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
| 2026/08/16 | 07:25:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
| 2026/08/16 | 07:25:36.0 | XRT_PREFLR_STRT_404_OG [0x194]    | MDP_XRT_FLD_RESET         | 1 | 07-F0 | da             |
| 2026/08/16 | 07:28:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT       | 1 | 07-F0 | e8             |
| 2026/08/16 | 08:08:30.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STOP       | 1 | 07-F0 | e9             |
| 2026/08/16 | 08:09:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | XRT_Custom_430_OG [0x1ae] | 1 | 07-F0 | c0             |
| 2026/08/16 | 09:05:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO         | 1 | 07-F0 | c0             |
| 2026/08/16 | 09:05:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
| 2026/08/16 | 09:05:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
| 2026/08/16 | 09:05:06.0 | XRT_PREFLR_STRT_404_OG [0x194]    | MDP_XRT_FLD_RESET         | 1 | 07-F0 | da             |
| 2026/08/16 | 09:08:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT       | 1 | 07-F0 | e8             |
| 2026/08/16 | 09:46:30.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STOP       | 1 | 07-F0 | e9             |
| 2026/08/16 | 09:47:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | XRT_Custom_430_OG [0x1ae] | 1 | 07-F0 | c0             |
| 2026/08/16 | 10:45:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO         | 1 | 07-F0 | c0             |
| 2026/08/16 | 10:45:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
| 2026/08/16 | 10:45:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
| 2026/08/16 | 10:45:06.0 | XRT_PREFLR_STRT_404_OG [0x194]    | MDP_XRT_FLD_RESET         | 1 | 07-F0 | da             |
| 2026/08/16 | 10:48:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT       | 1 | 07-F0 | e8             |
| 2026/08/16 | 11:24:30.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STOP       | 1 | 07-F0 | e9             |
| 2026/08/16 | 11:25:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | XRT_Custom_430_OG [0x1ae] | 1 | 07-F0 | c0             |
| 2026/08/16 | 12:40:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO         | 1 | 07-F0 | c0             |
| 2026/08/16 | 12:40:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
| 2026/08/16 | 12:40:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
| 2026/08/16 | 12:40:36.0 | XRT_PREFLR_STRT_404_OG [0x194]    | MDP_XRT_FLD_RESET         | 1 | 07-F0 | da             |
| 2026/08/16 | 12:43:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT       | 1 | 07-F0 | e8             |
| 2026/08/16 | 13:02:30.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STOP       | 1 | 07-F0 | e9             |
| 2026/08/16 | 13:03:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | XRT_Custom_430_OG [0x1ae] | 1 | 07-F0 | c0             |
|            |            |                                   | MDP_XRT_CTRL_AUTO         | 1 | 07-F0 | c0             |

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|            |            |                                   |   |       |    |    |    |    |    |
|------------|------------|-----------------------------------|---|-------|----|----|----|----|----|
| 2026/08/16 | 18:20:26.0 | XRT_QT_PROG_SET_441_OG [0x1b9]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 | 0d |    |    |    |
| 2026/08/16 | 18:20:28.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 | 0e |    |    |    |
| 2026/08/16 | 18:20:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |    |    |    |    |
| 2026/08/16 | 19:13:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2026/08/16 | 19:13:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2026/08/16 | 19:13:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |    |    |    |    |
| 2026/08/16 | 19:13:06.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8 |    |    |    |    |
| 2026/08/16 | 19:16:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9 |    |    |    |    |
| 2026/08/16 | 19:44:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |    |    |    |    |    |
| 2026/08/16 | 19:45:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |    |    |    |    |
| 2026/08/16 | 20:51:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2026/08/16 | 20:51:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2026/08/16 | 20:51:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |    |    |    |    |
| 2026/08/16 | 20:51:06.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8 |    |    |    |    |
| 2026/08/16 | 20:54:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9 |    |    |    |    |
| 2026/08/16 | 21:21:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |    |    |    |    |    |
| 2026/08/16 | 21:22:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |    |    |    |    |
| 2026/08/16 | 22:29:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2026/08/16 | 22:29:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2026/08/16 | 22:29:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |    |    |    |    |
| 2026/08/16 | 22:29:36.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8 |    |    |    |    |
| 2026/08/16 | 22:29:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2026/08/16 | 22:29:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2026/08/16 | 22:29:58.0 | XRT_FOCUS_POSITION_414_OG [0x19e] |   |       |    |    |    |    |    |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 | fe | 97 | 00 |    |
| 2026/08/16 | 22:30:00.0 | AOCs_Or-point_Start_1_OG [0x097]  |   |       |    |    |    |    |    |
|            |            | AOCU_NM                           | 5 | 02-76 | 03 | 04 | 31 | 01 | ca |
| 2026/08/16 | 22:30:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8 |    |    |    |    |
| 2026/08/16 | 22:30:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8 |    |    |    |    |
| 2026/08/16 | 22:30:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0 |    |    |    |    |
| 2026/08/16 | 22:30:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |    |    |    |    |    |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5 |    |    |    |    |
| 2026/08/16 | 22:30:26.0 | XRT_FLD_RESET_401_OG [0x191]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |    |    |    |    |
| 2026/08/16 | 22:32:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9 |    |    |    |    |
| 2026/08/16 | 22:32:56.0 | XRT_QT_PROG_SET_447_OG [0x1bf]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 | 09 |    |    |    |
| 2026/08/16 | 22:32:58.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 | 0e |    |    |    |
| 2026/08/16 | 22:57:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |    |    |    |    |    |
| 2026/08/16 | 22:58:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |    |    |    |    |
| 2026/08/17 | 00:07:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2026/08/17 | 00:07:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2026/08/17 | 00:07:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |    |    |    |    |
| 2026/08/17 | 00:07:36.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8 |    |    |    |    |
| 2026/08/17 | 00:10:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9 |    |    |    |    |
| 2026/08/17 | 00:29:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |    |    |    |    |    |
| 2026/08/17 | 00:30:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |    |    |    |    |
| 2026/08/17 | 01:45:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2026/08/17 | 01:45:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2026/08/17 | 01:45:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |    |    |    |    |
| 2026/08/17 | 01:45:36.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8 |    |    |    |    |
| 2026/08/17 | 01:48:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9 |    |    |    |    |
| 2026/08/17 | 02:07:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |    |    |    |    |    |
| 2026/08/17 | 02:08:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |    |    |    |    |

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|            |            |                                   |   |       |                |  |  |  |  |
|------------|------------|-----------------------------------|---|-------|----------------|--|--|--|--|
| 2026/08/17 | 03:10:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2026/08/17 | 03:10:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2026/08/17 | 03:10:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2026/08/17 | 03:10:36.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2026/08/17 | 03:13:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2026/08/17 | 03:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2026/08/17 | 03:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2026/08/17 | 03:59:58.0 | XRT_FOCUS_POSITION_406_OG [0x196] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |  |  |  |  |
| 2026/08/17 | 04:00:00.0 | AOCS_ORe-point_Start_3_OG [0x099] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 00 00 00 00 |  |  |  |  |
| 2026/08/17 | 04:00:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |  |  |  |
| 2026/08/17 | 04:00:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |  |  |  |
| 2026/08/17 | 04:00:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |  |  |  |  |
| 2026/08/17 | 04:00:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2026/08/17 | 04:00:26.0 | XRT_FLD_RESET_401_OG [0x191]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2026/08/17 | 04:02:56.0 | XRT_QT_PROG_SET_429_OG [0x1ad]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 06          |  |  |  |  |
| 2026/08/17 | 04:02:58.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 0e          |  |  |  |  |
| 2026/08/17 | 04:03:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2026/08/17 | 04:40:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2026/08/17 | 04:40:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2026/08/17 | 04:40:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2026/08/17 | 04:40:06.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2026/08/17 | 04:43:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2026/08/17 | 05:23:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2026/08/17 | 05:24:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2026/08/17 | 05:50:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2026/08/17 | 05:50:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2026/08/17 | 05:50:58.0 | XRT_FOCUS_POSITION_406_OG [0x196] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |  |  |  |  |
| 2026/08/17 | 05:51:00.0 | AOCS_ORe-point_Start_3_OG [0x099] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 00 00 00 00 |  |  |  |  |
| 2026/08/17 | 05:51:18.0 | XRT_FLD_DIS_409_OG [0x199]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9             |  |  |  |  |
| 2026/08/17 | 05:51:20.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9             |  |  |  |  |
| 2026/08/17 | 05:51:22.0 | XRT_ARS_DIS_420_OG [0x1a4]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2026/08/17 | 05:53:58.0 | XRT_QT_PROG_SET_435_OG [0x1b3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 04          |  |  |  |  |
| 2026/08/17 | 05:54:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2026/08/17 | 06:00:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2026/08/17 | 06:00:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2026/08/17 | 06:00:58.0 | XRT_FOCUS_POSITION_414_OG [0x19e] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |  |  |  |  |
| 2026/08/17 | 06:01:00.0 | AOCS_ORe-point_Start_1_OG [0x097] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 03 04 31 01 ca |  |  |  |  |
| 2026/08/17 | 06:01:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |  |  |  |
| 2026/08/17 | 06:01:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |  |  |  |
| 2026/08/17 | 06:01:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |  |  |  |  |
| 2026/08/17 | 06:01:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2026/08/17 | 06:01:26.0 | XRT_FLD_RESET_401_OG [0x191]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2026/08/17 | 06:03:56.0 | XRT_QT_PROG_SET_447_OG [0x1bf]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 09          |  |  |  |  |
| 2026/08/17 | 06:03:58.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 0e          |  |  |  |  |
| 2026/08/17 | 06:04:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2026/08/17 | 06:17:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2026/08/17 | 06:17:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |

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|            |            |                                   |   |       |                |
|------------|------------|-----------------------------------|---|-------|----------------|
| 2026/08/17 | 06:17:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/08/17 | 06:17:36.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2026/08/17 | 06:20:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2026/08/17 | 07:02:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2026/08/17 | 07:03:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2026/08/17 | 07:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/08/17 | 07:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/08/17 | 07:59:58.0 | XRT_FOCUS_POSITION_414_OG [0x19e] |   |       |                |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |
| 2026/08/17 | 08:00:00.0 | AOCS_ORe-point_Start_1_OG [0x097] |   |       |                |
|            |            | AOCU_NM                           | 5 | 02-76 | 03 04 31 01 ca |
| 2026/08/17 | 08:00:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |
| 2026/08/17 | 08:00:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |
| 2026/08/17 | 08:00:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |
| 2026/08/17 | 08:00:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |
| 2026/08/17 | 08:00:26.0 | XRT_FLD_RESET_401_OG [0x191]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/08/17 | 08:02:56.0 | XRT_QT_PROG_SET_445_OG [0x1bd]    |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 01          |
| 2026/08/17 | 08:02:58.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    |   |       |                |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 0e          |
| 2026/08/17 | 08:40:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2026/08/17 | 08:41:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2026/08/17 | 09:37:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/08/17 | 09:37:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/08/17 | 09:37:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/08/17 | 09:37:06.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2026/08/17 | 09:40:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2026/08/17 | 10:18:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2026/08/17 | 10:19:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2026/08/17 | 11:18:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/08/17 | 11:18:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/08/17 | 11:18:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/08/17 | 11:18:06.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2026/08/17 | 11:21:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2026/08/17 | 11:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/08/17 | 11:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/08/17 | 11:59:58.0 | XRT_FOCUS_POSITION_414_OG [0x19e] |   |       |                |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |
| 2026/08/17 | 12:00:00.0 | AOCS_ORe-point_Start_1_OG [0x097] |   |       |                |
|            |            | AOCU_NM                           | 5 | 02-76 | 03 04 31 01 ca |
| 2026/08/17 | 12:00:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |
| 2026/08/17 | 12:00:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |
| 2026/08/17 | 12:00:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |
| 2026/08/17 | 12:00:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |
| 2026/08/17 | 12:00:26.0 | XRT_FLD_RESET_401_OG [0x191]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/08/17 | 12:02:56.0 | XRT_QT_PROG_SET_447_OG [0x1bf]    |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 09          |
| 2026/08/17 | 12:02:58.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    |   |       |                |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 0e          |
| 2026/08/17 | 12:03:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2026/08/17 | 13:12:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/08/17 | 13:12:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/08/17 | 13:12:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/08/17 | 13:12:36.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2026/08/17 | 13:15:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2026/08/17 | 13:34:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2026/08/17 | 13:35:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |

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|            |            |                                   |                     |   |       |                |  |
|------------|------------|-----------------------------------|---------------------|---|-------|----------------|--|
| 2026/08/17 | 14:50:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |
|            |            |                                   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2026/08/17 | 14:50:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2026/08/17 | 14:50:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |
| 2026/08/17 | 14:50:36.0 | XRT_PREFLR_STRT_404_OG [0x194]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |
| 2026/08/17 | 14:53:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |
| 2026/08/17 | 15:12:30.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |                |  |
| 2026/08/17 | 15:13:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |
| 2026/08/17 | 16:19:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2026/08/17 | 16:19:56.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2026/08/17 | 16:19:58.0 | XRT_FOCUS_POSITION_406_OG [0x196] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa 00    |  |
| 2026/08/17 | 16:20:00.0 | AOCS_Ore-point_Start_3_OG [0x099] | AOCU_NM             | 5 | 02-76 | 00 00 00 00 00 |  |
| 2026/08/17 | 16:20:18.0 | XRT_FLD_DIS_409_OG [0x199]        | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9             |  |
| 2026/08/17 | 16:20:20.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]    | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9             |  |
| 2026/08/17 | 16:20:22.0 | XRT_ARS_DIS_420_OG [0x1a4]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |  |
| 2026/08/17 | 16:22:58.0 | XRT_QT_PROG_SET_435_OG [0x1b3]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 04          |  |
| 2026/08/17 | 16:23:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |
| 2026/08/17 | 16:29:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2026/08/17 | 16:29:56.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2026/08/17 | 16:29:58.0 | XRT_FOCUS_POSITION_406_OG [0x196] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa 00    |  |
| 2026/08/17 | 16:30:00.0 | AOCS_Ore-point_Start_2_OG [0x098] | AOCU_NM             | 5 | 02-76 | 02 04 31 01 ca |  |
| 2026/08/17 | 16:30:18.0 | XRT_FLD_ENA_411_OG [0x19b]        | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |  |
| 2026/08/17 | 16:30:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |  |
| 2026/08/17 | 16:30:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |  |
| 2026/08/17 | 16:30:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |  |
| 2026/08/17 | 16:30:26.0 | XRT_FLD_RESET_401_OG [0x191]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |
| 2026/08/17 | 16:32:56.0 | XRT_QT_PROG_SET_441_OG [0x1b9]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 0d          |  |
| 2026/08/17 | 16:32:58.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 0e          |  |
| 2026/08/17 | 17:02:30.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |                |  |
| 2026/08/17 | 17:03:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |
| 2026/08/17 | 18:07:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2026/08/17 | 18:07:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2026/08/17 | 18:07:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |
| 2026/08/17 | 18:07:06.0 | XRT_PREFLR_STRT_404_OG [0x194]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |
| 2026/08/17 | 18:10:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |
| 2026/08/17 | 18:39:00.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |                |  |
| 2026/08/17 | 18:40:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |
| 2026/08/17 | 19:39:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2026/08/17 | 19:39:56.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2026/08/17 | 19:39:58.0 | XRT_FOCUS_POSITION_406_OG [0x196] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa 00    |  |
| 2026/08/17 | 19:40:00.0 | AOCS_Ore-point_Start_4_OG [0x09a] | AOCU_NM             | 5 | 02-76 | 04 04 31 01 ca |  |
| 2026/08/17 | 19:40:18.0 | XRT_FLD_ENA_411_OG [0x19b]        | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |  |
| 2026/08/17 | 19:40:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |  |
| 2026/08/17 | 19:40:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |  |
| 2026/08/17 | 19:40:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |  |
| 2026/08/17 | 19:40:26.0 | XRT_FLD_RESET_401_OG [0x191]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |
| 2026/08/17 | 19:42:56.0 | XRT_QT_PROG_SET_427_OG [0x1ab]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 0b          |  |
| 2026/08/17 | 19:42:58.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 0e          |  |
| 2026/08/17 | 19:45:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |                     |   |       |                |  |

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|            |            |                                   |                     |   |       |                |  |
|------------|------------|-----------------------------------|---------------------|---|-------|----------------|--|
| 2026/08/17 | 19:45:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2026/08/17 | 19:45:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2026/08/17 | 19:45:06.0 | XRT_PREFLR_STRT_404_OG [0x194]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |
| 2026/08/17 | 19:48:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |
| 2026/08/17 | 20:15:00.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |
| 2026/08/17 | 20:16:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |
| 2026/08/17 | 21:23:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2026/08/17 | 21:23:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2026/08/17 | 21:23:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2026/08/17 | 21:23:06.0 | XRT_PREFLR_STRT_404_OG [0x194]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |
| 2026/08/17 | 21:26:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |
| 2026/08/17 | 21:51:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |
| 2026/08/17 | 21:51:56.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2026/08/17 | 21:51:58.0 | XRT_FOCUS_POSITION_406_OG [0x196] | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2026/08/17 | 21:52:18.0 | XRT_FLD_ENA_411_OG [0x19b]        | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa 00    |  |
| 2026/08/17 | 21:52:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |  |
| 2026/08/17 | 21:52:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |  |
| 2026/08/17 | 21:52:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |  |
| 2026/08/17 | 21:52:26.0 | XRT_FLD_RESET_401_OG [0x191]      | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |  |
| 2026/08/17 | 21:54:56.0 | XRT_QT_PROG_SET_441_OG [0x1b9]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |
| 2026/08/17 | 21:54:58.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 0d          |  |
| 2026/08/17 | 21:55:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 0e          |  |
| 2026/08/17 | 23:01:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |
| 2026/08/17 | 23:01:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2026/08/17 | 23:01:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2026/08/17 | 23:01:36.0 | XRT_PREFLR_STRT_404_OG [0x194]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |
| 2026/08/17 | 23:04:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |
| 2026/08/17 | 23:28:00.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |
| 2026/08/17 | 23:29:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |
| 2026/08/17 | 23:58:15.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2026/08/17 | 23:58:17.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2026/08/17 | 23:58:19.0 | XRT_FOCUS_POSITION_414_OG [0x19e] | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2026/08/17 | 23:58:21.0 | AOCS_ORe-point_Start_1_OG [0x097] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 fe 97 00    |  |
| 2026/08/17 | 23:58:39.0 | XRT_FLD_ENA_411_OG [0x19b]        | AOCU_NM             | 5 | 02-76 | 03 04 31 01 ca |  |
| 2026/08/17 | 23:58:41.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |  |
| 2026/08/17 | 23:58:43.0 | XRT_AEC_RESET_448_OG [0x1c0]      | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |  |
| 2026/08/17 | 23:58:45.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |  |
| 2026/08/17 | 23:58:47.0 | XRT_FLD_RESET_401_OG [0x191]      | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |  |
| 2026/08/18 | 00:01:17.0 | XRT_QT_PROG_SET_447_OG [0x1bf]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |
| 2026/08/18 | 00:01:19.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 09          |  |
| 2026/08/18 | 00:01:21.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 0e          |  |
| 2026/08/18 | 00:39:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |
| 2026/08/18 | 00:39:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2026/08/18 | 00:39:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2026/08/18 | 00:39:36.0 | XRT_PREFLR_STRT_404_OG [0x194]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |
| 2026/08/18 | 00:42:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |
| 2026/08/18 | 01:01:00.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |
| 2026/08/18 | 01:02:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |                     |   |       |                |  |

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|            |            |                                      |                     |   |       |                |
|------------|------------|--------------------------------------|---------------------|---|-------|----------------|
| 2026/08/18 | 02:09:00.0 | XRT_CTRL_MANU_400_OG [0x190]         | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2026/08/18 | 02:09:02.0 | XRT_CTRL_MANU_402_OG [0x192]         | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/08/18 | 02:09:04.0 | XRT_FLD_RESET_415_OG [0x19f]         | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/08/18 | 02:09:06.0 | XRT_PREFLR_STRT_404_OG [0x194]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2026/08/18 | 02:12:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]       | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2026/08/18 | 02:39:00.0 | XRT_Custom_430_OG [0x1ae]            | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2026/08/18 | 02:40:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]         |                     |   |       |                |
| 2026/08/18 | 03:41:00.0 | XRT_CTRL_MANU_400_OG [0x190]         | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2026/08/18 | 03:41:02.0 | XRT_CTRL_MANU_402_OG [0x192]         | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/08/18 | 03:41:04.0 | XRT_FLD_RESET_415_OG [0x19f]         | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/08/18 | 03:41:06.0 | XRT_PREFLR_STRT_404_OG [0x194]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2026/08/18 | 03:44:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]       | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2026/08/18 | 03:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]         | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2026/08/18 | 03:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]         | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/08/18 | 03:59:58.0 | XRT_FOCUS_POSITION_406_OG [0x196]    | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/08/18 | 04:00:00.0 | AOCS_Ore-point_Start_3_OG [0x099]    | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa 00    |
| 2026/08/18 | 04:00:18.0 | XRT_FLD_ENA_411_OG [0x19b]           | AOCU_NM             | 5 | 02-76 | 00 00 00 00 00 |
| 2026/08/18 | 04:00:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]       | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |
| 2026/08/18 | 04:00:22.0 | XRT_AEC_RESET_448_OG [0x1c0]         | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |
| 2026/08/18 | 04:00:24.0 | XRT_ARS_DIS_423_OG [0x1a7]           | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |
| 2026/08/18 | 04:00:26.0 | XRT_FLD_RESET_401_OG [0x191]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |
| 2026/08/18 | 04:02:56.0 | XRT_QT_PROG_SET_429_OG [0x1ad]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2026/08/18 | 04:02:58.0 | XRT_FL_PROG_SET_439_OG [0x1b7]       | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 06          |
| 2026/08/18 | 04:17:00.0 | XRT_Custom_430_OG [0x1ae]            | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 0e          |
| 2026/08/18 | 04:18:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]         |                     |   |       |                |
| 2026/08/18 | 05:09:30.0 | XRT_CTRL_MANU_400_OG [0x190]         | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2026/08/18 | 05:09:32.0 | XRT_CTRL_MANU_402_OG [0x192]         | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/08/18 | 05:09:34.0 | XRT_FLD_RESET_415_OG [0x19f]         | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/08/18 | 05:09:36.0 | XRT_PREFLR_STRT_404_OG [0x194]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2026/08/18 | 05:12:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]       | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2026/08/18 | 05:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]         | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2026/08/18 | 05:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]         | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/08/18 | 05:59:58.0 | XRT_CTRL_MANU_425_OG [0x1a9]         | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/08/18 | 06:00:00.0 | AOCS_Ore-point_Start_3_OG [0x099]    | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/08/18 | 06:00:08.0 | XRT_FOCUS_RECALIBRATE_407_OG [0x197] | AOCU_NM             | 5 | 02-76 | 00 00 00 00 00 |
| 2026/08/18 | 06:04:08.0 | XRT_FOCUS_POSITION_406_OG [0x196]    | XRT_FOCUS_RECAL     | 2 | 07-F8 | 78 00          |
| 2026/08/18 | 06:04:28.0 | XRT_FOCUS_POSITION_406_OG [0x196]    | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa 00    |
| 2026/08/18 | 06:04:48.0 | XRT_FLD_DIS_409_OG [0x199]           | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa 00    |
| 2026/08/18 | 06:04:50.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]       | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa 00    |
| 2026/08/18 | 06:04:52.0 | XRT_ARS_DIS_420_OG [0x1a4]           | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9             |
| 2026/08/18 | 06:07:28.0 | XRT_QT_PROG_SET_435_OG [0x1b3]       | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9             |
| 2026/08/18 | 06:07:30.0 | XRT_CTRL_AUTO_408_OG [0x198]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |
| 2026/08/18 | 06:09:54.0 | XRT_CTRL_MANU_402_OG [0x192]         | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 04          |
| 2026/08/18 | 06:09:56.0 | XRT_CTRL_MANU_402_OG [0x192]         | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2026/08/18 | 06:09:58.0 | XRT_CTRL_MANU_402_OG [0x192]         | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/08/18 | 06:10:00.0 | XRT_FOCUS_POSITION_414_OG [0x19e]    | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/08/18 | 06:10:18.0 | XRT_FLD_ENA_411_OG [0x19b]           | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 fe 97 00    |
| 2026/08/18 | 06:10:18.0 | XRT_FLD_ENA_411_OG [0x19b]           | AOCU_NM             | 5 | 02-76 | 03 04 31 01 ca |
| 2026/08/18 | 06:10:18.0 | XRT_FLD_ENA_411_OG [0x19b]           | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |

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|            |            |                                   |   |       |                |
|------------|------------|-----------------------------------|---|-------|----------------|
| 2026/08/18 | 06:10:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |
| 2026/08/18 | 06:10:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |
| 2026/08/18 | 06:10:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |
| 2026/08/18 | 06:10:26.0 | XRT_FLD_RESET_401_OG [0x191]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/08/18 | 06:12:56.0 | XRT_QT_PROG_SET_447_OG [0x1bf]    |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 09          |
| 2026/08/18 | 06:12:58.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    |   |       |                |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 0e          |
| 2026/08/18 | 06:13:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2026/08/18 | 06:49:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/08/18 | 06:49:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/08/18 | 06:49:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/08/18 | 06:49:36.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2026/08/18 | 06:52:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2026/08/18 | 07:33:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2026/08/18 | 07:34:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2026/08/18 | 08:29:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/08/18 | 08:29:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/08/18 | 08:29:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/08/18 | 08:29:36.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2026/08/18 | 08:32:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2026/08/18 | 09:11:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2026/08/18 | 09:12:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2026/08/18 | 10:09:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/08/18 | 10:09:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/08/18 | 10:09:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/08/18 | 10:09:06.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2026/08/18 | 10:12:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2026/08/18 | 10:49:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2026/08/18 | 10:50:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2026/08/18 | 11:51:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/08/18 | 11:51:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/08/18 | 11:51:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/08/18 | 11:51:36.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2026/08/18 | 11:54:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2026/08/18 | 12:52:00.0 | AOCS_ORe-point_Start_3_OG [0x099] |   |       |                |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 00 00 00 00 |