

# XRT Timeline to be uploaded on 2013/02/07

Period: 2013/02/07 10:09:00 - 2013/02/12 09:58:00

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Normal mode

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| XOB #190F: HOP81 2-filter - Ti/poly 8s, Al/mesh 4s, G-band - 384x384 45ms                       |  |  |  |     |  |      |   |       |  |      |  |         |  |                    |  |                  |  |          |  |
|---|--|--|--|-----|--|------|---|-------|--|------|--|---------|--|--------------------|--|------------------|--|----------|--|
| Term  |  | Pointing (x, y)                                    |  |     |  |      | Comment   |       |  |      |  |         |  |                    |  |                  |  |          |  |
| 02/07 10:22:00 - 02/07 16:18:54   |  | Fixed ( -15.0, -937.0)                             |  |     |  |      | # OP start + 10min, HOP 81, polar monitoring, S pole. |       |  |      |  |         |  |                    |  |                  |  |          |  |
| 02/08 10:34:00 - 02/08 13:30:54   |  | Track ( 100.5, -481.8) <sup>Ⓜ 02/08 10:31:00</sup> |  |     |  |      | * ToO HOP 227, on-disk jets.                          |       |  |      |  |         |  |                    |  |                  |  |          |  |
| <b>PROG= 15 Inf.-time(s)</b>  |  |  |  |     |  |      |   |       |  |      |  |         |  |                    |  |                  |  |          |  |
| └─ Subr= 1 1-time(s) 2.0sec   |  |  |  |     |  |      |   |       |  |      |  |         |  |                    |  |                  |  |          |  |
| └─ Seqn= 61 2-time(s) 2.0sec  |  |  |  |     |  |      |   |       |  |      |  |         |  |                    |  |                  |  |          |  |
| └─ Open/G-band Open/G-band close Safe Norm 63ms Obs 1x1 512x512 (1064, 1048) DPCM 0 0 2.0sec    |  |  |  |     |  |      |   |       |  |      |  |         |  |                    |  |                  |  |          |  |
| └─ Subr= 2 1-time(s) 2.0sec   |  |  |  |     |  |      |   |       |  |      |  |         |  |                    |  |                  |  |          |  |
| └─ Seqn= 62 1-time(s) 30.0sec   |  |  |  |     |  |      |   |       |  |      |  |         |  |                    |  |                  |  |          |  |
| └─ Open/G-band Open/G-band open Safe Norm 44ms Obs 1x1 384x384 (1064, 1048) Q=90 0 0 2.0sec     |  |  |  |     |  |      |   |       |  |      |  |         |  |                    |  |                  |  |          |  |
| └─ Subr= 3 30-time(s) 2.0sec  |  |  |  |     |  |      |   |       |  |      |  |         |  |                    |  |                  |  |          |  |
| └─ Seqn= 60 2-time(s) 30.0sec   |  |  |  |     |  |      |   |       |  |      |  |         |  |                    |  |                  |  |          |  |
| └─ Open/Al-mesh Open/Al-mesh close Safe Norm 4.00s Obs 1x1 384x384 (1064, 1048) Q=90 0 0 2.0sec |  |  |  |     |  |      |   |       |  |      |  |         |  |                    |  |                  |  |          |  |
| └─ Open/Ti-poly Open/Ti-poly close Safe Norm 4.00s Obs 1x1 384x384 (1064, 1048) Q=90 0 0 2.0sec |  |  |  |     |  |      |   |       |  |      |  |         |  |                    |  |                  |  |          |  |
| Default Filter  |  | Thicker Filter                                     |  | VLS |  | mode |   | image |  | Exp. |  | CCD Bin |  | ROI: size (center) |  | Comp. AEC Buffer |  | Interval |  |

| XOB #1962: AR Standard-B(Morphology) with PFB, thin-Be + multifilter context, 384x384 at 1064 1048, 120s-cad, shorter G-band (33ms) w/ G-Band VLS CL |  |  |  |     |  |      |                      |       |  |      |  |         |  |                    |  |                  |  |          |  |
|--|--|--|--|-----|--|------|----------------------|-------|--|------|--|---------|--|--------------------|--|------------------|--|----------|--|
| Term   |  | Pointing (x, y)                                    |  |     |  |      | Comment              |       |  |      |  |         |  |                    |  |                  |  |          |  |
| 02/07 16:22:00 - 02/07 17:58:54  |  | Track ( -536.6, 197.2) <sup>Ⓜ 02/07 16:19:00</sup> |  |     |  |      | * Track active area. |       |  |      |  |         |  |                    |  |                  |  |          |  |
| 02/08 06:13:00 - 02/08 10:24:00  |  | Track ( -423.8, 205.0) <sup>Ⓜ 02/08 06:10:00</sup> |  |     |  |      | # Cont.              |       |  |      |  |         |  |                    |  |                  |  |          |  |
| 02/08 13:34:00 - 02/08 18:01:24  |  | Track ( -360.7, 208.4) <sup>Ⓜ 02/08 13:31:00</sup> |  |     |  |      | * Track active area. |       |  |      |  |         |  |                    |  |                  |  |          |  |
| 02/09 05:45:00 - 02/09 09:20:00  |  | Track ( -215.8, 214.2) <sup>Ⓜ 02/09 05:42:00</sup> |  |     |  |      | # Cont.              |       |  |      |  |         |  |                    |  |                  |  |          |  |
| <b>PROG= 07 Inf.-time(s)</b>   |  |  |  |     |  |      |                      |       |  |      |  |         |  |                    |  |                  |  |          |  |
| └─ Subr= 1 1-time(s) 2.0sec  |  |  |  |     |  |      |                      |       |  |      |  |         |  |                    |  |                  |  |          |  |
| └─ Seqn=100 1-time(s) 2.0sec   |  |  |  |     |  |      |                      |       |  |      |  |         |  |                    |  |                  |  |          |  |
| └─ Open/Ti-poly Open/thick-Al close Safe Dark 16.0s Obs 1x1 384x384 (1064, 1048) Q=98 0 0 2.0sec   |  |  |  |     |  |      |                      |       |  |      |  |         |  |                    |  |                  |  |          |  |
| └─ Open/G-band Open/G-band open Safe Norm 32ms Obs 1x1 384x384 (1064, 1048) Q=98 0 0 2.0sec  |  |  |  |     |  |      |                      |       |  |      |  |         |  |                    |  |                  |  |          |  |
| └─ Seqn= 19 1-time(s) 2.0sec   |  |  |  |     |  |      |                      |       |  |      |  |         |  |                    |  |                  |  |          |  |
| └─ Open/G-band Open/G-band close Safe Norm 63ms Obs 1x1 384x384 (1064, 1048) DPCM 0 0 2.0sec   |  |  |  |     |  |      |                      |       |  |      |  |         |  |                    |  |                  |  |          |  |
| └─ Seqn= 65 4-time(s) 2.0sec   |  |  |  |     |  |      |                      |       |  |      |  |         |  |                    |  |                  |  |          |  |
| └─ Open/Ti-poly Open/thick-Al close Safe Norm 500ms Obs 1x1 384x384 (1064, 1048) Q=95 3 0 2.0sec   |  |  |  |     |  |      |                      |       |  |      |  |         |  |                    |  |                  |  |          |  |
| └─ Open/thick-Al Open/thick-Al close Safe Norm 16.0s Obs 1x1 384x384 (1064, 1048) Q=95 3 0 2.0sec  |  |  |  |     |  |      |                      |       |  |      |  |         |  |                    |  |                  |  |          |  |
| └─ Al-poly/Open Al-poly/thick-Be close Safe Norm 250ms Obs 1x1 384x384 (1064, 1048) Q=95 3 0 2.0sec  |  |  |  |     |  |      |                      |       |  |      |  |         |  |                    |  |                  |  |          |  |
| └─ C-poly/Open C-poly/thick-Al close Safe Norm 250ms Obs 1x1 384x384 (1064, 1048) Q=95 3 0 2.0sec  |  |  |  |     |  |      |                      |       |  |      |  |         |  |                    |  |                  |  |          |  |
| └─ thin-Be/Open med-Be/Open close Safe Norm 1.00s Obs 1x1 384x384 (1064, 1048) Q=95 3 0 2.0sec   |  |  |  |     |  |      |                      |       |  |      |  |         |  |                    |  |                  |  |          |  |
| └─ med-Be/Open med-Be/Open close Safe Norm 16.0s Obs 1x1 384x384 (1064, 1048) Q=95 3 0 2.0sec  |  |  |  |     |  |      |                      |       |  |      |  |         |  |                    |  |                  |  |          |  |
| └─ med-Al/Open med-Al/thick-Al close Safe Norm 16.0s Obs 1x1 384x384 (1064, 1048) Q=95 3 0 2.0sec  |  |  |  |     |  |      |                      |       |  |      |  |         |  |                    |  |                  |  |          |  |
| └─ Subr= 2 1-time(s) 2.0sec  |  |  |  |     |  |      |                      |       |  |      |  |         |  |                    |  |                  |  |          |  |
| └─ Seqn= 73 70-time(s) 120.0sec  |  |  |  |     |  |      |                      |       |  |      |  |         |  |                    |  |                  |  |          |  |
| └─ thin-Be/Open med-Be/Open close Safe Norm 1.41s Obs 1x1 384x384 (1064, 1048) Q=95 3 0 12.5sec  |  |  |  |     |  |      |                      |       |  |      |  |         |  |                    |  |                  |  |          |  |
| └─ thin-Be/Open med-Be/Open close Safe Norm 1.41s Obs 1x1 384x384 (1064, 1048) Q=95 3 1 12.5sec  |  |  |  |     |  |      |                      |       |  |      |  |         |  |                    |  |                  |  |          |  |
| └─ thin-Be/Open med-Be/Open close Safe Norm 1.41s Obs 1x1 384x384 (1064, 1048) Q=95 3 2 12.5sec  |  |  |  |     |  |      |                      |       |  |      |  |         |  |                    |  |                  |  |          |  |
| └─ thin-Be/Open med-Be/Open close Safe Norm 1.41s Obs 1x1 384x384 (1064, 1048) Q=95 3 3 12.5sec  |  |  |  |     |  |      |                      |       |  |      |  |         |  |                    |  |                  |  |          |  |
| Default Filter   |  | Thicker Filter                                     |  | VLS |  | mode |                      | image |  | Exp. |  | CCD Bin |  | ROI: size (center) |  | Comp. AEC Buffer |  | Interval |  |

| XOB #1926: Synoptic Q95 2x2 - Al/mesh(44/1024) + Dark cal(2x2 4x4 8x8 512 Q98) + Dark cal(1x1 512x2048 -1x1 2048x512) + Ti-poly(88/1443) + Thin-Be(250) |  |                   |  |     |  |      |                             |       |  |      |  |         |  |                    |  |                  |  |          |  |
|---|--|-------------------|--|-----|--|------|-----------------------------|-------|--|------|--|---------|--|--------------------|--|------------------|--|----------|--|
| Term  |  | Pointing (x, y)   |  |     |  |      | Comment                     |       |  |      |  |         |  |                    |  |                  |  |          |  |
| 02/07 18:02:00 - 02/07 18:08:54   |  | Fixed ( 0.0, 0.0) |  |     |  |      | synoptic, shifted -1.0 min  |       |  |      |  |         |  |                    |  |                  |  |          |  |
| 02/08 06:03:00 - 02/08 06:09:54   |  | Fixed ( 0.0, 0.0) |  |     |  |      | synoptic                    |       |  |      |  |         |  |                    |  |                  |  |          |  |
| 02/08 18:04:30 - 02/08 18:11:24   |  | Fixed ( 0.0, 0.0) |  |     |  |      | synoptic, shifted 1.5 min   |       |  |      |  |         |  |                    |  |                  |  |          |  |
| 02/09 05:35:00 - 02/09 05:41:54   |  | Fixed ( 0.0, 0.0) |  |     |  |      | synoptic, shifted -28.0 min |       |  |      |  |         |  |                    |  |                  |  |          |  |
| <b>PROG= 02 1-time(s)</b>   |  |                   |  |     |  |      |                             |       |  |      |  |         |  |                    |  |                  |  |          |  |
| └─ Subr= 1 1-time(s) 12.0sec  |  |                   |  |     |  |      |                             |       |  |      |  |         |  |                    |  |                  |  |          |  |
| └─ Seqn= 96 1-time(s) 4.0sec  |  |                   |  |     |  |      |                             |       |  |      |  |         |  |                    |  |                  |  |          |  |
| └─ Open/Al-mesh Open/Al-mesh close Safe Norm 44ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec  |  |                   |  |     |  |      |                             |       |  |      |  |         |  |                    |  |                  |  |          |  |
| └─ Open/Al-mesh Open/Al-mesh close Safe Norm 1.00s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec   |  |                   |  |     |  |      |                             |       |  |      |  |         |  |                    |  |                  |  |          |  |
| └─ Seqn= 6 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= 97 1-time(s) 4.0sec  |  |                   |  |     |  |      |                             |       |  |      |  |         |  |                    |  |                  |  |          |  |
| └─ Open/Ti-poly Open/Ti-poly close Safe Norm 86ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec  |  |                   |  |     |  |      |                             |       |  |      |  |         |  |                    |  |                  |  |          |  |
| └─ Open/Ti-poly Open/Ti-poly close Safe Norm 1.41s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec   |  |                   |  |     |  |      |                             |       |  |      |  |         |  |                    |  |                  |  |          |  |
| └─ Seqn= 23 1-time(s) 2.0sec  |  |                   |  |     |  |      |                             |       |  |      |  |         |  |                    |  |                  |  |          |  |
| └─ thin-Be/Open thin-Be/Open close Safe Norm 250ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec   |  |                   |  |     |  |      |                             |       |  |      |  |         |  |                    |  |                  |  |          |  |
| └─ thin-Be/Open thin-Be/Open close Safe Norm 2.83s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec   |  |                   |  |     |  |      |                             |       |  |      |  |         |  |                    |  |                  |  |          |  |
| └─ Seqn= 8 1-time(s) 2.0sec   |  |                   |  |     |  |      |                             |       |  |      |  |         |  |                    |  |                  |  |          |  |
| └─ Open/G-band Open/G-band open Safe Norm 12ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec   |  |                   |  |     |  |      |                             |       |  |      |  |         |  |                    |  |                  |  |          |  |
| Default Filter  |  | Thicker Filter    |  | VLS |  | mode |                             | image |  | Exp. |  | CCD Bin |  | ROI: size (center) |  | Comp. AEC Buffer |  | Interval |  |

**XOB #195F: AR Standard-B(Morphology) with PFB, thin-Be + multifilter context, 384x384 at 1064 1048, 60s-cad, shorter G-band (32ms) w/ G-Band VLS Clo**

| Term                              | Pointing (x, y)                         |       | Comment |       |       |     |     |                      |       |            |          |         |
|-----------------------------------|---|-------|---------|-------|-------|-----|-----|----------------------|-------|------------|----------|---------|
| 02/07 18:12:00 - 02/08 05:59:54   | Track ( -522.2, 198.3) @ 02/07 18:09:00 |       | # Cont. |       |       |     |     |                      |       |            |          |         |
| 02/08 18:14:30 - 02/09 05:31:54   | Track ( -319.6, 210.4) @ 02/08 18:11:30 |       | # Cont. |       |       |     |     |                      |       |            |          |         |
| <b>PROG= 18 Inf.-time(s)</b>      |   |       |         |       |       |     |     |                      |       |            |          |         |
| <b>Subr= 1 1-time(s) 2.0sec</b>   |   |       |         |       |       |     |     |                      |       |            |          |         |
| <b>Seqn=100 1-time(s) 2.0sec</b>  |   |       |         |       |       |     |     |                      |       |            |          |         |
| Open/Ti-poly                      | Open/thick-Al                           | close | Safe    | Dark  | 16.0s | Obs | 1x1 | 384x384 (1064, 1048) | Q=98  | 0          | 0        | 2.0sec  |
| Open/G-band                       | Open/G-band                             | open  | Safe    | Norm  | 32ms  | Obs | 1x1 | 384x384 (1064, 1048) | Q=98  | 0          | 0        | 2.0sec  |
| <b>Seqn= 19 1-time(s) 2.0sec</b>  |   |       |         |       |       |     |     |                      |       |            |          |         |
| Open/G-band                       | Open/G-band                             | close | Safe    | Norm  | 63ms  | Obs | 1x1 | 384x384 (1064, 1048) | DPCM  | 0          | 0        | 2.0sec  |
| <b>Seqn= 65 4-time(s) 2.0sec</b>  |   |       |         |       |       |     |     |                      |       |            |          |         |
| Open/Ti-poly                      | Open/thick-Al                           | close | Safe    | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 2.0sec  |
| Open/thick-Al                     | Open/thick-Al                           | close | Safe    | Norm  | 16.0s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 2.0sec  |
| Al-poly/Open                      | Al-poly/thick-Be                        | close | Safe    | Norm  | 250ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 2.0sec  |
| C-poly/Open                       | C-poly/thick-Al                         | close | Safe    | Norm  | 250ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 2.0sec  |
| thin-Be/Open                      | med-Be/Open                             | close | Safe    | Norm  | 1.00s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 2.0sec  |
| med-Be/Open                       | med-Be/Open                             | close | Safe    | Norm  | 16.0s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 2.0sec  |
| med-Al/Open                       | med-Al/thick-Al                         | close | Safe    | Norm  | 16.0s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 2.0sec  |
| <b>Subr= 2 1-time(s) 2.0sec</b>   |   |       |         |       |       |     |     |                      |       |            |          |         |
| <b>Seqn= 94 70-time(s) 2.0sec</b> |   |       |         |       |       |     |     |                      |       |            |          |         |
| thin-Be/Open                      | med-Be/Open                             | close | Safe    | Norm  | 1.41s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 15.0sec |
| thin-Be/Open                      | med-Be/Open                             | close | Safe    | Norm  | 1.41s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 1        | 15.0sec |
| thin-Be/Open                      | med-Be/Open                             | close | Safe    | Norm  | 1.41s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 2        | 15.0sec |
| thin-Be/Open                      | med-Be/Open                             | close | Safe    | Norm  | 1.41s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 3        | 15.0sec |
| Default Filter                    | Thicker Filter                          | VLS   | mode    | image | Exp.  | CCD | Bin | ROI: size (center)   | Comp. | AEC Buffer | Interval |         |

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**Flare mode**

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**XOB #1920: Flare obs. dynamics - thin-Be high cadence + context (med-Al,thick-Be -384x384 + Al-poly 512x512 2x2)-Gband (45ms)-15 loops**

| Term                              | Pointing (x, y)                         |       | Comment   |       |       |     |     |                      |       |            |          |        |
|-----------------------------------|---|-------|---|-------|-------|-----|-----|----------------------|-------|------------|----------|--------|
| 02/07 10:22:00 - 02/07 16:18:54   | Fixed ( -15.0, -937.0)                  |       | # OP start + 10min, HOP 81, polar monitoring, S pole. |       |       |     |     |                      |       |            |          |        |
| 02/07 16:22:00 - 02/07 17:58:54   | Track ( -536.6, 197.2) @ 02/07 16:19:00 |       | * Track active area.                                  |       |       |     |     |                      |       |            |          |        |
| 02/07 18:12:00 - 02/08 05:59:54   | Track ( -522.2, 198.3) @ 02/07 18:09:00 |       | # Cont.   |       |       |     |     |                      |       |            |          |        |
| 02/08 06:13:00 - 02/08 10:24:00   | Track ( -423.8, 205.0) @ 02/08 06:10:00 |       | # Cont.   |       |       |     |     |                      |       |            |          |        |
| 02/08 10:34:00 - 02/08 13:30:54   | Track ( 100.5, -481.8) @ 02/08 10:31:00 |       | * ToO HOP 227, on-disk jets.                          |       |       |     |     |                      |       |            |          |        |
| 02/08 13:34:00 - 02/08 18:01:24   | Track ( -360.7, 208.4) @ 02/08 13:31:00 |       | * Track active area.                                  |       |       |     |     |                      |       |            |          |        |
| 02/08 18:14:30 - 02/09 05:31:54   | Track ( -319.6, 210.4) @ 02/08 18:11:30 |       | # Cont.   |       |       |     |     |                      |       |            |          |        |
| 02/09 05:45:00 - 02/09 09:20:00   | Track ( -215.8, 214.2) @ 02/09 05:42:00 |       | # Cont.   |       |       |     |     |                      |       |            |          |        |
| <b>PROG= 16 15-time(s)</b>        |   |       |   |       |       |     |     |                      |       |            |          |        |
| <b>Subr= 1 45-time(s) 10.0sec</b> |   |       |   |       |       |     |     |                      |       |            |          |        |
| <b>Seqn= 35 1-time(s) 2.0sec</b>  |   |       |   |       |       |     |     |                      |       |            |          |        |
| thin-Be/Open                      | med-Be/Open                             | close | Safe  | Norm  | 250ms | Obs | 1x1 | 384x384 (1024, 1024) | Q=95  | 3          | 0        | 2.0sec |
| <b>Subr= 2 1-time(s) 10.0sec</b>  |   |       |   |       |       |     |     |                      |       |            |          |        |
| <b>Seqn= 36 1-time(s) 2.0sec</b>  |   |       |   |       |       |     |     |                      |       |            |          |        |
| 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 |
| <b>Seqn= 37 1-time(s) 2.0sec</b>  |   |       |   |       |       |     |     |                      |       |            |          |        |
| Al-poly/Open                      | Al-poly/thick-Al                        | close | Safe  | Norm  | 125ms | Obs | 2x2 | 512x512 (1024, 1024) | Q=95  | 2          | 0        | 2.0sec |
| <b>Seqn= 38 1-time(s) 2.0sec</b>  |   |       |   |       |       |     |     |                      |       |            |          |        |
| Open/G-band                       | Open/G-band                             | open  | Safe  | Norm  | 44ms  | 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

\* \* \* \* \*

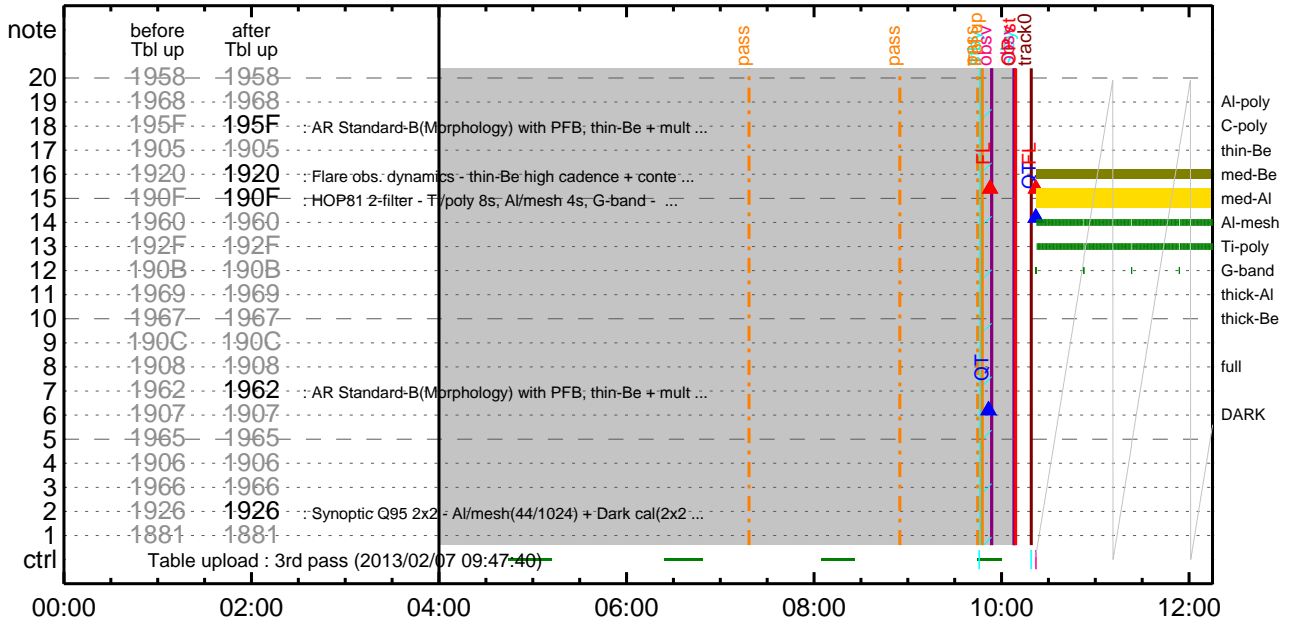
**Flare Detection**

\* \* \* \* \*

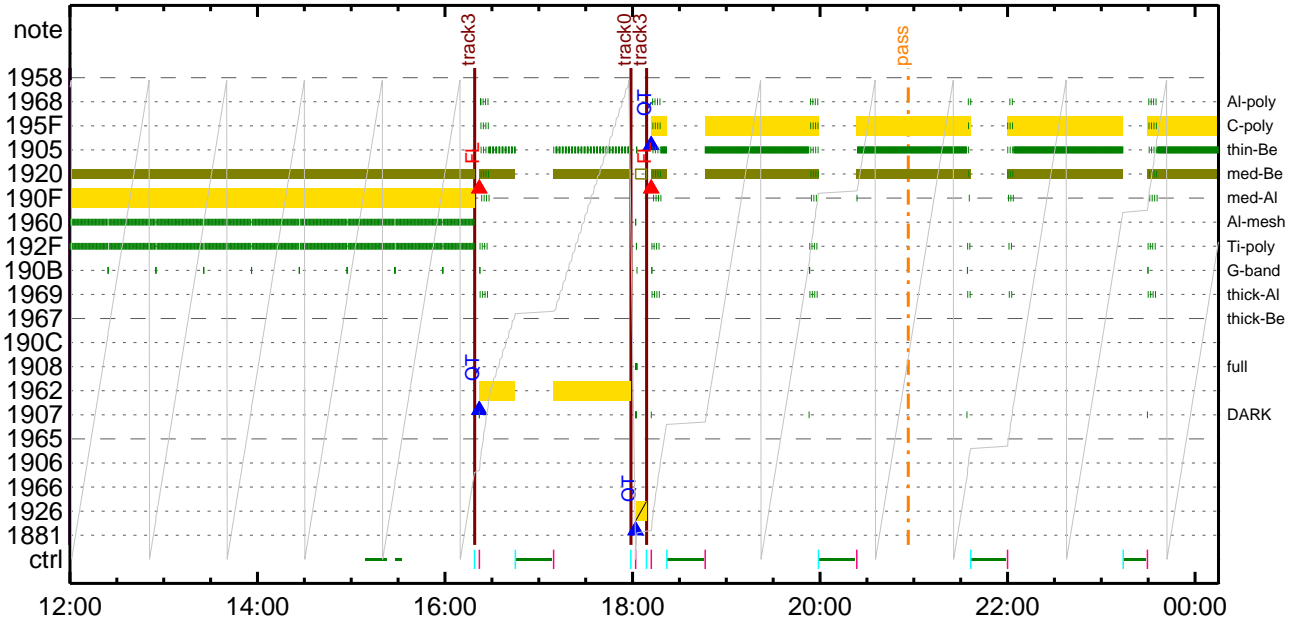
**FLD Patrol**

| Term                            | Pointing (x, y)                         |       | Comment |       |      |     |     |                    |       |            |          |       |
|---------------------------------|---|-------|---------|-------|------|-----|-----|--------------------|-------|------------|----------|-------|
| 02/07 18:09:16 - 02/08 06:00:16 | Track ( -522.2, 198.3) @ 02/07 18:09:00 |       | # Cont. |       |      |     |     |                    |       |            |          |       |
| 02/08 06:10:16 - 02/08 18:01:46 | Track ( -423.8, 205.0) @ 02/08 06:10:00 |       | # Cont. |       |      |     |     |                    |       |            |          |       |
| 02/08 18:11:46 - 02/09 05:32:16 | Track ( -319.6, 210.4) @ 02/08 18:11:30 |       | # Cont. |       |      |     |     |                    |       |            |          |       |
| 02/09 05:42:16 - 02/12 09:58:00 | Track ( -215.8, 214.2) @ 02/09 05:42:00 |       | # Cont. |       |      |     |     |                    |       |            |          |       |
| Open/Ti-poly                    | Open/thick-Al                           | close | Safe    | Norm  | 8ms  | Obs | 8x8 |                    | Q=50  |            |          | 30sec |
| Default Filter                  | Thicker Filter                          | VLS   | mode    | image | Exp. | CCD | Bin | ROI: size (center) | Comp. | AEC Buffer | Interval |       |

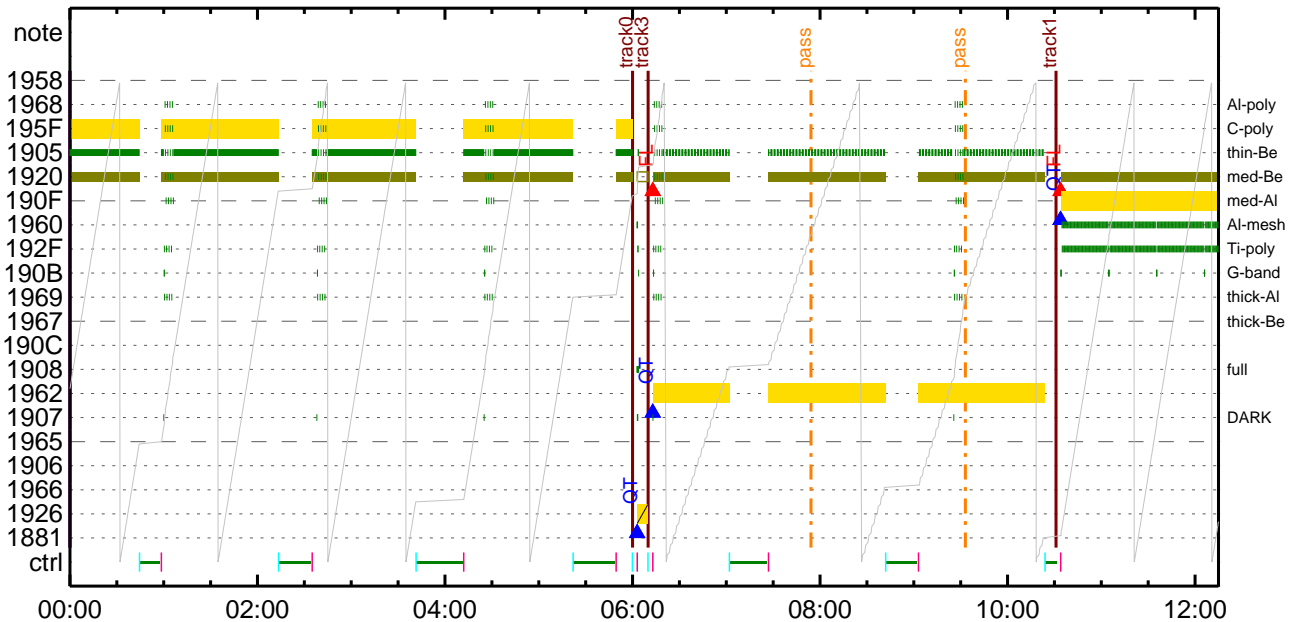
### CMDI #0243 2013/02/07



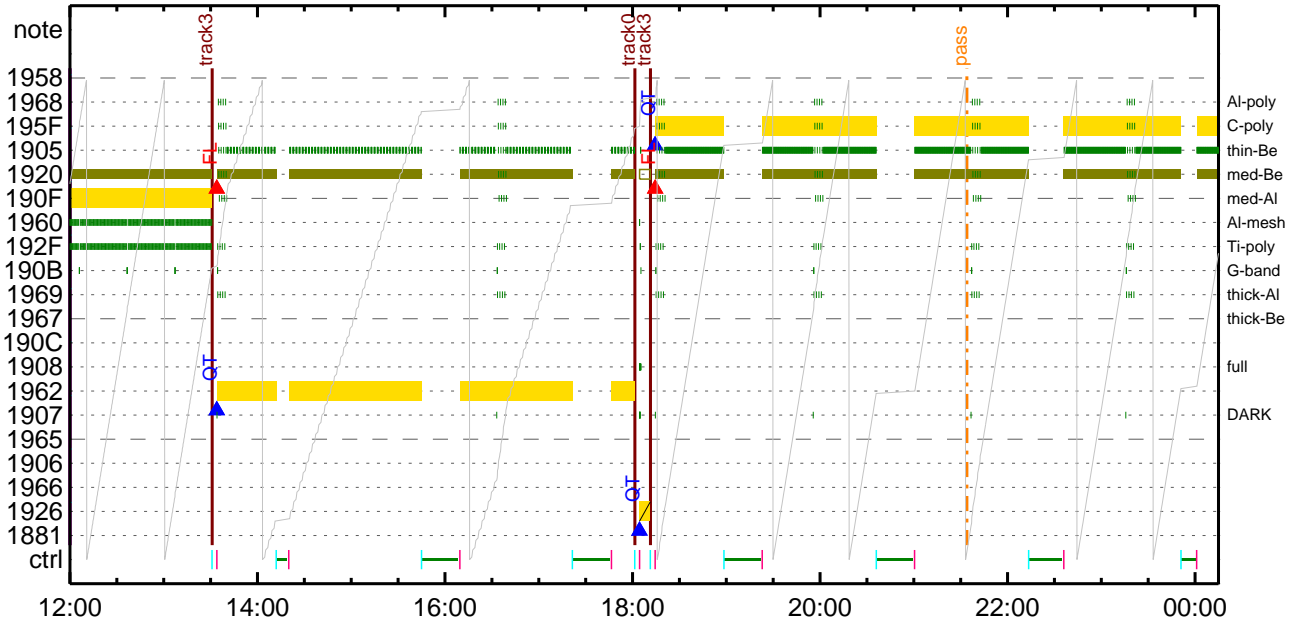
### CMDI #0243 2013/02/07



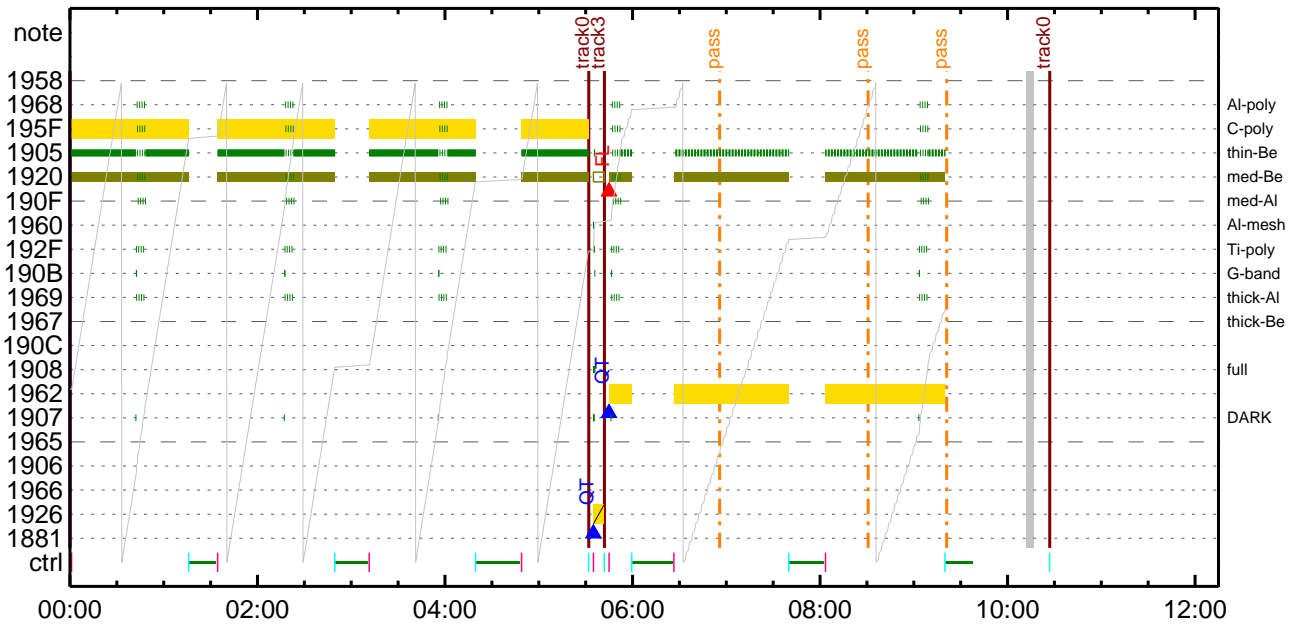
### CMDI #0243 2013/02/08



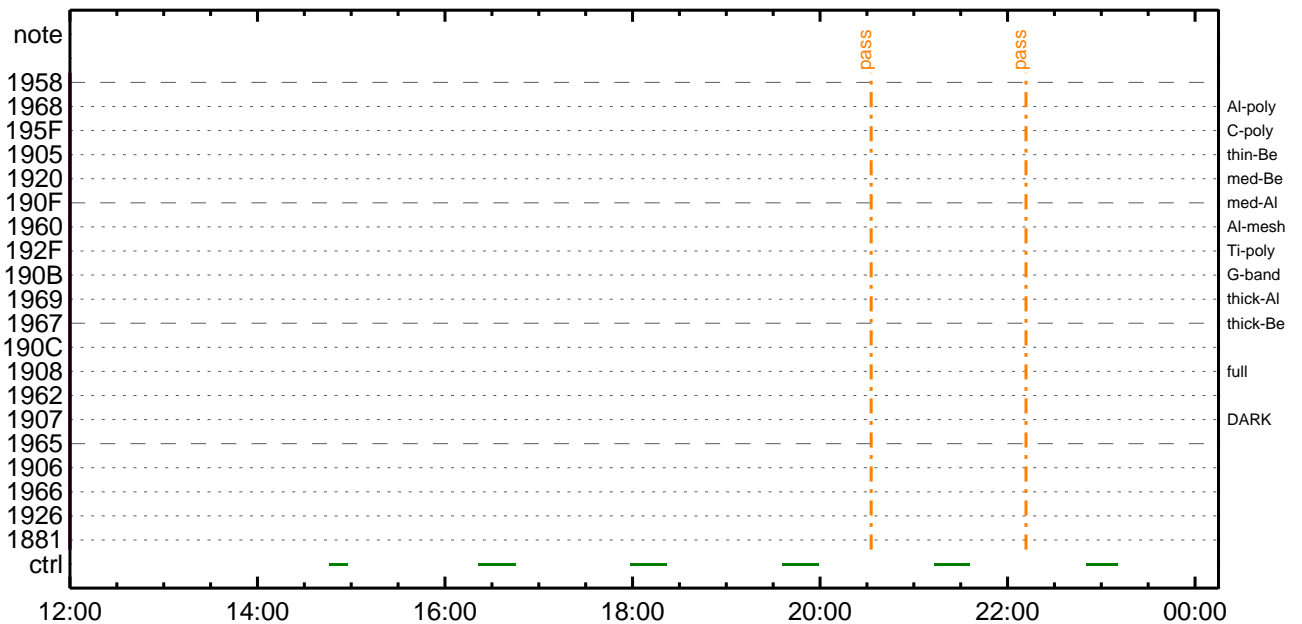
CMDI #0243 2013/02/08



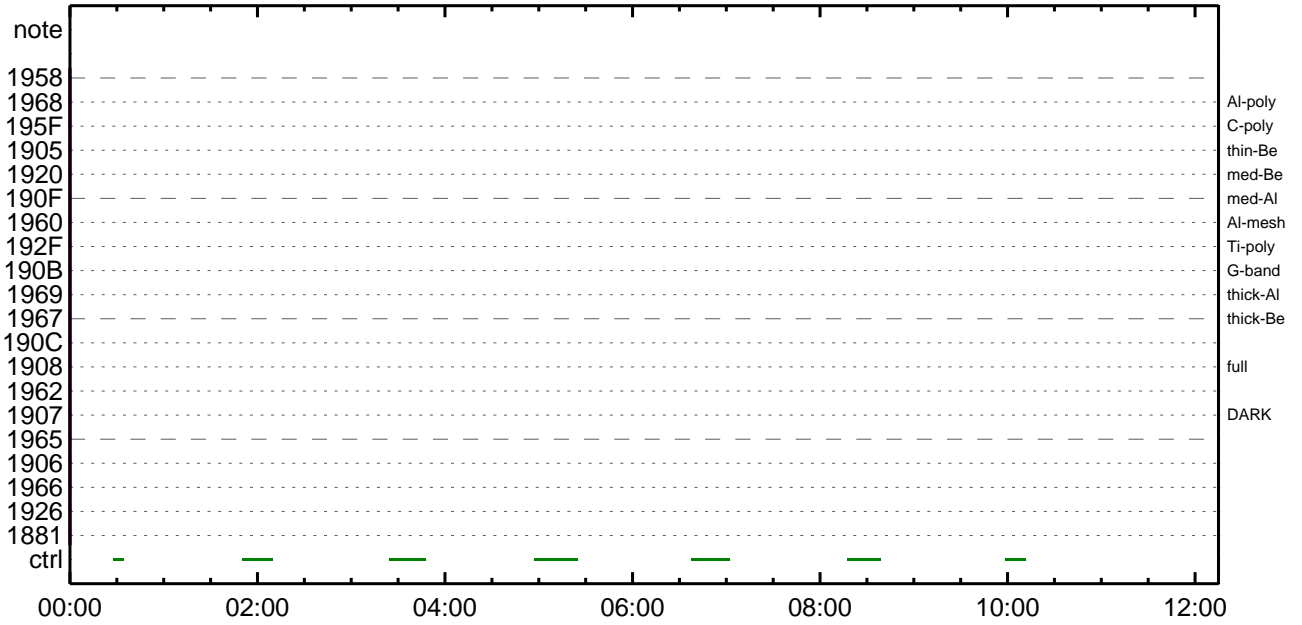
CMDI #0243 2013/02/09



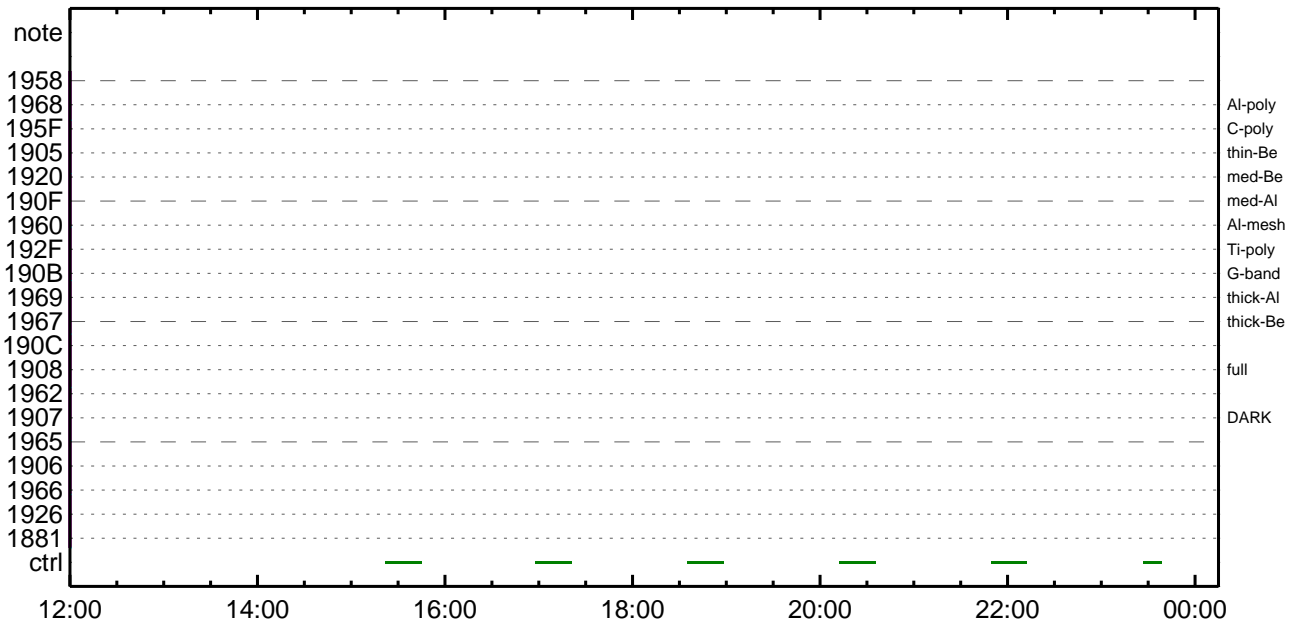
CMDI #0243 2013/02/09



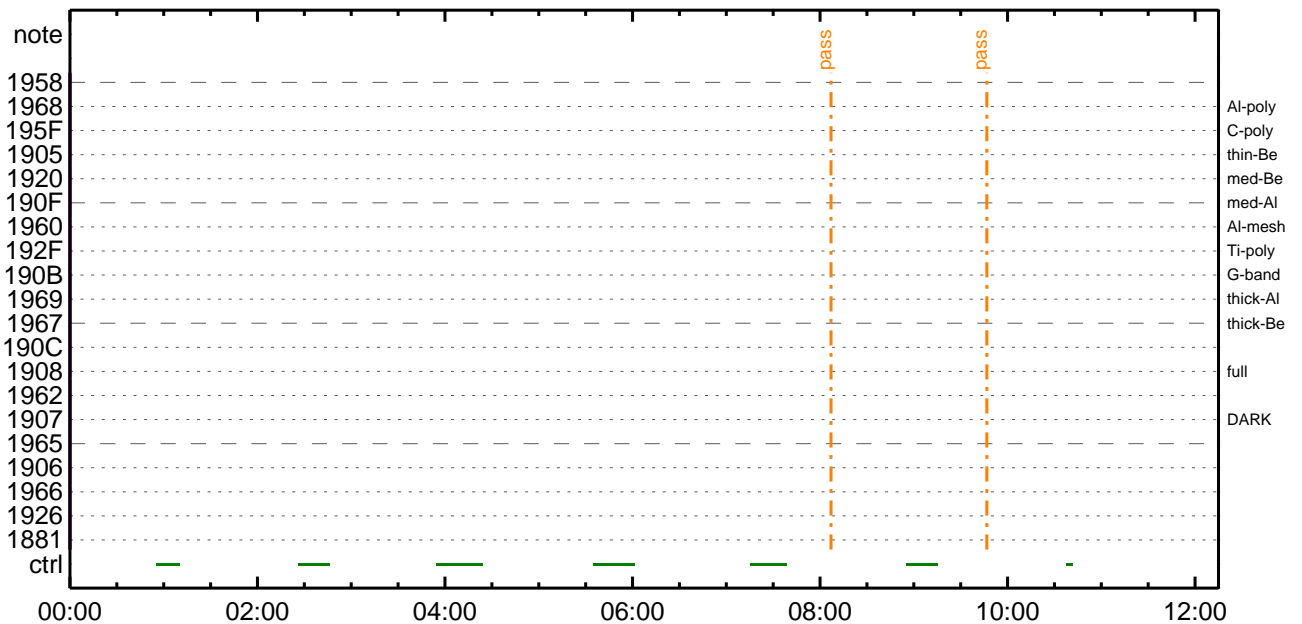
CMDI #0243 2013/02/10



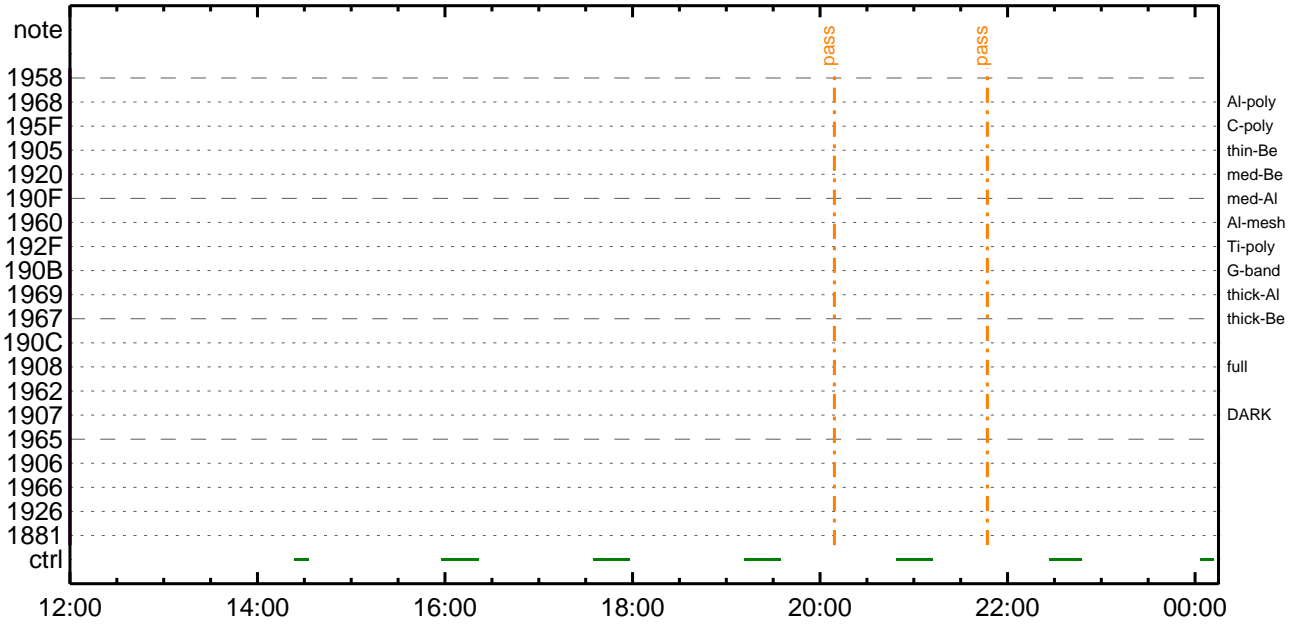
CMDI #0243 2013/02/10



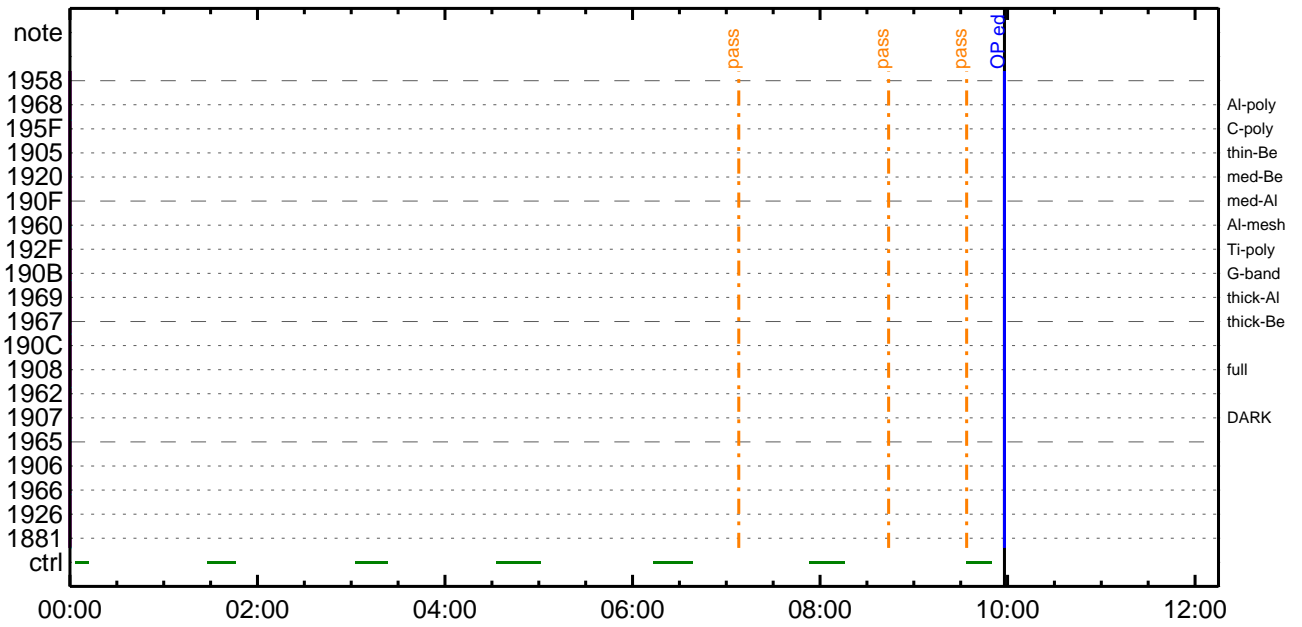
CMDI #0243 2013/02/11



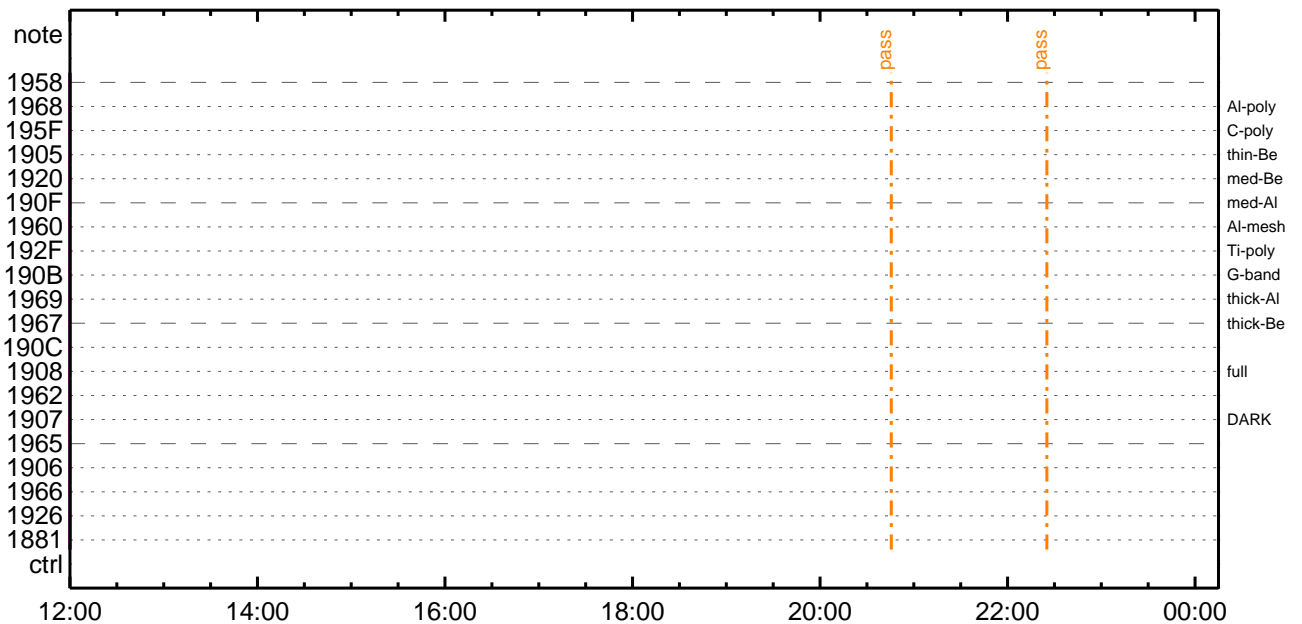
CMDI #0243 2013/02/11



CMDI #0243 2013/02/12



CMDI #0243 2013/02/12





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0096 C.
0097 C.
0098 C. *****
0099 C. OP/OGY1;4YE;|YAYOX
0100 C. *****
0101 C.
0102 C. ;ãOP/OGY1;4YE;ã
0103 S. OP op-450:OP
0104 ( )
0105 S. OG og-450:OG
0106 ( )
0107 C.
0108 C. ;ãNMOG&OPfî°èYAYOX;ã
0109 C. NMOG(0x200000-0x207FFF;§ 32 kbyte)
0110 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0111 BC (20 00 7f 01 02)
0112 C. çç[HK1_DMP_TOP_ADRS_1] EQ 40
0113 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0114 C. çç[HK1_DMP_BLOCK_NUM] EQ 127
0115 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0116 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0117 +. DC 01-22 DHU_MODE_CHNG
0118 BC (07 0b f8)
0119 C. çç[HK1_PKT_FORM_NO] EQ 7
0120 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0121 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0122 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0123 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0124 C. YAYOXx½ªî»ò³îÇ§
0125 C. çç[HK1_DMP_CHK_FLG] EQ NON
0126 C. RAM ID=NMOGαî½E¹ç•è²îOKαò³îÇ§
0127 C.
0128 C. NMOG(0x208000-0x20FFFF;§ 32 kbyte)
0129 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0130 BC (20 80 7f 01 02)
0131 C. çç[HK1_DMP_TOP_ADRS_1] EQ 41
0132 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0133 C. çç[HK1_DMP_BLOCK_NUM] EQ 127
0134 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0135 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0136 +. DC 01-22 DHU_MODE_CHNG
0137 BC (07 0b f8)
0138 C. çç[HK1_PKT_FORM_NO] EQ 7
0139 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0140 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0141 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0142 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0143 C. YAYOXx½ªî»ò³îÇ§
0144 C. çç[HK1_DMP_CHK_FLG] EQ NON
0145 C. RAM ID=NMOGαî½E¹ç•è²îOKαò³îÇ§
0146 C.
0147 C. NMOG(0x210000-0x2100FF;§ 256byte)+OP(0x210100-0x2141FF: 16.25kbyte)
0148 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0149 BC (21 00 41 01 02)
0150 C. çç[HK1_DMP_TOP_ADRS_1] EQ 42
0151 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0152 C. çç[HK1_DMP_BLOCK_NUM] EQ 65
0153 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0154 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0155 +. DC 01-22 DHU_MODE_CHNG
0156 BC (07 0b f8)
0157 C. çç[HK1_PKT_FORM_NO] EQ 7
0158 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0159 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0160 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0161 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0162 C. YAYOXx½ªî»ò³îÇ§
0163 C. çç[HK1_DMP_CHK_FLG] EQ NON
0164 C. RAM ID=NMOG, RAM ID=OPαî½E¹ç•è²îOKαò³îÇ§
0165 C.
0166 C. ***** °Ê²¼αî½E¹ç•è²îOKαò³îÇ§ *****
0167 C. DHUYâ;4YE;E½Y½;Yi;4YE;Eòîãα¹
0168 +. DC 01-22 DHU_MODE_CHNG
0169 BC (02 0a f8)
0170 C. çç[HK1_PKT_FORM_NO] EQ 2
0171 C. çç[HK1_PKT_GEN_TIME] EQ 0.5S
0172 C. çç[HK1_S_TLM_BIT_RATE] EQ 32K
0173 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0174 C.
0175 C. *****
0176 C. TI-CMD SET (OPOG STOP/COPY/START)
0177 C. *****
0178 C.
0179 C. NOTICE ;§ OPOG UPLOADα-Á÷ç@NGUî½E¹ç;ç°Ê²¼αî½E¹ç@αî½E¹ç•è²îOKαò³îÇ§;f
0180 C. αPαç;çSETαEDUMPAî½E¹ç•è²îOKαò³îÇ§;f
0181 C.
0182 C. TIY³YpYóYEòðÁDîç(UT)
0183 +. TI 2013-02-07 10:04:00.0
0184 DC 01-B3 DHU_OP_STOP
0185 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP
0186 C.
0187 +. TI 2013-02-07 10:04:01.0
0188 DC 01-B4 DHU_OP_COPY
0189 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP
0190 C.
0191 +. TI 2013-02-07 10:04:01.0
0192 DC 01-B5 DHU_OPOG_COPY
0193 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP

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0194 C.
0195 +. TI 2013-02-07 10:08:59.5
0196 DC 01-B2 DHU_OP_START
0197 C.          çç[HK1_TI_CMD_NUM]                EQ      1COUNTUP
0198 C.
0199 C. °È²¼ɑîÄë%îíñɑîŷÄŷ$ŷÄŷ-¹àîŭ
0200 C.          çç[HK1_TI_CMD_ENA/DIS]              EQ      ENA
0201 C.          çç[HK1_TI_CMD_NUM]                  EQ      4
0202 C.          çç[HK1_NEXT_EXEC_PIM]                EQ      DHU
0203 C.          çç[HK1_NEXT_EXEC_DC]                 EQ      0xB3
0204 C.
0205 C. *****
0206 C. TIîŷ°èŷÄŷÖŷ×
0207 C. *****
0208 C.
0209 C. TI_TBL(0x03AB00-0x03AEFF;$ 1024byte)
0210 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0211 BC      (03 ab 03 01 02)
0212 C.          çç[HK1_DMP_TOP_ADRS_1]              EQ      07
0213 C.          çç[HK1_DMP_TOP_ADRS_0]              EQ      2B
0214 C.          çç[HK1_DMP_BLOCK_NUM]                EQ      3
0215 C.          çç[HK1_DMP_REPEAT_NUM]              EQ      0
0216 C.          çç[HK1_DMA_DMP_PIM]                  EQ      DHU
0217 +. DC 01-22 DHU_MODE_CHNG
0218 BC      (07 0b f8)
0219 C.          çç[HK1_PKT_FORM_NO]                  EQ      7
0220 C.          çç[HK1_PKT_GEN_TIME]                  EQ      0.25 s
0221 C.          çç[HK1_S_TLM_BIT_RATE]                EQ      32k
0222 C.          çç[HK1_X_TLM_BIT_RATE]                EQ      4M
0223 C.          çç[HK1_DMP_CHK_FLG]                  EQ      EXEC
0224 C.
0225 C. ŷÄŷÖŷ×½ªî»ɑð³îÇ$
0226 C.          çç[HK1_DMP_CHK_FLG]                  EQ      NON
0227 C.
0228 C. RAM ID=TI_TBLɑîŷÈ¹ç•è²îOKɑð³îÇ$
0229 C.
0230 C. DHUŷâ;¼ŷÈ;È¼ŷ¼. ŷî;¼ŷÈ;Èɑðîãɑ¹
0231 +. DC 01-22 DHU_MODE_CHNG
0232 BC      (02 0a f8)
0233 C.          çç[HK1_PKT_FORM_NO]                  EQ      2
0234 C.          çç[HK1_PKT_GEN_TIME]                  EQ      0.5S
0235 C.          çç[HK1_S_TLM_BIT_RATE]                EQ      32K
0236 C.          çç[HK1_X_TLM_BIT_RATE]                EQ      4M
0237 C.
0238 C. *****
0239 C. SOT TI command set
0240 C. *****
0241 C. Execute, after the success of OP upload.
0242 +. TI 2013-02-07 10:08:16.0
0243 DC 07-F0 MDP_SOT_MODE_STBY
0244 BC      (41)
0245 C. -----
0246 C.   HK1_TI_CMD_NUM      = 1 CNTUP [ ]
0247 C. -----
0248 C. ***** SOT END *****
0249 C. Stop EIS observation and temporarily disable EIS mode changes
0250 C.
0251 C.
0252 C. ***** Start EIS operation (TI set) *****
0253 C. Execute, after the success of OP upload.
0254 C. Set EIS TI-commands
0255 +. TI 2013-02-07 10:08:30.0
0256 DC 07-FC EIS_MODE_MANU
0257 BC      (21 02)
0258 +. TI 2013-02-07 10:08:40.0
0259 DC 07-FC EIS_MODE_CHG_DIS
0260 BC      (22)
0261 C.          [ ] [HK1_TI_CMD_NUM]                EQ      2 COUNTUP
0262 C. ***** End EIS operation (TI set) *****
0263 C.
0264 C.
0265 C.
0266 C. ***** XRT START *****
0267 C. Execute, after the success of OP upload.
0268 +. TI 2013-02-07 10:08:00.0
0269 DC 07-F0 MDP_XRT_MODE_STBY
0270 BC      (c3)
0271 C.          [ ] [HK1_TI_CMD_NUM]                EQ      1COUNTUP
0272 C.
0273 C. ***** XRT END *****
0274 C.
0275 C. ***** MDP `ûÃîɑî»ö¼ŷɑÈÄðɑ¹ɑèDCBC•x²è *****
0276 C. (%ã°îŷÖŷÄŷÈŷŷŷÄŷçŷèè¼ɑɑ¼Ä»Ūɑ¹ɑè)
0277 S. DC-BC dcbc-402:DCBC
0278 (MDP_known_event)
0279 C.
0280 C.
0281 C. ***** ŷÐŷ¹•î Daily±çîñɑÈ'Øɑ¹ɑèDCBC•x²è *****
0282 S. DC-BC dcbc-153:DCBC
0283 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0284 C.
0285 C.
0286 C. ;ãLOSŷÄŷ$ŷÄŷ-¼Ä»Ū;ã
0287 C.
0288 C. ***** LOS *****
0289 C.

```



0096 C.  
0097 C.  
0098 . C. \*\*\*\*\* AOCS Commands (Tracking Curve Upload) \*\*\*\*\*  
0099 C. Upload the Orbit Element and the Target Attitude  
0100 C. RAM-ID:TARGET\_ATT  
0101 . S. RAM ram-150:TARGET\_ATT  
0102 ()  
0103 C.  
0104 C.  
0105 C. Set the dump memory area of TARGET\_ATT  
0106 +. DC 02-48 AOCS\_DUMP\_SET  
0107 BC (07 00 00 00 18 00)  
0108 C.  
0109 C. <A\_ST51>[MEMORY OPERATE STATUS] ADRS = 070000 [ ]  
0110 C.  
0111 C.  
0112 C. Change the TLMFormatNo for the AOCS Dump Format  
0113 +. DC 01-22 DHU\_MODE\_CHNG  
0114 BC (04 0b f8)  
0115 C.  
0116 C. Wait for AOCS\_DUMP to end  
0117 C.  
0118 . C. Check the dump memory  
0119 C.  
0120 C. Result = OK [ ]  
0121 C.  
0122 +. DC 01-22 DHU\_MODE\_CHNG  
0123 BC (02 0a f8)  
0124 C.  
0125 C. <A\_\*\*\*>[TLM STS] FMT = 2 [ ]  
0126 C.  
0127 +. DC 02-8E AOCS\_ORB\_UPD  
0128 . C.  
0129 . C. Load OBSTBL, dump OBSTBL, enable EIS mode changes  
0130 +. DC 07-FC EIS\_MODE\_MANU  
0131 BC (21 02)  
0132 . C. Verify EIS in MANUAL mode  
0133 . C. Estimated OBSTBL upload time is 17s  
0134 C. \*\*\*\*\*  
0135 C. EIS START OBSTBL LOAD  
0136 C. \*\*\*\*\*  
0137 . S. RAM ram-820:EIS\_OBSTBL  
0138 ()  
0139 +. DC 07-FC EIS\_DUMP\_OBSTBL  
0140 BC (07 07 07 00 00 70 00)  
0141 C.  
0142 C. Execute, after the success of OBSTBL upload.  
0143 C. Set EIS TI-commands  
0144 +. TI 2013-02-07 10:08:50.0  
0145 DC 07-FC EIS\_MODE\_CHG\_ENA  
0146 BC (20)  
0147 . C. [ ] [HK1\_TI\_CMD\_NUM] EQ 1 COUNTUP  
0148 C. \*\*\*\*\*  
0149 C. EIS END OBSTBL LOAD  
0150 C. \*\*\*\*\*  
0151 C.  
0152 . C. \*\*\*\*\* MDP (MDP\_known\_event) \*\*\*\*\*  
0153 C. (%a°iY0YAYEYpYAYcYèE%¼a¼A»Üa¹aè)  
0154 . S. DC-BC dcbc-402:DCBC  
0155 (MDP\_known\_event)  
0156 C.  
0157 C.  
0158 . C. \*\*\*\*\* YDY¹·I Daily±;INæ'Øa¹aèDCBC·x²è \*\*\*\*\*  
0159 . S. DC-BC dcbc-153:DCBC  
0160 (SPECIAL-CMD\_DAILY\_OPERATIN\_DCB)  
0161 C.  
0162 C.  
0163 . C. ;ãLOS¥Á¥S¥ÄY-¼Ä»Ü;ã  
0164 C.  
0165 . C. \*\*\*\*\* LOS \*\*\*\*\*  
0166 C.

(a) Spacecraft Operation Procedure (real-commands)

```
main-452 2013-02-07 14:39:37 148 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSYÁYŞYÁY-¼Á»Û;ã
0005 C.
0006 C. YÁYŞ;¼Y³YFYÓYÉÁ+¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCs : Reload orbital element (send every contact) *****
0010 C. Áí;Èα¿αΑβ•μ°È»Í×ÁÇαíYçYÁY×Yí;¼YÉ;ÈÈè%μ•ííÉ;ÈαÈ¼°ÇÓα•α¿¼í¹çαÍ;çÁ®, ùα¹αèαβαÇÁ+¿®α•αÈααα³αÈ;f
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 C.
0015 C. ***** XRT START *****
0016 C.
0017 +. DC 07-F0 MDP_XRT_CTRL_MANU
0018 BC (c1)
0019 + DC 07-F0 MDP_XRT_MODE_STBY
0020 BC (c3)
0021 . C. ----- Success Verify ? OK / NG ____
0022 C.
0023 C. XRT Obs. Table Upload
0024 . S. RAM ram-291:MDP_OBS_X
0025 ( )
0026 C.
0027 +. DC 07-F0 MDP_DUMP_XRTTBL
0028 BC (84 07 00 00 00 3a d4)
0029 . C. ----- Comparison Check ? OK / ERR ____
0030 C.
0031 C.
0032 +. DC 07-F0 MDP_XRT_ROI_SET
0033 BC (cd 01 b1 b1 04 04)
0034 + DC 07-F0 MDP_XRT_ROI_SET
0035 BC (cd 02 b1 b1 08 08)
0036 + DC 07-F0 MDP_XRT_ROI_SET
0037 BC (cd 03 b1 b1 08 08)
0038 + DC 07-F0 MDP_XRT_ROI_SET
0039 BC (cd 04 b1 b1 06 06)
0040 + DC 07-F0 MDP_XRT_ROI_SET
0041 BC (cd 05 85 83 06 06)
0042 + DC 07-F0 MDP_XRT_ROI_SET
0043 BC (cd 06 85 83 06 06)
0044 + DC 07-F0 MDP_XRT_ROI_SET
0045 BC (cd 07 85 83 08 08)
0046 + DC 07-F0 MDP_XRT_ROI_SET
0047 BC (cd 08 80 80 20 20)
0048 + DC 07-F0 MDP_XRT_ROI_SET
0049 BC (cd 09 80 80 20 08)
0050 + DC 07-F0 MDP_XRT_ROI_SET
0051 BC (cd 0a 80 80 08 20)
0052 + DC 07-F0 MDP_XRT_ROI_SET
0053 BC (cd 0f 80 80 06 06)
0054 + DC 07-F0 MDP_XRT_ROI_SET
0055 BC (cd 10 80 80 08 08)
0056 + DC 07-F0 MDP_XRT_FLD_ENA
0057 BC (d8)
0058 + DC 07-F0 MDP_XRT_FLRCTRL_ENA
0059 BC (c8)
0060 + DC 07-F0 MDP_XRT_AEC_RESET
0061 BC (d0)
0062 + DC 07-F0 MDP_XRT_ARS_DIS
0063 BC (d5)
0064 + DC 07-F0 MDP_XRT_FLD_RESET
0065 BC (da)
0066 +. DC 07-F0 MDP_XRT_QT_PROG_SET
0067 BC (c4 07)
0068 +. DC 07-F0 MDP_XRT_FL_PROG_SET
0069 BC (c5 10)
0070 . C. ----- Success Verify ? OK / NG ____
0071 C.
0072 C.
0073 . C. All OK? Yes--> Please Proceed. / No --> Stop here.
0074 C.
0075 +. DC 07-F0 MDP_XRT_MODE_OBSV
0076 BC (c2)
0077 +. TI 2013-02-07 10:08:02.0
0078 DC 07-F0 MDP_XRT_MODE_OBSV
0079 BC (c2)
0080 . C. ----- Success Verify ? OK / NG ____
0081 C.
0082 C. ***** XRT END *****
0083 . C. *****
0084 C. SOT table upload
0085 C. *****
0086 . C. < Stop FG table >
0087 +. DC 07-F0 MDP_FG_CTRL_MANU
0088 BC (51)
0089 . C. -----
0090 C. MDP_FG_CTRL_MODE = MANU [ ]
0091 C. -----
0092 C.
0093 . C. <Upload FG Observation Table>
0094 . S. RAM ram-265:MDP_OBS_F
0095 ( )
```



Feb 07, 13 14:39

XRT\_OGLIST\_0243.chk

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

|            |            |                                   |   |       |                |  |  |  |  |
|------------|------------|-----------------------------------|---|-------|----------------|--|--|--|--|
| 2013/02/07 | 10:18:54.0 | XRT_CTRL_MANU_447_OG [0x1bf]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2013/02/07 | 10:19:00.0 | AOCS_ORe-point_Start_1_OG [0x097] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 53 4b 01 58 |  |  |  |  |
| 2013/02/07 | 10:21:26.0 | XRT_FOCUS_POSITION_420_OG [0x1a4] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |  |  |  |  |
| 2013/02/07 | 10:21:46.0 | XRT_FLD_ENA_418_OG [0x1a2]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |  |  |  |
| 2013/02/07 | 10:21:48.0 | XRT_FLRCTRL_ENA_401_OG [0x191]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |  |  |  |
| 2013/02/07 | 10:21:50.0 | XRT_AEC_RESET_423_OG [0x1a7]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |  |  |  |  |
| 2013/02/07 | 10:21:52.0 | XRT_ARS_DIS_412_OG [0x19c]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2013/02/07 | 10:21:54.0 | XRT_FLD_RESET_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2013/02/07 | 10:21:56.0 | XRT_QT_PROG_SET_411_OG [0x19b]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 0f          |  |  |  |  |
| 2013/02/07 | 10:21:58.0 | XRT_FL_PROG_SET_444_OG [0x1bc]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 10          |  |  |  |  |
| 2013/02/07 | 10:22:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2013/02/07 | 16:18:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2013/02/07 | 16:18:56.0 | XRT_FOCUS_POSITION_420_OG [0x1a4] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |  |  |  |  |
| 2013/02/07 | 16:19:00.0 | AOCS_ORe-point_Start_2_OG [0x098] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 03 00 00 00 00 |  |  |  |  |
| 2013/02/07 | 16:19:16.0 | XRT_FLD_ENA_428_OG [0x1ac]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |  |  |  |
| 2013/02/07 | 16:19:18.0 | XRT_FLRCTRL_ENA_429_OG [0x1ad]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |  |  |  |
| 2013/02/07 | 16:19:20.0 | XRT_AEC_RESET_423_OG [0x1a7]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |  |  |  |  |
| 2013/02/07 | 16:19:22.0 | XRT_ARS_DIS_437_OG [0x1b5]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2013/02/07 | 16:21:54.0 | XRT_FLD_RESET_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2013/02/07 | 16:21:56.0 | XRT_QT_PROG_SET_430_OG [0x1ae]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 07          |  |  |  |  |
| 2013/02/07 | 16:21:58.0 | XRT_FL_PROG_SET_444_OG [0x1bc]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 10          |  |  |  |  |
| 2013/02/07 | 16:22:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2013/02/07 | 16:45:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2013/02/07 | 16:45:02.0 | XRT_FLD_RESET_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2013/02/07 | 16:45:04.0 | XRT_PREFLR_STRT_432_OG [0x1b0]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2013/02/07 | 16:48:14.0 | XRT_PREFLR_STOP_433_OG [0x1b1]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2013/02/07 | 17:08:30.0 | XRT_Custom_434_OG [0x1b2]         |   |       |                |  |  |  |  |
| 2013/02/07 | 17:09:30.0 | XRT_CTRL_AUTO_413_OG [0x19d]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2013/02/07 | 17:58:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2013/02/07 | 17:58:56.0 | XRT_FOCUS_POSITION_403_OG [0x193] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |  |  |  |  |
| 2013/02/07 | 17:59:00.0 | AOCS_ORe-point_Start_3_OG [0x099] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 00 00 00 00 |  |  |  |  |
| 2013/02/07 | 17:59:16.0 | XRT_FLD_DIS_404_OG [0x194]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9             |  |  |  |  |
| 2013/02/07 | 17:59:18.0 | XRT_FLRCTRL_DIS_405_OG [0x195]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9             |  |  |  |  |
| 2013/02/07 | 17:59:20.0 | XRT_ARS_DIS_406_OG [0x196]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2013/02/07 | 18:01:58.0 | XRT_QT_PROG_SET_421_OG [0x1a5]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 02          |  |  |  |  |
| 2013/02/07 | 18:02:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2013/02/07 | 18:08:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2013/02/07 | 18:08:56.0 | XRT_FOCUS_POSITION_420_OG [0x1a4] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |  |  |  |  |
| 2013/02/07 | 18:09:00.0 | AOCS_ORe-point_Start_2_OG [0x098] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 03 00 00 00 00 |  |  |  |  |
| 2013/02/07 | 18:09:16.0 | XRT_FLD_ENA_428_OG [0x1ac]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |  |  |  |
| 2013/02/07 | 18:09:18.0 | XRT_FLRCTRL_ENA_429_OG [0x1ad]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |  |  |  |
| 2013/02/07 | 18:09:20.0 | XRT_AEC_RESET_423_OG [0x1a7]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |  |  |  |  |
| 2013/02/07 | 18:09:22.0 | XRT_ARS_DIS_437_OG [0x1b5]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2013/02/07 | 18:11:54.0 | XRT_FLD_RESET_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2013/02/07 | 18:11:56.0 | XRT_QT_PROG_SET_422_OG [0x1a6]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 12          |  |  |  |  |
| 2013/02/07 | 18:11:58.0 | XRT_FL_PROG_SET_444_OG [0x1bc]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 10          |  |  |  |  |

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|            |            |                                   |   |       |    |
|------------|------------|-----------------------------------|---|-------|----|
| 2013/02/07 | 18:12:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |
| 2013/02/07 | 18:22:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |
| 2013/02/07 | 18:22:02.0 | XRT_FLD_RESET_424_OG [0x1a8]      |   |       |    |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |
| 2013/02/07 | 18:22:04.0 | XRT_PREFLR_STRT_432_OG [0x1b0]    |   |       |    |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8 |
| 2013/02/07 | 18:25:14.0 | XRT_PREFLR_STOP_433_OG [0x1b1]    |   |       |    |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9 |
| 2013/02/07 | 18:45:30.0 | XRT_Custom_434_OG [0x1b2]         |   |       |    |
| 2013/02/07 | 18:46:30.0 | XRT_CTRL_AUTO_413_OG [0x19d]      |   |       |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |
| 2013/02/07 | 19:59:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |
| 2013/02/07 | 19:59:02.0 | XRT_FLD_RESET_424_OG [0x1a8]      |   |       |    |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |
| 2013/02/07 | 19:59:04.0 | XRT_PREFLR_STRT_432_OG [0x1b0]    |   |       |    |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8 |
| 2013/02/07 | 20:02:14.0 | XRT_PREFLR_STOP_433_OG [0x1b1]    |   |       |    |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9 |
| 2013/02/07 | 20:22:30.0 | XRT_Custom_434_OG [0x1b2]         |   |       |    |
| 2013/02/07 | 20:23:30.0 | XRT_CTRL_AUTO_413_OG [0x19d]      |   |       |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |
| 2013/02/07 | 21:36:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |
| 2013/02/07 | 21:36:32.0 | XRT_FLD_RESET_424_OG [0x1a8]      |   |       |    |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |
| 2013/02/07 | 21:36:34.0 | XRT_PREFLR_STRT_432_OG [0x1b0]    |   |       |    |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8 |
| 2013/02/07 | 21:39:44.0 | XRT_PREFLR_STOP_433_OG [0x1b1]    |   |       |    |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9 |
| 2013/02/07 | 21:59:00.0 | XRT_Custom_434_OG [0x1b2]         |   |       |    |
| 2013/02/07 | 22:00:00.0 | XRT_CTRL_AUTO_413_OG [0x19d]      |   |       |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |
| 2013/02/07 | 23:14:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |
| 2013/02/07 | 23:14:02.0 | XRT_FLD_RESET_424_OG [0x1a8]      |   |       |    |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |
| 2013/02/07 | 23:14:04.0 | XRT_PREFLR_STRT_432_OG [0x1b0]    |   |       |    |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8 |
| 2013/02/07 | 23:17:14.0 | XRT_PREFLR_STOP_433_OG [0x1b1]    |   |       |    |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9 |
| 2013/02/07 | 23:28:30.0 | XRT_Custom_434_OG [0x1b2]         |   |       |    |
| 2013/02/07 | 23:29:30.0 | XRT_CTRL_AUTO_413_OG [0x19d]      |   |       |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |
| 2013/02/08 | 00:44:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |
| 2013/02/08 | 00:44:32.0 | XRT_FLD_RESET_424_OG [0x1a8]      |   |       |    |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |
| 2013/02/08 | 00:44:34.0 | XRT_PREFLR_STRT_432_OG [0x1b0]    |   |       |    |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8 |
| 2013/02/08 | 00:47:44.0 | XRT_PREFLR_STOP_433_OG [0x1b1]    |   |       |    |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9 |
| 2013/02/08 | 00:57:30.0 | XRT_Custom_434_OG [0x1b2]         |   |       |    |
| 2013/02/08 | 00:58:30.0 | XRT_CTRL_AUTO_413_OG [0x19d]      |   |       |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |
| 2013/02/08 | 02:13:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |
| 2013/02/08 | 02:13:32.0 | XRT_FLD_RESET_424_OG [0x1a8]      |   |       |    |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |
| 2013/02/08 | 02:13:34.0 | XRT_PREFLR_STRT_432_OG [0x1b0]    |   |       |    |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8 |
| 2013/02/08 | 02:16:44.0 | XRT_PREFLR_STOP_433_OG [0x1b1]    |   |       |    |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9 |
| 2013/02/08 | 02:34:00.0 | XRT_Custom_434_OG [0x1b2]         |   |       |    |
| 2013/02/08 | 02:35:00.0 | XRT_CTRL_AUTO_413_OG [0x19d]      |   |       |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |
| 2013/02/08 | 03:41:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |
| 2013/02/08 | 03:41:32.0 | XRT_FLD_RESET_424_OG [0x1a8]      |   |       |    |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |
| 2013/02/08 | 03:41:34.0 | XRT_PREFLR_STRT_432_OG [0x1b0]    |   |       |    |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8 |
| 2013/02/08 | 03:44:44.0 | XRT_PREFLR_STOP_433_OG [0x1b1]    |   |       |    |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9 |
| 2013/02/08 | 04:11:00.0 | XRT_Custom_434_OG [0x1b2]         |   |       |    |
| 2013/02/08 | 04:12:00.0 | XRT_CTRL_AUTO_413_OG [0x19d]      |   |       |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |
| 2013/02/08 | 05:22:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |
| 2013/02/08 | 05:22:02.0 | XRT_FLD_RESET_424_OG [0x1a8]      |   |       |    |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |
| 2013/02/08 | 05:22:04.0 | XRT_PREFLR_STRT_432_OG [0x1b0]    |   |       |    |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8 |
| 2013/02/08 | 05:25:14.0 | XRT_PREFLR_STOP_433_OG [0x1b1]    |   |       |    |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9 |
| 2013/02/08 | 05:48:30.0 | XRT_Custom_434_OG [0x1b2]         |   |       |    |
| 2013/02/08 | 05:49:30.0 | XRT_CTRL_AUTO_413_OG [0x19d]      |   |       |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |
| 2013/02/08 | 05:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |
| 2013/02/08 | 05:59:56.0 | XRT_FOCUS_POSITION_403_OG [0x193] |   |       |    |

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|            |            |                                   |                     |   |       |    |    |    |    |
|------------|------------|-----------------------------------|---------------------|---|-------|----|----|----|----|
| 2013/02/08 | 06:00:00.0 | AOCS_ORe-point_Start_3_OG [0x099] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | ff | aa | 00 |
|            |            | AOCU_NM                           |                     | 5 | 02-76 | 00 | 00 | 00 | 00 |
| 2013/02/08 | 06:00:16.0 | XRT_FLD_DIS_404_OG [0x194]        | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9 |    |    |    |
| 2013/02/08 | 06:00:18.0 | XRT_FLRCTRL_DIS_405_OG [0x195]    | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 |    |    |    |
| 2013/02/08 | 06:00:20.0 | XRT_ARS_DIS_406_OG [0x196]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |    |    |    |
| 2013/02/08 | 06:02:58.0 | XRT_QT_PROG_SET_421_OG [0x1a5]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 02 |    |    |
| 2013/02/08 | 06:03:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |    |    |    |
| 2013/02/08 | 06:09:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |    |
| 2013/02/08 | 06:09:56.0 | XRT_FOCUS_POSITION_420_OG [0x1a4] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | fe | 97 | 00 |
| 2013/02/08 | 06:10:00.0 | AOCS_ORe-point_Start_2_OG [0x098] | AOCU_NM             | 5 | 02-76 | 03 | 00 | 00 | 00 |
| 2013/02/08 | 06:10:16.0 | XRT_FLD_ENA_428_OG [0x1ac]        | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8 |    |    |    |
| 2013/02/08 | 06:10:18.0 | XRT_FLRCTRL_ENA_429_OG [0x1ad]    | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |    |    |    |
| 2013/02/08 | 06:10:20.0 | XRT_AEC_RESET_423_OG [0x1a7]      | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0 |    |    |    |
| 2013/02/08 | 06:10:22.0 | XRT_ARS_DIS_437_OG [0x1b5]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |    |    |    |
| 2013/02/08 | 06:12:54.0 | XRT_FLD_RESET_424_OG [0x1a8]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |    |    |    |
| 2013/02/08 | 06:12:56.0 | XRT_QT_PROG_SET_430_OG [0x1ae]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 07 |    |    |
| 2013/02/08 | 06:12:58.0 | XRT_FL_PROG_SET_444_OG [0x1bc]    | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 10 |    |    |
| 2013/02/08 | 06:13:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |    |    |    |
| 2013/02/08 | 07:02:00.5 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |    |
| 2013/02/08 | 07:02:02.5 | XRT_FLD_RESET_424_OG [0x1a8]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |    |    |    |
| 2013/02/08 | 07:02:04.5 | XRT_PREFLR_STRT_432_OG [0x1b0]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |    |    |    |
| 2013/02/08 | 07:05:14.5 | XRT_PREFLR_STOP_433_OG [0x1b1]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |    |    |    |
| 2013/02/08 | 07:26:00.0 | XRT_Custom_434_OG [0x1b2]         |                     |   |       |    |    |    |    |
| 2013/02/08 | 07:27:00.0 | XRT_CTRL_AUTO_413_OG [0x19d]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |    |    |    |
| 2013/02/08 | 08:42:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |    |
| 2013/02/08 | 08:42:02.0 | XRT_FLD_RESET_424_OG [0x1a8]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |    |    |    |
| 2013/02/08 | 08:42:04.0 | XRT_PREFLR_STRT_432_OG [0x1b0]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |    |    |    |
| 2013/02/08 | 08:45:14.0 | XRT_PREFLR_STOP_433_OG [0x1b1]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |    |    |    |
| 2013/02/08 | 09:02:00.0 | XRT_Custom_434_OG [0x1b2]         |                     |   |       |    |    |    |    |
| 2013/02/08 | 09:03:00.0 | XRT_CTRL_AUTO_413_OG [0x19d]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |    |    |    |
| 2013/02/08 | 10:24:00.0 | XRT_CTRL_MANU_416_OG [0x1a0]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |    |
| 2013/02/08 | 10:31:00.0 | AOCS_ORe-point_Start_4_OG [0x09a] | AOCU_NM             | 5 | 02-76 | 01 | 00 | 00 | 00 |
| 2013/02/08 | 10:33:26.0 | XRT_FOCUS_POSITION_420_OG [0x1a4] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | fe | 97 | 00 |
| 2013/02/08 | 10:33:46.0 | XRT_FLD_ENA_418_OG [0x1a2]        | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8 |    |    |    |
| 2013/02/08 | 10:33:48.0 | XRT_FLRCTRL_ENA_401_OG [0x191]    | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |    |    |    |
| 2013/02/08 | 10:33:50.0 | XRT_AEC_RESET_423_OG [0x1a7]      | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0 |    |    |    |
| 2013/02/08 | 10:33:52.0 | XRT_ARS_DIS_412_OG [0x19c]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |    |    |    |
| 2013/02/08 | 10:33:54.0 | XRT_FLD_RESET_424_OG [0x1a8]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |    |    |    |
| 2013/02/08 | 10:33:56.0 | XRT_QT_PROG_SET_411_OG [0x19b]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 0f |    |    |
| 2013/02/08 | 10:33:58.0 | XRT_FL_PROG_SET_444_OG [0x1bc]    | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 10 |    |    |
| 2013/02/08 | 10:34:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |    |    |    |
| 2013/02/08 | 13:30:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |    |
| 2013/02/08 | 13:30:56.0 | XRT_FOCUS_POSITION_420_OG [0x1a4] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | fe | 97 | 00 |
| 2013/02/08 | 13:31:00.0 | AOCS_ORe-point_Start_2_OG [0x098] | AOCU_NM             | 5 | 02-76 | 03 | 00 | 00 | 00 |
| 2013/02/08 | 13:31:16.0 | XRT_FLD_ENA_428_OG [0x1ac]        | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8 |    |    |    |
| 2013/02/08 | 13:31:18.0 | XRT_FLRCTRL_ENA_429_OG [0x1ad]    | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |    |    |    |
| 2013/02/08 | 13:31:20.0 | XRT_AEC_RESET_423_OG [0x1a7]      | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0 |    |    |    |
| 2013/02/08 | 13:31:22.0 | XRT_ARS_DIS_437_OG [0x1b5]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |    |    |    |



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|            |            |                                   |   |       |    |    |    |    |    |
|------------|------------|-----------------------------------|---|-------|----|----|----|----|----|
| 2013/02/08 | 13:33:54.0 | XRT_FLD_RESET_424_OG [0x1a8]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |    |    |    |    |
| 2013/02/08 | 13:33:56.0 | XRT_QT_PROG_SET_430_OG [0x1ae]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 | 07 |    |    |    |
| 2013/02/08 | 13:33:58.0 | XRT_FL_PROG_SET_444_OG [0x1bc]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 | 10 |    |    |    |
| 2013/02/08 | 13:34:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |    |    |    |    |
| 2013/02/08 | 14:12:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2013/02/08 | 14:12:02.0 | XRT_FLD_RESET_424_OG [0x1a8]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |    |    |    |    |
| 2013/02/08 | 14:12:04.0 | XRT_PREFLR_STRT_432_OG [0x1b0]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8 |    |    |    |    |
| 2013/02/08 | 14:15:14.0 | XRT_PREFLR_STOP_433_OG [0x1b1]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9 |    |    |    |    |
| 2013/02/08 | 14:19:00.0 | XRT_Custom_434_OG [0x1b2]         |   |       |    |    |    |    |    |
| 2013/02/08 | 14:20:00.0 | XRT_CTRL_AUTO_413_OG [0x19d]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |    |    |    |    |
| 2013/02/08 | 15:45:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2013/02/08 | 15:45:02.0 | XRT_FLD_RESET_424_OG [0x1a8]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |    |    |    |    |
| 2013/02/08 | 15:45:04.0 | XRT_PREFLR_STRT_432_OG [0x1b0]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8 |    |    |    |    |
| 2013/02/08 | 15:48:14.0 | XRT_PREFLR_STOP_433_OG [0x1b1]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9 |    |    |    |    |
| 2013/02/08 | 16:08:30.0 | XRT_Custom_434_OG [0x1b2]         |   |       |    |    |    |    |    |
| 2013/02/08 | 16:09:30.0 | XRT_CTRL_AUTO_413_OG [0x19d]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |    |    |    |    |
| 2013/02/08 | 17:21:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2013/02/08 | 17:21:32.0 | XRT_FLD_RESET_424_OG [0x1a8]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |    |    |    |    |
| 2013/02/08 | 17:21:34.0 | XRT_PREFLR_STRT_432_OG [0x1b0]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8 |    |    |    |    |
| 2013/02/08 | 17:24:44.0 | XRT_PREFLR_STOP_433_OG [0x1b1]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9 |    |    |    |    |
| 2013/02/08 | 17:45:30.0 | XRT_Custom_434_OG [0x1b2]         |   |       |    |    |    |    |    |
| 2013/02/08 | 17:46:30.0 | XRT_CTRL_AUTO_413_OG [0x19d]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |    |    |    |    |
| 2013/02/08 | 18:01:24.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2013/02/08 | 18:01:26.0 | XRT_FOCUS_POSITION_403_OG [0x193] |   |       |    |    |    |    |    |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 | ff | aa | 00 |    |
| 2013/02/08 | 18:01:30.0 | AOCS_OrE-point_Start_3_OG [0x099] |   |       |    |    |    |    |    |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 | 00 | 00 | 00 | 00 |
| 2013/02/08 | 18:01:46.0 | XRT_FLD_DIS_404_OG [0x194]        |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9 |    |    |    |    |
| 2013/02/08 | 18:01:48.0 | XRT_FLRCTRL_DIS_405_OG [0x195]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9 |    |    |    |    |
| 2013/02/08 | 18:01:50.0 | XRT_ARS_DIS_406_OG [0x196]        |   |       |    |    |    |    |    |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5 |    |    |    |    |
| 2013/02/08 | 18:04:28.0 | XRT_QT_PROG_SET_421_OG [0x1a5]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 | 02 |    |    |    |
| 2013/02/08 | 18:04:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |    |    |    |    |
| 2013/02/08 | 18:11:24.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2013/02/08 | 18:11:26.0 | XRT_FOCUS_POSITION_420_OG [0x1a4] |   |       |    |    |    |    |    |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 | fe | 97 | 00 |    |
| 2013/02/08 | 18:11:30.0 | AOCS_OrE-point_Start_2_OG [0x098] |   |       |    |    |    |    |    |
|            |            | AOCU_NM                           | 5 | 02-76 | 03 | 00 | 00 | 00 | 00 |
| 2013/02/08 | 18:11:46.0 | XRT_FLD_ENA_428_OG [0x1ac]        |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8 |    |    |    |    |
| 2013/02/08 | 18:11:48.0 | XRT_FLRCTRL_ENA_429_OG [0x1ad]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8 |    |    |    |    |
| 2013/02/08 | 18:11:50.0 | XRT_AEC_RESET_423_OG [0x1a7]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0 |    |    |    |    |
| 2013/02/08 | 18:11:52.0 | XRT_ARS_DIS_437_OG [0x1b5]        |   |       |    |    |    |    |    |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5 |    |    |    |    |
| 2013/02/08 | 18:14:24.0 | XRT_FLD_RESET_424_OG [0x1a8]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |    |    |    |    |
| 2013/02/08 | 18:14:26.0 | XRT_QT_PROG_SET_422_OG [0x1a6]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 | 12 |    |    |    |
| 2013/02/08 | 18:14:28.0 | XRT_FL_PROG_SET_444_OG [0x1bc]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 | 10 |    |    |    |
| 2013/02/08 | 18:14:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |    |    |    |    |
| 2013/02/08 | 18:58:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2013/02/08 | 18:58:32.0 | XRT_FLD_RESET_424_OG [0x1a8]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |    |    |    |    |
| 2013/02/08 | 18:58:34.0 | XRT_PREFLR_STRT_432_OG [0x1b0]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8 |    |    |    |    |
| 2013/02/08 | 19:01:44.0 | XRT_PREFLR_STOP_433_OG [0x1b1]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9 |    |    |    |    |
| 2013/02/08 | 19:22:00.0 | XRT_Custom_434_OG [0x1b2]         |   |       |    |    |    |    |    |
| 2013/02/08 | 19:23:00.0 | XRT_CTRL_AUTO_413_OG [0x19d]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |    |    |    |    |
| 2013/02/08 | 20:36:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2013/02/08 | 20:36:02.0 | XRT_FLD_RESET_424_OG [0x1a8]      |   |       |    |    |    |    |    |

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|            |            |                                   |                     |   |       |                |  |
|------------|------------|-----------------------------------|---------------------|---|-------|----------------|--|
| 2013/02/08 | 20:36:04.0 | XRT_PREFLR_STRT_432_OG [0x1b0]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |
| 2013/02/08 | 20:39:14.0 | XRT_PREFLR_STOP_433_OG [0x1b1]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |
| 2013/02/08 | 20:59:30.0 | XRT_Custom_434_OG [0x1b2]         | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |
| 2013/02/08 | 21:00:30.0 | XRT_CTRL_AUTO_413_OG [0x19d]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |
| 2013/02/08 | 22:13:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2013/02/08 | 22:13:32.0 | XRT_FLD_RESET_424_OG [0x1a8]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |
| 2013/02/08 | 22:13:34.0 | XRT_PREFLR_STRT_432_OG [0x1b0]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |
| 2013/02/08 | 22:16:44.0 | XRT_PREFLR_STOP_433_OG [0x1b1]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |
| 2013/02/08 | 22:35:00.0 | XRT_Custom_434_OG [0x1b2]         | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |
| 2013/02/08 | 22:36:00.0 | XRT_CTRL_AUTO_413_OG [0x19d]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |
| 2013/02/08 | 23:51:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2013/02/08 | 23:51:02.0 | XRT_FLD_RESET_424_OG [0x1a8]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2013/02/08 | 23:51:04.0 | XRT_PREFLR_STRT_432_OG [0x1b0]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |
| 2013/02/08 | 23:54:14.0 | XRT_PREFLR_STOP_433_OG [0x1b1]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |
| 2013/02/09 | 00:00:00.0 | XRT_Custom_434_OG [0x1b2]         | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |
| 2013/02/09 | 00:01:00.0 | XRT_CTRL_AUTO_413_OG [0x19d]      | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |
| 2013/02/09 | 01:16:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |
| 2013/02/09 | 01:16:02.0 | XRT_FLD_RESET_424_OG [0x1a8]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2013/02/09 | 01:16:04.0 | XRT_PREFLR_STRT_432_OG [0x1b0]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |
| 2013/02/09 | 01:19:14.0 | XRT_PREFLR_STOP_433_OG [0x1b1]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |
| 2013/02/09 | 01:33:30.0 | XRT_Custom_434_OG [0x1b2]         | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |
| 2013/02/09 | 01:34:30.0 | XRT_CTRL_AUTO_413_OG [0x19d]      | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |
| 2013/02/09 | 02:49:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |
| 2013/02/09 | 02:49:32.0 | XRT_FLD_RESET_424_OG [0x1a8]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2013/02/09 | 02:49:34.0 | XRT_PREFLR_STRT_432_OG [0x1b0]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |
| 2013/02/09 | 02:52:44.0 | XRT_PREFLR_STOP_433_OG [0x1b1]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |
| 2013/02/09 | 03:10:30.0 | XRT_Custom_434_OG [0x1b2]         | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |
| 2013/02/09 | 03:11:30.0 | XRT_CTRL_AUTO_413_OG [0x19d]      | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |
| 2013/02/09 | 04:19:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |
| 2013/02/09 | 04:19:32.0 | XRT_FLD_RESET_424_OG [0x1a8]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2013/02/09 | 04:19:34.0 | XRT_PREFLR_STRT_432_OG [0x1b0]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |
| 2013/02/09 | 04:22:44.0 | XRT_PREFLR_STOP_433_OG [0x1b1]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |
| 2013/02/09 | 04:48:00.0 | XRT_Custom_434_OG [0x1b2]         | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |
| 2013/02/09 | 04:49:00.0 | XRT_CTRL_AUTO_413_OG [0x19d]      | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |
| 2013/02/09 | 05:31:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |
| 2013/02/09 | 05:31:56.0 | XRT_FOCUS_POSITION_403_OG [0x193] | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2013/02/09 | 05:32:00.0 | AOCs_OrE-point_Start_3_OG [0x099] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa 00    |  |
| 2013/02/09 | 05:32:16.0 | XRT_FLD_DIS_404_OG [0x194]        | AOCU_NM             | 5 | 02-76 | 00 00 00 00 00 |  |
| 2013/02/09 | 05:32:18.0 | XRT_FLRCTRL_DIS_405_OG [0x195]    | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9             |  |
| 2013/02/09 | 05:32:20.0 | XRT_ARS_DIS_406_OG [0x196]        | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9             |  |
| 2013/02/09 | 05:34:58.0 | XRT_QT_PROG_SET_421_OG [0x1a5]    | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |  |
| 2013/02/09 | 05:35:00.5 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 02          |  |
| 2013/02/09 | 05:41:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |
| 2013/02/09 | 05:41:56.0 | XRT_FOCUS_POSITION_420_OG [0x1a4] | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2013/02/09 | 05:42:00.0 | AOCs_OrE-point_Start_2_OG [0x098] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 fe 97 00    |  |
| 2013/02/09 | 05:42:16.0 | XRT_FLD_ENA_428_OG [0x1ac]        | AOCU_NM             | 5 | 02-76 | 03 00 00 00 00 |  |
| 2013/02/09 | 05:42:18.0 | XRT_FLRCTRL_ENA_429_OG [0x1ad]    | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |  |
| 2013/02/09 | 05:42:20.0 | XRT_AEC_RESET_423_OG [0x1a7]      | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |  |
| 2013/02/09 | 05:42:22.0 | XRT_ARS_DIS_437_OG [0x1b5]        | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |  |
|            |            |                                   | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |  |

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|            |            |                                   |   |       |    |    |    |    |    |
|------------|------------|-----------------------------------|---|-------|----|----|----|----|----|
| 2013/02/09 | 05:44:54.0 | XRT_FLD_RESET_424_OG [0x1a8]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |    |    |    |    |
| 2013/02/09 | 05:44:56.0 | XRT_QT_PROG_SET_430_OG [0x1ae]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 | 07 |    |    |    |
| 2013/02/09 | 05:44:58.0 | XRT_FL_PROG_SET_444_OG [0x1bc]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 | 10 |    |    |    |
| 2013/02/09 | 05:45:00.5 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |    |    |    |    |
| 2013/02/09 | 05:59:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2013/02/09 | 05:59:32.0 | XRT_FLD_RESET_424_OG [0x1a8]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |    |    |    |    |
| 2013/02/09 | 05:59:34.0 | XRT_PREFLR_STRT_432_OG [0x1b0]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8 |    |    |    |    |
| 2013/02/09 | 06:02:44.0 | XRT_PREFLR_STOP_433_OG [0x1b1]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9 |    |    |    |    |
| 2013/02/09 | 06:25:30.0 | XRT_Custom_434_OG [0x1b2]         |   |       |    |    |    |    |    |
| 2013/02/09 | 06:26:30.0 | XRT_CTRL_AUTO_413_OG [0x19d]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |    |    |    |    |
| 2013/02/09 | 07:40:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2013/02/09 | 07:40:02.0 | XRT_FLD_RESET_424_OG [0x1a8]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |    |    |    |    |
| 2013/02/09 | 07:40:04.0 | XRT_PREFLR_STRT_432_OG [0x1b0]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8 |    |    |    |    |
| 2013/02/09 | 07:43:14.0 | XRT_PREFLR_STOP_433_OG [0x1b1]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9 |    |    |    |    |
| 2013/02/09 | 08:02:30.0 | XRT_Custom_434_OG [0x1b2]         |   |       |    |    |    |    |    |
| 2013/02/09 | 08:03:30.0 | XRT_CTRL_AUTO_413_OG [0x19d]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |    |    |    |    |
| 2013/02/09 | 09:20:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2013/02/09 | 09:20:02.0 | XRT_FLD_RESET_424_OG [0x1a8]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |    |    |    |    |
| 2013/02/09 | 09:20:04.0 | XRT_PREFLR_STRT_432_OG [0x1b0]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8 |    |    |    |    |
| 2013/02/09 | 09:23:14.0 | XRT_PREFLR_STOP_433_OG [0x1b1]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9 |    |    |    |    |
| 2013/02/09 | 10:26:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2013/02/09 | 10:27:00.0 | AOCS_OrE-point_Start_3_OG [0x099] |   |       |    |    |    |    |    |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 | 00 | 00 | 00 | 00 |