

INTEGRATED SEQUENCE FOR JST A029F JSX B101F WEEK 49 DOY 98-334/00:00 - 98-341/00:00

| 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       | 334 00:00:00            | 31    |        |               |         | VGR-31 OWLT IS 10H 07M 32S       |           |         |               |                 | 1L        |
| 2       | 334 00:00:00            | 32    |        |               |         | VGR-32 OWLT IS 07H 55M 26S       |           |         |               |                 | 2L        |
| 3       | 334 01:20:00            | 31    | 25 LOS | OPCH ACE      |         | LOS DSS-25 PASS-7777             |           |         |               |                 | 1DP       |
| 4       | 334 01:20:00            | 32    | 34 AOS | OPCH ACE      |         | AOS DSS-34 PASS-7793 (D/L ONLY)  |           |         |               |                 | 2DP       |
| 5       | 334 01:49:46            | 31    | 10 SET |               |         | 10 DEGREE SET DSC-10             |           |         |               |                 | 1V        |
| 6       | 334 04:20:16            | 32    |        |               | AC7SSB  | (3 -005) SS BIAS CONTROL - PITCH | AACS      |         | 47364:53:003F | 98-333/20:24:47 | 2ECa      |
| 7       | 334 06:49:28            | 31    | 60RISE |               |         | 10 DEGREE RISE DSC-60            |           |         |               |                 | 1V        |
| 8       | 334 06:56:40            | 31    | 40 SET |               |         | 10 DEGREE SET DSC-40             |           |         |               |                 | 1V        |
| 9       | 334 07:08:09            | 31    |        |               |         | B- UVSLEW                        |           |         | 53510:34:001F | 98-333/21:00:35 | 1TB       |
| 10      | 334 07:08:09            | 31    |        |               |         | SLEW TO HELIO-16B                |           |         | 53510:34:001F | 98-333/21:00:35 | 1T        |
| 11      | 334 07:08:09            | 31    |        |               |         | B- PLATPOA                       |           |         | 53510:34:001F | 98-333/21:00:35 | 1TB       |
| 12      | 334 07:08:09            | 31    |        |               | AC7SPK  | (1 12 2 111 206) EL SLEW R=LOW   | AACS      |         | 53510:34:003F | 98-333/21:00:36 | 1ECa      |
| 13      | 334 07:12:29            | 31    |        |               |         | B- SLEND                         |           |         | 53510:39:334F | 98-333/21:04:55 | 1TB       |
| 14      | 334 07:12:29            | 31    |        |               | SLEWEND | AZ=125.000 EL=114.058 CO=110.229 |           |         | 53510:39:334F | 98-333/21:04:55 | 1T        |
| 15      | 334 12:00:00            | 31    |        |               |         | VGR-31 OWLT IS 10H 07M 34S       |           |         |               |                 | 1L        |
| 16      | 334 12:00:00            | 32    |        |               |         | VGR-32 OWLT IS 07H 55M 31S       |           |         |               |                 | 2L        |
| 17      | 334 12:25:00            | 32    | 34 LOS | OPCH ACE      |         | LOS DSS-34 PASS-7793             |           |         |               |                 | 2DP       |
| 18      | 334 12:29:40            | 32    | 40 SET |               |         | 10 DEGREE SET DSC-40             |           |         |               |                 | 2V        |
| 19      | 334 13:55:00            | 31    | 65 AOS | OPCH ACE      |         | AOS DSS-65 PASS-7777 (D/L ONLY)  |           |         |               |                 | 1DP       |
| 20      | 334 14:21:52            | 31    | 10RISE |               |         | 10 DEGREE RISE DSC-10            |           |         |               |                 | 1V        |
| 21      | 334 17:35:00            | 31    | 15 AOS | OPCH ACE      |         | AOS DSS-15 PASS-7778 (D/L ONLY)  |           |         |               |                 | 1DP       |
| 22      | 334 17:55:00            | 31    | 65 LOS | OPCH ACE      |         | LOS DSS-65 PASS-7777             |           |         |               |                 | 1DP       |
| 23      | 334 17:58:31            | 31    | 60 SET |               |         | 10 DEGREE SET DSC-60             |           |         |               |                 | 1V        |

INTEGRATED SEQUENCE FOR JST A029F JSX B101F WEEK 49 DOY 98-334/00:00 - 98-341/00:00

| 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 |
|---------|-------------------------|-------|--------|---------------|---------|----------------------------------|-----------|---------|---------------|-----------------|-----------|
| 24      | 334 19:08:12            | 31    |        |               |         | B- UVSLEW                        |           |         | 53525:34:001F | 98-334/09:00:35 | 1TB       |
| 25      | 334 19:08:12            | 31    |        |               |         | SLEW TO HELIO-17B                |           |         | 53525:34:001F | 98-334/09:00:35 | 1T        |
| 26      | 334 19:08:12            | 31    |        |               |         | B- PLATPOA                       |           |         | 53525:34:001F | 98-334/09:00:35 | 1TB       |
| 27      | 334 19:08:12            | 31    |        |               | AC7SPK  | (1 12 1 127 093) EL SLEW R=LOW   | AACS      |         | 53525:34:003F | 98-334/09:00:36 | 1ECa      |
| 28      | 334 19:12:57            | 31    |        |               |         | B- SLEND                         |           |         | 53525:39:751F | 98-334/09:05:20 | 1TB       |
| 29      | 334 19:12:57            | 31    |        |               | SLEWEND | AZ=125.000 EL=91.051 CO=87.321   |           |         | 53525:39:751F | 98-334/09:05:20 | 1T        |
| 30      | 334 21:12:09            | 32    | 40RISE |               |         | 10 DEGREE RISE DSC-40            |           |         |               |                 | 2V        |
| 31      | 334 21:45:59            | 31    | 40RISE |               |         | 10 DEGREE RISE DSC-40            |           |         |               |                 | 1V        |
| 32      | 335 00:00:00            | 31    |        |               |         | VGR-31 OWLT IS 10H 07M 37S       |           |         |               |                 | 1L        |
| 33      | 335 00:00:00            | 32    |        |               |         | VGR-32 OWLT IS 07H 55M 35S       |           |         |               |                 | 2L        |
| 34      | 335 01:40:00            | 31    | 15 LOS | OPCH ACE      |         | LOS DSS-15 PASS-7778             |           |         |               |                 | 1DP       |
| 35      | 335 01:45:54            | 31    | 10 SET |               |         | 10 DEGREE SET DSC-10             |           |         |               |                 | 1V        |
| 36      | 335 05:31:26            | 31    |        |               | AC7SSB  | (4 +160) SS BIAS CONTROL --- YAW | AACS      |         | 53538:33:003F | 98-334/19:23:48 | 1ECa      |
| 37      | 335 05:45:00            | 32    | 43 AOS | OPCH ACE      |         | AOS DSS-43 PASS-7794 (D/L ONLY)  |           |         |               |                 | 2DP       |
| 38      | 335 06:45:36            | 31    | 60RISE |               |         | 10 DEGREE RISE DSC-60            |           |         |               |                 | 1V        |
| 39      | 335 06:52:48            | 31    | 40 SET |               |         | 10 DEGREE SET DSC-40             |           |         |               |                 | 1V        |
| 40      | 335 07:08:14            | 31    |        |               |         | B- UVSLEW                        |           |         | 53540:34:001F | 98-334/21:00:35 | 1TB       |
| 41      | 335 07:08:14            | 31    |        |               |         | SLEW TO HELIO-18B                |           |         | 53540:34:001F | 98-334/21:00:35 | 1T        |
| 42      | 335 07:08:14            | 31    |        |               |         | B- PLATPOA                       |           |         | 53540:34:001F | 98-334/21:00:35 | 1TB       |
| 43      | 335 07:08:14            | 31    |        |               | AC7SPK  | (1 12 2 141 138) EL SLEW R=LOW   | AACS      |         | 53540:34:003F | 98-334/21:00:36 | 1ECa      |
| 44      | 335 07:12:23            | 31    |        |               |         | B- SLEND                         |           |         | 53540:39:151F | 98-334/21:04:44 | 1TB       |
| 45      | 335 07:12:23            | 31    |        |               | SLEWEND | AZ=125.000 EL=71.042 CO=67.455   |           |         | 53540:39:151F | 98-334/21:04:44 | 1T        |
| 46      | 335 07:50:00            | 32    | 34 AOS | OPCH ACE      |         | AOS DSS-34 PASS-7794 (D/L ONLY)  |           |         |               |                 | 2DP       |

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| 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 |
|---------|-------------------------|-------|--------|---------------|---------|----------------------------------|-----------|---------|---------------|-----------------|-----------|
| 47      | 335 08:15:00            | 32    | 43 LOS | OPCH ACE      |         | LOS DSS-43 PASS-7794             |           |         |               |                 | 2DP       |
| 48      | 335 12:00:00            | 31    |        |               |         | VGR-31 OWLT IS 10H 07M 39S       |           |         |               |                 | 1L        |
| 49      | 335 12:00:00            | 32    |        |               |         | VGR-32 OWLT IS 07H 55M 40S       |           |         |               |                 | 2L        |
| 50      | 335 12:05:00            | 32    | 34 LOS | OPCH ACE      |         | LOS DSS-34 PASS-7794             |           |         |               |                 | 2DP       |
| 51      | 335 12:07:27            | 31    |        |               | AC7SSB  | (3 +012) SS BIAS CONTROL - PITCH | AACS      |         | 53546:48:002F | 98-335/01:59:48 | 1ECa      |
| 52      | 335 12:15:00            | 31    | 54 AOS | OPCH ACE      |         | AOS DSS-54 PASS-7778 (D/L ONLY)  |           |         |               |                 | 1DP       |
| 53      | 335 12:25:48            | 32    | 40 SET |               |         | 10 DEGREE SET DSC-40             |           |         |               |                 | 2V        |
| 54      | 335 14:00:00            | 31    | 14 AOS | OPCH ACE      |         | AOS DSS-14 PASS-7779 (U/L PASS)  |           |         |               |                 | 1DP       |
| 55      | 335 14:18:00            | 31    | 10RISE |               |         | 10 DEGREE RISE DSC-10            |           |         |               |                 | 1V        |
| 56      | 335 14:20:00            | 31    | 54 LOS | OPCH ACE      |         | LOS DSS-54 PASS-7778             |           |         |               |                 | 1DP       |
| 57      | 335 17:54:39            | 31    | 60 SET |               |         | 10 DEGREE SET DSC-60             |           |         |               |                 | 1V        |
| 58      | 335 19:08:17            | 31    |        |               |         | B- UVSLEW                        |           |         | 53555:34:001F | 98-335/09:00:35 | 1TB       |
| 59      | 335 19:08:17            | 31    |        |               |         | SLEW TO HELIO-19B                |           |         | 53555:34:001F | 98-335/09:00:35 | 1T        |
| 60      | 335 19:08:17            | 31    |        |               |         | B- PLATPOA                       |           |         | 53555:34:001F | 98-335/09:00:35 | 1TB       |
| 61      | 335 19:08:17            | 31    |        |               | AC7SPK  | (1 12 2 157 158) EL SLEW R=LOW   | AACS      |         | 53555:34:003F | 98-335/09:00:36 | 1ECa      |
| 62      | 335 19:13:02            | 31    |        |               |         | B- SLEND                         |           |         | 53555:39:751F | 98-335/09:05:20 | 1TB       |
| 63      | 335 19:13:02            | 31    |        |               | SLEWEND | AZ=125.000 EL=48.031 CO=44.572   |           |         | 53555:39:751F | 98-335/09:05:20 | 1T        |
| 64      | 335 19:55:00            | 31    | 25 AOS | OPCH ACE      |         | AOS DSS-25 PASS-7779 (D/L ONLY)  |           |         |               |                 | 1DP       |
| 65      | 335 20:15:00            | 31    | 14 LOS | OPCH ACE      |         | LOS DSS-14 PASS-7779             |           |         |               |                 | 1DP       |
| 66      | 335 20:25:00            | 32    | 43 AOS | OPCH ACE      |         | AOS DSS-43 PASS-7795 (D/L ONLY)  |           |         |               |                 | 2DP       |
| 67      | 335 21:08:18            | 32    | 40RISE |               |         | 10 DEGREE RISE DSC-40            |           |         |               |                 | 2V        |
| 68      | 335 21:42:06            | 31    | 40RISE |               |         | 10 DEGREE RISE DSC-40            |           |         |               |                 | 1V        |
| 69      | 336 00:00:00            | 31    |        |               |         | VGR-31 OWLT IS 10H 07M 42S       |           |         |               |                 | 1L        |



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|---------|-------------------------|-------|-----|---------------|---------|--|-----------|---------|---------------|-----------------|-----------|
| 82      | 336 00:24:32            | 32    |     |               | CC3A    | (41310) X-BD TMU STATE CHANGE DRIVER(S) 1 AND 2 ON MOD INDEX=41 DATA RATE=HIGH SUBCARRIER FREQ=22.5KHZ   | MDS       |         | 47419:58:002F | 98-335/16:28:47 | 2ECs      |
| 83      | 336 00:24:33            | 32    |     |               |         | B- DRCRUS  |           |         | 47419:58:018F | 98-335/16:28:48 | 2TB       |
| 84      | 336 00:24:33            | 32    |     |               | SC06BB  | (53 0 07 0) FDS MODE TO: CR-5T PLS INTEGRATION MODE: 0.96 SEC PPS SAFING COMMAND : N/A ENGINEERING FORMAT : CRUISE AACS READOUT MODE : TELEMETRY | FDS       |         | 47419:58:025F | 98-335/16:28:49 | 2ECf      |
| 85      | 336 00:25:20            | 32    |     | ACE OPCH      |         | FDS STATUS CR-5T/X160/S10 MEM:PB/FDS11 SA/FDS11  | FDS       | CR-5T   | 47419:59:001F | 98-335/16:29:35 | 2ESf      |
| 86      | 336 00:25:20            | 32    |     |               | CC16C   | (7000) DTR STATE SELECT: READY   | DTR       |         | 47419:59:001F | 98-335/16:29:35 | 2ECd      |
| 87      | 336 00:25:20            | 32    |     |               |         | DTR STATUS MODE:RDY RATE:000.0K DIR:R TRK:2 TIC:2951   | DTR       |         | 47419:59:001F | 98-335/16:29:35 | 2ESd      |
| 88      | 336 00:25:20            | 32    |     |               | CC3A    | (32310) X-BD TMU STATE CHANGE DRIVER(S) 1 AND 2 ON MOD INDEX=32 DATA RATE=HIGH SUBCARRIER FREQ=22.5KHZ   | MDS       |         | 47419:59:002F | 98-335/16:29:35 | 2ECs      |
| 89      | 336 00:25:21            | 32    |     |               |         | END PWSREC   |           |         | 47419:59:018F | 98-335/16:29:36 | 2T        |
| 90      | 336 01:08:54            | 31    |     | ACE OPCH      |         | >>>>>>> 5 MIN WARNING <<<<<<<<<<<<< FOR FDS MODE OR FDS STATUS CHG   |           |         |               |                 | 1ESf      |
| 91      | 336 01:08:54            | 31    |     | ACE OPCH      |         | >>>>>>> 5 MIN WARNING <<<<<<<<<<<<< FOR CHG IN X-BD D/L CONFIG MOD INDEX=41 DATA RATE=HIGH SUBCARRIER FREQ=22.5KHZ                               |           |         |               |                 | 11EC      |
| 92      | 336 01:09:42            | 31    |     | ACE OPCH      |         | >>>>>>> 5 MIN WARNING <<<<<<<<<<<<< FOR FDS MODE OR FDS STATUS CHG   |           |         |               |                 | 1ESf      |

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| 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 |
|---------|-------------------------|-------|--------|---------------|---------|---|-----------|---------|---------------|-----------------|-----------|
| 93      | 336 01:09:42            | 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      |
| 94      | 336 01:10:00            | 31    | 25 LOS | OPCH ACE      |         | LOS DSS-25 PASS-7779  |           |         |               |                 | 1DP       |
| 95      | 336 01:12:18            | 31    |        |               |         | BEGIN PWSREC.31   |           |         | 53563:09:001F | 98-335/15:04:35 | 1T        |
| 96      | 336 01:12:18            | 31    |        |               | SC32AJ  | (10) PLS CONFIG CMD   | FDS       |         | 53563:09:009F | 98-335/15:04:36 | 1ECF      |
| 97      | 336 01:13:06            | 31    |        |               |         | B- DRGS4B   |           |         | 53563:10:001F | 98-335/15:05:23 | 1TB       |
| 98      | 336 01:13:06            | 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       |         | 53563:10:009F | 98-335/15:05:24 | 1ECF      |
| 99      | 336 01:13:50            | 31    |        |               |         | BEGIN RECORDING PWS DATA  |           |         | 53563:10:734F | 98-335/15:06:07 | 1T        |
| 100     | 336 01:13:50            | 31    |        |               | CC16C   | (3000) DTR STATE SELECT:115.2REC  | DTR       |         | 53563:10:735F | 98-335/15:06:08 | 1ECd      |
| 101     | 336 01:13:50            | 31    |        |               |         | DTR STATUS<br>MODE:REC RATE:115.2K<br>DIR:F TRK:1 TIC:1747  | DTR       |         | 53563:10:735F | 98-335/15:06:08 | 1ESd      |
| 102     | 336 01:13:54            | 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   | 53563:11:001F | 98-335/15:06:11 | 1ESF      |
| 103     | 336 01:13:54            | 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       |         | 53563:11:002F | 98-335/15:06:11 | 1ECs      |
| 104     | 336 01:13:55            | 31    |        |               |         | B- DRCRUS   |           |         | 53563:11:018F | 98-335/15:06:12 | 1TB       |

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|---------|-------------------------|-------|--------|---------------|---------|--|-----------|---------|---------------|-----------------|-----------|
| 105     | 336 01:13:55            | 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       |         | 53563:11:026F | 98-335/15:06:13 | 1ECf      |
| 106     | 336 01:14:42            | 31    |        | ACE OPCH      |         | FDS STATUS<br>CR-5T/X160/S10<br>MEM:PA/FDS11   | FDS       | CR-5T   | 53563:12:001F | 98-335/15:06:59 | 1ESf      |
| 107     | 336 01:14:42            | 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       |         | 53563:12:002F | 98-335/15:06:59 | 1ECs      |
| 108     | 336 01:14:42            | 31    |        |               | CC16C   | (7000) DTR STATE SELECT: READY   | DTR       |         | 53563:12:002F | 98-335/15:07:00 | 1ECd      |
| 109     | 336 01:14:42            | 31    |        |               |         | DTR STATUS<br>MODE:RDY RATE:000.0K<br>DIR:F TRK:1 TIC:2039   | DTR       |         | 53563:12:002F | 98-335/15:07:00 | 1ESd      |
| 110     | 336 01:15:30            | 31    |        |               | SC32AJ  | (11) PLS CONFIG CMD  | FDS       |         | 53563:13:009F | 98-335/15:07:48 | 1ECf      |
| 111     | 336 01:15:31            | 31    |        |               |         | END PWSREC.31  |           |         | 53563:13:018F | 98-335/15:07:48 | 1T        |
| 112     | 336 01:20:00            | 32    | 34 AOS | OPCH ACE      |         | AOS DSS-34 PASS-7795 (D/L ONLY)  |           |         |               |                 | 2DP       |
| 113     | 336 01:42:01            | 31    | 10 SET |               |         | 10 DEGREE SET DSC-10   |           |         |               |                 | 1V        |
| 114     | 336 01:50:00            | 32    | 43 LOS | OPCH ACE      |         | LOS DSS-43 PASS-7795   |           |         |               |                 | 2DP       |
| 115     | 336 06:41:44            | 31    | 60RISE |               |         | 10 DEGREE RISE DSC-60  |           |         |               |                 | 1V        |
| 116     | 336 06:48:56            | 31    | 40 SET |               |         | 10 DEGREE SET DSC-40   |           |         |               |                 | 1V        |
| 117     | 336 06:50:00            | 31    | 65 AOS | OPCH ACE      |         | AOS DSS-65 PASS-7779 (D/L ONLY)  |           |         |               |                 | 1DP       |
| 118     | 336 07:08:19            | 31    |        |               |         | B- UVSLEW  |           |         | 53570:34:001F | 98-335/21:00:35 | 1TB       |
| 119     | 336 07:08:19            | 31    |        |               |         | SLEW TO HELIO-20B  |           |         | 53570:34:001F | 98-335/21:00:35 | 1T        |
| 120     | 336 07:08:19            | 31    |        |               |         | B- PLATPOA   |           |         | 53570:34:001F | 98-335/21:00:35 | 1TB       |

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|---------|-------------------------|-------|--------|---------------|---------|---|-----------|---------|---------------|-----------------|-----------|
| 121     | 336 07:08:19            | 31    |        |               | AC7SPK  | (1 12 2 173 176) EL SLEW R=LOW  | AACS      |         | 53570:34:003F | 98-335/21:00:36 | 1ECa      |
| 122     | 336 07:13:04            | 31    |        |               |         | B- SLEND  |           |         | 53570:39:751F | 98-335/21:05:20 | 1TB       |
| 123     | 336 07:13:04            | 31    |        |               | SLEWEND | AZ=125.000 EL=25.026 CO=21.949  |           |         | 53570:39:751F | 98-335/21:05:20 | 1T        |
| 124     | 336 08:15:00            | 31    | 65 LOS | OPCH ACE      |         | LOS DSS-65 PASS-7779  |           |         |               |                 | 1DP       |
| 125     | 336 10:35:00            | 32    | 34 LOS | OPCH ACE      |         | LOS DSS-34 PASS-7795  |           |         |               |                 | 2DP       |
| 126     | 336 12:00:00            | 31    |        |               |         | VGR-31 OWLT IS 10H 07M 44S  |           |         |               |                 | 1L        |
| 127     | 336 12:00:00            | 32    |        |               |         | VGR-32 OWLT IS 07H 55M 49S  |           |         |               |                 | 2L        |
| 128     | 336 12:21:57            | 32    | 40 SET |               |         | 10 DEGREE SET DSC-40  |           |         |               |                 | 2V        |
| 129     | 336 12:25:00            | 31    | 65 AOS | OPCH ACE      |         | AOS DSS-65 PASS-7779 (D/L ONLY)   |           |         |               |                 | 1DP       |
| 130     | 336 14:14:08            | 31    | 10RISE |               |         | 10 DEGREE RISE DSC-10   |           |         |               |                 | 1V        |
| 131     | 336 15:20:00            | 31    | 14 AOS | OPCH ACE      |         | AOS DSS-14 PASS-7780 (U/L PASS)<br>PERFORM RFSTLC PER TELECOM<br>MESSAGE                    |           |         |               |                 | 1DP       |
| 132     | 336 15:25:00            | 31    | 65 LOS | OPCH ACE      |         | LOS DSS-65 PASS-7779  |           |         |               |                 | 1DP       |
| 133     | 336 17:50:46            | 31    | 60 SET |               |         | 10 DEGREE SET DSC-60  |           |         |               |                 | 1V        |
| 134     | 336 18:05:27            | 32    |        |               | AC7SSB  | (4 +186) SS BIAS CONTROL --- YAW  | AACS      |         | 47442:04:003F | 98-336/10:09:35 | 2ECa      |
| 135     | 336 18:45:00            | 31    | 14     | OPCH 14       |         | == START TLC TEST UP-LINK ==<br>== EXECUTE PER DSN SUPPLIED ==<br>== TUNING INSTRUCTIONS == |           |         |               |                 | 1TD       |
| 136     | 336 18:45:00            | 31    | 14     | OPCH 14       |         | == TLC TEST UP-LINK ==<br>TURN RANGING MOD OFF (IF APPL)                                    |           |         |               |                 | 1TD       |
| 137     | 336 18:46:00            | 31    | 14     | OPCH 14       |         | == TLC TEST UP-LINK ==<br>TURN COMMAND MOD OFF (IF APPL)<br>NO COMMANDING FOR 1 HR 56 MIN   |           |         |               |                 | 1TD       |



INTEGRATED SEQUENCE FOR JST A029F JSX B101F WEEK 49 DOY 98-334/00:00 - 98-341/00:00

| 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 |
|---------|-------------------------|-------|--------|---------------|---------|--|-----------|---------|-----------|----------|-----------|
| 138     | 336 18:47:00            | 31    | 14     | OPCH 14       |         | == TLC TEST UP-LINK ==<br>== TUNE U/L AT 48 HZ/SEC ==<br>== TO XA-65 KHZ (S-BAND) ==         |           |         |           |          | 1TD       |
| 139     | 336 19:12:00            | 31    | 14     | OPCH 14       |         | == END TLC TEST UP-LINK ==<br>== TURN TRANSMITTER OFF ==<br>TUNE TO TSF @ 48 HZ/SEC (S-BAND) |           |         |           |          | 1TD       |
| 140     | 336 19:45:00            | 31    | 25 AOS | OPCH ACE      |         | AOS DSS-25 PASS-7780 (D/L ONLY)  |           |         |           |          | 1DP       |
| 141     | 336 20:00:00            | 31    | 14 LOS | OPCH ACE      |         | LOS DSS-14 PASS-7780   |           |         |           |          | 1DP       |
| 142     | 336 21:04:28            | 32    | 40RISE |               |         | 10 DEGREE RISE DSC-40  |           |         |           |          | 2V        |
| 143     | 336 21:38:13            | 31    | 40RISE |               |         | 10 DEGREE RISE DSC-40  |           |         |           |          | 1V        |
| 144     | 337 00:00:00            | 31    |        |               |         | VGR-31 OWLT IS 10H 07M 47S   |           |         |           |          | 1L        |
| 145     | 337 00:00:00            | 32    |        |               |         | VGR-32 OWLT IS 07H 55M 53S   |           |         |           |          | 2L        |
| 146     | 337 01:05:00            | 31    | 25 LOS | OPCH ACE      |         | LOS DSS-25 PASS-7780   |           |         |           |          | 1DP       |
| 147     | 337 01:38:08            | 31    | 10 SET |               |         | 10 DEGREE SET DSC-10   |           |         |           |          | 1V        |
| 148     | 337 04:30:00            | 32    | 45 AOS | OPCH ACE      |         | AOS DSS-45 PASS-7796 (D/L ONLY)  |           |         |           |          | 2DP       |
| 149     | 337 06:37:52            | 31    | 60RISE |               |         | 10 DEGREE RISE DSC-60  |           |         |           |          | 1V        |
| 150     | 337 06:45:04            | 31    | 40 SET |               |         | 10 DEGREE SET DSC-40   |           |         |           |          | 1V        |
| 151     | 337 10:30:00            | 31    | 65 AOS | OPCH ACE      |         | AOS DSS-65 PASS-7780 (D/L ONLY)  |           |         |           |          | 1DP       |
| 152     | 337 12:00:00            | 31    |        |               |         | VGR-31 OWLT IS 10H 07M 49S   |           |         |           |          | 1L        |
| 153     | 337 12:00:00            | 32    |        |               |         | VGR-32 OWLT IS 07H 55M 57S   |           |         |           |          | 2L        |
| 154     | 337 12:18:05            | 32    | 40 SET |               |         | 10 DEGREE SET DSC-40   |           |         |           |          | 2V        |
| 155     | 337 12:40:00            | 32    | 45 LOS | OPCH ACE      |         | LOS DSS-45 PASS-7796   |           |         |           |          | 2DP       |
| 156     | 337 14:10:16            | 31    | 10RISE |               |         | 10 DEGREE RISE DSC-10  |           |         |           |          | 1V        |

INTEGRATED SEQUENCE FOR JST A029F JSX B101F WEEK 49 DOY 98-334/00:00 - 98-341/00:00

| 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 |
|---------|-------------------------|-------|--------|---------------|---------|----------------------------------|-----------|---------|---------------|-----------------|-----------|
| 157     | 337 14:46:22            | 32    |        |               | AC7SSB  | (3 -004) SS BIAS CONTROL - PITCH | AACS      |         | 47467:55:003F | 98-337/06:50:23 | 2ECa      |
| 158     | 337 14:58:02            | 31    |        |               |         | B- RFSTLC                        |           |         | 53610:21:001F | 98-337/04:50:11 | 1TB       |
| 159     | 337 15:27:40            | 31    | 65     | OPCH 65       |         | == START TLC TEST DOWN-LINK ==   |           |         |               |                 | 1TD       |
| 160     | 337 16:28:40            | 31    | 65     | OPCH 65       |         | == END TLC TEST DOWN-LINK ==     |           |         |               |                 | 1TD       |
| 161     | 337 17:35:00            | 31    | 25 AOS | OPCH ACE      |         | AOS DSS-25 PASS-7781 (D/L ONLY)  |           |         |               |                 | 1DP       |
| 162     | 337 17:45:00            | 31    | 65 LOS | OPCH ACE      |         | LOS DSS-65 PASS-7780             |           |         |               |                 | 1DP       |
| 163     | 337 17:46:54            | 31    | 60 SET |               |         | 10 DEGREE SET DSC-60             |           |         |               |                 | 1V        |
| 164     | 337 21:00:38            | 32    | 40RISE |               |         | 10 DEGREE RISE DSC-40            |           |         |               |                 | 2V        |
| 165     | 337 21:34:21            | 31    | 40RISE |               |         | 10 DEGREE RISE DSC-40            |           |         |               |                 | 1V        |
| 166     | 338 00:00:00            | 31    |        |               |         | VGR-31 OWLT IS 10H 07M 51S       |           |         |               |                 | 1L        |
| 167     | 338 00:00:00            | 32    |        |               |         | VGR-32 OWLT IS 07H 56M 02S       |           |         |               |                 | 2L        |
| 168     | 338 01:05:00            | 31    | 25 LOS | OPCH ACE      |         | LOS DSS-25 PASS-7781             |           |         |               |                 | 1DP       |
| 169     | 338 01:34:16            | 31    | 10 SET |               |         | 10 DEGREE SET DSC-10             |           |         |               |                 | 1V        |
| 170     | 338 03:35:00            | 32    | 45 AOS | OPCH ACE      |         | AOS DSS-45 PASS-7797 (D/L ONLY)  |           |         |               |                 | 2DP       |
| 171     | 338 06:34:00            | 31    | 60RISE |               |         | 10 DEGREE RISE DSC-60            |           |         |               |                 | 1V        |
| 172     | 338 06:41:12            | 31    | 40 SET |               |         | 10 DEGREE SET DSC-40             |           |         |               |                 | 1V        |
| 173     | 338 12:00:00            | 31    |        |               |         | VGR-31 OWLT IS 10H 07M 54S       |           |         |               |                 | 1L        |
| 174     | 338 12:00:00            | 32    |        |               |         | VGR-32 OWLT IS 07H 56M 06S       |           |         |               |                 | 2L        |
| 175     | 338 12:14:14            | 32    | 40 SET |               |         | 10 DEGREE SET DSC-40             |           |         |               |                 | 2V        |
| 176     | 338 12:30:00            | 32    | 45 LOS | OPCH ACE      |         | LOS DSS-45 PASS-7797             |           |         |               |                 | 2DP       |
| 177     | 338 13:30:00            | 31    | 61 AOS | OPCH ACE      |         | AOS DSS-61 PASS-7781 (D/L ONLY)  |           |         |               |                 | 1DP       |

INTEGRATED SEQUENCE FOR JST A029F JSX B101F WEEK 49 DOY 98-334/00:00 - 98-341/00:00

| 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 |
|---------|-------------------------|-------|--------|---------------|---------|----------------------------------|-----------|---------|---------------|-----------------|-----------|
| 178     | 338 14:06:24            | 31    | 10RISE |               |         | 10 DEGREE RISE DSC-10            |           |         |               |                 | 1V        |
| 179     | 338 15:50:00            | 31    | 61 LOS | OPCH ACE      |         | LOS DSS-61 PASS-7781             |           |         |               |                 | 1DP       |
| 180     | 338 16:46:07            | 31    |        |               | AC7SSB  | (3 +011) SS BIAS CONTROL - PITCH | AACS      |         | 53642:36:003F | 98-338/06:38:12 | 1ECa      |
| 181     | 338 17:43:02            | 31    | 60 SET |               |         | 10 DEGREE SET DSC-60             |           |         |               |                 | 1V        |
| 182     | 338 19:55:00            | 31    | 24 AOS | OPCH ACE      |         | AOS DSS-24 PASS-7782 (D/L ONLY)  |           |         |               |                 | 1DP       |
| 183     | 338 20:44:31            | 31    |        |               | AC7SSB  | (4 +161) SS BIAS CONTROL --- YAW | AACS      |         | 53647:34:003F | 98-338/10:36:36 | 1ECa      |
| 184     | 338 20:56:48            | 32    | 40RISE |               |         | 10 DEGREE RISE DSC-40            |           |         |               |                 | 2V        |
| 185     | 338 21:30:28            | 31    | 40RISE |               |         | 10 DEGREE RISE DSC-40            |           |         |               |                 | 1V        |
| 186     | 338 23:08:32            | 31    |        |               |         | B- UVSLEW                        |           |         | 53650:34:001F | 98-338/13:00:35 | 1TB       |
| 187     | 338 23:08:32            | 31    |        |               |         | SLEW TO HELIO-20A                |           |         | 53650:34:001F | 98-338/13:00:35 | 1T        |
| 188     | 339 00:00:00            | 31    |        |               |         | VGR-31 OWLT IS 10H 07M 56S       |           |         |               |                 | 1L        |
| 189     | 339 00:00:00            | 32    |        |               |         | VGR-32 OWLT IS 07H 56M 10S       |           |         |               |                 | 2L        |
| 190     | 339 00:45:00            | 32    | 43 AOS | OPCH ACE      |         | AOS DSS-43 PASS-7798 (D/L ONLY)  |           |         |               |                 | 2DP       |
| 191     | 339 01:00:00            | 31    | 24 LOS | OPCH ACE      |         | LOS DSS-24 PASS-7782             |           |         |               |                 | 1DP       |
| 192     | 339 01:30:23            | 31    | 10 SET |               |         | 10 DEGREE SET DSC-10             |           |         |               |                 | 1V        |
| 193     | 339 06:30:08            | 31    | 60RISE |               |         | 10 DEGREE RISE DSC-60            |           |         |               |                 | 1V        |
| 194     | 339 06:37:20            | 31    | 40 SET |               |         | 10 DEGREE SET DSC-40             |           |         |               |                 | 1V        |
| 195     | 339 08:55:00            | 32    | 34 AOS | OPCH ACE      |         | AOS DSS-34 PASS-7798 (D/L ONLY)  |           |         |               |                 | 2DP       |
| 196     | 339 09:15:00            | 32    | 43 LOS | OPCH ACE      |         | LOS DSS-43 PASS-7798             |           |         |               |                 | 2DP       |
| 197     | 339 09:20:00            | 31    | 54 AOS | OPCH ACE      |         | AOS DSS-54 PASS-7782 (D/L ONLY)  |           |         |               |                 | 1DP       |
| 198     | 339 11:55:00            | 32    | 34 LOS | OPCH ACE      |         | LOS DSS-34 PASS-7798             |           |         |               |                 | 2DP       |
| 199     | 339 12:00:00            | 31    |        |               |         | VGR-31 OWLT IS 10H 07M 58S       |           |         |               |                 | 1L        |
| 200     | 339 12:00:00            | 32    |        |               |         | VGR-32 OWLT IS 07H 56M 15S       |           |         |               |                 | 2L        |

SOE YEAR-DAY: 1998-339

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INTEGRATED SEQUENCE FOR JST A029F JSX B101F WEEK 49 DOY 98-334/00:00 - 98-341/00:00

| 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 |
|---------|-------------------------|-------|--------|---------------|---------|---------------------------------|-----------|---------|---------------|-----------------|-----------|
| 201     | 339 12:10:22            | 32    | 40 SET |               |         | 10 DEGREE SET DSC-40            |           |         |               |                 | 2V        |
| 202     | 339 14:02:32            | 31    | 10RISE |               |         | 10 DEGREE RISE DSC-10           |           |         |               |                 | 1V        |
| 203     | 339 15:00:00            | 31    | 54 LOS | OPCH ACE      |         | LOS DSS-54 PASS-7782            |           |         |               |                 | 1DP       |
| 204     | 339 17:39:10            | 31    | 60 SET |               |         | 10 DEGREE SET DSC-60            |           |         |               |                 | 1V        |
| 205     | 339 20:52:58            | 32    | 40RISE |               |         | 10 DEGREE RISE DSC-40           |           |         |               |                 | 2V        |
| 206     | 339 21:15:00            | 31    | 15 AOS | OPCH ACE      |         | AOS DSS-15 PASS-7783 (D/L ONLY) |           |         |               |                 | 1DP       |
| 207     | 339 21:26:36            | 31    | 40RISE |               |         | 10 DEGREE RISE DSC-40           |           |         |               |                 | 1V        |
| 208     | 339 21:50:00            | 32    | 42 AOS | OPCH ACE      |         | AOS DSS-42 PASS-7799 (D/L ONLY) |           |         |               |                 | 2DP       |
| 209     | 339 23:08:36            | 31    |        |               |         | B- UVSLEW                       |           |         | 53680:34:001F | 98-339/13:00:35 | 1TB       |
| 210     | 339 23:08:36            | 31    |        |               |         | SLEW TO HELIO-19A               |           |         | 53680:34:001F | 98-339/13:00:35 | 1T        |
| 211     | 339 23:08:36            | 31    |        |               |         | B- PLATPOA                      |           |         | 53680:34:001F | 98-339/13:00:35 | 1TB       |
| 212     | 339 23:08:36            | 31    |        |               | AC7SPK  | (1 12 1 157 028) EL SLEW R=LOW  | AACS      |         | 53680:34:003F | 98-339/13:00:36 | 1ECa      |
| 213     | 339 23:13:27            | 31    |        |               |         | B- SLEND                        |           |         | 53680:40:034F | 98-339/13:05:25 | 1TB       |
| 214     | 339 23:13:27            | 31    |        |               | SLEWEND | AZ=125.000 EL=47.988 CO=44.587  |           |         | 53680:40:034F | 98-339/13:05:25 | 1T        |
| 215     | 340 00:00:00            | 31    |        |               |         | VGR-31 OWLT IS 10H 08M 01S      |           |         |               |                 | 1L        |
| 216     | 340 00:00:00            | 32    |        |               |         | VGR-32 OWLT IS 07H 56M 19S      |           |         |               |                 | 2L        |
| 217     | 340 01:20:00            | 31    | 15 LOS | OPCH ACE      |         | LOS DSS-15 PASS-7783            |           |         |               |                 | 1DP       |
| 218     | 340 01:26:31            | 31    | 10 SET |               |         | 10 DEGREE SET DSC-10            |           |         |               |                 | 1V        |
| 219     | 340 06:26:16            | 31    | 60RISE |               |         | 10 DEGREE RISE DSC-60           |           |         |               |                 | 1V        |
| 220     | 340 06:33:28            | 31    | 40 SET |               |         | 10 DEGREE SET DSC-40            |           |         |               |                 | 1V        |
| 221     | 340 07:35:00            | 31    | 54 AOS | OPCH ACE      |         | AOS DSS-54 PASS-7783 (D/L ONLY) |           |         |               |                 | 1DP       |
| 222     | 340 11:05:00            | 32    | 42 LOS | OPCH ACE      |         | LOS DSS-42 PASS-7799            |           |         |               |                 | 2DP       |
| 223     | 340 12:00:00            | 31    |        |               |         | VGR-31 OWLT IS 10H 08M 03S      |           |         |               |                 | 1L        |

INTEGRATED SEQUENCE FOR JST A029F JSX B101F WEEK 49 DOY 98-334/00:00 - 98-341/00:00

| 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 |
|---------|-------------------------|-------|-----|---------------|----------|---------------------------------|-----------|---------|---------------|-----------------|-----------|
| 224     | 340 12:00:00            | 32    |     |               |          | VGR-32 OWLT IS 07H 56M 23S      |           |         |               |                 | 2L        |
| 225     | 340 12:06:31            | 32    | 40  | SET           |          | 10 DEGREE SET DSC-40            |           |         |               |                 | 2V        |
| 226     | 340 13:58:40            | 31    | 10  | RISE          |          | 10 DEGREE RISE DSC-10           |           |         |               |                 | 1V        |
| 227     | 340 16:20:00            | 31    | 25  | AOS           | OPCH ACE | AOS DSS-25 PASS-7784 (D/L ONLY) |           |         |               |                 | 1DP       |
| 228     | 340 16:40:00            | 31    | 54  | LOS           | OPCH ACE | LOS DSS-54 PASS-7783            |           |         |               |                 | 1DP       |
| 229     | 340 17:35:18            | 31    | 60  | SET           |          | 10 DEGREE SET DSC-60            |           |         |               |                 | 1V        |
| 230     | 340 20:49:09            | 32    | 40  | RISE          |          | 10 DEGREE RISE DSC-40           |           |         |               |                 | 2V        |
| 231     | 340 21:22:43            | 31    | 40  | RISE          |          | 10 DEGREE RISE DSC-40           |           |         |               |                 | 1V        |
| 232     | 340 23:08:41            | 31    |     |               |          | B- UVSLEW                       |           |         | 53710:34:001F | 98-340/13:00:35 | 1TB       |
| 233     | 340 23:08:41            | 31    |     |               |          | SLEW TO HELIO-18A               |           |         | 53710:34:001F | 98-340/13:00:35 | 1T        |
| 234     | 340 23:08:41            | 31    |     |               |          | B- PLATPOA                      |           |         | 53710:34:001F | 98-340/13:00:35 | 1TB       |
| 235     | 340 23:08:41            | 31    |     |               | AC7SPK   | (1 12 2 141 140) EL SLEW R=LOW  | AACS      |         | 53710:34:003F | 98-340/13:00:36 | 1ECa      |
| 236     | 340 23:13:26            | 31    |     |               |          | B- SLEND                        |           |         | 53710:39:751F | 98-340/13:05:20 | 1TB       |
| 237     | 340 23:13:26            | 31    |     |               | SLEWEND  | AZ=125.000 EL=70.985 CO=67.430  |           |         | 53710:39:751F | 98-340/13:05:20 | 1T        |
| 238     | 341 00:00:00            | 31    |     |               |          | VGR-31 OWLT IS 10H 08M 05S      |           |         |               |                 | 1L        |
| 239     | 341 00:00:00            | 32    |     |               |          | VGR-32 OWLT IS 07H 56M 27S      |           |         |               |                 | 2L        |