

INTEGRATED SEQUENCE FOR JST A020F JSX B022F WEEK 47 DOY 94-325/00:00 - 94-332/00:00

| 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       | 325 00:00:00            | 31    |        |               |         | VGR-31 OWLT IS 08H 06M 25S   |           |         |               |                  | 1L        |
| 2       | 325 00:00:00            | 32    |        |               |         | VGR-32 OWLT IS 06H 14M 55S   |           |         |               |                  | 2L        |
| 3       | 325 00:55:00            | 32    | 15 LOS | OPCH ACE      |         | LOS DSS-15 PASS-6319   |           |         |               |                  | 2DP       |
| 4       | 325 01:05:11            | 32    | 10 SET |               |         | 10 DEGREE SET DSC-10   |           |         |               |                  | 2V        |
| 5       | 325 01:55:00            | 31    | 12 LOS | OPCH ACE      |         | LOS DSS-12 PASS-6303   |           |         |               |                  | 1DP       |
| 6       | 325 02:14:51            | 31    | 10 SET |               |         | 10 DEGREE SET DSC-10   |           |         |               |                  | 1V        |
| 7       | 325 03:45:00            | 32    | 42 AOS | OPCH ACE      |         | AOS DSS-42 PASS-6319 (U/L PASS)<br>XMTR ON PER TELECOM TRKING FORM |           |         |               |                  | 2DP       |
| 8       | 325 05:07:03            | 31    |        |               |         | B- UVSLEW  |           |         | 09410:34:001F | 324 21:00:35.945 | 1TB       |
| 9       | 325 05:07:03            | 31    |        |               |         | SLEW TO HELIO-X11  |           |         | 09410:34:001F | 324 21:00:35.945 | 1T        |
| 10      | 325 05:07:03            | 31    |        |               |         | B- PLATPOA   |           |         | 09410:34:001F | 324 21:00:35.945 | 1TB       |
| 11      | 325 05:07:03            | 31    |        |               | AC7SPK  | (1 12 2 068 132) EL SLEW R=LOW                                     | AACS      |         | 09410:34:003F | 324 21:00:36.069 | 1ECa      |
| 12      | 325 05:09:17            | 31    |        |               |         | B- SLEND   |           |         | 09410:36:634F | 324 21:02:49.945 | 1TB       |
| 13      | 325 05:09:17            | 31    |        |               | SLEWEND | AZ=125.000 EL=176.032 CO=170.814                                   |           |         | 09410:36:634F | 324 21:02:49.945 | 1T        |
| 14      | 325 07:15:45            | 31    | 60RISE |               |         | 10 DEGREE RISE DSC-60  |           |         |               |                  | 1V        |
| 15      | 325 07:22:57            | 31    | 40 SET |               |         | 10 DEGREE SET DSC-40   |           |         |               |                  | 1V        |
| 16      | 325 07:25:00            | 31    | 61 AOS | OPCH ACE      |         | AOS DSS-61 PASS-6303 (D/L ONLY)                                    |           |         |               |                  | 1DP       |
| 17      | 325 09:35:00            | 32    | 43 AOS | OPCH ACE      |         | AOS DSS-43 PASS-6319 (U/L PASS)<br>XMTR ON PER TELECOM TRKING FORM |           |         |               |                  | 2DP       |
| 18      | 325 09:50:00            | 32    | 42 LOS | OPCH ACE      |         | LOS DSS-42 PASS-6319   |           |         |               |                  | 2DP       |
| 19      | 325 12:00:00            | 31    |        |               |         | VGR-31 OWLT IS 08H 06M 28S   |           |         |               |                  | 1L        |
| 20      | 325 12:00:00            | 32    |        |               |         | VGR-32 OWLT IS 06H 15M 00S   |           |         |               |                  | 2L        |
| 21      | 325 12:15:00            | 32    | 43 LOS | OPCH ACE      |         | LOS DSS-43 PASS-6319   |           |         |               |                  | 2DP       |
| 22      | 325 12:20:53            | 32    | 40 SET |               |         | 10 DEGREE SET DSC-40   |           |         |               |                  | 2V        |

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|---------|-------------------------|-------|--------|---------------|---------|----------------------------------|-----------|---------|---------------|------------------|-----------|
| 23      | 325 14:40:52            | 32    | 60RISE |               |         | 10 DEGREE RISE DSC-60            |           |         |               |                  | 2V        |
| 24      | 325 14:48:03            | 31    | 10RISE |               |         | 10 DEGREE RISE DSC-10            |           |         |               |                  | 1V        |
| 25      | 325 16:08:35            | 32    | 60 SET |               |         | 10 DEGREE SET DSC-60             |           |         |               |                  | 2V        |
| 26      | 325 17:07:06            | 31    |        |               |         | B- UVSLEW                        |           |         | 09425:34:001F | 325 09:00:35.945 | 1TB       |
| 27      | 325 17:07:06            | 31    |        |               |         | SLEW TO MIDWAY                   |           |         | 09425:34:001F | 325 09:00:35.945 | 1T        |
| 28      | 325 17:07:06            | 31    |        |               |         | B- PLATPOB                       |           |         | 09425:34:001F | 325 09:00:35.945 | 1TB       |
| 29      | 325 17:07:06            | 31    |        |               | AC7SPK  | (1 12 2 121 172) EL SLEW R=LOW   | AACS      |         | 09425:34:003F | 325 09:00:36.066 | 1ECa      |
| 30      | 325 17:07:06            | 31    |        |               | AC7SPK  | (2 12 1 165 130) AZ SLEW R=LOW   | AACS      |         | 09425:34:004F | 325 09:00:36.154 | 1ECa      |
| 31      | 325 17:41:54            | 31    |        |               |         | B- SLEND                         |           |         | 09426:17:401F | 325 09:35:23.945 | 1TB       |
| 32      | 325 17:41:54            | 31    |        |               | SLEWEND | AZ=220.013 EL=100.048 CO=95.134  |           |         | 09426:17:401F | 325 09:35:23.945 | 1T        |
| 33      | 325 18:05:00            | 31    | 61 LOS | OPCH ACE      |         | LOS DSS-61 PASS-6303             |           |         |               |                  | 1DP       |
| 34      | 325 18:25:06            | 31    | 60 SET |               |         | 10 DEGREE SET DSC-60             |           |         |               |                  | 1V        |
| 35      | 325 19:58:03            | 32    |        |               | AC7SSB  | (4 +192) SS BIAS CONTROL --- YAW | AACS      |         | 03286:26:002F | 325 13:39:11.875 | 2ECa      |
| 36      | 325 20:46:50            | 32    | 10RISE |               |         | 10 DEGREE RISE DSC-10            |           |         |               |                  | 2V        |
| 37      | 325 20:50:00            | 32    | 15 AOS | OPCH ACE      |         | AOS DSS-15 PASS-6320 (D/L ONLY)  |           |         |               |                  | 2DP       |
| 38      | 325 22:02:10            | 32    | 40RISE |               |         | 10 DEGREE RISE DSC-40            |           |         |               |                  | 2V        |
| 39      | 325 22:10:57            | 31    | 40RISE |               |         | 10 DEGREE RISE DSC-40            |           |         |               |                  | 1V        |
| 40      | 325 23:07:07            | 31    |        |               | AC7SSB  | (4 +159) SS BIAS CONTROL --- YAW | AACS      |         | 09433:04:002F | 325 15:00:36.042 | 1ECa      |
| 41      | 325 23:45:00            | 31    | 12 AOS | OPCH ACE      |         | AOS DSS-12 PASS-6304 (D/L ONLY)  |           |         |               |                  | 1DP       |
| 42      | 326 00:00:00            | 31    |        |               |         | VGR-31 OWLT IS 08H 06M 31S       |           |         |               |                  | 1L        |
| 43      | 326 00:00:00            | 32    |        |               |         | VGR-32 OWLT IS 06H 15M 05S       |           |         |               |                  | 2L        |
| 44      | 326 00:55:00            | 32    | 15 LOS | OPCH ACE      |         | LOS DSS-15 PASS-6320             |           |         |               |                  | 2DP       |
| 45      | 326 01:01:20            | 32    | 10 SET |               |         | 10 DEGREE SET DSC-10             |           |         |               |                  | 2V        |

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|---------|-------------------------|-------|--------|---------------|---------|--|-----------|---------|---------------|------------------|-----------|
| 46      | 326 01:45:00            | 31    | 12 LOS | OPCH ACE      |         | LOS DSS-12 PASS-6304   |           |         |               |                  | 1DP       |
| 47      | 326 01:45:00            | 32    | 42 AOS | OPCH ACE      |         | AOS DSS-42 PASS-6320 (U/L PASS)<br>XMTR ON PER TELECOM TRKING FORM |           |         |               |                  | 2DP       |
| 48      | 326 02:10:59            | 31    | 10 SET |               |         | 10 DEGREE SET DSC-10   |           |         |               |                  | 1V        |
| 49      | 326 03:59:08            | 31    |        |               | AC7SSB  | (3 +016) SS BIAS CONTROL - PITCH                                   | AACS      |         | 09439:09:003F | 325 19:52:36.067 | 1ECa      |
| 50      | 326 05:07:09            | 31    |        |               |         | B- UVSLEW  |           |         | 09440:34:001F | 325 21:00:35.945 | 1TB       |
| 51      | 326 05:07:09            | 31    |        |               |         | SLEW TO HELIO-X10  |           |         | 09440:34:001F | 325 21:00:35.945 | 1T        |
| 52      | 326 05:07:09            | 31    |        |               |         | B- PLATPOB   |           |         | 09440:34:001F | 325 21:00:35.945 | 1TB       |
| 53      | 326 05:07:09            | 31    |        |               | AC7SPK  | (2 12 2 236 091) AZ SLEW R=LOW                                     | AACS      |         | 09440:34:003F | 325 21:00:36.066 | 1ECa      |
| 54      | 326 05:07:09            | 31    |        |               | AC7SPK  | (1 12 1 068 036) EL SLEW R=LOW                                     | AACS      |         | 09440:34:004F | 325 21:00:36.154 | 1ECa      |
| 55      | 326 05:42:40            | 31    |        |               |         | B- SLEND   |           |         | 09441:18:318F | 325 21:36:06.945 | 1TB       |
| 56      | 326 05:42:40            | 31    |        |               | SLEWEND | AZ=319.987 EL=175.032 CO=175.870                                   |           |         | 09441:18:318F | 325 21:36:06.945 | 1T        |
| 57      | 326 07:11:54            | 31    | 60RISE |               |         | 10 DEGREE RISE DSC-60  |           |         |               |                  | 1V        |
| 58      | 326 07:19:06            | 31    | 40 SET |               |         | 10 DEGREE SET DSC-40   |           |         |               |                  | 1V        |
| 59      | 326 07:25:00            | 31    | 61 AOS | OPCH ACE      |         | AOS DSS-61 PASS-6304 (D/L ONLY)                                    |           |         |               |                  | 1DP       |
| 60      | 326 09:15:00            | 32    | 43 AOS | OPCH ACE      |         | AOS DSS-43 PASS-6320 (U/L PASS)<br>XMTR ON PER TELECOM TRKING FORM |           |         |               |                  | 2DP       |
| 61      | 326 09:30:00            | 32    | 42 LOS | OPCH ACE      |         | LOS DSS-42 PASS-6320   |           |         |               |                  | 2DP       |
| 62      | 326 10:45:00            | 31    | 61 LOS | OPCH ACE      |         | LOS DSS-61 PASS-6304   |           |         |               |                  | 1DP       |
| 63      | 326 12:00:00            | 31    |        |               |         | VGR-31 OWLT IS 08H 06M 34S   |           |         |               |                  | 1L        |
| 64      | 326 12:00:00            | 32    |        |               |         | VGR-32 OWLT IS 06H 15M 10S   |           |         |               |                  | 2L        |
| 65      | 326 12:10:00            | 32    | 43 LOS | OPCH ACE      |         | LOS DSS-43 PASS-6320   |           |         |               |                  | 2DP       |
| 66      | 326 12:17:02            | 32    | 40 SET |               |         | 10 DEGREE SET DSC-40   |           |         |               |                  | 2V        |
| 67      | 326 14:37:01            | 32    | 60RISE |               |         | 10 DEGREE RISE DSC-60  |           |         |               |                  | 2V        |

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|---------|-------------------------|-------|--------|---------------|---------|--|-----------|---------|---------------|------------------|-----------|
| 68      | 326 14:44:12            | 31    | 10RISE |               |         | 10 DEGREE RISE DSC-10  |           |         |               |                  | 1V        |
| 69      | 326 14:55:00            | 31    | 12 AOS | OPCH ACE      |         | AOS DSS-12 PASS-6305 (U/L PASS)  |           |         |               |                  | 1DP       |
| 70      | 326 16:04:46            | 32    | 60 SET |               |         | 10 DEGREE SET DSC-60   |           |         |               |                  | 2V        |
| 71      | 326 17:07:12            | 31    |        |               |         | B- UVSLEW  |           |         | 09455:34:001F | 326 09:00:35.945 | 1TB       |
| 72      | 326 17:07:12            | 31    |        |               |         | SLEW TO HELIO-X9   |           |         | 09455:34:001F | 326 09:00:35.945 | 1T        |
| 73      | 326 17:07:12            | 31    |        |               |         | B- PLATPOB   |           |         | 09455:34:001F | 326 09:00:35.945 | 1TB       |
| 74      | 326 17:07:12            | 31    |        |               | AC7SPK  | (1 12 1 076 107) EL SLEW R=LOW   | AACS      |         | 09455:34:003F | 326 09:00:36.066 | 1ECa      |
| 75      | 326 17:07:12            | 31    |        |               | AC7SPL  | (2 12 1 255 222) AZ SLEW R=LOW   | AACS      |         | 09455:34:004F | 326 09:00:36.154 | 1ECa      |
| 76      | 326 17:09:24            | 31    |        |               |         | B- SLEND   |           |         | 09455:36:601F | 326 09:02:47.945 | 1TB       |
| 77      | 326 17:09:24            | 31    |        |               | SLEWEND | AZ=319.959 EL=165.546 CO=169.479   |           |         | 09455:36:601F | 326 09:02:47.945 | 1T        |
| 78      | 326 18:21:16            | 31    | 60 SET |               |         | 10 DEGREE SET DSC-60   |           |         |               |                  | 1V        |
| 79      | 326 20:42:59            | 32    | 10RISE |               |         | 10 DEGREE RISE DSC-10  |           |         |               |                  | 2V        |
| 80      | 326 20:45:00            | 32    | 15 AOS | OPCH ACE      |         | AOS DSS-15 PASS-6321 (D/L ONLY)  |           |         |               |                  | 2DP       |
| 81      | 326 21:58:19            | 32    | 40RISE |               |         | 10 DEGREE RISE DSC-40  |           |         |               |                  | 2V        |
| 82      | 326 22:07:05            | 31    | 40RISE |               |         | 10 DEGREE RISE DSC-40  |           |         |               |                  | 1V        |
| 83      | 326 23:54:50            | 32    |        | ACE OPCH      |         | >>>>>>> 5 MIN WARNING <<<<<<<<<<<br>FOR FDS MODE OR FDS STATUS CHG   |           |         |               |                  | 2ESf      |
| 84      | 326 23:54:50            | 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 |           |         |               |                  | 22EC      |
| 85      | 326 23:55:38            | 32    |        | ACE OPCH      |         | >>>>>>> 5 MIN WARNING <<<<<<<<<<<br>FOR FDS MODE OR FDS STATUS CHG   |           |         |               |                  | 2ESf      |
| 86      | 326 23:55:38            | 32    |        | 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 |           |         |               |                  | 22EC      |

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|---------|-------------------------|-------|-----|---------------|---------|--|-----------|---------|---------------|------------------|-----------|
| 87      | 326 23:59:02            | 32    |     |               |         | BEGIN PWSREC   |           |         | 03321:27:001F | 326 17:39:59.774 | 2T        |
| 88      | 326 23:59:02            | 32    |     |               |         | B- DRGS4B  |           |         | 03321:27:001F | 326 17:39:59.774 | 2TB       |
| 89      | 326 23:59:02            | 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       |         | 03321:27:009F | 326 17:40:00.248 | 2ECf      |
| 90      | 326 23:59:46            | 32    |     |               |         | BEGIN RECORDING PWS DATA   |           |         | 03321:27:734F | 326 17:40:43.774 | 2T        |
| 91      | 326 23:59:46            | 32    |     |               | CC16C   | (3000) DTR STATE SELECT:115.2REC   | DTR       |         | 03321:27:734F | 326 17:40:43.795 | 2ECd      |
| 92      | 326 23:59:46            | 32    |     |               |         | DTR STATUS<br>MODE:REC RATE:115.2K<br>DIR:R TRK:2 TIC:3540   | DTR       |         | 03321:27:734F | 326 17:40:43.795 | 2ESd      |
| 93      | 326 23:59:50            | 32    |     | ACE OPCH      |         | FDS STATUS<br>GS-4B/X2.8K/S40<br>MEM:PB/FDS11 SA/FDS11<br>-----> GS-4B NOT RECOVERABLE<br>----> RETAIN CR-5T CONFIGURATION                                   | FDS       | GS-4B   | 03321:28:001F | 326 17:40:47.768 | 2ESf      |
| 94      | 326 23:59:50            | 32    |     |               | 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       |         | 03321:28:001F | 326 17:40:47.823 | 2ECs      |
| 95      | 326 23:59:51            | 32    |     |               |         | B- DRCRUS  |           |         | 03321:28:018F | 326 17:40:48.774 | 2TB       |
| 96      | 326 23:59:51            | 32    |     |               | 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       |         | 03321:28:025F | 326 17:40:49.208 | 2ECf      |
| 97      | 327 00:00:00            | 31    |     |               |         | VGR-31 OWLT IS 08H 06M 37S   |           |         |               |                  | 1L        |
| 98      | 327 00:00:00            | 32    |     |               |         | VGR-32 OWLT IS 06H 15M 15S   |           |         |               |                  | 2L        |

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|---------|-------------------------|-------|-----|---------------|---------|--|-----------|---------|---------------|------------------|-----------|
| 99      | 327 00:00:38            | 32    |     | ACE OPCH      |         | FDS STATUS<br>CR-5T/X160/S10<br>MEM:PB/FDS11 SA/FDS11  | FDS       | CR-5T   | 03321:29:001F | 326 17:41:35.768 | 2ESf      |
| 100     | 327 00:00:38            | 32    |     |               | CC16C   | (7000) DTR STATE SELECT: READY   | DTR       |         | 03321:29:001F | 326 17:41:35.799 | 2ECd      |
| 101     | 327 00:00:38            | 32    |     |               |         | DTR STATUS<br>MODE:RDY RATE:000.0K<br>DIR:R TRK:2 TIC:3249   | DTR       |         | 03321:29:001F | 326 17:41:35.799 | 2ESd      |
| 102     | 327 00:00:38            | 32    |     |               | 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       |         | 03321:29:002F | 326 17:41:35.848 | 2ECs      |
| 103     | 327 00:00:39            | 32    |     |               |         | END PWSREC   |           |         | 03321:29:018F | 326 17:41:36.774 | 2T        |
| 104     | 327 00:19:49            | 31    |     | ACE OPCH      |         | >>>>>>> 5 MIN WARNING <<<<<<<<<<<br>FOR FDS MODE OR FDS STATUS CHG   |           |         |               |                  | 1ESf      |
| 105     | 327 00:19:49            | 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 |           |         |               |                  | 11EC      |
| 106     | 327 00:20:37            | 31    |     | ACE OPCH      |         | >>>>>>> 5 MIN WARNING <<<<<<<<<<<br>FOR FDS MODE OR FDS STATUS CHG   |           |         |               |                  | 1ESf      |
| 107     | 327 00:20:37            | 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 |           |         |               |                  | 11EC      |
| 108     | 327 00:23:13            | 31    |     |               |         | BEGIN PWSREC   |           |         | 09464:39:001F | 326 16:16:35.945 | 1T        |
| 109     | 327 00:23:13            | 31    |     |               | SC32AJ  | (10) PLS CONFIG CMD  | FDS       |         | 09464:39:009F | 326 16:16:36.419 | 1ECf      |
| 110     | 327 00:24:01            | 31    |     |               |         | B- DRGS4B  |           |         | 09464:40:001F | 326 16:17:23.945 | 1TB       |

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|---------|-------------------------|-------|-----|---------------|---------|--|-----------|---------|---------------|------------------|-----------|
| 111     | 327 00:24:01            | 31    |     |               | 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       |         | 09464:40:009F | 326 16:17:24.419 | 1ECf      |
| 112     | 327 00:24:45            | 31    |     |               |         | BEGIN RECORDING PWS DATA   |           |         | 09464:40:734F | 326 16:18:07.945 | 1T        |
| 113     | 327 00:24:45            | 31    |     |               | CC16C   | (3000) DTR STATE SELECT:115.2REC   | DTR       |         | 09464:40:734F | 326 16:18:07.966 | 1ECd      |
| 114     | 327 00:24:45            | 31    |     |               |         | DTR STATUS<br>MODE:REC RATE:115.2K<br>DIR:F TRK:1 TIC:1447   | DTR       |         | 09464:40:734F | 326 16:18:07.966 | 1ESd      |
| 115     | 327 00:24:49            | 31    |     | ACE OPCH      |         | FDS STATUS<br>GS-4B/X2.8K/S40<br>MEM:PA/FDS11<br>-----> GS-4B NOT RECOVERABLE<br>----> RETAIN CR-5T CONFIGURATION  | FDS       | GS-4B   | 09464:41:001F | 326 16:18:11.939 | 1ESf      |
| 116     | 327 00:24:49            | 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       |         | 09464:41:001F | 326 16:18:11.996 | 1ECs      |
| 117     | 327 00:24:50            | 31    |     |               |         | B- DRCRUS  |           |         | 09464:41:018F | 326 16:18:12.945 | 1TB       |
| 118     | 327 00:24:50            | 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       |         | 09464:41:025F | 326 16:18:13.379 | 1ECf      |
| 119     | 327 00:25:37            | 31    |     | ACE OPCH      |         | FDS STATUS<br>CR-5T/X160/S10<br>MEM:PA/FDS11   | FDS       | CR-5T   | 09464:42:001F | 326 16:18:59.939 | 1ESf      |
| 120     | 327 00:25:37            | 31    |     |               | CC16C   | (7000) DTR STATE SELECT: READY   | DTR       |         | 09464:42:001F | 326 16:18:59.971 | 1ECd      |

INTEGRATED SEQUENCE FOR JST A020F JSX B022F WEEK 47 DOY 94-325/00:00 - 94-332/00:00

| 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 |
|---------|-------------------------|-------|--------|---------------|---------|---|-----------|---------|---------------|------------------|-----------|
| 121     | 327 00:25:37            | 31    |        |               |         | DTR STATUS<br>MODE:RDY RATE:000.0K<br>DIR:F TRK:1 TIC:1740  | DTR       |         | 09464:42:001F | 326 16:18:59.971 | 1ESd      |
| 122     | 327 00:25:37            | 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       |         | 09464:42:002F | 326 16:19:00.025 | 1ECs      |
| 123     | 327 00:26:25            | 31    |        |               | SC32AJ  | (11) PLS CONFIG CMD   | FDS       |         | 09464:43:009F | 326 16:19:48.419 | 1ECF      |
| 124     | 327 00:26:26            | 31    |        |               |         | END PWSREC  |           |         | 09464:43:018F | 326 16:19:48.945 | 1T        |
| 125     | 327 00:40:00            | 32    | 42 AOS | OPCH ACE      |         | AOS DSS-42 PASS-6321 (U/L PASS)<br>XMTR ON PER TELECOM TRKING FORM  |           |         |               |                  | 2DP       |
| 126     | 327 00:50:00            | 32    | 15 LOS | OPCH ACE      |         | LOS DSS-15 PASS-6321  |           |         |               |                  | 2DP       |
| 127     | 327 00:57:30            | 32    | 10 SET |               |         | 10 DEGREE SET DSC-10  |           |         |               |                  | 2V        |
| 128     | 327 01:50:00            | 31    | 12 LOS | OPCH ACE      |         | LOS DSS-12 PASS-6305  |           |         |               |                  | 1DP       |
| 129     | 327 02:07:07            | 31    | 10 SET |               |         | 10 DEGREE SET DSC-10  |           |         |               |                  | 1V        |
| 130     | 327 05:07:14            | 31    |        |               |         | B- UVSLEW   |           |         | 09470:34:001F | 326 21:00:35.945 | 1TB       |
| 131     | 327 05:07:14            | 31    |        |               |         | SLEW TO HELIO-X8  |           |         | 09470:34:001F | 326 21:00:35.945 | 1T        |
| 132     | 327 05:07:14            | 31    |        |               |         | B- PLATPOA  |           |         | 09470:34:001F | 326 21:00:35.945 | 1TB       |
| 133     | 327 05:07:14            | 31    |        |               | AC7SPK  | (1 12 1 082 178) EL SLEW R=LOW  | AACS      |         | 09470:34:002F | 326 21:00:36.058 | 1ECa      |
| 134     | 327 05:09:17            | 31    |        |               |         | B- SLEND  |           |         | 09470:36:434F | 326 21:02:37.945 | 1TB       |
| 135     | 327 05:09:17            | 31    |        |               | SLEWEND | AZ=319.959 EL=156.036 CO=160.397  |           |         | 09470:36:434F | 326 21:02:37.945 | 1T        |
| 136     | 327 07:08:03            | 31    | 60RISE |               |         | 10 DEGREE RISE DSC-60   |           |         |               |                  | 1V        |
| 137     | 327 07:15:15            | 31    | 40 SET |               |         | 10 DEGREE SET DSC-40  |           |         |               |                  | 1V        |
| 138     | 327 07:20:00            | 31    | 61 AOS | OPCH ACE      |         | AOS DSS-61 PASS-6305 (D/L ONLY)   |           |         |               |                  | 1DP       |
| 139     | 327 09:15:00            | 32    | 43 AOS | OPCH ACE      |         | AOS DSS-43 PASS-6321 (U/L PASS)<br>XMTR ON PER TELECOM TRKING FORM  |           |         |               |                  | 2DP       |



INTEGRATED SEQUENCE FOR JST A020F JSX B022F WEEK 47 DOY 94-325/00:00 - 94-332/00:00

| 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 |
|---------|-------------------------|-------|--------|---------------|---------|--|-----------|---------|---------------|------------------|-----------|
| 140     | 327 09:16:30            | 32    |        | ACE OPCH      |         | >>>>>> 5 MIN WARNING <<<<<<<<<<<br>FOR FDS MODE OR FDS STATUS CHG  |           |         |               |                  | 2ESf      |
| 141     | 327 09:16:30            | 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                                      |           |         |               |                  | 22EC      |
| 142     | 327 09:19:54            | 32    |        |               |         | B- SUNMON03  |           |         | 03333:08:001F | 327 03:00:47.774 | 2TB       |
| 143     | 327 09:19:54            | 32    |        |               |         | BEGIN SUNMON03   |           |         | 03333:08:001F | 327 03:00:47.774 | 2T        |
| 144     | 327 09:19:54            | 32    |        |               |         | SC34AE03   |           |         | 03333:08:001F | 327 03:00:47.774 | 2T        |
| 145     | 327 09:19:54            | 32    |        |               | SC34AE  | (0 3) UVS COMMAND WORD<br>MODE: PULSE HEIGHT HV LEVEL: 3   | FDS       |         | 03333:08:009F | 327 03:00:48.248 | 2ECf      |
| 146     | 327 09:20:42            | 32    |        |               |         | B- DRUV5A  |           |         | 03333:09:001F | 327 03:01:35.774 | 2TB       |
| 147     | 327 09:20:42            | 32    |        |               | SC06BB  | (50 0 07 0) FDS MODE TO: UV-5A<br>PLS INTEGRATION MODE: 0.96 SEC<br>PPS SAFING COMMAND : N/A<br>ENGINEERING FORMAT : CRUISE<br>AACS READOUT MODE : TELEMETRY | FDS       |         | 03333:09:009F | 327 03:01:36.248 | 2ECf      |
| 148     | 327 09:21:30            | 32    |        | ACE OPCH      |         | FDS STATUS<br>UV-5A/X600/S10<br>MEM:PB/FDS11 SA/FDS11  | FDS       | UV-5A   | 03333:10:001F | 327 03:02:23.768 | 2ESf      |
| 149     | 327 09:21:30            | 32    |        |               | CC3A    | (36310) X-BD TMU STATE CHANGE<br>DRIVER(S) 1 AND 2 ON<br>MOD INDEX=36 DATA RATE=HIGH<br>SUBCARRIER FREQ=22.5KHZ  | MDS       |         | 03333:10:001F | 327 03:02:23.823 | 2ECs      |
| 150     | 327 09:30:00            | 32    | 42 LOS | OPCH ACE      |         | LOS DSS-42 PASS-6321   |           |         |               |                  | 2DP       |
| 151     | 327 09:35:54            | 32    |        |               |         | SLEW OCC PORT TO SUN +1 EL   |           |         | 03333:28:001F | 327 03:16:47.774 | 2T        |
| 152     | 327 09:35:54            | 32    |        |               |         | B- PLATPOB   |           |         | 03333:28:001F | 327 03:16:47.774 | 2TB       |
| 153     | 327 09:35:54            | 32    |        |               | AC7SPK  | (2 12 2 141 084) AZ SLEW R=LOW   | AACS      |         | 03333:28:003F | 327 03:16:47.895 | 2ECa      |
| 154     | 327 09:35:54            | 32    |        |               | AC7SPL  | (1 12 1 255 227) EL SLEW R=LOW   | AACS      |         | 03333:28:004F | 327 03:16:47.983 | 2ECa      |

INTEGRATED SEQUENCE FOR JST A020F JSX B022F WEEK 47 DOY 94-325/00:00 - 94-332/00:00

| 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 |
|---------|-------------------------|-------|-----|---------------|---------|--|-----------|---------|---------------|------------------|-----------|
| 155     | 327 09:39:47            | 32    |     |               |         | B- SLEND   |           |         | 03333:32:684F | 327 03:20:40.774 | 2TB       |
| 156     | 327 09:39:47            | 32    |     |               | SLEWEND | AZ=184.951 EL=27.294 CO=1.047  |           |         | 03333:32:684F | 327 03:20:40.774 | 2T        |
| 157     | 327 10:19:54            | 32    |     |               |         | BEGIN HV-03 SWATHS   |           |         | 03334:23:001F | 327 04:00:47.774 | 2T        |
| 158     | 327 10:19:54            | 32    |     |               |         | SLEW VLO -2 DELTA EL ACROSS SUN  |           |         | 03334:23:001F | 327 04:00:47.774 | 2T        |
| 159     | 327 10:19:54            | 32    |     |               |         | B- PLATPOA   |           |         | 03334:23:001F | 327 04:00:47.774 | 2TB       |
| 160     | 327 10:19:54            | 32    |     |               | AC7SPL  | (1 27 2 255 165) EL SLEW R=VLOW  | AACS      |         | 03334:23:002F | 327 04:00:47.887 | 2ECa      |
| 161     | 327 10:26:34            | 32    |     |               |         | B- SLEND   |           |         | 03334:31:268F | 327 04:07:27.774 | 2TB       |
| 162     | 327 10:26:34            | 32    |     |               | SLEWEND | AZ=184.951 EL=25.298 CO=.972   |           |         | 03334:31:268F | 327 04:07:27.774 | 2T        |
| 163     | 327 10:28:42            | 32    |     |               |         | SLEW VLO +2 DELTA EL ACROSS SUN  |           |         | 03334:34:001F | 327 04:09:35.774 | 2T        |
| 164     | 327 10:28:42            | 32    |     |               |         | B- PLATPOA   |           |         | 03334:34:001F | 327 04:09:35.774 | 2TB       |
| 165     | 327 10:28:42            | 32    |     |               | AC7SPL  | (1 27 2 255 095) EL SLEW R=VLOW  | AACS      |         | 03334:34:002F | 327 04:09:35.887 | 2ECa      |
| 166     | 327 10:35:42            | 32    |     | ACE OPCH      |         | >>>>>>> 5 MIN WARNING <<<<<<<<<<<br>FOR FDS MODE OR FDS STATUS CHG   |           |         |               |                  | 2ESf      |
| 167     | 327 10:35:42            | 32    |     | 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 |           |         |               |                  | 22EC      |
| 168     | 327 10:36:42            | 32    |     |               |         | END HV-03 SWATHS   |           |         | 03334:44:001F | 327 04:17:35.774 | 2T        |
| 169     | 327 10:36:46            | 32    |     |               |         | B- SLEND   |           |         | 03334:44:068F | 327 04:17:39.774 | 2TB       |
| 170     | 327 10:36:46            | 32    |     |               | SLEWEND | AZ=184.951 EL=27.288 CO=1.008  |           |         | 03334:44:068F | 327 04:17:39.774 | 2T        |
| 171     | 327 10:37:30            | 32    |     |               |         | END SUNMON03 SLEWS   |           |         | 03334:45:001F | 327 04:18:23.774 | 2T        |
| 172     | 327 10:37:30            | 32    |     |               |         | SC34AE13   |           |         | 03334:45:001F | 327 04:18:23.774 | 2T        |
| 173     | 327 10:37:30            | 32    |     |               | SC34AE  | (1 3) UVS COMMAND WORD<br>MODE: PULSE COUNT HV LEVEL: 3  | FDS       |         | 03334:45:009F | 327 04:18:24.248 | 2ECf      |
| 174     | 327 10:38:18            | 32    |     |               |         | SLEW AWAY TO SAFE  |           |         | 03334:46:001F | 327 04:19:11.774 | 2T        |
| 175     | 327 10:38:18            | 32    |     |               |         | B- PLATPOB   |           |         | 03334:46:001F | 327 04:19:11.774 | 2TB       |

INTEGRATED SEQUENCE FOR JST A020F JSX B022F WEEK 47 DOY 94-325/00:00 - 94-332/00:00

| 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 |
|---------|-------------------------|-------|--------|---------------|---------|--|-----------|---------|---------------|------------------|-----------|
| 176     | 327 10:38:18            | 32    |        |               | AC7SPL  | (1 12 1 255 132) EL SLEW R=LOW   | AACS      |         | 03334:46:003F | 327 04:19:11.895 | 2ECa      |
| 177     | 327 10:38:18            | 32    |        |               | AC7SPK  | (2 12 2 151 090) AZ SLEW R=LOW   | AACS      |         | 03334:46:004F | 327 04:19:11.983 | 2ECa      |
| 178     | 327 10:39:54            | 32    |        |               |         | B- DRCRUS  |           |         | 03334:48:001F | 327 04:20:47.774 | 2TB       |
| 179     | 327 10:39:54            | 32    |        |               | 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       |         | 03334:48:009F | 327 04:20:48.248 | 2ECf      |
| 180     | 327 10:39:55            | 32    |        |               |         | END SUNMON03   |           |         | 03334:48:018F | 327 04:20:48.774 | 2T        |
| 181     | 327 10:40:42            | 32    |        | ACE OPCH      |         |  | FDS       | CR-5T   | 03334:49:001F | 327 04:21:35.768 | 2ESf      |
|         |                         |       |        |               |         | FDS STATUS<br>CR-5T/X160/S10<br>MEM:PB/FDS11 SA/FDS11  |           |         |               |                  |           |
| 182     | 327 10:40:42            | 32    |        |               | 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       |         | 03334:49:001F | 327 04:21:35.823 | 2ECs      |
| 183     | 327 10:42:05            | 32    |        |               |         | B- SLEND   |           |         | 03334:50:584F | 327 04:22:58.774 | 2TB       |
| 184     | 327 10:42:05            | 32    |        |               | SLEWEND | AZ=200.075 EL=30.001 CO=23.254   |           |         | 03334:50:584F | 327 04:22:58.774 | 2T        |
| 185     | 327 12:00:00            | 31    |        |               |         | VGR-31 OWLT IS 08H 06M 40S   |           |         |               |                  | 1L        |
| 186     | 327 12:00:00            | 32    |        |               |         | VGR-32 OWLT IS 06H 15M 20S   |           |         |               |                  | 2L        |
| 187     | 327 12:05:00            | 32    | 43 LOS | OPCH ACE      |         | LOS DSS-43 PASS-6321   |           |         |               |                  | 2DP       |
| 188     | 327 12:13:11            | 32    | 40 SET |               |         | 10 DEGREE SET DSC-40   |           |         |               |                  | 2V        |
| 189     | 327 14:33:09            | 32    | 60RISE |               |         | 10 DEGREE RISE DSC-60  |           |         |               |                  | 2V        |
| 190     | 327 14:40:21            | 31    | 10RISE |               |         | 10 DEGREE RISE DSC-10  |           |         |               |                  | 1V        |
| 191     | 327 15:04:44            | 32    |        |               | AC7SSB  | (3 -010) SS BIAS CONTROL - PITCH   | AACS      |         | 03340:19:003F | 327 08:45:35.898 | 2ECa      |
| 192     | 327 16:00:57            | 32    | 60 SET |               |         | 10 DEGREE SET DSC-60   |           |         |               |                  | 2V        |
| 193     | 327 17:07:17            | 31    |        |               |         | B- UVSLEW  |           |         | 09485:34:001F | 327 09:00:35.945 | 1TB       |

INTEGRATED SEQUENCE FOR JST A020F JSX B022F WEEK 47 DOY 94-325/00:00 - 94-332/00:00

| 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 |
|---------|-------------------------|-------|--------|---------------|---------|----------------------------------|-----------|---------|---------------|------------------|-----------|
| 194     | 327 17:07:17            | 31    |        |               |         | SLEW TO HELIO-X7                 |           |         | 09485:34:001F | 327 09:00:35.945 | 1T        |
| 195     | 327 17:07:17            | 31    |        |               |         | B- PLATPOA                       |           |         | 09485:34:001F | 327 09:00:35.945 | 1TB       |
| 196     | 327 17:07:17            | 31    |        |               | AC7SPK  | (1 12 1 088 231) EL SLEW R=LOW   | AACS      |         | 09485:34:002F | 327 09:00:36.058 | 1ECa      |
| 197     | 327 17:09:13            | 31    |        |               |         | B- SLEND                         |           |         | 09485:36:334F | 327 09:02:31.945 | 1TB       |
| 198     | 327 17:09:13            | 31    |        |               | SLEWEND | AZ=319.959 EL=147.031 CO=151.550 |           |         | 09485:36:334F | 327 09:02:31.945 | 1T        |
| 199     | 327 17:45:00            | 31    | 12 AOS | OPCH ACE      |         | AOS DSS-12 PASS-6306 (D/L ONLY)  |           |         |               |                  | 1DP       |
| 200     | 327 18:00:00            | 31    | 61 LOS | OPCH ACE      |         | LOS DSS-61 PASS-6305             |           |         |               |                  | 1DP       |
| 201     | 327 18:17:26            | 31    | 60 SET |               |         | 10 DEGREE SET DSC-60             |           |         |               |                  | 1V        |
| 202     | 327 20:39:09            | 32    | 10RISE |               |         | 10 DEGREE RISE DSC-10            |           |         |               |                  | 2V        |
| 203     | 327 20:40:00            | 32    | 15 AOS | OPCH ACE      |         | AOS DSS-15 PASS-6322 (D/L ONLY)  |           |         |               |                  | 2DP       |
| 204     | 327 21:54:29            | 32    | 40RISE |               |         | 10 DEGREE RISE DSC-40            |           |         |               |                  | 2V        |
| 205     | 327 22:03:13            | 31    | 40RISE |               |         | 10 DEGREE RISE DSC-40            |           |         |               |                  | 1V        |
| 206     | 328 00:00:00            | 31    |        |               |         | VGR-31 OWLT IS 08H 06M 43S       |           |         |               |                  | 1L        |
| 207     | 328 00:00:00            | 32    |        |               |         | VGR-32 OWLT IS 06H 15M 24S       |           |         |               |                  | 2L        |
| 208     | 328 00:45:00            | 32    | 15 LOS | OPCH ACE      |         | LOS DSS-15 PASS-6322             |           |         |               |                  | 2DP       |
| 209     | 328 00:53:40            | 32    | 10 SET |               |         | 10 DEGREE SET DSC-10             |           |         |               |                  | 2V        |
| 210     | 328 01:45:00            | 31    | 12 LOS | OPCH ACE      |         | LOS DSS-12 PASS-6306             |           |         |               |                  | 1DP       |
| 211     | 328 02:03:15            | 31    | 10 SET |               |         | 10 DEGREE SET DSC-10             |           |         |               |                  | 1V        |
| 212     | 328 05:07:20            | 31    |        |               |         | B- UVSLEW                        |           |         | 09500:34:001F | 327 21:00:35.945 | 1TB       |
| 213     | 328 05:07:20            | 31    |        |               |         | SLEW TO HELIO-X6                 |           |         | 09500:34:001F | 327 21:00:35.945 | 1T        |
| 214     | 328 05:07:20            | 31    |        |               |         | B- PLATPOA                       |           |         | 09500:34:001F | 327 21:00:35.945 | 1TB       |
| 215     | 328 05:07:20            | 31    |        |               | AC7SPK  | (1 12 1 097 161) EL SLEW R=LOW   | AACS      |         | 09500:34:002F | 327 21:00:36.058 | 1ECa      |
| 216     | 328 05:10:04            | 31    |        |               |         | B- SLEND                         |           |         | 09500:37:334F | 327 21:03:19.945 | 1TB       |

INTEGRATED SEQUENCE FOR JST A020F JSX B022F WEEK 47 DOY 94-325/00:00 - 94-332/00:00

| 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 |
|---------|-------------------------|-------|--------|---------------|---------|--|-----------|---------|---------------|------------------|-----------|
| 217     | 328 05:10:04            | 31    |        |               | SLEWEND | AZ=319.959 EL=134.030 CO=138.655                                   |           |         | 09500:37:334F | 327 21:03:19.945 | 1T        |
| 218     | 328 05:45:00            | 32    | 42 AOS | OPCH ACE      |         | AOS DSS-42 PASS-6322 (U/L PASS)<br>XMTR ON PER TELECOM TRKING FORM |           |         |               |                  | 2DP       |
| 219     | 328 07:04:13            | 31    | 60RISE |               |         | 10 DEGREE RISE DSC-60  |           |         |               |                  | 1V        |
| 220     | 328 07:11:25            | 31    | 40 SET |               |         | 10 DEGREE SET DSC-40   |           |         |               |                  | 1V        |
| 221     | 328 07:15:00            | 31    | 61 AOS | OPCH ACE      |         | AOS DSS-61 PASS-6306 (D/L ONLY)                                    |           |         |               |                  | 1DP       |
| 222     | 328 11:35:00            | 32    | 42 LOS | OPCH ACE      |         | LOS DSS-42 PASS-6322   |           |         |               |                  | 2DP       |
| 223     | 328 12:00:00            | 31    |        |               |         | VGR-31 OWLT IS 08H 06M 46S   |           |         |               |                  | 1L        |
| 224     | 328 12:00:00            | 32    |        |               |         | VGR-32 OWLT IS 06H 15M 29S   |           |         |               |                  | 2L        |
| 225     | 328 12:09:21            | 32    | 40 SET |               |         | 10 DEGREE SET DSC-40   |           |         |               |                  | 2V        |
| 226     | 328 14:29:18            | 32    | 60RISE |               |         | 10 DEGREE RISE DSC-60  |           |         |               |                  | 2V        |
| 227     | 328 14:36:30            | 31    | 10RISE |               |         | 10 DEGREE RISE DSC-10  |           |         |               |                  | 1V        |
| 228     | 328 15:57:07            | 32    | 60 SET |               |         | 10 DEGREE SET DSC-60   |           |         |               |                  | 2V        |
| 229     | 328 17:07:23            | 31    |        |               |         | B- UVSLEW  |           |         | 09515:34:001F | 328 09:00:35.945 | 1TB       |
| 230     | 328 17:07:23            | 31    |        |               |         | SLEW TO HELIO-X5   |           |         | 09515:34:001F | 328 09:00:35.945 | 1T        |
| 231     | 328 17:07:23            | 31    |        |               |         | B- PLATPOA   |           |         | 09515:34:001F | 328 09:00:35.945 | 1TB       |
| 232     | 328 17:07:23            | 31    |        |               | AC7SPK  | (1 12 1 104 214) EL SLEW R=LOW                                     | AACS      |         | 09515:34:002F | 328 09:00:36.058 | 1ECa      |
| 233     | 328 17:09:18            | 31    |        |               |         | B- SLEND   |           |         | 09515:36:318F | 328 09:02:30.945 | 1TB       |
| 234     | 328 17:09:18            | 31    |        |               | SLEWEND | AZ=319.959 EL=125.038 CO=129.698                                   |           |         | 09515:36:318F | 328 09:02:30.945 | 1T        |
| 235     | 328 17:40:00            | 31    | 12 AOS | OPCH ACE      |         | AOS DSS-12 PASS-6307 (D/L ONLY)                                    |           |         |               |                  | 1DP       |
| 236     | 328 17:55:00            | 31    | 61 LOS | OPCH ACE      |         | LOS DSS-61 PASS-6306   |           |         |               |                  | 1DP       |
| 237     | 328 18:13:34            | 31    | 60 SET |               |         | 10 DEGREE SET DSC-60   |           |         |               |                  | 1V        |
| 238     | 328 18:24:55            | 32    |        |               | AC7SSB  | (4 +191) SS BIAS CONTROL --- YAW                                   | AACS      |         | 03374:29:003F | 328 12:05:35.899 | 2ECa      |
| 239     | 328 19:24:12            | 31    |        |               | AC7SSB  | (4 +160) SS BIAS CONTROL --- YAW                                   | AACS      |         | 09518:25:003F | 328 11:17:24.067 | 1ECa      |

INTEGRATED SEQUENCE FOR JST A020F JSX B022F WEEK 47 DOY 94-325/00:00 - 94-332/00:00

| 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 |
|---------|-------------------------|-------|--------|---------------|---------|--|-----------|---------|---------------|------------------|-----------|
| 240     | 328 20:35:00            | 32    | 15 AOS | OPCH ACE      |         | AOS DSS-15 PASS-6323 (D/L ONLY)                                    |           |         |               |                  | 2DP       |
| 241     | 328 20:35:18            | 32    | 10RISE |               |         | 10 DEGREE RISE DSC-10  |           |         |               |                  | 2V        |
| 242     | 328 21:50:39            | 32    | 40RISE |               |         | 10 DEGREE RISE DSC-40  |           |         |               |                  | 2V        |
| 243     | 328 21:59:21            | 31    | 40RISE |               |         | 10 DEGREE RISE DSC-40  |           |         |               |                  | 1V        |
| 244     | 329 00:00:00            | 31    |        |               |         | VGR-31 OWLT IS 08H 06M 49S   |           |         |               |                  | 1L        |
| 245     | 329 00:00:00            | 32    |        |               |         | VGR-32 OWLT IS 06H 15M 34S   |           |         |               |                  | 2L        |
| 246     | 329 00:30:00            | 32    | 42 AOS | OPCH ACE      |         | AOS DSS-42 PASS-6323 (U/L PASS)<br>XMTR ON PER TELECOM TRKING FORM |           |         |               |                  | 2DP       |
| 247     | 329 00:40:00            | 32    | 15 LOS | OPCH ACE      |         | LOS DSS-15 PASS-6323   |           |         |               |                  | 2DP       |
| 248     | 329 00:49:50            | 32    | 10 SET |               |         | 10 DEGREE SET DSC-10   |           |         |               |                  | 2V        |
| 249     | 329 01:40:00            | 31    | 12 LOS | OPCH ACE      |         | LOS DSS-12 PASS-6307   |           |         |               |                  | 1DP       |
| 250     | 329 01:59:23            | 31    | 10 SET |               |         | 10 DEGREE SET DSC-10   |           |         |               |                  | 1V        |
| 251     | 329 05:07:26            | 31    |        |               |         | B- UVSLEW  |           |         | 09530:34:001F | 328 21:00:35.945 | 1TB       |
| 252     | 329 05:07:26            | 31    |        |               |         | SLEW TO HELIO-X4   |           |         | 09530:34:001F | 328 21:00:35.945 | 1T        |
| 253     | 329 05:07:26            | 31    |        |               |         | B- PLATPOA   |           |         | 09530:34:001F | 328 21:00:35.945 | 1TB       |
| 254     | 329 05:07:26            | 31    |        |               | AC7SPK  | (1 12 2 111 171) EL SLEW R=LOW                                     | AACS      |         | 09530:34:002F | 328 21:00:36.058 | 1ECa      |
| 255     | 329 05:09:34            | 31    |        |               |         | B- SLEND   |           |         | 09530:36:534F | 328 21:02:43.945 | 1TB       |
| 256     | 329 05:09:34            | 31    |        |               | SLEWEND | AZ=319.959 EL=115.043 CO=119.701                                   |           |         | 09530:36:534F | 328 21:02:43.945 | 1T        |
| 257     | 329 07:00:22            | 31    | 60RISE |               |         | 10 DEGREE RISE DSC-60  |           |         |               |                  | 1V        |
| 258     | 329 07:07:34            | 31    | 40 SET |               |         | 10 DEGREE SET DSC-40   |           |         |               |                  | 1V        |
| 259     | 329 07:15:00            | 31    | 61 AOS | OPCH ACE      |         | AOS DSS-61 PASS-6307 (D/L ONLY)                                    |           |         |               |                  | 1DP       |
| 260     | 329 09:05:00            | 32    | 43 AOS | OPCH ACE      |         | AOS DSS-43 PASS-6323 (U/L PASS)<br>XMTR ON PER TELECOM TRKING FORM |           |         |               |                  | 2DP       |
| 261     | 329 09:20:00            | 32    | 42 LOS | OPCH ACE      |         | LOS DSS-42 PASS-6323   |           |         |               |                  | 2DP       |

INTEGRATED SEQUENCE FOR JST A020F JSX B022F WEEK 47 DOY 94-325/00:00 - 94-332/00:00

| 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 |
|---------|-------------------------|-------|--------|---------------|---------|--|-----------|---------|---------------|------------------|-----------|
| 262     | 329 11:55:00            | 32    | 43 LOS | OPCH ACE      |         | LOS DSS-43 PASS-6323   |           |         |               |                  | 2DP       |
| 263     | 329 12:00:00            | 31    |        |               |         | VGR-31 OWLT IS 08H 06M 51S   |           |         |               |                  | 1L        |
| 264     | 329 12:00:00            | 32    |        |               |         | VGR-32 OWLT IS 06H 15M 39S   |           |         |               |                  | 2L        |
| 265     | 329 12:05:31            | 32    | 40 SET |               |         | 10 DEGREE SET DSC-40   |           |         |               |                  | 2V        |
| 266     | 329 14:25:28            | 32    | 60RISE |               |         | 10 DEGREE RISE DSC-60  |           |         |               |                  | 2V        |
| 267     | 329 14:32:39            | 31    | 10RISE |               |         | 10 DEGREE RISE DSC-10  |           |         |               |                  | 1V        |
| 268     | 329 15:53:16            | 32    | 60 SET |               |         | 10 DEGREE SET DSC-60   |           |         |               |                  | 2V        |
| 269     | 329 17:07:29            | 31    |        |               |         | B- UVSLEW  |           |         | 09545:34:001F | 329 09:00:35.945 | 1TB       |
| 270     | 329 17:07:29            | 31    |        |               |         | SLEW TO HELIO-X3   |           |         | 09545:34:001F | 329 09:00:35.945 | 1T        |
| 271     | 329 17:07:29            | 31    |        |               |         | B- PLATPOA   |           |         | 09545:34:001F | 329 09:00:35.945 | 1TB       |
| 272     | 329 17:07:29            | 31    |        |               | AC7SPK  | (1 12 1 118 128) EL SLEW R=LOW                                     | AACS      |         | 09545:34:002F | 329 09:00:36.058 | 1ECa      |
| 273     | 329 17:09:36            | 31    |        |               |         | B- SLEND   |           |         | 09545:36:518F | 329 09:02:42.945 | 1TB       |
| 274     | 329 17:09:36            | 31    |        |               | SLEWEND | AZ=319.959 EL=105.050 CO=109.730                                   |           |         | 09545:36:518F | 329 09:02:42.945 | 1T        |
| 275     | 329 17:35:00            | 31    | 12 AOS | OPCH ACE      |         | AOS DSS-12 PASS-6308 (D/L ONLY)                                    |           |         |               |                  | 1DP       |
| 276     | 329 17:50:00            | 31    | 61 LOS | OPCH ACE      |         | LOS DSS-61 PASS-6307   |           |         |               |                  | 1DP       |
| 277     | 329 18:09:45            | 31    | 60 SET |               |         | 10 DEGREE SET DSC-60   |           |         |               |                  | 1V        |
| 278     | 329 20:31:28            | 32    | 10RISE |               |         | 10 DEGREE RISE DSC-10  |           |         |               |                  | 2V        |
| 279     | 329 20:35:00            | 32    | 15 AOS | OPCH ACE      |         | AOS DSS-15 PASS-6324 (D/L ONLY)                                    |           |         |               |                  | 2DP       |
| 280     | 329 21:46:48            | 32    | 40RISE |               |         | 10 DEGREE RISE DSC-40  |           |         |               |                  | 2V        |
| 281     | 329 21:55:29            | 31    | 40RISE |               |         | 10 DEGREE RISE DSC-40  |           |         |               |                  | 1V        |
| 282     | 330 00:00:00            | 31    |        |               |         | VGR-31 OWLT IS 08H 06M 54S   |           |         |               |                  | 1L        |
| 283     | 330 00:00:00            | 32    |        |               |         | VGR-32 OWLT IS 06H 15M 43S   |           |         |               |                  | 2L        |
| 284     | 330 00:30:00            | 32    | 42 AOS | OPCH ACE      |         | AOS DSS-42 PASS-6324 (U/L PASS)<br>XMTR ON PER TELECOM TRKING FORM |           |         |               |                  | 2DP       |

INTEGRATED SEQUENCE FOR JST A020F JSX B022F WEEK 47 DOY 94-325/00:00 - 94-332/00:00

| 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 |
|---------|-------------------------|-------|--------|---------------|---------|--|-----------|---------|---------------|------------------|-----------|
| 285     | 330 00:40:00            | 32    | 15 LOS | OPCH ACE      |         | LOS DSS-15 PASS-6324   |           |         |               |                  | 2DP       |
| 286     | 330 00:46:00            | 32    | 10 SET |               |         | 10 DEGREE SET DSC-10   |           |         |               |                  | 2V        |
| 287     | 330 01:35:00            | 31    | 12 LOS | OPCH ACE      |         | LOS DSS-12 PASS-6308   |           |         |               |                  | 1DP       |
| 288     | 330 01:55:31            | 31    | 10 SET |               |         | 10 DEGREE SET DSC-10   |           |         |               |                  | 1V        |
| 289     | 330 05:07:31            | 31    |        |               |         | B- UVSLEW  |           |         | 09560:34:001F | 329 21:00:35.945 | 1TB       |
| 290     | 330 05:07:31            | 31    |        |               |         | SLEW TO HELIO-X2   |           |         | 09560:34:001F | 329 21:00:35.945 | 1T        |
| 291     | 330 05:07:31            | 31    |        |               |         | B- PLATPOB   |           |         | 09560:34:001F | 329 21:00:35.945 | 1TB       |
| 292     | 330 05:07:31            | 31    |        |               | AC7SPK  | (1 12 2 125 084) EL SLEW R=LOW                                     | AACS      |         | 09560:34:003F | 329 21:00:36.066 | 1ECa      |
| 293     | 330 05:07:31            | 31    |        |               | AC7SPK  | (2 12 1 232 046) AZ SLEW R=LOW                                     | AACS      |         | 09560:34:004F | 329 21:00:36.154 | 1ECa      |
| 294     | 330 05:10:44            | 31    |        |               |         | B- SLEND   |           |         | 09560:38:018F | 329 21:03:48.945 | 1TB       |
| 295     | 330 05:10:44            | 31    |        |               | SLEWEND | AZ=314.967 EL=95.044 CO=99.372                                     |           |         | 09560:38:018F | 329 21:03:48.945 | 1T        |
| 296     | 330 06:56:31            | 31    | 60RISE |               |         | 10 DEGREE RISE DSC-60  |           |         |               |                  | 1V        |
| 297     | 330 07:03:43            | 31    | 40 SET |               |         | 10 DEGREE SET DSC-40   |           |         |               |                  | 1V        |
| 298     | 330 07:10:00            | 31    | 61 AOS | OPCH ACE      |         | AOS DSS-61 PASS-6308 (D/L ONLY)                                    |           |         |               |                  | 1DP       |
| 299     | 330 09:15:00            | 32    | 42 LOS | OPCH ACE      |         | LOS DSS-42 PASS-6324   |           |         |               |                  | 2DP       |
| 300     | 330 09:20:00            | 32    | 43 AOS | OPCH ACE      |         | AOS DSS-43 PASS-6324 (U/L PASS)<br>XMTR ON PER TELECOM TRKING FORM |           |         |               |                  | 2DP       |
| 301     | 330 11:50:00            | 32    | 43 LOS | OPCH ACE      |         | LOS DSS-43 PASS-6324   |           |         |               |                  | 2DP       |
| 302     | 330 12:00:00            | 31    |        |               |         | VGR-31 OWLT IS 08H 06M 57S   |           |         |               |                  | 1L        |
| 303     | 330 12:00:00            | 32    |        |               |         | VGR-32 OWLT IS 06H 15M 48S   |           |         |               |                  | 2L        |
| 304     | 330 12:01:11            | 32    |        |               | AC7SSB  | (3 -009) SS BIAS CONTROL - PITCH                                   | AACS      |         | 03426:29:002F | 330 05:41:35.874 | 2ECa      |
| 305     | 330 12:01:40            | 32    | 40 SET |               |         | 10 DEGREE SET DSC-40   |           |         |               |                  | 2V        |
| 306     | 330 13:53:57            | 31    |        |               | AC7SSB  | (3 +015) SS BIAS CONTROL - PITCH                                   | AACS      |         | 09571:32:002F | 330 05:47:00.029 | 1ECa      |
| 307     | 330 14:21:37            | 32    | 60RISE |               |         | 10 DEGREE RISE DSC-60  |           |         |               |                  | 2V        |



INTEGRATED SEQUENCE FOR JST A020F JSX B022F WEEK 47 DOY 94-325/00:00 - 94-332/00:00

| 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 |
|---------|-------------------------|-------|--------|---------------|---------|--|-----------|---------|---------------|------------------|-----------|
| 308     | 330 14:28:49            | 31    | 10RISE |               |         | 10 DEGREE RISE DSC-10  |           |         |               |                  | 1V        |
| 309     | 330 14:40:00            | 31    | 12 AOS | OPCH ACE      |         | AOS DSS-12 PASS-6309 (U/L PASS)  |           |         |               |                  | 1DP       |
| 310     | 330 14:55:00            | 31    | 61 LOS | OPCH ACE      |         | LOS DSS-61 PASS-6308   |           |         |               |                  | 1DP       |
| 311     | 330 15:49:27            | 32    | 60 SET |               |         | 10 DEGREE SET DSC-60   |           |         |               |                  | 2V        |
| 312     | 330 16:00:00            | 31    | 12     | OPCH 12       |         | == START TLC TEST UP-LINK ==<br>== EXECUTE PER DSN SUPPLIED ==<br>== TUNING INSTRUCTIONS ==  |           |         |               |                  | 1TD       |
| 313     | 330 16:00:00            | 31    | 12     | OPCH 12       |         | == TLC TEST UP-LINK ==<br>TURN RANGING MOD OFF (IF APPL)                                     |           |         |               |                  | 1TD       |
| 314     | 330 16:01:00            | 31    | 12     | OPCH 12       |         | == TLC TEST UP-LINK ==<br>TURN COMMAND MOD OFF (IF APPL)<br>NO COMMANDING FOR 1 HR 56 MIN    |           |         |               |                  | 1TD       |
| 315     | 330 16:02:00            | 31    | 12     | OPCH 12       |         | == TLC TEST UP-LINK ==<br>== TUNE U/L AT 48 HZ/SEC ==<br>== TO XA-65 KHZ (S-BAND) ==         |           |         |               |                  | 1TD       |
| 316     | 330 16:27:00            | 31    | 12     | OPCH 12       |         | == END TLC TEST UP-LINK ==<br>== TURN TRANSMITTER OFF ==<br>TUNE TO TSF @ 48 HZ/SEC (S-BAND) |           |         |               |                  | 1TD       |
| 317     | 330 17:07:34            | 31    |        |               |         | B- UVSLEW  |           |         | 09575:34:001F | 330 09:00:35.945 | 1TB       |
| 318     | 330 17:07:34            | 31    |        |               |         | SLEW TO HELIO-X1   |           |         | 09575:34:001F | 330 09:00:35.945 | 1T        |
| 319     | 330 17:07:34            | 31    |        |               |         | B- PLATPOB   |           |         | 09575:34:001F | 330 09:00:35.945 | 1TB       |
| 320     | 330 17:07:34            | 31    |        |               | AC7SPK  | (1 12 2 132 172) EL SLEW R=LOW   | AACS      |         | 09575:34:003F | 330 09:00:36.061 | 1ECa      |
| 321     | 330 17:07:34            | 31    |        |               | AC7SPK  | (2 12 1 228 133) AZ SLEW R=LOW   | AACS      |         | 09575:34:004F | 330 09:00:36.149 | 1ECa      |

INTEGRATED SEQUENCE FOR JST A020F JSX B022F WEEK 47 DOY 94-325/00:00 - 94-332/00:00

| 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 |
|---------|-------------------------|-------|-----|---------------|----------|--|-----------|---------|---------------|------------------|-----------|
| 322     | 330 17:10:42            | 31    |     |               |          | B- SLEND   |           |         | 09575:37:734F | 330 09:03:43.945 | 1TB       |
| 323     | 330 17:10:42            | 31    |     |               | SLEWEND  | AZ=309.956 EL=85.046 CO=89.025                                     |           |         | 09575:37:734F | 330 09:03:43.945 | 1T        |
| 324     | 330 18:05:54            | 31    | 60  | SET           |          | 10 DEGREE SET DSC-60   |           |         |               |                  | 1V        |
| 325     | 330 20:27:37            | 32    | 10  | RISE          |          | 10 DEGREE RISE DSC-10  |           |         |               |                  | 2V        |
| 326     | 330 20:30:00            | 32    | 15  | AOS           | OPCH ACE | AOS DSS-15 PASS-6325 (D/L ONLY)                                    |           |         |               |                  | 2DP       |
| 327     | 330 21:42:58            | 32    | 40  | RISE          |          | 10 DEGREE RISE DSC-40  |           |         |               |                  | 2V        |
| 328     | 330 21:51:37            | 31    | 40  | RISE          |          | 10 DEGREE RISE DSC-40  |           |         |               |                  | 1V        |
| 329     | 331 00:00:00            | 31    |     |               |          | VGR-31 OWLT IS 08H 06M 59S   |           |         |               |                  | 1L        |
| 330     | 331 00:00:00            | 32    |     |               |          | VGR-32 OWLT IS 06H 15M 53S   |           |         |               |                  | 2L        |
| 331     | 331 00:25:00            | 32    | 42  | AOS           | OPCH ACE | AOS DSS-42 PASS-6325 (U/L PASS)<br>XMTR ON PER TELECOM TRKING FORM |           |         |               |                  | 2DP       |
| 332     | 331 00:35:00            | 32    | 15  | LOS           | OPCH ACE | LOS DSS-15 PASS-6325   |           |         |               |                  | 2DP       |
| 333     | 331 00:42:10            | 32    | 10  | SET           |          | 10 DEGREE SET DSC-10   |           |         |               |                  | 2V        |
| 334     | 331 01:35:00            | 31    | 12  | LOS           | OPCH ACE | LOS DSS-12 PASS-6309   |           |         |               |                  | 1DP       |
| 335     | 331 01:51:39            | 31    | 10  | SET           |          | 10 DEGREE SET DSC-10   |           |         |               |                  | 1V        |
| 336     | 331 06:52:40            | 31    | 60  | RISE          |          | 10 DEGREE RISE DSC-60  |           |         |               |                  | 1V        |
| 337     | 331 06:59:52            | 31    | 40  | SET           |          | 10 DEGREE SET DSC-40   |           |         |               |                  | 1V        |
| 338     | 331 07:05:00            | 31    | 61  | AOS           | OPCH ACE | AOS DSS-61 PASS-6309 (D/L ONLY)                                    |           |         |               |                  | 1DP       |
| 339     | 331 08:41:02            | 31    |     |               |          | B- RFSTLC  |           |         | 09595:00:618F | 331 00:34:00.945 | 1TB       |
| 340     | 331 08:41:02            | 31    | 61  |               | OPCH 61  | == START TLC TEST DOWN-LINK ==                                     |           |         |               |                  | 1TD       |
| 341     | 331 09:42:02            | 31    | 61  |               | OPCH 61  | == END TLC TEST DOWN-LINK ==                                       |           |         |               |                  | 1TD       |
| 342     | 331 11:25:00            | 32    | 42  | LOS           | OPCH ACE | LOS DSS-42 PASS-6325   |           |         |               |                  | 2DP       |

INTEGRATED SEQUENCE FOR JST A020F JSX B022F WEEK 47 DOY 94-325/00:00 - 94-332/00:00

| 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     | 331 11:57:50            | 32    | 40 SET |               |         | 10 DEGREE SET DSC-40             |           |         |               |                  | 2V        |
| 344     | 331 12:00:00            | 31    |        |               |         | VGR-31 OWLT IS 08H 07M 02S       |           |         |               |                  | 1L        |
| 345     | 331 12:00:00            | 32    |        |               |         | VGR-32 OWLT IS 06H 15M 57S       |           |         |               |                  | 2L        |
| 346     | 331 14:17:46            | 32    | 60RISE |               |         | 10 DEGREE RISE DSC-60            |           |         |               |                  | 2V        |
| 347     | 331 14:24:58            | 31    | 10RISE |               |         | 10 DEGREE RISE DSC-10            |           |         |               |                  | 1V        |
| 348     | 331 14:35:00            | 31    | 12 AOS | OPCH ACE      |         | AOS DSS-12 PASS-6310 (D/L ONLY)  |           |         |               |                  | 1DP       |
| 349     | 331 14:50:00            | 31    | 61 LOS | OPCH ACE      |         | LOS DSS-61 PASS-6309             |           |         |               |                  | 1DP       |
| 350     | 331 15:41:15            | 31    |        |               | AC7SSB  | (4 +161) SS BIAS CONTROL --- YAW | AACS      |         | 09603:46:002F | 331 07:34:12.040 | 1ECa      |
| 351     | 331 15:45:37            | 32    | 60 SET |               |         | 10 DEGREE SET DSC-60             |           |         |               |                  | 2V        |
| 352     | 331 16:51:46            | 32    |        |               | AC7SSB  | (4 +190) SS BIAS CONTROL --- YAW | AACS      |         | 03462:32:003F | 331 10:31:59.899 | 2ECa      |
| 353     | 331 18:02:04            | 31    | 60 SET |               |         | 10 DEGREE SET DSC-60             |           |         |               |                  | 1V        |
| 354     | 331 20:23:47            | 32    | 10RISE |               |         | 10 DEGREE RISE DSC-10            |           |         |               |                  | 2V        |
| 355     | 331 20:25:00            | 32    | 15 AOS | OPCH ACE      |         | AOS DSS-15 PASS-6326 (D/L ONLY)  |           |         |               |                  | 2DP       |
| 356     | 331 21:39:08            | 32    | 40RISE |               |         | 10 DEGREE RISE DSC-40            |           |         |               |                  | 2V        |
| 357     | 331 21:47:45            | 31    | 40RISE |               |         | 10 DEGREE RISE DSC-40            |           |         |               |                  | 1V        |
| 358     | 332 00:00:00            | 31    |        |               |         | VGR-31 OWLT IS 08H 07M 05S       |           |         |               |                  | 1L        |
| 359     | 332 00:00:00            | 32    |        |               |         | VGR-32 OWLT IS 06H 16M 02S       |           |         |               |                  | 2L        |