

INTEGRATED SEQUENCE FOR JST A014 JSX B017 WEEK 16 DOY 93-109/00:00 - 93-116/00:00

| ITEM NO | TRM-OR-ERT DOY-HH:MM:SS | SC ID | DSN    | ACTION BY>>TO | COMMAND | EVENT-DESCRIPTION                | S/C SBSYS | TLM FMT | FDS-COUNT     | SCE-TIME        | SORT CODE |
|---------|-------------------------|-------|--------|---------------|---------|----------------------------------|-----------|---------|---------------|-----------------|-----------|
| 1       | 109 01:45:00            | 31    | 61 AOS | OPCH ACE      |         | AOS DSS-61 PASS-5720 (D/L ONLY)  |           |         |               |                 | ---A      |
| 2       | 109 03:00:50            | 32    | 65RISE |               |         | RISE DSS-65                      |           |         |               |                 | ---V      |
| 3       | 109 03:40:00            | 32    | 65 AOS | OPCH ACE      |         | AOS DSS-65 PASS-5736 (D/L ONLY)  |           |         |               |                 | ---A      |
| 4       | 109 04:42:09            | 31    | 12RISE |               |         | RISE DSS-12                      |           |         |               |                 | ---V      |
| 5       | 109 05:29:30            | 32    |        |               |         | VGR-32 OWLT IS 05H 29M 30S       |           |         |               |                 | 32LT      |
| 6       | 109 06:15:38            | 31    |        |               | AC7SSB  | (4 +157) SS BIAS CONTROL --- YAW | AACS      |         | 57519:15:002F | 93-108/23:09:24 |           |
| 7       | 109 07:06:14            | 31    |        |               |         | VGR-31 OWLT IS 07H 06M 14S       |           |         |               |                 | 31LT      |
| 8       | 109 07:25:00            | 32    | 65 LOS | OPCH ACE      |         | LOS DSS-65 PASS-5736             |           |         |               |                 | ---A      |
| 9       | 109 08:23:04            | 32    | 65 SET |               |         | SET DSS-65                       |           |         |               |                 | ---V      |
| 10      | 109 08:45:00            | 31    | 12 AOS | OPCH ACE      |         | AOS DSS-12 PASS-5721 (D/L ONLY)  |           |         |               |                 | ---A      |
| 11      | 109 08:55:00            | 31    | 61 LOS | OPCH ACE      |         | LOS DSS-61 PASS-5720             |           |         |               |                 | ---A      |
| 12      | 109 09:21:05            | 31    | 61 SET |               |         | SET DSS-61                       |           |         |               |                 | ---V      |
| 13      | 109 12:07:18            | 32    | 45RISE |               |         | RISE DSS-45                      |           |         |               |                 | ---V      |
| 14      | 109 12:19:24            | 31    | 42RISE |               |         | RISE DSS-42                      |           |         |               |                 | ---V      |
| 15      | 109 13:05:00            | 32    | 45 AOS | OPCH ACE      |         | AOS DSS-45 PASS-5737 (D/L ONLY)  |           |         |               |                 | ---A      |
| 16      | 109 15:45:00            | 31    | 12 LOS | OPCH ACE      |         | LOS DSS-12 PASS-5721             |           |         |               |                 | ---A      |
| 17      | 109 16:00:00            | 31    | 42 AOS | OPCH ACE      |         | AOS DSS-42 PASS-5721 (D/L ONLY)  |           |         |               |                 | ---A      |
| 18      | 109 16:15:38            | 31    |        |               |         | BEGIN SEQUENCE A015 -- LOCK STAR |           |         | 57531:45:001F | 93-109/09:09:24 | ----      |
| 19      | 109 16:35:37            | 31    | 12 SET |               |         | SET DSS-12                       |           |         |               |                 | ---V      |
| 20      | 109 17:29:27            | 32    |        |               |         | VGR-32 OWLT IS 05H 29M 27S       |           |         |               |                 | 32LT      |
| 21      | 109 18:15:00            | 32    | 45 LOS | OPCH ACE      |         | LOS DSS-45 PASS-5737             |           |         |               |                 | ---A      |
| 22      | 109 19:06:14            | 31    |        |               |         | VGR-31 OWLT IS 07H 06M 14S       |           |         |               |                 | 31LT      |
| 23      | 109 20:48:20            | 31    | 61RISE |               |         | RISE DSS-61                      |           |         |               |                 | ---V      |

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|---------|-------------------------|-------|--------|---------------|---------|---------------------------------|-----------|---------|---------------|-----------------|-----------|
| 24      | 109 21:45:00            | 31    | 42 LOS | OPCH ACE      |         | LOS DSS-42 PASS-5721            |           |         |               |                 | ---A      |
| 25      | 109 21:59:50            | 31    | 42 SET |               |         | SET DSS-42                      |           |         |               |                 | ---V      |
| 26      | 110 01:00:00            | 31    | 61 AOS | OPCH ACE      |         | AOS DSS-61 PASS-5721 (D/L ONLY) |           |         |               |                 | ---A      |
| 27      | 110 02:06:50            | 31    |        |               |         | B- UVSLEW                       |           |         | 57544:04:001F | 93-109/19:00:36 | ----      |
| 28      | 110 02:06:50            | 31    |        |               |         | SLEW TO G191 B2B                |           |         | 57544:04:001F | 93-109/19:00:36 | ----      |
| 29      | 110 02:06:50            | 31    |        |               |         | B- PLATPOB                      |           |         | 57544:04:001F | 93-109/19:00:36 | ----      |
| 30      | 110 02:06:50            | 31    |        |               | AC7SPK  | (1 12 2 142 189) EL SLEW R=LOW  | AACS      |         | 57544:04:003F | 93-109/19:00:36 |           |
| 31      | 110 02:06:50            | 31    |        |               | AC7SPK  | (2 12 1 101 086) AZ SLEW R=LOW  | AACS      |         | 57544:04:004F | 93-109/19:00:36 |           |
| 32      | 110 02:25:51            | 31    |        |               |         | B- SLEND                        |           |         | 57544:27:618F | 93-109/19:19:37 | ----      |
| 33      | 110 02:25:51            | 31    |        |               | SLEWEND | AZ=128.933 EL=69.586 CO=64.863  |           |         | 57544:27:618F | 93-109/19:19:37 | ----      |
| 34      | 110 02:46:16            | 32    | 45 SET |               |         | SET DSS-45                      |           |         |               |                 | ---V      |
| 35      | 110 02:57:00            | 32    | 65RISE |               |         | RISE DSS-65                     |           |         |               |                 | ---V      |
| 36      | 110 03:35:00            | 32    | 65 AOS | OPCH ACE      |         | AOS DSS-65 PASS-5737 (D/L ONLY) |           |         |               |                 | ---A      |
| 37      | 110 04:38:10            | 31    | 12RISE |               |         | RISE DSS-12                     |           |         |               |                 | ---V      |
| 38      | 110 05:29:25            | 32    |        |               |         | VGR-32 OWLT IS 05H 29M 25S      |           |         |               |                 | 32LT      |
| 39      | 110 06:45:00            | 31    | 61 LOS | OPCH ACE      |         | LOS DSS-61 PASS-5721            |           |         |               |                 | ---A      |
| 40      | 110 07:06:15            | 31    |        |               |         | VGR-31 OWLT IS 07H 06M 15S      |           |         |               |                 | 31LT      |
| 41      | 110 07:10:00            | 32    | 65 LOS | OPCH ACE      |         | LOS DSS-65 PASS-5737            |           |         |               |                 | ---A      |
| 42      | 110 08:19:00            | 32    | 65 SET |               |         | SET DSS-65                      |           |         |               |                 | ---V      |
| 43      | 110 09:00:00            | 31    | 12 AOS | OPCH ACE      |         | AOS DSS-12 PASS-5722 (D/L ONLY) |           |         |               |                 | ---A      |
| 44      | 110 09:17:08            | 31    | 61 SET |               |         | SET DSS-61                      |           |         |               |                 | ---V      |
| 45      | 110 09:50:50            | 32    | 14RISE |               |         | RISE DSS-14                     |           |         |               |                 | ---V      |
| 46      | 110 10:24:44            | 32    | 14     |               |         | STATION 10 DEG ELEVATION POINT  |           |         |               |                 | ---V      |

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|---------|-------------------------|-------|--------|---------------|---------|---|-----------|---------|---------------|-----------------|-----------|
| 47      | 110 11:00:00            | 32    | 14 AOS | OPCH ACE      |         | AOS DSS-14 PASS-5738 (U/L PASS)<br>XMTR ON PER TELECOM TRKING FORM  |           |         |               |                 | ---A      |
| 48      | 110 12:03:18            | 32    | 45RISE |               |         | RISE DSS-45   |           |         |               |                 | ---V      |
| 49      | 110 12:15:27            | 31    | 42RISE |               |         | RISE DSS-42   |           |         |               |                 | ---V      |
| 50      | 110 15:00:00            | 32    | 45 AOS | OPCH ACE      |         | AOS DSS-45 PASS-5738 (D/L ONLY)   |           |         |               |                 | ---A      |
| 51      | 110 15:15:00            | 32    | 14 LOS | OPCH ACE      |         | LOS DSS-14 PASS-5738  |           |         |               |                 | ---A      |
| 52      | 110 15:34:08            | 32    |        | ACE OPCH      |         | >>>>>>> 5 MIN WARNING <<<<<<<<<<br>FOR FDS MODE OR FDS STATUS CHG   |           |         |               |                 |           |
| 53      | 110 15:34:08            | 32    |        | ACE OPCH      |         | >>>>>>> 5 MIN WARNING <<<<<<<<<<br>FOR CHG IN X-BD D/L CONFIG<br>MOD INDEX=41 DATA RATE=HIGH<br>SUBCARRIER FREQ=22.5KHZ                                 |           |         |               |                 |           |
| 54      | 110 15:34:56            | 32    |        | ACE OPCH      |         | >>>>>>> 5 MIN WARNING <<<<<<<<<<br>FOR FDS MODE OR FDS STATUS CHG   |           |         |               |                 |           |
| 55      | 110 15:34:56            | 32    |        | ACE OPCH      |         | >>>>>>> 5 MIN WARNING <<<<<<<<<<br>FOR CHG IN X-BD D/L CONFIG<br>MOD INDEX=36 DATA RATE=HIGH<br>SUBCARRIER FREQ=22.5KHZ                                 |           |         |               |                 |           |
| 56      | 110 15:38:20            | 32    |        |               |         | BEGIN PWSREC  |           |         | 51417:57:001F | 93-110/10:04:00 | ----      |
| 57      | 110 15:38:20            | 32    |        |               |         | B- DRGS4B   |           |         | 51417:57:001F | 93-110/10:04:00 | ----      |
| 58      | 110 15:38:20            | 32    |        |               | SC06BB  | (03 0 07 0) FDS MODE TO: GS-4B<br>PLS INTEGRATION MODE: N/A<br>PPS SAFING COMMAND : N/A<br>ENGINEERING FORMAT : CRUISE<br>AACS READOUT MODE : TELEMETRY | FDS       |         | 51417:57:009F | 93-110/10:04:00 |           |
| 59      | 110 15:39:04            | 32    |        |               |         | BEGIN RECORDING PWS DATA  |           |         | 51417:57:734F | 93-110/10:04:44 | ----      |
| 60      | 110 15:39:04            | 32    |        |               | CC16C   | (3000) DTR STATE SELECT:115.2REC  | DTR       |         | 51417:57:734F | 93-110/10:04:44 |           |
| 61      | 110 15:39:04            | 32    |        |               |         | =====<br>DTR STATUS<br>MODE:REC RATE:115.2K<br>DIR:F TRK:3 TIC:2939<br>=====  | DTR       |         | 51417:57:734F | 93-110/10:04:44 |           |





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|---------|-------------------------|-------|--------|---------------|---------|--|-----------|---------|---------------|-----------------|-----------|
| 83      | 110 15:47:40            | 31    |        |               |         | B- DRCRUS  |           |         | 57561:10:018F | 93-110/08:41:25 | ----      |
| 84      | 110 15:47:40            | 31    |        |               | SC06BB  | (53 0 07 0) FDS MODE TO: CR-5T<br>PLS INTEGRATION MODE: 0.96 SEC<br>PPS SAFING COMMAND : N/A<br>ENGINEERING FORMAT : CRUISE<br>AACS READOUT MODE : TELEMETRY | FDS       |         | 57561:10:026F | 93-110/08:41:25 |           |
| 85      | 110 15:48:27            | 31    |        | ACE OPCH      |         | =====<br>FDS STATUS<br>CR-5T/X160/S10<br>MEM:PA/FDS11<br>=====   | FDS       | CR-5T   | 57561:11:001F | 93-110/08:42:12 |           |
| 86      | 110 15:48:27            | 31    |        |               | CC16C   | (7000) DTR STATE SELECT: READY   | DTR       |         | 57561:11:001F | 93-110/08:42:12 |           |
| 87      | 110 15:48:27            | 31    |        |               |         | =====<br>DTR STATUS<br>MODE:RDY RATE:000.0K<br>DIR:F TRK:3 TIC:0541<br>=====   | DTR       |         | 57561:11:001F | 93-110/08:42:12 |           |
| 88      | 110 15:48:27            | 31    |        |               | CC3A    | (32310) X-BD TMU STATE CHANGE<br>DRIVER(S) 1 AND 2 ON<br>MOD INDEX=32 DATA RATE=HIGH<br>SUBCARRIER FREQ=22.5KHZ  | MDS       |         | 57561:11:002F | 93-110/08:42:12 |           |
| 89      | 110 15:48:28            | 31    |        |               |         | END PWSREC   |           |         | 57561:11:018F | 93-110/08:42:13 | ----      |
| 90      | 110 15:49:55            | 32    | 14     |               |         | STATION 10 DEG ELEVATION POINT   |           |         |               |                 | ---V      |
| 91      | 110 16:10:00            | 31    | 12 LOS | OPCH ACE      |         | LOS DSS-12 PASS-5722   |           |         |               |                 | ---A      |
| 92      | 110 16:23:49            | 32    | 14 SET |               |         | SET DSS-14   |           |         |               |                 | ---V      |
| 93      | 110 16:31:39            | 31    | 12 SET |               |         | SET DSS-12   |           |         |               |                 | ---V      |
| 94      | 110 16:35:08            | 32    |        |               |         | B- UVSLEW  |           |         | 51419:08:001F | 93-110/11:00:48 | ----      |
| 95      | 110 16:35:08            | 32    |        |               |         | SLEW TO M27  |           |         | 51419:08:001F | 93-110/11:00:48 | ----      |
| 96      | 110 16:35:08            | 32    |        |               |         | B- PLATPOB   |           |         | 51419:08:001F | 93-110/11:00:48 | ----      |
| 97      | 110 16:35:08            | 32    |        |               | AC7SPK  | (2 12 1 026 221) AZ SLEW R=LOW   | AACS      |         | 51419:08:003F | 93-110/11:00:48 |           |
| 98      | 110 16:35:08            | 32    |        |               | AC7SPK  | (1 12 1 154 118) EL SLEW R=LOW   | AACS      |         | 51419:08:004F | 93-110/11:00:48 |           |



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|---------|-------------------------|-------|--------|---------------|---------|---|-----------|---------|---------------|-----------------|-----------|
| 118     | 110 20:53:39            | 31    | 63RISE |               |         | RISE DSS-63   |           |         |               |                 | ---V      |
| 119     | 110 20:53:40            | 31    | 65RISE |               |         | RISE DSS-65   |           |         |               |                 | ---V      |
| 120     | 110 20:55:00            | 31    | 42 LOS | OPCH ACE      |         | LOS DSS-42 PASS-5722  |           |         |               |                 | ---A      |
| 121     | 110 21:15:08            | 31    | 63     |               |         | STATION 10 DEG ELEVATION POINT  |           |         |               |                 | ---V      |
| 122     | 110 21:55:51            | 31    | 42 SET |               |         | SET DSS-42  |           |         |               |                 | ---V      |
| 123     | 110 23:30:00            | 31    | 63 AOS | OPCH ACE      |         | AOS DSS-63 PASS-5722 (D/L ONLY)   |           |         |               |                 | ---A      |
| 124     | 111 00:10:00            | 32    | 45 LOS | OPCH ACE      |         | LOS DSS-45 PASS-5738  |           |         |               |                 | ---A      |
| 125     | 111 01:55:00            | 31    | 65 AOS | OPCH ACE      |         | AOS DSS-65 PASS-5722 (D/L ONLY)   |           |         |               |                 | ---A      |
| 126     | 111 01:55:00            | 31    |        | ACE OPCH      |         | =====<br>START DSS-63/65 ARRAY PASS<br>=====  |           |         |               |                 | SARR      |
| 127     | 111 02:06:03            | 31    |        |               |         | YAW05   |           |         | 57574:03:001F | 93-110/18:59:48 | ----      |
| 128     | 111 02:06:03            | 31    |        |               | AC7PAR  | (6741 000740) +YAW DB=.05 DEG   | AACS      |         | 57574:03:003F | 93-110/18:59:48 |           |
| 129     | 111 02:11:27            | 31    |        | ACE OPCH      |         | >>>>>> 5 MIN WARNING <<<<<<<<<<br>FOR FDS MODE OR FDS STATUS CHG  |           |         |               |                 |           |
| 130     | 111 02:11:27            | 31    |        | ACE OPCH      |         | >>>>>> 5 MIN WARNING <<<<<<<<<<br>FOR CHG IN X-BD D/L CONFIG<br>MOD INDEX=41 DATA RATE=HIGH<br>SUBCARRIER FREQ=22.5KHZ                                  |           |         |               |                 |           |
| 131     | 111 02:15:39            | 31    |        |               | SC06BB  | (11 0 07 0) FDS MODE TO: PB-05<br>PLS INTEGRATION MODE: N/A<br>PPS SAFING COMMAND : N/A<br>ENGINEERING FORMAT : CRUISE<br>AACS READOUT MODE : TELEMETRY | FDS       |         | 57574:15:009F | 93-110/19:09:24 |           |
| 132     | 111 02:16:24            | 31    |        |               |         | REPLAY BACK LOST DATA   |           |         | 57574:15:751F | 93-110/19:10:09 | ----      |
| 133     | 111 02:16:25            | 31    |        |               | CC16C   | (1215) DTR STATE SELECT:PLAYBACK  | DTR       |         | 57574:15:768F | 93-110/19:10:10 |           |



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|---------|-------------------------|-------|--------|---------------|---------|--|-----------|---------|---------------|-----------------|-----------|
| 134     | 111 02:16:25            | 31    |        |               |         | ===== DTR STATUS<br>MODE:PLAY RATE:007.2K<br>DIR:F TRK:5 TIC:2942<br>=====   | DTR       |         | 57574:15:768F | 93-110/19:10:10 |           |
| 135     | 111 02:16:27            | 31    |        | ACE OPCH      |         | ===== FDS STATUS<br>PB-05/X7.2K/S40<br>MEM:PA/FDS11<br>=====   | FDS       | PB-05   | 57574:16:001F | 93-110/19:10:12 |           |
| 136     | 111 02:16:27            | 31    |        |               | CC3A    | (41310) X-BD TMU STATE CHANGE<br>DRIVER(S) 1 AND 2 ON<br>MOD INDEX=41 DATA RATE=HIGH<br>SUBCARRIER FREQ=22.5KHZ  | MDS       |         | 57574:16:002F | 93-110/19:10:12 |           |
| 137     | 111 02:42:23            | 32    | 45 SET |               |         | SET DSS-45   |           |         |               |                 | ---V      |
| 138     | 111 02:46:12            | 31    |        |               | EOT     | END OF TAPE  |           |         | 57574:53:152F | 93-110/19:39:57 |           |
| 139     | 111 04:34:11            | 31    | 12RISE |               |         | RISE DSS-12  |           |         |               |                 | ---V      |
| 140     | 111 05:03:27            | 31    |        | ACE OPCH      |         | >>>>>> 5 MIN WARNING <<<<<<<<<<br>FOR FDS MODE OR FDS STATUS CHG   |           |         |               |                 |           |
| 141     | 111 05:03:27            | 31    |        | ACE OPCH      |         | >>>>>> 5 MIN WARNING <<<<<<<<<<br>FOR CHG IN X-BD D/L CONFIG<br>MOD INDEX=32 DATA RATE=HIGH<br>SUBCARRIER FREQ=22.5KHZ                                       |           |         |               |                 |           |
| 142     | 111 05:07:39            | 31    |        |               | SC06BB  | (53 0 07 0) FDS MODE TO: CR-5T<br>PLS INTEGRATION MODE: 0.96 SEC<br>PPS SAFING COMMAND : N/A<br>ENGINEERING FORMAT : CRUISE<br>AACS READOUT MODE : TELEMETRY | FDS       |         | 57577:50:009F | 93-110/22:01:24 |           |
| 143     | 111 05:08:27            | 31    |        | ACE OPCH      |         | ===== FDS STATUS<br>CR-5T/X160/S10<br>MEM:PA/FDS11<br>=====  | FDS       | CR-5T   | 57577:51:001F | 93-110/22:02:12 |           |
| 144     | 111 05:08:27            | 31    |        |               | CC16C   | (7000) DTR STATE SELECT: READY   | DTR       |         | 57577:51:001F | 93-110/22:02:12 |           |

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|---------|-------------------------|-------|--------|---------------|---------|---|-----------|---------|---------------|-----------------|-----------|
| 145     | 111 05:08:27            | 31    |        |               |         | ===== DTR STATUS<br>MODE:RDY RATE:000.0K<br>DIR:R TRK:6 TIC:0513<br>=====                                       | DTR       |         | 57577:51:001F | 93-110/22:02:12 |           |
| 146     | 111 05:08:27            | 31    |        |               | CC3A    | (32310) X-BD TMU STATE CHANGE<br>DRIVER(S) 1 AND 2 ON<br>MOD INDEX=32 DATA RATE=HIGH<br>SUBCARRIER FREQ=22.5KHZ | MDS       |         | 57577:51:002F | 93-110/22:02:12 |           |
| 147     | 111 05:08:28            | 31    |        |               |         | END PLAYBACK  |           |         | 57577:51:018F | 93-110/22:02:13 | ----      |
| 148     | 111 05:10:00            | 31    | 65 LOS | OPCH ACE      |         | LOS DSS-65 PASS-5722  |           |         |               |                 | ---A      |
| 149     | 111 05:10:00            | 31    |        | ACE OPCH      |         | ===== END DSS-63/65 ARRAY PASS<br>=====   |           |         |               |                 | EARR      |
| 150     | 111 05:18:03            | 31    |        |               |         | YAWDB - .10   |           |         | 57578:03:001F | 93-110/22:11:48 | ----      |
| 151     | 111 05:18:03            | 31    |        |               | AC7PAR  | (6741 001700) +YAW DB=.10 DEG   | AACS      |         | 57578:03:003F | 93-110/22:11:48 |           |
| 152     | 111 05:29:21            | 32    |        |               |         | VGR-32 OWLT IS 05H 29M 21S  |           |         |               |                 | 32LT      |
| 153     | 111 07:06:15            | 31    |        |               |         | VGR-31 OWLT IS 07H 06M 15S  |           |         |               |                 | 31LT      |
| 154     | 111 08:05:00            | 31    | 63 LOS | OPCH ACE      |         | LOS DSS-63 PASS-5722  |           |         |               |                 | ---A      |
| 155     | 111 08:34:47            | 31    | 63     |               |         | STATION 10 DEG ELEVATION POINT  |           |         |               |                 | ---V      |
| 156     | 111 08:40:00            | 31    | 12 AOS | OPCH ACE      |         | AOS DSS-12 PASS-5723 (D/L ONLY)   |           |         |               |                 | ---A      |
| 157     | 111 09:04:02            | 31    | 65 SET |               |         | SET DSS-65  |           |         |               |                 | ---V      |
| 158     | 111 09:06:51            | 31    |        |               |         | BEGIN TAPPOS  |           |         | 57582:49:001F | 93-111/02:00:36 | ----      |
| 159     | 111 09:06:51            | 31    |        |               |         | TAPPOS TO 0547  |           |         | 57582:49:001F | 93-111/02:00:36 | ----      |
| 160     | 111 09:06:51            | 31    |        |               | CC16C   | (2211) DTR STATE SELECT: SLEW   | DTR       |         | 57582:49:001F | 93-111/02:00:36 |           |
| 161     | 111 09:06:51            | 31    |        |               |         | ===== DTR STATUS<br>MODE:SLEW RATE:007.2K<br>DIR:F TRK:1 TIC:0512<br>=====                                      | DTR       |         | 57582:49:001F | 93-111/02:00:36 |           |





INTEGRATED SEQUENCE FOR JST A014 JSX B017 WEEK 16 DOY 93-109/00:00 - 93-116/00:00

| ITEM NO | TRM-OR-ERT DOY-HH:MM:SS | SC ID | DSN    | ACTION BY>>TO | COMMAND | EVENT-DESCRIPTION  | S/C SBSYS | TLM FMT | FDS-COUNT     | SCE-TIME        | SORT CODE |
|---------|-------------------------|-------|--------|---------------|---------|--|-----------|---------|---------------|-----------------|-----------|
| 189     | 111 17:10:52            | 31    |        |               | SC06BB  | (53 0 07 0) FDS MODE TO: CR-5T<br>PLS INTEGRATION MODE: 0.96 SEC<br>PPS SAFING COMMAND : N/A<br>ENGINEERING FORMAT : CRUISE<br>AACS READOUT MODE : TELEMETRY | FDS       |         | 57592:54:025F | 93-111/10:04:37 |           |
| 190     | 111 17:11:39            | 31    |        | ACE OPCH      |         | ===== FDS STATUS<br>CR-5T/X160/S10<br>MEM:PA/FDS11<br>=====  | FDS       | CR-5T   | 57592:55:001F | 93-111/10:05:24 |           |
| 191     | 111 17:11:39            | 31    |        |               | CC16C   | (7000) DTR STATE SELECT: READY   | DTR       |         | 57592:55:001F | 93-111/10:05:24 |           |
| 192     | 111 17:11:39            | 31    |        |               |         | ===== DTR STATUS<br>MODE:RDY RATE:000.0K<br>DIR:F TRK:3 TIC:0838<br>=====  | DTR       |         | 57592:55:001F | 93-111/10:05:24 |           |
| 193     | 111 17:11:39            | 31    |        |               | CC3A    | (32310) X-BD TMU STATE CHANGE<br>DRIVER(S) 1 AND 2 ON<br>MOD INDEX=32 DATA RATE=HIGH<br>SUBCARRIER FREQ=22.5KHZ  | MDS       |         | 57592:55:002F | 93-111/10:05:24 |           |
| 194     | 111 17:11:40            | 31    |        |               |         | END PWSREC   |           |         | 57592:55:018F | 93-111/10:05:25 | ----      |
| 195     | 111 17:29:19            | 32    |        |               |         | VGR-32 OWLT IS 05H 29M 19S   |           |         |               |                 | 32LT      |
| 196     | 111 18:10:00            | 32    | 45 LOS | OPCH ACE      |         | LOS DSS-45 PASS-5739   |           |         |               |                 | ---A      |
| 197     | 111 18:47:50            | 32    |        |               | AC7SSB  | (3 +016) SS BIAS CONTROL - PITCH   | AACS      |         | 51451:54:002F | 93-111/13:13:36 |           |
| 198     | 111 19:06:16            | 31    |        |               |         | VGR-31 OWLT IS 07H 06M 16S   |           |         |               |                 | 31LT      |
| 199     | 111 19:21:16            | 31    |        |               | AC7SSB  | (4 +156) SS BIAS CONTROL --- YAW   | AACS      |         | 57595:37:002F | 93-111/12:15:00 |           |
| 200     | 111 20:40:18            | 31    | 61RISE |               |         | RISE DSS-61  |           |         |               |                 | ---V      |
| 201     | 111 21:30:00            | 31    | 42 LOS | OPCH ACE      |         | LOS DSS-42 PASS-5723   |           |         |               |                 | ---A      |
| 202     | 111 21:51:53            | 31    | 42 SET |               |         | SET DSS-42   |           |         |               |                 | ---V      |
| 203     | 112 01:00:00            | 31    | 61 AOS | OPCH ACE      |         | AOS DSS-61 PASS-5723 (D/L ONLY)  |           |         |               |                 | ---A      |
| 204     | 112 02:38:29            | 32    | 45 SET |               |         | SET DSS-45   |           |         |               |                 | ---V      |

INTEGRATED SEQUENCE FOR JST A014 JSX B017 WEEK 16 DOY 93-109/00:00 - 93-116/00:00

| ITEM NO | TRM-OR-ERT DOY-HH:MM:SS | SC ID | DSN    | ACTION BY>>TO | COMMAND | EVENT-DESCRIPTION   | S/C SBSYS | TLM FMT | FDS-COUNT | SCE-TIME | SORT CODE |
|---------|-------------------------|-------|--------|---------------|---------|---|-----------|---------|-----------|----------|-----------|
| 205     | 112 02:49:20            | 32    | 65RISE |               |         | RISE DSS-65   |           |         |           |          | ---V      |
| 206     | 112 03:25:00            | 32    | 65 AOS | OPCH ACE      |         | AOS DSS-65 PASS-5739 (D/L ONLY)   |           |         |           |          | ---A      |
| 207     | 112 04:30:12            | 31    | 12RISE |               |         | RISE DSS-12   |           |         |           |          | ---V      |
| 208     | 112 05:29:17            | 32    |        |               |         | VGR-32 OWLT IS 05H 29M 17S  |           |         |           |          | 32LT      |
| 209     | 112 07:05:00            | 32    | 65 LOS | OPCH ACE      |         | LOS DSS-65 PASS-5739  |           |         |           |          | ---A      |
| 210     | 112 07:06:16            | 31    |        |               |         | VGR-31 OWLT IS 07H 06M 16S  |           |         |           |          | 31LT      |
| 211     | 112 08:10:53            | 32    | 65 SET |               |         | SET DSS-65  |           |         |           |          | ---V      |
| 212     | 112 08:30:00            | 31    | 12 AOS | OPCH ACE      |         | AOS DSS-12 PASS-5724 (U/L PASS)   |           |         |           |          | ---A      |
| 213     | 112 08:45:00            | 31    | 61 LOS | OPCH ACE      |         | LOS DSS-61 PASS-5723  |           |         |           |          | ---A      |
| 214     | 112 09:09:15            | 31    | 61 SET |               |         | SET DSS-61  |           |         |           |          | ---V      |
| 215     | 112 11:00:00            | 31    | 12     | OPCH 12       |         | =====<br>== START TLC TEST UP-LINK ==<br>== EXECUTE PER DSN SUPPLIED ==<br>== TUNING INSTRUCTIONS ==<br>===== |           |         |           |          | STLC      |
| 216     | 112 11:00:00            | 31    | 12     | OPCH 12       |         | =====<br>== TLC TEST UP-LINK ==<br>TURN RANGING MOD OFF (IF APPL)<br>=====                                    |           |         |           |          | -TLC      |
| 217     | 112 11:01:00            | 31    | 12     | OPCH 12       |         | =====<br>== TLC TEST UP-LINK ==<br>TURN COMMAND MOD OFF (IF APPL)<br>NO COMMANDING FOR 1 HR 56 MIN<br>=====   |           |         |           |          | -TLC      |
| 218     | 112 11:02:00            | 31    | 12     | OPCH 12       |         | =====<br>== TLC TEST UP-LINK ==<br>== TUNE U/L AT 48 HZ/SEC ==<br>== TO XA-65 KHZ (S-BAND) ==<br>=====        |           |         |           |          | -TLC      |

INTEGRATED SEQUENCE FOR JST A014 JSX B017 WEEK 16 DOY 93-109/00:00 - 93-116/00:00

| ITEM NO | TRM-OR-ERT DOY-HH:MM:SS | SC ID | DSN    | ACTION BY>>TO | COMMAND | EVENT-DESCRIPTION  | S/C SBSYS | TLM FMT | FDS-COUNT | SCE-TIME | SORT CODE |
|---------|-------------------------|-------|--------|---------------|---------|--|-----------|---------|-----------|----------|-----------|
| 219     | 112 11:27:00            | 31    | 12     | OPCH 12       |         | =====<br>== END TLC TEST UP-LINK ==<br>== TURN TRANSMITTER OFF ==<br>TUNE TO TSF @ 48 HZ/SEC (S-BAND)<br>===== |           |         |           |          | -TLC      |
| 220     | 112 11:55:18            | 32    | 45RISE |               |         | RISE DSS-45  |           |         |           |          | ---V      |
| 221     | 112 12:07:33            | 31    | 42RISE |               |         | RISE DSS-42  |           |         |           |          | ---V      |
| 222     | 112 13:00:00            | 32    | 45 AOS | OPCH ACE      |         | AOS DSS-45 PASS-5740 (D/L ONLY)  |           |         |           |          | ---A      |
| 223     | 112 15:45:00            | 31    | 42 AOS | OPCH ACE      |         | AOS DSS-42 PASS-5724 (D/L ONLY)  |           |         |           |          | ---A      |
| 224     | 112 16:00:00            | 31    | 12 LOS | OPCH ACE      |         | LOS DSS-12 PASS-5724   |           |         |           |          | ---A      |
| 225     | 112 16:23:41            | 31    | 12 SET |               |         | SET DSS-12   |           |         |           |          | ---V      |
| 226     | 112 17:29:15            | 32    |        |               |         | VGR-32 OWLT IS 05H 29M 15S   |           |         |           |          | 32LT      |
| 227     | 112 18:00:00            | 32    | 45 LOS | OPCH ACE      |         | LOS DSS-45 PASS-5740   |           |         |           |          | ---A      |
| 228     | 112 19:06:16            | 31    |        |               |         | VGR-31 OWLT IS 07H 06M 16S   |           |         |           |          | 31LT      |
| 229     | 112 20:36:17            | 31    | 61RISE |               |         | RISE DSS-61  |           |         |           |          | ---V      |
| 230     | 112 21:30:00            | 31    | 42 LOS | OPCH ACE      |         | LOS DSS-42 PASS-5724   |           |         |           |          | ---A      |
| 231     | 112 21:47:54            | 31    | 42 SET |               |         | SET DSS-42   |           |         |           |          | ---V      |
| 232     | 113 01:00:00            | 31    | 61 AOS | OPCH ACE      |         | AOS DSS-61 PASS-5724 (D/L ONLY)  |           |         |           |          | ---A      |
| 233     | 113 01:39:30            | 31    | 61     | OPCH 61       |         | =====<br>== START TLC TEST DOWN-LINK ==<br>=====   |           |         |           |          | -TLC      |
| 234     | 113 02:34:36            | 32    | 45 SET |               |         | SET DSS-45   |           |         |           |          | ---V      |
| 235     | 113 02:40:30            | 31    | 61     | OPCH 61       |         | =====<br>== END TLC TEST DOWN-LINK ==<br>=====   |           |         |           |          | ETLC      |
| 236     | 113 04:26:13            | 31    | 12RISE |               |         | RISE DSS-12  |           |         |           |          | ---V      |
| 237     | 113 05:29:13            | 32    |        |               |         | VGR-32 OWLT IS 05H 29M 13S   |           |         |           |          | 32LT      |







INTEGRATED SEQUENCE FOR JST A014 JSX B017 WEEK 16 DOY 93-109/00:00 - 93-116/00:00

| ITEM NO | TRM-OR-ERT DOY-HH:MM:SS | SC ID | DSN    | ACTION BY>>TO | COMMAND | EVENT-DESCRIPTION  | S/C SBSYS | TLM FMT | FDS-COUNT     | SCE-TIME        | SORT CODE |
|---------|-------------------------|-------|--------|---------------|---------|--|-----------|---------|---------------|-----------------|-----------|
| 271     | 113 19:10:54            | 31    |        |               | SC06BB  | (53 0 07 0) FDS MODE TO: CR-5T<br>PLS INTEGRATION MODE: 0.96 SEC<br>PPS SAFING COMMAND : N/A<br>ENGINEERING FORMAT : CRUISE<br>AACS READOUT MODE : TELEMETRY | FDS       |         | 57655:24:025F | 93-113/12:04:37 |           |
| 272     | 113 19:11:41            | 31    |        | ACE OPCH      |         | ===== FDS STATUS<br>CR-5T/X160/S10<br>MEM:PA/FDS11<br>=====  | FDS       | CR-5T   | 57655:25:001F | 93-113/12:05:24 |           |
| 273     | 113 19:11:41            | 31    |        |               | CC16C   | (7000) DTR STATE SELECT: READY   | DTR       |         | 57655:25:001F | 93-113/12:05:24 |           |
| 274     | 113 19:11:41            | 31    |        |               |         | ===== DTR STATUS<br>MODE:RDY RATE:000.0K<br>DIR:F TRK:3 TIC:1137<br>=====  | DTR       |         | 57655:25:001F | 93-113/12:05:24 |           |
| 275     | 113 19:11:41            | 31    |        |               | CC3A    | (32310) X-BD TMU STATE CHANGE<br>DRIVER(S) 1 AND 2 ON<br>MOD INDEX=32 DATA RATE=HIGH<br>SUBCARRIER FREQ=22.5KHZ  | MDS       |         | 57655:25:002F | 93-113/12:05:24 |           |
| 276     | 113 19:11:42            | 31    |        |               |         | END PWSREC   |           |         | 57655:25:018F | 93-113/12:05:25 | ----      |
| 277     | 113 20:32:16            | 31    | 61RISE |               |         | RISE DSS-61  |           |         |               |                 | ---V      |
| 278     | 113 21:25:00            | 31    | 42 LOS | OPCH ACE      |         | LOS DSS-42 PASS-5725   |           |         |               |                 | ---A      |
| 279     | 113 21:43:55            | 31    | 42 SET |               |         | SET DSS-42   |           |         |               |                 | ---V      |
| 280     | 114 01:15:00            | 31    | 61 AOS | OPCH ACE      |         | AOS DSS-61 PASS-5725 (D/L ONLY)  |           |         |               |                 | ---A      |
| 281     | 114 02:30:42            | 32    | 45 SET |               |         | SET DSS-45   |           |         |               |                 | ---V      |
| 282     | 114 02:41:39            | 32    | 65RISE |               |         | RISE DSS-65  |           |         |               |                 | ---V      |
| 283     | 114 03:20:00            | 32    | 65 AOS | OPCH ACE      |         | AOS DSS-65 PASS-5741 (D/L ONLY)  |           |         |               |                 | ---A      |
| 284     | 114 04:22:15            | 31    | 12RISE |               |         | RISE DSS-12  |           |         |               |                 | ---V      |
| 285     | 114 05:29:09            | 32    |        |               |         | VGR-32 OWLT IS 05H 29M 09S   |           |         |               |                 | 32LT      |
| 286     | 114 07:06:18            | 31    |        |               |         | VGR-31 OWLT IS 07H 06M 18S   |           |         |               |                 | 31LT      |

INTEGRATED SEQUENCE FOR JST A014 JSX B017 WEEK 16 DOY 93-109/00:00 - 93-116/00:00

| ITEM NO | TRM-OR-ERT DOY-HH:MM:SS | SC ID | DSN    | ACTION BY>>TO | COMMAND | EVENT-DESCRIPTION                | S/C SBSYS | TLM FMT | FDS-COUNT     | SCE-TIME        | SORT CODE |
|---------|-------------------------|-------|--------|---------------|---------|----------------------------------|-----------|---------|---------------|-----------------|-----------|
| 287     | 114 07:30:00            | 31    | 12 AOS | OPCH ACE      |         | AOS DSS-12 PASS-5726 (D/L ONLY)  |           |         |               |                 | ---A      |
| 288     | 114 07:40:00            | 32    | 65 LOS | OPCH ACE      |         | LOS DSS-65 PASS-5741             |           |         |               |                 | ---A      |
| 289     | 114 07:45:00            | 31    | 61 LOS | OPCH ACE      |         | LOS DSS-61 PASS-5725             |           |         |               |                 | ---A      |
| 290     | 114 08:02:45            | 32    | 65 SET |               |         | SET DSS-65                       |           |         |               |                 | ---V      |
| 291     | 114 08:26:54            | 31    |        |               | AC7SSB  | (4 +155) SS BIAS CONTROL --- YAW | AACS      |         | 57671:59:002F | 93-114/01:20:36 |           |
| 292     | 114 09:01:21            | 31    | 61 SET |               |         | SET DSS-61                       |           |         |               |                 | ---V      |
| 293     | 114 11:47:17            | 32    | 45RISE |               |         | RISE DSS-45                      |           |         |               |                 | ---V      |
| 294     | 114 12:25:00            | 32    | 45 AOS | OPCH ACE      |         | AOS DSS-45 PASS-5742 (D/L ONLY)  |           |         |               |                 | ---A      |
| 295     | 114 13:06:54            | 31    |        |               |         | B- UVSLEW                        |           |         | 57677:49:001F | 93-114/06:00:36 | ----      |
| 296     | 114 13:06:54            | 31    |        |               |         | SLEW TO G191 BKGND               |           |         | 57677:49:001F | 93-114/06:00:36 | ----      |
| 297     | 114 13:06:54            | 31    |        |               |         | B- PLATPOB                       |           |         | 57677:49:001F | 93-114/06:00:36 | ----      |
| 298     | 114 13:06:54            | 31    |        |               | AC7SPL  | (1 12 2 255 206) EL SLEW R=LOW   | AACS      |         | 57677:49:003F | 93-114/06:00:36 |           |
| 299     | 114 13:06:54            | 31    |        |               | AC7SPL  | (2 12 1 255 096) AZ SLEW R=LOW   | AACS      |         | 57677:49:004F | 93-114/06:00:36 |           |
| 300     | 114 13:07:15            | 31    |        |               |         | B- SLEND                         |           |         | 57677:49:351F | 93-114/06:00:57 | ----      |
| 301     | 114 13:07:15            | 31    |        |               | SLEWEND | AZ=129.213 EL=69.105 CO=64.285   |           |         | 57677:49:351F | 93-114/06:00:57 | ----      |
| 302     | 114 15:55:00            | 31    | 12 LOS | OPCH ACE      |         | LOS DSS-12 PASS-5726             |           |         |               |                 | ---A      |
| 303     | 114 16:15:43            | 31    | 12 SET |               |         | SET DSS-12                       |           |         |               |                 | ---V      |
| 304     | 114 17:29:07            | 32    |        |               |         | VGR-32 OWLT IS 05H 29M 07S       |           |         |               |                 | 32LT      |
| 305     | 114 18:15:00            | 32    | 45 LOS | OPCH ACE      |         | LOS DSS-45 PASS-5742             |           |         |               |                 | ---A      |
| 306     | 114 19:06:18            | 31    |        |               |         | VGR-31 OWLT IS 07H 06M 18S       |           |         |               |                 | 31LT      |
| 307     | 114 20:28:15            | 31    | 61RISE |               |         | RISE DSS-61                      |           |         |               |                 | ---V      |
| 308     | 115 01:00:00            | 31    | 61 AOS | OPCH ACE      |         | AOS DSS-61 PASS-5726 (D/L ONLY)  |           |         |               |                 | ---A      |
| 309     | 115 02:26:48            | 32    | 45 SET |               |         | SET DSS-45                       |           |         |               |                 | ---V      |





INTEGRATED SEQUENCE FOR JST A014 JSX B017 WEEK 16 DOY 93-109/00:00 - 93-116/00:00

| ITEM NO | TRM-OR-ERT DOY-HH:MM:SS | SC ID | DSN    | ACTION BY>>TO | COMMAND | EVENT-DESCRIPTION  | S/C SBSYS | TLM FMT | FDS-COUNT     | SCE-TIME        | SORT CODE |
|---------|-------------------------|-------|--------|---------------|---------|--|-----------|---------|---------------|-----------------|-----------|
| 343     | 115 19:10:56            | 31    |        |               | SC06BB  | (53 0 07 0) FDS MODE TO: CR-5T<br>PLS INTEGRATION MODE: 0.96 SEC<br>PPS SAFING COMMAND : N/A<br>ENGINEERING FORMAT : CRUISE<br>AACS READOUT MODE : TELEMETRY | FDS       |         | 57715:24:025F | 93-115/12:04:37 |           |
| 344     | 115 19:11:43            | 31    |        | ACE OPCH      |         | =====<br>FDS STATUS<br>CR-5T/X160/S10<br>MEM:PA/FDS11<br>=====   | FDS       | CR-5T   | 57715:25:001F | 93-115/12:05:24 |           |
| 345     | 115 19:11:43            | 31    |        |               | CC16C   | (7000) DTR STATE SELECT: READY   | DTR       |         | 57715:25:001F | 93-115/12:05:24 |           |
| 346     | 115 19:11:43            | 31    |        |               |         | =====<br>DTR STATUS<br>MODE:RDY RATE:000.0K<br>DIR:F TRK:3 TIC:1436<br>=====   | DTR       |         | 57715:25:001F | 93-115/12:05:24 |           |
| 347     | 115 19:11:43            | 31    |        |               | CC3A    | (32310) X-BD TMU STATE CHANGE<br>DRIVER(S) 1 AND 2 ON<br>MOD INDEX=32 DATA RATE=HIGH<br>SUBCARRIER FREQ=22.5KHZ  | MDS       |         | 57715:25:002F | 93-115/12:05:24 |           |
| 348     | 115 19:11:44            | 31    |        |               |         | END PWSREC   |           |         | 57715:25:018F | 93-115/12:05:25 | ----      |
| 349     | 115 20:42:07            | 31    |        |               | AC7SSB  | (3 -016) SS BIAS CONTROL - PITCH   | AACS      |         | 57717:18:003F | 93-115/13:35:48 |           |
| 350     | 115 21:15:00            | 31    | 42 LOS | OPCH ACE      |         | LOS DSS-42 PASS-5727   |           |         |               |                 | ---A      |
| 351     | 115 21:35:57            | 31    | 42 SET |               |         | SET DSS-42   |           |         |               |                 | ---V      |