

INTEGRATED SEQUENCE FOR JST A021F JSX B024F WEEK 37 DOY 95-254/00:00 - 95-261/00:00

| 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       | 254 00:00:00            | 31    |        |               |         | VGR-31 OWLT IS 08H 25M 08S  |           |         |               |                  | 1L        |
| 2       | 254 00:00:00            | 32    |        |               |         | VGR-32 OWLT IS 06H 25M 30S  |           |         |               |                  | 2L        |
| 3       | 254 01:57:56            | 32    | 10RISE |               |         | 10 DEGREE RISE DSC-10   |           |         |               |                  | 2V        |
| 4       | 254 02:39:50            | 32    | 40RISE |               |         | 10 DEGREE RISE DSC-40   |           |         |               |                  | 2V        |
| 5       | 254 02:55:00            | 32    | 14 AOS | OPCH ACE      |         | AOS DSS-14 PASS-6614 (D/L ONLY)   |           |         |               |                  | 2DP       |
| 6       | 254 02:56:16            | 31    | 40RISE |               |         | 10 DEGREE RISE DSC-40   |           |         |               |                  | 1V        |
| 7       | 254 04:40:00            | 32    | 45 AOS | OPCH ACE      |         | AOS DSS-45 PASS-6614 (D/L ONLY)   |           |         |               |                  | 2DP       |
| 8       | 254 04:55:00            | 32    | 14 LOS | OPCH ACE      |         | LOS DSS-14 PASS-6614  |           |         |               |                  | 2DP       |
| 9       | 254 05:20:00            | 31    | 42 AOS | OPCH ACE      |         | AOS DSS-42 PASS-6598 (D/L ONLY)   |           |         |               |                  | 1DP       |
| 10      | 254 05:22:35            | 32    | 10 SET |               |         | 10 DEGREE SET DSC-10  |           |         |               |                  | 2V        |
| 11      | 254 05:35:00            | 31    | 12 LOS | OPCH ACE      |         | LOS DSS-12 PASS-6598  |           |         |               |                  | 1DP       |
| 12      | 254 06:55:36            | 32    |        | ACE OPCH      |         | >>>>>>> 5 MIN WARNING <<<<<<<<<<<<<<br>FOR FDS MODE OR FDS STATUS CHG   |           |         |               |                  | 2ESf      |
| 13      | 254 06:55:36            | 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      |
| 14      | 254 06:55:56            | 31    | 10 SET |               |         | 10 DEGREE SET DSC-10  |           |         |               |                  | 1V        |
| 15      | 254 06:59:00            | 32    |        |               |         | B- SUNMON03   |           |         | 12090:00:001F | 254 00:30:23.774 | 2TB       |
| 16      | 254 06:59:00            | 32    |        |               |         | BEGIN SUNMON03  |           |         | 12090:00:001F | 254 00:30:23.774 | 2T        |
| 17      | 254 06:59:00            | 32    |        |               |         | SC34AE03  |           |         | 12090:00:001F | 254 00:30:23.774 | 2T        |
| 18      | 254 06:59:00            | 32    |        |               | SC34AE  | (0 3) UVS COMMAND WORD<br>MODE: PULSE HEIGHT HV LEVEL: 3  | FDS       |         | 12090:00:009F | 254 00:30:24.248 | 2ECf      |
| 19      | 254 06:59:48            | 32    |        |               |         | B- DRUV5A   |           |         | 12090:01:001F | 254 00:31:11.774 | 2TB       |

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|---------|-------------------------|-------|-----|---------------|---------|--|-----------|---------|---------------|------------------|-----------|
| 20      | 254 06:59:48            | 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       |         | 12090:01:009F | 254 00:31:12.248 | 2ECf      |
| 21      | 254 07:00:36            | 32    |     | ACE OPCH      |         | FDS STATUS<br>UV-5A/X600/S10<br>MEM:PB/FDS11 SA/FDS11  | FDS       | UV-5A   | 12090:02:001F | 254 00:31:59.768 | 2ESf      |
| 22      | 254 07:00:36            | 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       |         | 12090:02:001F | 254 00:31:59.823 | 2ECs      |
| 23      | 254 07:15:00            | 32    |     |               |         | SLEW OCC PORT TO SUN +1 EL   |           |         | 12090:20:001F | 254 00:46:23.774 | 2T        |
| 24      | 254 07:15:00            | 32    |     |               |         | B- PLATPOB   |           |         | 12090:20:001F | 254 00:46:23.774 | 2TB       |
| 25      | 254 07:15:00            | 32    |     |               | AC7SPK  | (2 12 2 140 053) AZ SLEW R=LOW   | AACS      |         | 12090:20:003F | 254 00:46:23.895 | 2ECa      |
| 26      | 254 07:15:00            | 32    |     |               | AC7SPK  | (1 12 1 172 211) EL SLEW R=LOW   | AACS      |         | 12090:20:004F | 254 00:46:23.983 | 2ECa      |
| 27      | 254 07:41:08            | 32    |     |               |         | B- SLEND   |           |         | 12090:52:534F | 254 01:12:31.774 | 2TB       |
| 28      | 254 07:41:08            | 32    |     |               | SLEWEND | AZ=184.080 EL=27.748 CO=1.043  |           |         | 12090:52:534F | 254 01:12:31.774 | 2T        |
| 29      | 254 07:59:01            | 32    |     |               |         | BEGIN HV-03 SWATHS   |           |         | 12091:15:001F | 254 01:30:23.774 | 2T        |
| 30      | 254 07:59:01            | 32    |     |               |         | SLEW VLO -2 DELTA EL ACROSS SUN  |           |         | 12091:15:001F | 254 01:30:23.774 | 2T        |
| 31      | 254 07:59:01            | 32    |     |               |         | B- PLATPOA   |           |         | 12091:15:001F | 254 01:30:23.774 | 2TB       |
| 32      | 254 07:59:01            | 32    |     |               | AC7SPL  | (1 27 2 255 149) EL SLEW R=VLOW  | AACS      |         | 12091:15:002F | 254 01:30:23.886 | 2ECa      |
| 33      | 254 08:05:40            | 32    |     |               |         | B- SLEND   |           |         | 12091:23:251F | 254 01:37:02.774 | 2TB       |
| 34      | 254 08:05:40            | 32    |     |               | SLEWEND | AZ=184.080 EL=25.756 CO=0.971  |           |         | 12091:23:251F | 254 01:37:02.774 | 2T        |
| 35      | 254 08:07:49            | 32    |     |               |         | SLEW VLO +2 DELTA EL ACROSS SUN  |           |         | 12091:26:001F | 254 01:39:11.774 | 2T        |
| 36      | 254 08:07:49            | 32    |     |               |         | B- PLATPOA   |           |         | 12091:26:001F | 254 01:39:11.774 | 2TB       |
| 37      | 254 08:07:49            | 32    |     |               | AC7SPL  | (1 27 2 255 079) EL SLEW R=VLOW  | AACS      |         | 12091:26:002F | 254 01:39:11.887 | 2ECa      |

| ITEM NO | TRM-OR-ERT<br>DOY-HH:MM:SS | SC ID | DSN | ACTION BY>>TO | COMMAND | EVENT-DESCRIPTION  | S/C SBSYS | TLM FMT | FDS-COUNT     | SCE-TIME         | SORT CODE |
|---------|----------------------------|-------|-----|---------------|---------|--|-----------|---------|---------------|------------------|-----------|
| 38      | 254 08:14:49               | 32    |     | ACE OPCH      |         | >>>>>>> 5 MIN WARNING <<<<<<<<<<<<<<br>FOR FDS MODE OR FDS STATUS CHG  |           |         |               |                  | 2ESf      |
| 39      | 254 08:14:49               | 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      |
| 40      | 254 08:15:49               | 32    |     |               |         | END HV-03 SWATHS   |           |         | 12091:36:001F | 254 01:47:11.774 | 2T        |
| 41      | 254 08:15:52               | 32    |     |               |         | B- SLEND   |           |         | 12091:36:051F | 254 01:47:14.774 | 2TB       |
| 42      | 254 08:15:52               | 32    |     |               | SLEWEND | AZ=184.080 EL=27.742 CO=1.004  |           |         | 12091:36:051F | 254 01:47:14.774 | 2T        |
| 43      | 254 08:16:37               | 32    |     |               |         | END SUNMON03 SLEWS   |           |         | 12091:37:001F | 254 01:47:59.774 | 2T        |
| 44      | 254 08:16:37               | 32    |     |               |         | SC34AE13   |           |         | 12091:37:001F | 254 01:47:59.774 | 2T        |
| 45      | 254 08:16:37               | 32    |     |               | SC34AE  | (1 3) UVS COMMAND WORD<br>MODE: PULSE COUNT HV LEVEL: 3  | FDS       |         | 12091:37:009F | 254 01:48:00.248 | 2ECf      |
| 46      | 254 08:17:25               | 32    |     |               |         | SLEW AWAY TO SAFE  |           |         | 12091:38:001F | 254 01:48:47.774 | 2T        |
| 47      | 254 08:17:25               | 32    |     |               |         | B- PLATPOB   |           |         | 12091:38:001F | 254 01:48:47.774 | 2TB       |
| 48      | 254 08:17:25               | 32    |     |               | AC7SPK  | (1 12 2 167 088) EL SLEW R=LOW   | AACS      |         | 12091:38:003F | 254 01:48:47.895 | 2ECa      |
| 49      | 254 08:17:25               | 32    |     |               | AC7SPK  | (2 12 2 158 178) AZ SLEW R=LOW   | AACS      |         | 12091:38:004F | 254 01:48:47.983 | 2ECa      |
| 50      | 254 08:19:01               | 32    |     |               |         | B- DRCSR   |           |         | 12091:40:001F | 254 01:50:23.774 | 2TB       |
| 51      | 254 08:19:01               | 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       |         | 12091:40:009F | 254 01:50:24.248 | 2ECf      |
| 52      | 254 08:19:02               | 32    |     |               |         | END SUNMON03   |           |         | 12091:40:018F | 254 01:50:24.774 | 2T        |
| 53      | 254 08:19:49               | 32    |     | ACE OPCH      |         | FDS STATUS<br>CR-5T/X160/S10<br>MEM:PB/FDS11 SA/FDS11  | FDS       | CR-5T   | 12091:41:001F | 254 01:51:11.768 | 2ESf      |

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|---------|-------------------------|-------|--------|---------------|---------|--|-----------|---------|---------------|------------------|-----------|
| 54      | 254 08:19:49            | 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       |         | 12091:41:001F | 254 01:51:11.822 | 2ECs      |
| 55      | 254 08:24:19            | 32    |        |               |         | B- SLEND   |           |         | 12091:46:501F | 254 01:55:41.774 | 2TB       |
| 56      | 254 08:24:19            | 32    |        |               | SLEWEND | AZ=210.086 EL=34.997 CO=28.399   |           |         | 12091:46:501F | 254 01:55:41.774 | 2T        |
| 57      | 254 10:20:00            | 31    | 42 LOS | OPCH ACE      |         | LOS DSS-42 PASS-6598   |           |         |               |                  | 1DP       |
| 58      | 254 11:53:14            | 31    | 60RISE |               |         | 10 DEGREE RISE DSC-60  |           |         |               |                  | 1V        |
| 59      | 254 12:00:00            | 31    |        |               |         | VGR-31 OWLT IS 08H 25M 14S   |           |         |               |                  | 1L        |
| 60      | 254 12:00:00            | 32    |        |               |         | VGR-32 OWLT IS 06H 25M 35S   |           |         |               |                  | 2L        |
| 61      | 254 12:00:26            | 31    | 40 SET |               |         | 10 DEGREE SET DSC-40   |           |         |               |                  | 1V        |
| 62      | 254 13:20:00            | 31    | 61 AOS | OPCH ACE      |         | AOS DSS-61 PASS-6598 (D/L ONLY)  |           |         |               |                  | 1DP       |
| 63      | 254 17:11:38            | 32    | 40 SET |               |         | 10 DEGREE SET DSC-40   |           |         |               |                  | 2V        |
| 64      | 254 17:35:00            | 32    | 45 LOS | OPCH ACE      |         | LOS DSS-45 PASS-6614   |           |         |               |                  | 2DP       |
| 65      | 254 18:35:00            | 32    | 65 AOS | OPCH ACE      |         | AOS DSS-65 PASS-6446 (D/L ONLY)  |           |         |               |                  | 2DP       |
| 66      | 254 19:25:51            | 31    | 10RISE |               |         | 10 DEGREE RISE DSC-10  |           |         |               |                  | 1V        |
| 67      | 254 21:15:00            | 31    | 12 AOS | OPCH ACE      |         | AOS DSS-12 PASS-6599 (D/L ONLY)  |           |         |               |                  | 1DP       |
| 68      | 254 21:30:00            | 31    | 61 LOS | OPCH ACE      |         | LOS DSS-61 PASS-6598   |           |         |               |                  | 1DP       |
| 69      | 254 21:35:00            | 32    | 65 LOS | OPCH ACE      |         | LOS DSS-65 PASS-6446   |           |         |               |                  | 2DP       |
| 70      | 254 23:01:38            | 31    | 60 SET |               |         | 10 DEGREE SET DSC-60   |           |         |               |                  | 1V        |
| 71      | 255 00:00:00            | 31    |        |               |         | VGR-31 OWLT IS 08H 25M 20S   |           |         |               |                  | 1L        |
| 72      | 255 00:00:00            | 32    |        |               |         | VGR-32 OWLT IS 06H 25M 41S   |           |         |               |                  | 2L        |
| 73      | 255 00:45:56            | 31    |        |               | AC7SSB  | (4 +137) SS BIAS CONTROL --- YAW   | AACS      |         | 18254:44:003F | 95-254/16:20:36  | 1ECa      |
| 74      | 255 01:53:58            | 32    | 10RISE |               |         | 10 DEGREE RISE DSC-10  |           |         |               |                  | 2V        |
| 75      | 255 02:35:51            | 32    | 40RISE |               |         | 10 DEGREE RISE DSC-40  |           |         |               |                  | 2V        |

| 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 |
|---------|-------------------------|-------|--------|---------------|---------|--|-----------|---------|-----------|----------|-----------|
| 76      | 255 02:45:00            | 32    | 14 AOS | OPCH ACE      |         | AOS DSS-14 PASS-6615 (U/L PASS)<br>XMTR ON PER TELECOM TRKING FORM   |           |         |           |          | 2DP       |
| 77      | 255 02:52:19            | 31    | 40RISE |               |         | 10 DEGREE RISE DSC-40  |           |         |           |          | 1V        |
| 78      | 255 04:55:00            | 32    | 45 AOS | OPCH ACE      |         | AOS DSS-45 PASS-6615 (D/L ONLY)  |           |         |           |          | 2DP       |
| 79      | 255 05:10:00            | 32    | 14 LOS | OPCH ACE      |         | LOS DSS-14 PASS-6615   |           |         |           |          | 2DP       |
| 80      | 255 05:18:36            | 32    | 10 SET |               |         | 10 DEGREE SET DSC-10   |           |         |           |          | 2V        |
| 81      | 255 05:20:00            | 31    | 42 AOS | OPCH ACE      |         | AOS DSS-42 PASS-6599 (D/L ONLY)  |           |         |           |          | 1DP       |
| 82      | 255 05:30:00            | 31    | 12 LOS | OPCH ACE      |         | LOS DSS-12 PASS-6599   |           |         |           |          | 1DP       |
| 83      | 255 06:11:23            | 32    | 45     | TRK DSS       |         | ASCAL PREP<br>=====<br>ANTENNA DRIVE TO PRECISION ONE<br>(70 METER STATION ONLY)<br>PRIME DATA SOURCE=S/X BAND AGC<br>(APPLICABLE > 34 & 70 METER DSS)<br>VERIFY S-BD AGC BANDWIDTH=NARROW<br>VERIFY X-BD AGC BANDWIDTH=NARROW<br>SET RECEIVER RF BANDWIDTH<br>-- 70 METER STATION --<br>S-BAND = 1 WIDE / 10 HZ<br>X-BAND = 1 WIDE / 10 HZ<br>-- 34 METER STATION --<br>S-BAND = 12HZ X-BAND = 48HZ<br>=====<br>TURN COMMAND MOD --> OFF (IF ON)<br>TURN CONSCAN -----> OFF (IF ON) |           |         |           | 2TD      |           |
| 84      | 255 06:16:23            | 32    | 45     | ACE TRK       |         | ASCAL PREP<br>=====<br>VERIFY COMMAND MOD --> OFF<br>VERIFY CONSCAN -----> OFF   |           |         |           |          | 2TD       |
| 85      | 255 06:22:11            | 32    |        | ACE OPCH      |         | >>>>>>> 5 MIN WARNING <<<<<<<<<<<br>FOR FDS MODE OR FDS STATUS CHG   |           |         |           |          | 2ESf      |



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|---------|-------------------------|-------|-----|---------------|---------|---|-----------|---------|---------------|------------------|-----------|
| 97      | 255 06:58:23            | 32    |     |               |         | AACS STATUS<br>MODE : AAI GYRO A: OFF<br>HYBIC: 2 GYRO B: ON<br>CST : ON GRYO C: ON | AACS      |         | 12119:59:002F | 255 00:29:35.830 | 2ESa      |
| 98      | 255 06:58:23            | 32    |     |               | CC7GARP | GYRO A OFF  | PWR       |         | 12119:59:002F | 255 00:29:35.863 | 2ECp      |
| 99      | 255 06:58:23            | 32    |     |               | CC7GARP | GYRO A OFF  | PWR       |         | 12119:59:004F | 255 00:29:35.998 | 2ECp      |
| 100     | 255 06:58:23            | 32    |     |               | CC7PC   | (352) GYRO A OFF  | AACS      |         | 12119:59:006F | 255 00:29:36.124 | 2ECa      |
| 101     | 255 06:59:10            | 32    | 45  | OPCH 45       |         | ASCAL<br>=====  |           |         |               |                  | 2TD       |
| 102     | 255 06:59:11            | 32    |     |               |         | START FIRST YAW DRIFT TURN  |           |         | 12120:00:001F | 255 00:30:23.774 | 2T        |
| 103     | 255 06:59:11            | 32    |     |               | AC7PAR  | (7015 013560) PARAMETER LOAD  | AACS      |         | 12120:00:003F | 255 00:30:23.930 | 2ECa      |
| 104     | 255 07:03:11            | 32    |     |               | AC7PAR  | (7015 764220) PARAMETER LOAD  | AACS      |         | 12120:05:003F | 255 00:34:23.905 | 2ECa      |
| 105     | 255 07:11:12            | 32    |     |               | AC7PAR  | (7015 013560) PARAMETER LOAD  | AACS      |         | 12120:15:003F | 255 00:42:23.904 | 2ECa      |
| 106     | 255 07:15:11            | 32    | 45  | OPCH 45       |         | ASCAL<br>=====  |           |         |               |                  | 2TD       |
| 107     | 255 07:15:12            | 32    |     |               | AC7PAR  | (7015 000000) PARAMETER LOAD  | AACS      |         | 12120:20:003F | 255 00:46:23.930 | 2ECa      |
| 108     | 255 07:15:13            | 32    |     |               |         | END THIRD YAW DRIFT TURN  |           |         | 12120:20:018F | 255 00:46:24.774 | 2T        |
| 109     | 255 07:15:58            | 32    | 45  | OPCH 45       |         | ASCAL<br>=====  |           |         |               |                  | 2TD       |
| 110     | 255 07:16:00            | 32    |     |               |         | START FIRST PITCH DRIFT TURN  |           |         | 12120:21:001F | 255 00:47:11.774 | 2T        |
| 111     | 255 07:16:00            | 32    |     |               | AC7PAR  | (7014 013560) PARAMETER LOAD  | AACS      |         | 12120:21:003F | 255 00:47:11.905 | 2ECa      |

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|---------|-------------------------|-------|-----|---------------|---------|---|-----------|---------------|------------------|------------------|-----------|
| 112     | 255 07:20:00            | 32    |     |               | AC7PAR  | (7014 764220) PARAMETER LOAD  | AACS      |               | 12120:26:003F    | 255 00:51:11.930 | 2ECa      |
| 113     | 255 07:28:00            | 32    |     |               | AC7PAR  | (7014 013560) PARAMETER LOAD  | AACS      |               | 12120:36:003F    | 255 00:59:11.930 | 2ECa      |
| 114     | 255 07:31:59            | 32    | 45  | OPCH 45       |         | ASCAL<br>=====<br>END PITCH DRIFT TURNS   |           |               |                  |                  | 2TD       |
| 115     | 255 07:32:00            | 32    |     |               | AC7PAR  | (7014 000000) PARAMETER LOAD  | AACS      |               | 12120:41:003F    | 255 01:03:11.905 | 2ECa      |
| 116     | 255 07:32:01            | 32    |     |               |         | END THIRD PITCH DRIFT TURN  |           |               | 12120:41:018F    | 255 01:03:12.774 | 2T        |
| 117     | 255 07:33:36            | 32    |     |               | CC7SS   | (1) SS SEARCH ENABLE  | AACS      |               | 12120:43:001F    | 255 01:04:47.788 | 2ECa      |
| 118     | 255 07:33:36            | 32    |     |               |         | AACS STATUS<br>MODE : RAI GYRO A: OFF<br>HYBIC: 2 GYRO B: ON<br>CST : ON GRYO C: ON                                   | AACS      | 12120:43:001F | 255 01:04:47.788 | 2ESa             |           |
| 119     | 255 07:33:36            | 32    |     |               | CC7PC   | (327) IDET ACQUIRED   | AACS      |               | 12120:43:002F    | 255 01:04:47.845 | 2ECa      |
| 120     | 255 07:33:36            | 32    |     |               | CC7GARP | GYRO A OFF  | PWR       |               | 12120:43:003F    | 255 01:04:47.896 | 2ECp      |
| 121     | 255 07:33:36            | 32    |     |               | CC7GARP | GYRO A OFF  | PWR       |               | 12120:43:005F    | 255 01:04:48.022 | 2ECp      |
| 122     | 255 07:33:36            | 32    |     |               | CC7PC   | (352) GYRO A OFF  | AACS      |               | 12120:43:007F    | 255 01:04:48.148 | 2ECa      |
| 123     | 255 07:34:12            | 32    |     | ACE OPCH      |         | >>>>>> 5 MIN WARNING <<<<<<<<<br>FOR FDS MODE OR FDS STATUS CHG   |           |               |                  |                  | 2ESf      |
| 124     | 255 07:34:12            | 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      |
| 125     | 255 07:35:12            | 32    |     |               | CC7CT   | (07) CST FLYBACK AND SWEEP  | AACS      |               | 12120:45:001F    | 255 01:06:23.788 | 2ECa      |



INTEGRATED SEQUENCE FOR JST A021F JSX B024F WEEK 37 DOY 95-254/00:00 - 95-261/00:00

| 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 |
|---------|-------------------------|-------|-----|---------------|---------|--|-----------|---------|---------------|------------------|-----------|
| 126     | 255 07:36:17            | 32    |     |               |         | AACS STATUS<br>MODE : CRU GYRO A: OFF<br>HYBIC: 2 GYRO B: ON<br>CST : ON GRYO C: ON  | AACS      |         | 12120:46:284F | 255 01:07:28.788 | 2ESa      |
| 127     | 255 07:36:17            | 32    |     |               | CC7PC   | (307) STAR ACQUIRED  | AACS      |         | 12120:46:285F | 255 01:07:28.818 | 2ECa      |
| 128     | 255 07:38:24            | 32    |     |               |         | B- DRCRUS  |           |         | 12120:49:001F | 255 01:09:35.774 | 2TB       |
| 129     | 255 07:38:24            | 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       |         | 12120:49:009F | 255 01:09:36.248 | 2ECf      |
| 130     | 255 07:39:12            | 32    |     | ACE           | OPCH    | FDS STATUS<br>CR-5T/X160/S10<br>MEM:PB/FDS11 SA/FDS11  | FDS       | CR-5T   | 12120:50:001F | 255 01:10:23.768 | 2ESf      |
| 131     | 255 07:39:12            | 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       |         | 12120:50:001F | 255 01:10:23.826 | 2ECs      |
| 132     | 255 07:44:48            | 32    |     |               |         | B- YAWDB   |           |         | 12120:57:001F | 255 01:15:59.774 | 2TB       |
| 133     | 255 07:44:48            | 32    |     |               |         | YAWDB - .10  |           |         | 12120:57:001F | 255 01:15:59.774 | 2T        |
| 134     | 255 07:44:48            | 32    |     |               |         | B- ROLLDB  |           |         | 12120:57:001F | 255 01:15:59.774 | 2TB       |
| 135     | 255 07:44:48            | 32    |     |               |         | ROLLDB - .25   |           |         | 12120:57:001F | 255 01:15:59.774 | 2T        |
| 136     | 255 07:44:48            | 32    |     |               | AC7PAR  | (6741 001700) +YAW DB=.10 DEG  | AACS      |         | 12120:57:003F | 255 01:15:59.907 | 2ECa      |
| 137     | 255 07:44:48            | 32    |     |               | AC7PAR  | (6742 004540) +ROLL DB=.25 DEG   | AACS      |         | 12120:57:005F | 255 01:16:00.027 | 2ECa      |
| 138     | 255 07:44:49            | 32    | 45  | OPCH          | 45      | END ASCAL  |           |         |               |                  | 2TD       |
| 139     | 255 07:46:24            | 32    |     |               |         | RESTART GYRO FAULT TEST  |           |         | 12120:59:001F | 255 01:17:35.774 | 2T        |

INTEGRATED SEQUENCE FOR JST A021F JSX B024F WEEK 37 DOY 95-254/00:00 - 95-261/00:00

| ITEM NO | TRM-OR-ERT<br>DOY-HH:MM:SS | SC ID | DSN    | ACTION<br>BY>>TO | COMMAND | EVENT-DESCRIPTION   | S/C<br>SBSYS | TLM<br>FMT | FDS-COUNT     | SCE-TIME         | SORT<br>CODE |
|---------|----------------------------|-------|--------|------------------|---------|---|--------------|------------|---------------|------------------|--------------|
| 140     | 255 07:46:24               | 32    |        |                  | CC7GY   | (4) DRIRU FAULT TEST START  | AACS         |            | 12120:59:001F | 255 01:17:35.821 | 2ECa         |
| 141     | 255 10:15:00               | 31    | 42 LOS | OPCH ACE         |         | LOS DSS-42 PASS-6599  |              |            |               |                  | 1DP          |
| 142     | 255 11:49:21               | 31    | 60RISE |                  |         | 10 DEGREE RISE DSC-60   |              |            |               |                  | 1V           |
| 143     | 255 11:56:32               | 31    | 40 SET |                  |         | 10 DEGREE SET DSC-40  |              |            |               |                  | 1V           |
| 144     | 255 12:00:00               | 31    |        |                  |         | VGR-31 OWLT IS 08H 25M 25S  |              |            |               |                  | 1L           |
| 145     | 255 12:00:00               | 32    |        |                  |         | VGR-32 OWLT IS 06H 25M 47S  |              |            |               |                  | 2L           |
| 146     | 255 13:30:00               | 31    | 65 AOS | OPCH ACE         |         | AOS DSS-65 PASS-6599 (D/L ONLY)   |              |            |               |                  | 1DP          |
| 147     | 255 15:20:51               | 32    |        |                  | AC7SSB  | (4 +191) SS BIAS CONTROL --- YAW  | AACS         |            | 12130:27:003F | 255 08:51:59.900 | 2ECa         |
| 148     | 255 17:07:40               | 32    | 40 SET |                  |         | 10 DEGREE SET DSC-40  |              |            |               |                  | 2V           |
| 149     | 255 17:30:00               | 32    | 45 LOS | OPCH ACE         |         | LOS DSS-45 PASS-6615  |              |            |               |                  | 2DP          |
| 150     | 255 19:10:00               | 32    | 61 AOS | OPCH ACE         |         | AOS DSS-61 PASS-6446 (D/L ONLY)   |              |            |               |                  | 2DP          |
| 151     | 255 19:21:58               | 31    | 10RISE |                  |         | 10 DEGREE RISE DSC-10   |              |            |               |                  | 1V           |
| 152     | 255 20:50:00               | 32    | 61 LOS | OPCH ACE         |         | LOS DSS-61 PASS-6446  |              |            |               |                  | 2DP          |
| 153     | 255 21:45:00               | 31    | 12 AOS | OPCH ACE         |         | AOS DSS-12 PASS-6600 (D/L ONLY)   |              |            |               |                  | 1DP          |
| 154     | 255 21:50:00               | 31    | 65 LOS | OPCH ACE         |         | LOS DSS-65 PASS-6599  |              |            |               |                  | 1DP          |
| 155     | 255 22:57:46               | 31    | 60 SET |                  |         | 10 DEGREE SET DSC-60  |              |            |               |                  | 1V           |
| 156     | 255 23:58:43               | 31    |        | ACE OPCH         |         | >>>>>>> 5 MIN WARNING <<<<<<<<<<<<<<br>FOR FDS MODE OR FDS STATUS CHG   |              |            |               |                  | 1ESf         |
| 157     | 255 23:58:43               | 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         |
| 158     | 255 23:58:55               | 31    |        |                  |         | BEGIN PMPCALLR  |              |            | 18283:45:001F | 95-255/15:33:23  | 1T           |
| 159     | 256 00:00:00               | 31    |        |                  |         | VGR-31 OWLT IS 08H 25M 31S  |              |            |               |                  | 1L           |
| 160     | 256 00:00:00               | 32    |        |                  |         | VGR-32 OWLT IS 06H 25M 53S  |              |            |               |                  | 2L           |

INTEGRATED SEQUENCE FOR JST A021F JSX B024F WEEK 37 DOY 95-254/00:00 - 95-261/00:00

| 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 |
|---------|-------------------------|-------|--------|---------------|---------|--|-----------|---------|---------------|-----------------|-----------|
| 161     | 256 00:02:55            | 31    |        |               |         | B- DRRCR5T   |           |         | 18283:50:001F | 95-255/15:37:23 | 1TB       |
| 162     | 256 00:02:55            | 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       |         | 18283:50:009F | 95-255/15:37:24 | 1ECf      |
| 163     | 256 00:03:43            | 31    |        | ACE OPCH      |         | FDS STATUS<br>CR-5T/X160/S10<br>MEM:PA/FDS11   | FDS       | CR-5T   | 18283:51:001F | 95-255/15:38:11 | 1ESf      |
| 164     | 256 00:03:43            | 31    |        |               | CC3A    | (32310) X-BD TMU STATE CHANGE<br>DRIVER(S) 1 AND 2 ON<br>MOD INDEX=32 DATA RATE=HIGH<br>SUBCARRIER FREQ=22.5KHZ  | MDS       |         | 18283:51:001F | 95-255/15:38:11 | 1ECs      |
| 165     | 256 00:10:07            | 31    |        |               | SC06BY  | (7) FDS PLS/MAG/PESCAL FLAG<br>PLSCAL ENABLED<br>MAGCAL ENABLED<br>PESCAL ENABLED  | FDS       |         | 18283:59:009F | 95-255/15:44:36 | 1ECf      |
| 166     | 256 00:10:55            | 31    |        |               |         | BEGIN PLS/MAG/PESCAL   |           |         | 18284:00:001F | 95-255/15:45:23 | 1T        |
| 167     | 256 01:50:00            | 32    | 10RISE |               |         | 10 DEGREE RISE DSC-10  |           |         |               |                 | 2V        |
| 168     | 256 01:53:20            | 31    |        |               |         | END PLSCAL   |           |         | 18286:08:001F | 95-255/17:27:47 | 1T        |
| 169     | 256 02:31:53            | 32    | 40RISE |               |         | 10 DEGREE RISE DSC-40  |           |         |               |                 | 2V        |
| 170     | 256 02:48:22            | 31    | 40RISE |               |         | 10 DEGREE RISE DSC-40  |           |         |               |                 | 1V        |
| 171     | 256 03:13:21            | 31    |        |               |         | END MAGCAL   |           |         | 18287:48:001F | 95-255/18:47:47 | 1T        |
| 172     | 256 03:20:00            | 32    | 42 AOS | OPCH ACE      |         | AOS DSS-42 PASS-6616 (D/L ONLY)  |           |         |               |                 | 2DP       |
| 173     | 256 03:26:45            | 31    |        | ACE OPCH      |         | >>>>>>> 5 MIN WARNING <<<<<<<<<<<br>FOR FDS MODE OR FDS STATUS CHG   |           |         |               |                 | 1ESf      |
| 174     | 256 03:26:45            | 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      |

INTEGRATED SEQUENCE FOR JST A021F JSX B024F WEEK 37 DOY 95-254/00:00 - 95-261/00:00

| 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 |
|---------|-------------------------|-------|-----|---------------|---------|--|-----------|---------|---------------|------------------|-----------|
| 175     | 256 03:30:57            | 31    |     |               |         | END PESCAL   |           |         | 18288:10:001F | 95-255/19:05:23  | 1T        |
| 176     | 256 03:30:57            | 31    |     |               |         | B- DRCRUS  |           |         | 18288:10:001F | 95-255/19:05:23  | 1TB       |
| 177     | 256 03:30:57            | 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       |         | 18288:10:010F | 95-255/19:05:24  | 1ECf      |
| 178     | 256 03:31:45            | 31    |     | ACE OPCH      |         | FDS STATUS<br>CR-5T/X160/S10<br>MEM:PA/FDS11   | FDS       | CR-5T   | 18288:11:001F | 95-255/19:06:11  | 1ESf      |
| 179     | 256 03:31:45            | 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       |         | 18288:11:001F | 95-255/19:06:11  | 1ECs      |
| 180     | 256 03:31:46            | 31    |     |               |         | END PMPCALLR   |           |         | 18288:11:018F | 95-255/19:06:12  | 1T        |
| 181     | 256 03:40:45            | 32    |     | ACE OPCH      |         | >>>>>> 5 MIN WARNING <<<<<<<<<<br>FOR FDS MODE OR FDS STATUS CHG   |           |         |               |                  | 2ESf      |
| 182     | 256 03:40:45            | 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      |
| 183     | 256 03:41:33            | 32    |     | ACE OPCH      |         | >>>>>> 5 MIN WARNING <<<<<<<<<<br>FOR FDS MODE OR FDS STATUS CHG   |           |         |               |                  | 2ESf      |
| 184     | 256 03:41:33            | 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      |
| 185     | 256 03:44:57            | 32    |     |               |         | B- BASLIN.32   |           |         | 12145:57:001F | 255 21:15:59.774 | 2TB       |
| 186     | 256 03:44:57            | 32    |     |               |         | BEGIN PWSREC   |           |         | 12145:57:001F | 255 21:15:59.774 | 2T        |
| 187     | 256 03:44:57            | 32    |     |               |         | B- DRGS4B  |           |         | 12145:57:001F | 255 21:15:59.774 | 2TB       |
| 188     | 256 03:44:57            | 32    |     |               |         | INITIATE PWSREC CYCLIC   |           |         | 12145:57:001F | 255 21:15:59.774 | 2T        |

INTEGRATED SEQUENCE FOR JST A021F JSX B024F WEEK 37 DOY 95-254/00:00 - 95-261/00:00

| ITEM NO | TRM-OR-ERT DOY-HH:MM:SS | SC ID | DSN | ACTION BY>>TO | COMMAND | EVENT-DESCRIPTION  | S/C SBSYS | TLM FMT | FDS-COUNT     | SCE-TIME         | SORT CODE |
|---------|-------------------------|-------|-----|---------------|---------|--|-----------|---------|---------------|------------------|-----------|
| 189     | 256 03:44:57            | 32    |     |               |         | PWSREC LOOPS=6D23H36M 52 TIMES   |           |         | 12145:57:001F | 255 21:15:59.774 | 2T        |
| 190     | 256 03:44:57            | 32    |     |               |         | B- DAIN.32   |           |         | 12145:57:001F | 255 21:15:59.774 | 2TB       |
| 191     | 256 03:44:57            | 32    |     |               |         | BEGIN DAIN32   |           |         | 12145:57:001F | 255 21:15:59.774 | 2T        |
| 192     | 256 03:44:57            | 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       |         | 12145:57:009F | 255 21:16:00.248 | 2ECf      |
| 193     | 256 03:45:41            | 32    |     |               |         | BEGIN RECORDING PWS DATA   |           |         | 12145:57:734F | 255 21:16:43.774 | 2T        |
| 194     | 256 03:45:41            | 32    |     |               | CC16C   | (3000) DTR STATE SELECT:115.2REC   | DTR       |         | 12145:57:734F | 255 21:16:43.795 | 2ECd      |
| 195     | 256 03:45:41            | 32    |     |               |         | DTR STATUS<br>MODE:REC RATE:115.2K<br>DIR:F TRK:1 TIC:0550   | DTR       |         | 12145:57:734F | 255 21:16:43.795 | 2ESd      |
| 196     | 256 03:45:45            | 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   | 12145:58:001F | 255 21:16:47.768 | 2ESf      |
| 197     | 256 03:45:45            | 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       |         | 12145:58:002F | 255 21:16:47.829 | 2ECs      |
| 198     | 256 03:45:46            | 32    |     |               |         | B- DRCRUS  |           |         | 12145:58:018F | 255 21:16:48.774 | 2TB       |
| 199     | 256 03:45:46            | 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       |         | 12145:58:025F | 255 21:16:49.208 | 2ECf      |



INTEGRATED SEQUENCE FOR JST A021F JSX B024F WEEK 37 DOY 95-254/00:00 - 95-261/00:00

| 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 |
|---------|-------------------------|-------|-----|---------------|---------|--|-----------|---------|---------------|-----------------|-----------|
| 214     | 256 04:18:58            | 31    |     |               |         | B- DRGS4B  |           |         | 18289:10:001F | 95-255/19:53:23 | 1TB       |
| 215     | 256 04:18:58            | 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       |         | 18289:10:009F | 95-255/19:53:24 | 1ECf      |
| 216     | 256 04:19:42            | 31    |     |               |         | BEGIN RECORDING PWS DATA   |           |         | 18289:10:734F | 95-255/19:54:07 | 1T        |
| 217     | 256 04:19:42            | 31    |     |               | CC16C   | (3000) DTR STATE SELECT:115.2REC   | DTR       |         | 18289:10:734F | 95-255/19:54:07 | 1ECd      |
| 218     | 256 04:19:42            | 31    |     |               |         | DTR STATUS<br>MODE:REC RATE:115.2K<br>DIR:F TRK:5 TIC:1147   | DTR       |         | 18289:10:734F | 95-255/19:54:07 | 1ESd      |
| 219     | 256 04:19:46            | 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   | 18289:11:001F | 95-255/19:54:11 | 1ESf      |
| 220     | 256 04:19:46            | 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       |         | 18289:11:002F | 95-255/19:54:11 | 1ECs      |
| 221     | 256 04:19:47            | 31    |     |               |         | B- DRCRUS  |           |         | 18289:11:018F | 95-255/19:54:12 | 1TB       |
| 222     | 256 04:19:47            | 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       |         | 18289:11:026F | 95-255/19:54:13 | 1ECf      |
| 223     | 256 04:20:34            | 31    |     | ACE OPCH      |         | FDS STATUS<br>CR-5T/X160/S10<br>MEM:PA/FDS11   | FDS       | CR-5T   | 18289:12:001F | 95-255/19:54:59 | 1ESf      |
| 224     | 256 04:20:34            | 31    |     |               | CC16C   | (7000) DTR STATE SELECT: READY   | DTR       |         | 18289:12:001F | 95-255/19:54:59 | 1ECd      |

INTEGRATED SEQUENCE FOR JST A021F JSX B024F WEEK 37 DOY 95-254/00:00 - 95-261/00:00

| 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 |
|---------|-------------------------|-------|-----|---------------|----------|---|-----------|---------|---------------|-----------------|-----------|
| 225     | 256 04:20:34            | 31    |     |               |          | DTR STATUS<br>MODE:RDY RATE:000.0K<br>DIR:F TRK:5 TIC:1439  | DTR       |         | 18289:12:001F | 95-255/19:54:59 | 1ESd      |
| 226     | 256 04:20:34            | 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       |         | 18289:12:002F | 95-255/19:55:00 | 1ECs      |
| 227     | 256 04:21:22            | 31    |     |               | SC32AJ   | (11) PLS CONFIG CMD   | FDS       |         | 18289:13:008F | 95-255/19:55:48 | 1ECF      |
| 228     | 256 04:21:23            | 31    |     |               |          | END PWSREC.31   |           |         | 18289:13:018F | 95-255/19:55:48 | 1T        |
| 229     | 256 05:14:38            | 32    | 10  | SET           |          | 10 DEGREE SET DSC-10  |           |         |               |                 | 2V        |
| 230     | 256 05:25:00            | 31    | 12  | LOS           | OPCH ACE | LOS DSS-12 PASS-6600  |           |         |               |                 | 1DP       |
| 231     | 256 06:20:00            | 32    | 42  | LOS           | OPCH ACE | LOS DSS-42 PASS-6616  |           |         |               |                 | 2DP       |
| 232     | 256 06:48:03            | 31    | 10  | SET           |          | 10 DEGREE SET DSC-10  |           |         |               |                 | 1V        |
| 233     | 256 06:55:00            | 32    | 45  | AOS           | OPCH ACE | AOS DSS-45 PASS-6616 (D/L ONLY)   |           |         |               |                 | 2DP       |
| 234     | 256 07:20:00            | 31    | 42  | AOS           | OPCH ACE | AOS DSS-42 PASS-6600 (D/L ONLY)   |           |         |               |                 | 1DP       |
| 235     | 256 10:10:00            | 31    | 42  | LOS           | OPCH ACE | LOS DSS-42 PASS-6600  |           |         |               |                 | 1DP       |
| 236     | 256 11:40:00            | 31    | 65  | AOS           | OPCH ACE | AOS DSS-65 PASS-6600 (D/L ONLY)   |           |         |               |                 | 1DP       |
| 237     | 256 11:45:28            | 31    | 60  | RISE          |          | 10 DEGREE RISE DSC-60   |           |         |               |                 | 1V        |
| 238     | 256 11:52:39            | 31    | 40  | SET           |          | 10 DEGREE SET DSC-40  |           |         |               |                 | 1V        |
| 239     | 256 12:00:00            | 31    |     |               |          | VGR-31 OWLT IS 08H 25M 37S  |           |         |               |                 | 1L        |
| 240     | 256 12:00:00            | 32    |     |               |          | VGR-32 OWLT IS 06H 25M 58S  |           |         |               |                 | 2L        |
| 241     | 256 17:03:42            | 32    | 40  | SET           |          | 10 DEGREE SET DSC-40  |           |         |               |                 | 2V        |
| 242     | 256 17:25:00            | 32    | 45  | LOS           | OPCH ACE | LOS DSS-45 PASS-6616  |           |         |               |                 | 2DP       |
| 243     | 256 17:45:00            | 31    | 63  | AOS           | OPCH ACE | AOS DSS-63 PASS-6600 (U/L PASS)   |           |         |               |                 | 1DP       |
| 244     | 256 18:00:00            | 31    | 65  | LOS           | OPCH ACE | LOS DSS-65 PASS-6600  |           |         |               |                 | 1DP       |



INTEGRATED SEQUENCE FOR JST A021F JSX B024F WEEK 37 DOY 95-254/00:00 - 95-261/00:00

| 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 |
|---------|-------------------------|-------|-----|---------------|---------|--|-----------|---------------|-----------------|-----------------|-----------|
| 245     | 256 18:31:05            | 31    |     |               |         | B- GYONAB.31   |           |               | 18306:55:001F   | 95-256/10:05:23 | 1TB       |
| 246     | 256 18:31:05            | 31    |     |               |         | BEGIN GYONAB31   |           |               | 18306:55:001F   | 95-256/10:05:23 | 1T        |
| 247     | 256 18:31:05            | 31    |     |               | AC7GYP  | (000) DRIRU PATTERN CONTROL<br>GYRO/AXIS=A/PITCH & YAW B/ROLL                        | AACS      |               | 18306:55:002F   | 95-256/10:05:24 | 1ECa      |
| 248     | 256 18:31:05            | 31    |     |               | CC7GCRP | GYRO C OFF   | PWR       |               | 18306:55:003F   | 95-256/10:05:24 | 1ECp      |
| 249     | 256 18:31:05            | 31    |     |               | CC7GCRP | GYRO C OFF   | PWR       |               | 18306:55:006F   | 95-256/10:05:24 | 1ECp      |
| 250     | 256 18:31:05            | 31    |     |               | CC7PC   | (372) GYRO C OFF   | AACS      |               | 18306:55:008F   | 95-256/10:05:24 | 1ECa      |
| 251     | 256 18:31:05            | 31    |     |               |         | AACS STATUS<br>MODE : CRU GYRO A: OFF<br>HYBIC: 2 GYRO B: ON<br>CST : ON GRYO C: OFF | AACS      | 18306:55:008F | 95-256/10:05:24 | 1ESa            |           |
| 252     | 256 18:31:05            | 31    |     |               | CC7GBP  | GYRO B ON  | PWR       |               | 18306:55:008F   | 95-256/10:05:24 | 1ECp      |
| 253     | 256 18:31:06            | 31    |     |               | CC7GBP  | GYRO B ON  | PWR       |               | 18306:55:010F   | 95-256/10:05:24 | 1ECp      |
| 254     | 256 18:31:06            | 31    |     |               | CC7PC   | (363) GYRO B ON  | AACS      |               | 18306:55:012F   | 95-256/10:05:24 | 1ECa      |
| 255     | 256 18:31:06            | 31    |     |               |         | AACS STATUS<br>MODE : CRU GYRO A: ON<br>HYBIC: 2 GYRO B: ON<br>CST : ON GRYO C: OFF  | AACS      | 18306:55:012F | 95-256/10:05:24 | 1ESa            |           |
| 256     | 256 18:31:06            | 31    |     |               | CC7GAP  | GYRO A ON  | PWR       |               | 18306:55:013F   | 95-256/10:05:24 | 1ECp      |
| 257     | 256 18:31:06            | 31    |     |               | CC7GAP  | GYRO A ON  | PWR       |               | 18306:55:015F   | 95-256/10:05:24 | 1ECp      |
| 258     | 256 18:31:06            | 31    |     |               | CC7PC   | (353) GYRO A ON  | AACS      |               | 18306:55:017F   | 95-256/10:05:24 | 1ECa      |
| 259     | 256 18:31:34            | 31    |     |               |         | DRIRU INITIALIZATION   |           |               | 18306:55:484F   | 95-256/10:05:52 | 1T        |
| 260     | 256 18:31:35            | 31    |     |               | CC7GY   | (3) DRIRU INITIALIZE [P/Y/R]   | AACS      |               | 18306:55:501F   | 95-256/10:05:53 | 1ECa      |
| 261     | 256 18:32:04            | 31    |     |               |         | SET CALIB  |           |               | 18306:56:184F   | 95-256/10:06:22 | 1T        |
| 262     | 256 18:32:05            | 31    |     |               | AC7PAR  | (7530 000001) PARAMETER LOAD   | AACS      |               | 18306:56:203F   | 95-256/10:06:24 | 1ECa      |

INTEGRATED SEQUENCE FOR JST A021F JSX B024F WEEK 37 DOY 95-254/00:00 - 95-261/00:00

| 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 |
|---------|-------------------------|-------|--------|---------------|---------|---------------------------------|-----------|---------|---------------|-----------------|-----------|
| 263     | 256 18:41:04            | 31    |        |               |         | START GYRO FAULT TEST           |           |         | 18307:07:384F | 95-256/10:15:22 | 1T        |
| 264     | 256 18:41:05            | 31    |        |               | CC7GY   | (4) DRIRU FAULT TEST START      | AACS      |         | 18307:07:401F | 95-256/10:15:23 | 1ECa      |
| 265     | 256 18:41:06            | 31    |        |               |         | END GYONAB31                    |           |         | 18307:07:418F | 95-256/10:15:24 | 1T        |
| 266     | 256 18:45:00            | 32    | 65 AOS | OPCH ACE      |         | AOS DSS-65 PASS-6446 (D/L ONLY) |           |         |               |                 | 2DP       |
| 267     | 256 19:18:05            | 31    | 10RISE |               |         | 10 DEGREE RISE DSC-10           |           |         |               |                 | 1V        |
| 268     | 256 21:25:00            | 32    | 65 LOS | OPCH ACE      |         | LOS DSS-65 PASS-6446            |           |         |               |                 | 2DP       |
| 269     | 256 22:20:00            | 31    | 63 LOS | OPCH ACE      |         | LOS DSS-63 PASS-6600            |           |         |               |                 | 1DP       |
| 270     | 256 22:53:54            | 31    | 60 SET |               |         | 10 DEGREE SET DSC-60            |           |         |               |                 | 1V        |
| 271     | 257 00:00:00            | 31    |        |               |         | VGR-31 OWLT IS 08H 25M 43S      |           |         |               |                 | 1L        |
| 272     | 257 00:00:00            | 32    |        |               |         | VGR-32 OWLT IS 06H 26M 04S      |           |         |               |                 | 2L        |
| 273     | 257 00:25:00            | 31    | 12 AOS | OPCH ACE      |         | AOS DSS-12 PASS-6601 (D/L ONLY) |           |         |               |                 | 1DP       |
| 274     | 257 01:46:02            | 32    | 10RISE |               |         | 10 DEGREE RISE DSC-10           |           |         |               |                 | 2V        |
| 275     | 257 02:27:55            | 32    | 40RISE |               |         | 10 DEGREE RISE DSC-40           |           |         |               |                 | 2V        |
| 276     | 257 02:44:25            | 31    | 40RISE |               |         | 10 DEGREE RISE DSC-40           |           |         |               |                 | 1V        |
| 277     | 257 03:05:00            | 32    | 14 AOS | OPCH ACE      |         | AOS DSS-14 PASS-6617 (D/L ONLY) |           |         |               |                 | 2DP       |
| 278     | 257 04:20:00            | 31    | 42 AOS | OPCH ACE      |         | AOS DSS-42 PASS-6601 (D/L ONLY) |           |         |               |                 | 1DP       |
| 279     | 257 04:35:00            | 31    | 12 LOS | OPCH ACE      |         | LOS DSS-12 PASS-6601            |           |         |               |                 | 1DP       |
| 280     | 257 04:50:00            | 32    | 45 AOS | OPCH ACE      |         | AOS DSS-45 PASS-6617 (D/L ONLY) |           |         |               |                 | 2DP       |
| 281     | 257 05:05:00            | 32    | 14 LOS | OPCH ACE      |         | LOS DSS-14 PASS-6617            |           |         |               |                 | 2DP       |
| 282     | 257 05:10:40            | 32    | 10 SET |               |         | 10 DEGREE SET DSC-10            |           |         |               |                 | 2V        |
| 283     | 257 06:44:06            | 31    | 10 SET |               |         | 10 DEGREE SET DSC-10            |           |         |               |                 | 1V        |
| 284     | 257 10:05:00            | 31    | 42 LOS | OPCH ACE      |         | LOS DSS-42 PASS-6601            |           |         |               |                 | 1DP       |
| 285     | 257 11:20:00            | 31    | 65 AOS | OPCH ACE      |         | AOS DSS-65 PASS-6601 (D/L ONLY) |           |         |               |                 | 1DP       |

INTEGRATED SEQUENCE FOR JST A021F JSX B024F WEEK 37 DOY 95-254/00:00 - 95-261/00:00

| 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 |
|---------|-------------------------|-------|--------|---------------|---------|--|-----------|---------|-----------|----------|-----------|
| 286     | 257 11:41:35            | 31    | 60RISE |               |         | 10 DEGREE RISE DSC-60  |           |         |           |          | 1V        |
| 287     | 257 11:48:46            | 31    | 40 SET |               |         | 10 DEGREE SET DSC-40   |           |         |           |          | 1V        |
| 288     | 257 12:00:00            | 31    |        |               |         | VGR-31 OWLT IS 08H 25M 49S                                       |           |         |           |          | 1L        |
| 289     | 257 12:00:00            | 32    |        |               |         | VGR-32 OWLT IS 06H 26M 10S                                       |           |         |           |          | 2L        |
| 290     | 257 16:59:44            | 32    | 40 SET |               |         | 10 DEGREE SET DSC-40   |           |         |           |          | 2V        |
| 291     | 257 17:20:00            | 32    | 45 LOS | OPCH ACE      |         | LOS DSS-45 PASS-6617   |           |         |           |          | 2DP       |
| 292     | 257 18:10:00            | 31    | 63 AOS | OPCH ACE      |         | AOS DSS-63 PASS-6601 (D/L ONLY)                                  |           |         |           |          | 1DP       |
| 293     | 257 18:15:00            | 31    | 65 LOS | OPCH ACE      |         | LOS DSS-65 PASS-6601   |           |         |           |          | 1DP       |
| 294     | 257 19:00:00            | 32    | 65 AOS | OPCH ACE      |         | AOS DSS-65 PASS-6446 (D/L ONLY)                                  |           |         |           |          | 2DP       |
| 295     | 257 19:14:11            | 31    | 10RISE |               |         | 10 DEGREE RISE DSC-10  |           |         |           |          | 1V        |
| 296     | 257 21:20:00            | 32    | 65 LOS | OPCH ACE      |         | LOS DSS-65 PASS-6446   |           |         |           |          | 2DP       |
| 297     | 257 21:45:00            | 31    | 12 AOS | OPCH ACE      |         | AOS DSS-12 PASS-6602 (D/L ONLY)                                  |           |         |           |          | 1DP       |
| 298     | 257 22:00:00            | 31    | 63 LOS | OPCH ACE      |         | LOS DSS-63 PASS-6601   |           |         |           |          | 1DP       |
| 299     | 257 22:50:02            | 31    | 60 SET |               |         | 10 DEGREE SET DSC-60   |           |         |           |          | 1V        |
| 300     | 257 23:12:57            | 32    |        | ACE ALL       |         | >>>>>>>> 1 HR WARNING <<<<<<<<<<br>FOR S/C-32 COMMAND MORATORIUM |           |         |           |          | 2T        |
| 301     | 258 00:00:00            | 31    |        |               |         | VGR-31 OWLT IS 08H 25M 55S                                       |           |         |           |          | 1L        |
| 302     | 258 00:00:00            | 32    |        |               |         | VGR-32 OWLT IS 06H 26M 16S                                       |           |         |           |          | 2L        |
| 303     | 258 00:12:57            | 32    |        | ACE ALL       |         | BEGIN S/C-32 COMMAND MORATORIUM                                  |           |         |           |          | 2T        |
| 304     | 258 01:42:04            | 32    | 10RISE |               |         | 10 DEGREE RISE DSC-10  |           |         |           |          | 2V        |
| 305     | 258 01:55:00            | 32    | 45 AOS | OPCH ACE      |         | AOS DSS-45 PASS-6618 (D/L ONLY)                                  |           |         |           |          | 2DP       |
| 306     | 258 02:23:57            | 32    | 40RISE |               |         | 10 DEGREE RISE DSC-40  |           |         |           |          | 2V        |
| 307     | 258 02:40:29            | 31    | 40RISE |               |         | 10 DEGREE RISE DSC-40  |           |         |           |          | 1V        |

INTEGRATED SEQUENCE FOR JST A021F JSX B024F WEEK 37 DOY 95-254/00:00 - 95-261/00:00

| 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     | 258 02:59:44            | 32    |        |               |         | B- UVRIDE   |           |         | 12205:00:001F | 257 20:30:23.774 | 2TB       |
| 309     | 258 02:59:44            | 32    |        |               |         | BEGIN UVRIDE  |           |         | 12205:00:001F | 257 20:30:23.774 | 2T        |
| 310     | 258 02:59:44            | 32    |        |               |         | SLEW TO MAGROL START POSITION   |           |         | 12205:00:001F | 257 20:30:23.774 | 2T        |
| 311     | 258 02:59:44            | 32    |        |               |         | B- PLATPOB  |           |         | 12205:00:001F | 257 20:30:23.774 | 2TB       |
| 312     | 258 02:59:44            | 32    |        |               | AC7SPK  | (1 12 1 139 163) EL SLEW R=LOW  | AACS      |         | 12205:00:003F | 257 20:30:23.898 | 2ECa      |
| 313     | 258 02:59:44            | 32    |        |               | AC7SPK  | (2 12 1 171 151) AZ SLEW R=LOW  | AACS      |         | 12205:00:004F | 257 20:30:23.985 | 2ECa      |
| 314     | 258 03:11:21            | 32    |        |               |         | B- SLEND  |           |         | 12205:14:418F | 257 20:42:00.774 | 2TB       |
| 315     | 258 03:11:21            | 32    |        |               | SLEWEND | AZ=228.076 EL=74.035 CO=68.611  |           |         | 12205:14:418F | 257 20:42:00.774 | 2T        |
| 316     | 258 04:30:00            | 31    | 42 AOS | OPCH ACE      |         | AOS DSS-42 PASS-6602 (D/L ONLY)   |           |         |               |                  | 1DP       |
| 317     | 258 04:45:00            | 31    | 12 LOS | OPCH ACE      |         | LOS DSS-12 PASS-6602  |           |         |               |                  | 1DP       |
| 318     | 258 05:06:42            | 32    | 10 SET |               |         | 10 DEGREE SET DSC-10  |           |         |               |                  | 2V        |
| 319     | 258 06:23:34            | 32    |        | ACE OPCH      |         | >>>>>>> 5 MIN WARNING <<<<<<<<<<br>FOR FDS MODE OR FDS STATUS CHG   |           |         |               |                  | 2ESf      |
| 320     | 258 06:23:34            | 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      |
| 321     | 258 06:26:58            | 32    |        |               |         | B- MAGROLBC.32  |           |         | 12209:19:001F | 257 23:57:35.774 | 2TB       |
| 322     | 258 06:26:58            | 32    |        |               |         | BEGIN MAGROLBC32  |           |         | 12209:19:001F | 257 23:57:35.774 | 2T        |
| 323     | 258 06:26:58            | 32    |        |               |         | B- YAW10  |           |         | 12209:19:001F | 257 23:57:35.774 | 2TB       |
| 324     | 258 06:26:58            | 32    |        |               |         | YAW10   |           |         | 12209:19:001F | 257 23:57:35.774 | 2T        |
| 325     | 258 06:26:58            | 32    |        |               | AC7PAR  | (6741 001700) +YAW DB=.10 DEG   | AACS      |         | 12209:19:004F | 257 23:57:35.954 | 2ECa      |
| 326     | 258 06:27:47            | 32    |        |               |         | B- DRCR5T   |           |         | 12209:20:018F | 257 23:58:24.774 | 2TB       |

INTEGRATED SEQUENCE FOR JST A021F JSX B024F WEEK 37 DOY 95-254/00:00 - 95-261/00:00

| 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 |
|---------|-------------------------|-------|--------|---------------|---------|--|-----------|---------|---------------|------------------|-----------|
| 327     | 258 06:27:47            | 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       |         | 12209:20:025F | 257 23:58:25.208 | 2ECf      |
| 328     | 258 06:28:34            | 32    |        | ACE OPCH      |         | FDS STATUS<br>CR-5T/X160/S10<br>MEM:PB/FDS11 SA/FDS11  | FDS       | CR-5T   | 12209:21:001F | 257 23:59:11.768 | 2ESf      |
| 329     | 258 06:28:34            | 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       |         | 12209:21:001F | 257 23:59:11.825 | 2ECs      |
| 330     | 258 06:34:59            | 32    |        | ACE OPCH      |         | >>>>>>> 5 MIN WARNING <<<<<<<<<<<br>FOR COMMANDED TURN<br>D/L AGC VARIATIONS EXPECTED  |           |         |               |                  | 22EC      |
| 331     | 258 06:36:59            | 32    |        |               | AC7MDP  | (6) AACS MODE: ALL AXIS INERTIAL   | AACS      |         | 12209:31:418F | 258 00:07:36.832 | 2ECa      |
| 332     | 258 06:36:59            | 32    |        |               |         | AACS STATUS<br>MODE : AAI GYRO A: OFF<br>HYBIC: 2 GYRO B: ON<br>CST : ON GRYO C: ON  | AACS      |         | 12209:31:418F | 258 00:07:36.832 | 2ESa      |
| 333     | 258 06:36:59            | 32    |        |               | CC7GARP | GYRO A OFF   | PWR       |         | 12209:31:419F | 258 00:07:36.864 | 2ECp      |
| 334     | 258 06:36:59            | 32    |        |               | CC7GARP | GYRO A OFF   | PWR       |         | 12209:31:421F | 258 00:07:36.990 | 2ECp      |
| 335     | 258 06:36:59            | 32    |        |               | CC7PC   | (352) GYRO A OFF   | AACS      |         | 12209:31:423F | 258 00:07:37.116 | 2ECa      |
| 336     | 258 06:39:59            | 32    |        |               | AC7TCD  | (322 033167) TURN COMMAND<br>AXIS=ROLL POL=NEG RNG SCALE=X10   | AACS      |         | 12209:35:219F | 258 00:10:36.867 | 2ECa      |
| 337     | 258 06:40:10            | 31    | 10 SET |               |         | 10 DEGREE SET DSC-10   |           |         |               |                  | 1V        |
| 338     | 258 06:52:59            | 32    |        |               |         | BEGIN UVRIDE EVENT   |           |         | 12209:51:418F | 258 00:23:36.774 | 2T        |
| 339     | 258 09:40:00            | 32    |        |               |         | BEGIN 6TH ROLL TURN (NOMINAL)  |           |         | 12213:20:218F | 258 03:10:36.774 | 2T        |
| 340     | 258 09:40:00            | 32    |        |               |         | SLEW OF +20 DEG ELEVATION  |           |         | 12213:20:218F | 258 03:10:36.774 | 2T        |

INTEGRATED SEQUENCE FOR JST A021F JSX B024F WEEK 37 DOY 95-254/00:00 - 95-261/00:00

| 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 |
|---------|-------------------------|-------|--------|---------------|---------|---|-----------|---------------|------------------|------------------|-----------|
| 341     | 258 09:40:00            | 32    |        |               |         | B- PLATPOA  |           |               | 12213:20:218F    | 258 03:10:36.774 | 2TB       |
| 342     | 258 09:40:00            | 32    |        |               | AC7SPK  | (1 12 2 125 118) EL SLEW R=LOW  | AACS      |               | 12213:20:219F    | 258 03:10:36.868 | 2ECa      |
| 343     | 258 09:44:09            | 32    |        |               |         | B- SLEND  |           |               | 12213:25:368F    | 258 03:14:45.774 | 2TB       |
| 344     | 258 09:44:09            | 32    |        |               | SLEWEND | AZ=228.076 EL=94.043 CO=88.523  |           |               | 12213:25:368F    | 258 03:14:45.774 | 2T        |
| 345     | 258 10:05:00            | 31    | 42 LOS | OPCH ACE      |         | LOS DSS-42 PASS-6602  |           |               |                  |                  | 1DP       |
| 346     | 258 11:04:59            | 32    |        |               | SC32AJ  | (10) PLS CONFIG CMD   | FDS       |               | 12215:06:392F    | 258 04:35:35.228 | 2ECf      |
| 347     | 258 11:37:42            | 31    | 60RISE |               |         | 10 DEGREE RISE DSC-60   |           |               |                  |                  | 1V        |
| 348     | 258 11:38:06            | 32    |        |               | SC32AJ  | (11) PLS CONFIG CMD   | FDS       |               | 12215:47:708F    | 258 05:08:42.188 | 2ECf      |
| 349     | 258 11:44:54            | 31    | 40 SET |               |         | 10 DEGREE SET DSC-40  |           |               |                  |                  | 1V        |
| 350     | 258 12:00:00            | 31    |        |               |         | VGR-31 OWLT IS 08H 26M 01S  |           |               |                  |                  | 1L        |
| 351     | 258 12:00:00            | 32    |        |               |         | VGR-32 OWLT IS 06H 26M 21S  |           |               |                  |                  | 2L        |
| 352     | 258 12:11:15            | 32    |        |               |         | ROLL TURN COMPLETE (NOMINAL)  |           |               | 12216:29:251F    | 258 05:41:50.774 | 2T        |
| 353     | 258 12:13:41            | 32    |        |               | CC7PC   | (345) CMDED TURN COMPLETE   | AACS      |               | 12216:32:289F    | 258 05:44:17.093 | 2ECa      |
| 354     | 258 12:19:02            | 32    |        |               | SC32AJ  | (15) PLS CONFIG CMD   | FDS       |               | 12216:39:025F    | 258 05:49:37.208 | 2ECf      |
| 355     | 258 12:28:02            | 32    |        |               |         | RESET CALIB   |           |               | 12216:50:218F    | 258 05:58:36.774 | 2T        |
| 356     | 258 12:28:02            | 32    |        |               | AC7PAR  | (7530 000000) PARAMETER LOAD  | AACS      |               | 12216:50:219F    | 258 05:58:36.896 | 2ECa      |
| 357     | 258 12:28:32            | 32    |        |               | CC7SS   | (1) SS SEARCH ENABLE  | AACS      |               | 12216:50:718F    | 258 05:59:06.795 | 2ECa      |
| 358     | 258 12:28:32            | 32    |        |               |         | AACS STATUS<br>MODE : RAI GYRO A: OFF<br>HYBIC: 2 GYRO B: ON<br>CST : ON GRYO C: ON | AACS      | 12216:50:718F | 258 05:59:06.795 | 2ESa             |           |
| 359     | 258 12:28:32            | 32    |        |               | CC7PC   | (327) IDET ACQUIRED   | AACS      |               | 12216:50:718F    | 258 05:59:06.843 | 2ECa      |
| 360     | 258 12:28:32            | 32    |        |               | CC7GARP | GYRO A OFF  | PWR       |               | 12216:50:719F    | 258 05:59:06.875 | 2ECp      |
| 361     | 258 12:28:32            | 32    |        |               | CC7GARP | GYRO A OFF  | PWR       |               | 12216:50:721F    | 258 05:59:07.000 | 2ECp      |

INTEGRATED SEQUENCE FOR JST A021F JSX B024F WEEK 37 DOY 95-254/00:00 - 95-261/00:00

| 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 |
|---------|-------------------------|-------|-----|---------------|---------|---|-----------|---------|---------------|------------------|-----------|
| 362     | 258 12:28:32            | 32    |     |               | CC7PC   | (352) GYRO A OFF  | AACS      |         | 12216:50:723F | 258 05:59:07.126 | 2ECa      |
| 363     | 258 12:34:32            | 32    |     |               | CC7CT   | (07) CST FLYBACK AND SWEEP  | AACS      |         | 12216:58:318F | 258 06:05:06.795 | 2ECa      |
| 364     | 258 12:35:37            | 32    |     |               |         | GYROS OFF   |           |         | 12216:59:601F | 258 06:06:11.774 | 2T        |
| 365     | 258 12:35:37            | 32    |     |               |         | AACS STATUS<br>MODE : CRU GYRO A: OFF<br>HYBIC: 2 GYRO B: ON<br>CST : ON GRYO C: ON   | AACS      |         | 12216:59:601F | 258 06:06:11.795 | 2ESa      |
| 366     | 258 12:35:37            | 32    |     |               | CC7PC   | (307) STAR ACQUIRED   | AACS      |         | 12216:59:601F | 258 06:06:11.824 | 2ECa      |
| 367     | 258 12:35:37            | 32    |     |               |         | AACS STATUS<br>MODE : CRU GYRO A: OFF<br>HYBIC: 2 GYRO B: ON<br>CST : ON GRYO C: OFF  | AACS      |         | 12216:59:601F | 258 06:06:11.824 | 2ESa      |
| 368     | 258 12:35:37            | 32    |     |               | CC7GCRP | GYRO C OFF  | PWR       |         | 12216:59:602F | 258 06:06:11.868 | 2ECp      |
| 369     | 258 12:35:37            | 32    |     |               | CC7GCRP | GYRO C OFF  | PWR       |         | 12216:59:604F | 258 06:06:11.993 | 2ECp      |
| 370     | 258 12:35:37            | 32    |     |               | CC7PC   | (372) GYRO C OFF  | AACS      |         | 12216:59:606F | 258 06:06:12.119 | 2ECa      |
| 371     | 258 12:35:37            | 32    |     |               |         | AACS STATUS<br>MODE : CRU GYRO A: OFF<br>HYBIC: 2 GYRO B: OFF<br>CST : ON GRYO C: OFF | AACS      |         | 12216:59:606F | 258 06:06:12.119 | 2ESa      |
| 372     | 258 12:35:37            | 32    |     |               | CC7GBRP | GYRO B OFF  | PWR       |         | 12216:59:607F | 258 06:06:12.151 | 2ECp      |
| 373     | 258 12:35:37            | 32    |     |               | CC7GBRP | GYRO B OFF  | PWR       |         | 12216:59:609F | 258 06:06:12.277 | 2ECp      |
| 374     | 258 12:35:37            | 32    |     |               | CC7PC   | (362) GYRO B OFF  | AACS      |         | 12216:59:611F | 258 06:06:12.403 | 2ECa      |
| 375     | 258 12:35:37            | 32    |     |               | CC7GARP | GYRO A OFF  | PWR       |         | 12216:59:612F | 258 06:06:12.434 | 2ECp      |
| 376     | 258 12:35:38            | 32    |     |               | CC7GARP | GYRO A OFF  | PWR       |         | 12216:59:614F | 258 06:06:12.560 | 2ECp      |
| 377     | 258 12:35:38            | 32    |     |               | CC7PC   | (352) GYRO A OFF  | AACS      |         | 12216:59:616F | 258 06:06:12.686 | 2ECa      |





INTEGRATED SEQUENCE FOR JST A021F JSX B024F WEEK 37 DOY 95-254/00:00 - 95-261/00:00

| 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 |
|---------|-------------------------|-------|--------|---------------|---------|---|-----------|---------|-----------|----------|-----------|
| 394     | 258 20:30:00            | 31    | 12 AOS | OPCH ACE      |         | AOS DSS-12 PASS-6603 (D/L ONLY)   |           |         |           |          | 1DP       |
| 395     | 258 20:45:00            | 31    | 61 LOS | OPCH ACE      |         | LOS DSS-61 PASS-6602  |           |         |           |          | 1DP       |
| 396     | 258 21:20:00            | 32    | 65 LOS | OPCH ACE      |         | LOS DSS-65 PASS-6446  |           |         |           |          | 2DP       |
| 397     | 258 22:46:10            | 31    | 60 SET |               |         | 10 DEGREE SET DSC-60  |           |         |           |          | 1V        |
| 398     | 259 00:00:00            | 31    |        |               |         | VGR-31 OWLT IS 08H 26M 07S  |           |         |           |          | 1L        |
| 399     | 259 00:00:00            | 32    |        |               |         | VGR-32 OWLT IS 06H 26M 27S  |           |         |           |          | 2L        |
| 400     | 259 01:38:06            | 32    | 10RISE |               |         | 10 DEGREE RISE DSC-10   |           |         |           |          | 2V        |
| 401     | 259 02:19:59            | 32    | 40RISE |               |         | 10 DEGREE RISE DSC-40   |           |         |           |          | 2V        |
| 402     | 259 02:20:00            | 32    | 45 AOS | OPCH ACE      |         | AOS DSS-45 PASS-6619 (D/L ONLY)   |           |         |           |          | 2DP       |
| 403     | 259 02:36:32            | 31    | 40RISE |               |         | 10 DEGREE RISE DSC-40   |           |         |           |          | 1V        |
| 404     | 259 04:15:00            | 31    | 42 AOS | OPCH ACE      |         | AOS DSS-42 PASS-6603 (U/L PASS)   |           |         |           |          | 1DP       |
| 405     | 259 04:30:00            | 31    | 12 LOS | OPCH ACE      |         | LOS DSS-12 PASS-6603  |           |         |           |          | 1DP       |
| 406     | 259 05:02:44            | 32    | 10 SET |               |         | 10 DEGREE SET DSC-10  |           |         |           |          | 2V        |
| 407     | 259 06:36:14            | 31    | 10 SET |               |         | 10 DEGREE SET DSC-10  |           |         |           |          | 1V        |
| 408     | 259 09:00:00            | 31    | 42     | OPCH 42       |         | == START TLC TEST UP-LINK ==<br>== EXECUTE PER DSN SUPPLIED ==<br>== TUNING INSTRUCTIONS == |           |         |           |          | 1TD       |
| 409     | 259 09:00:00            | 31    | 42     | OPCH 42       |         | == TLC TEST UP-LINK ==<br>TURN RANGING MOD OFF (IF APPL)                                    |           |         |           |          | 1TD       |
| 410     | 259 09:01:00            | 31    | 42     | OPCH 42       |         | == TLC TEST UP-LINK ==<br>TURN COMMAND MOD OFF (IF APPL)<br>NO COMMANDING FOR 1 HR 56 MIN   |           |         |           |          | 1TD       |

INTEGRATED SEQUENCE FOR JST A021F JSX B024F WEEK 37 DOY 95-254/00:00 - 95-261/00:00

| 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 |
|---------|-------------------------|-------|--------|---------------|---------|--|-----------|---------|---------------|------------------|-----------|
| 411     | 259 09:02:00            | 31    | 42     | OPCH 42       |         | == TLC TEST UP-LINK ==<br>== TUNE U/L AT 48 HZ/SEC ==<br>== TO XA-65 KHZ (S-BAND) ==         |           |         |               |                  | 1TD       |
| 412     | 259 09:27:00            | 31    | 42     | OPCH 42       |         | == END TLC TEST UP-LINK ==<br>== TURN TRANSMITTER OFF ==<br>TUNE TO TSF @ 48 HZ/SEC (S-BAND) |           |         |               |                  | 1TD       |
| 413     | 259 10:00:00            | 31    | 42 LOS | OPCH ACE      |         | LOS DSS-42 PASS-6603   |           |         |               |                  | 1DP       |
| 414     | 259 11:30:00            | 31    | 65 AOS | OPCH ACE      |         | AOS DSS-65 PASS-6603 (D/L ONLY)  |           |         |               |                  | 1DP       |
| 415     | 259 11:33:49            | 31    | 60RISE |               |         | 10 DEGREE RISE DSC-60  |           |         |               |                  | 1V        |
| 416     | 259 11:41:01            | 31    | 40 SET |               |         | 10 DEGREE SET DSC-40   |           |         |               |                  | 1V        |
| 417     | 259 12:00:00            | 31    |        |               |         | VGR-31 OWLT IS 08H 26M 13S   |           |         |               |                  | 1L        |
| 418     | 259 12:00:00            | 32    |        |               |         | VGR-32 OWLT IS 06H 26M 33S   |           |         |               |                  | 2L        |
| 419     | 259 15:36:50            | 32    |        |               | AC7SSB  | (4 +192) SS BIAS CONTROL --- YAW   | AACS      |         | 12250:46:002F | 259 09:07:11.876 | 2ECa      |
| 420     | 259 16:51:48            | 32    | 40 SET |               |         | 10 DEGREE SET DSC-40   |           |         |               |                  | 2V        |
| 421     | 259 17:15:00            | 32    | 45 LOS | OPCH ACE      |         | LOS DSS-45 PASS-6619   |           |         |               |                  | 2DP       |
| 422     | 259 17:30:00            | 31    | 65 LOS | OPCH ACE      |         | LOS DSS-65 PASS-6603   |           |         |               |                  | 1DP       |
| 423     | 259 18:15:00            | 32    | 65 AOS | OPCH ACE      |         | AOS DSS-65 PASS-6446 (D/L ONLY)  |           |         |               |                  | 2DP       |
| 424     | 259 19:06:25            | 31    | 10RISE |               |         | 10 DEGREE RISE DSC-10  |           |         |               |                  | 1V        |
| 425     | 259 20:25:00            | 31    | 12 AOS | OPCH ACE      |         | AOS DSS-12 PASS-6604 (D/L ONLY)  |           |         |               |                  | 1DP       |
| 426     | 259 20:44:29            | 31    |        |               | AC7SSB  | (4 +138) SS BIAS CONTROL --- YAW   | AACS      |         | 18399:41:002F | 95-259/12:18:12  | 1ECa      |
| 427     | 259 21:15:00            | 32    | 65 LOS | OPCH ACE      |         | LOS DSS-65 PASS-6446   |           |         |               |                  | 2DP       |
| 428     | 259 22:42:18            | 31    | 60 SET |               |         | 10 DEGREE SET DSC-60   |           |         |               |                  | 1V        |

INTEGRATED SEQUENCE FOR JST A021F JSX B024F WEEK 37 DOY 95-254/00:00 - 95-261/00:00

| 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 |
|---------|-------------------------|-------|--------|---------------|---------|---------------------------------|-----------|---------|---------------|-----------------|-----------|
| 429     | 259 23:42:34            | 32    |        | ACE ALL       |         | END S/C-32 COMMAND MORATORIUM   |           |         |               |                 | 2T        |
| 430     | 260 00:00:00            | 31    |        |               |         | VGR-31 OWLT IS 08H 26M 18S      |           |         |               |                 | 1L        |
| 431     | 260 00:00:00            | 32    |        |               |         | VGR-32 OWLT IS 06H 26M 39S      |           |         |               |                 | 2L        |
| 432     | 260 01:34:09            | 32    | 10RISE |               |         | 10 DEGREE RISE DSC-10           |           |         |               |                 | 2V        |
| 433     | 260 02:16:01            | 32    | 40RISE |               |         | 10 DEGREE RISE DSC-40           |           |         |               |                 | 2V        |
| 434     | 260 02:18:56            | 31    |        |               |         | B- RFSTLC                       |           |         | 18406:39:001F | 95-259/17:52:35 | 1TB       |
| 435     | 260 02:19:34            | 31    | 12     | OPCH 12       |         | == START TLC TEST DOWN-LINK ==  |           |         |               |                 | 1TD       |
| 436     | 260 02:32:36            | 31    | 40RISE |               |         | 10 DEGREE RISE DSC-40           |           |         |               |                 | 1V        |
| 437     | 260 02:50:00            | 32    | 14 AOS | OPCH ACE      |         | AOS DSS-14 PASS-6620 (D/L ONLY) |           |         |               |                 | 2DP       |
| 438     | 260 03:20:34            | 31    | 12     | OPCH 12       |         | == END TLC TEST DOWN-LINK ==    |           |         |               |                 | 1TD       |
| 439     | 260 04:10:00            | 31    | 42 AOS | OPCH ACE      |         | AOS DSS-42 PASS-6604 (D/L ONLY) |           |         |               |                 | 1DP       |
| 440     | 260 04:25:00            | 31    | 12 LOS | OPCH ACE      |         | LOS DSS-12 PASS-6604            |           |         |               |                 | 1DP       |
| 441     | 260 04:35:00            | 32    | 45 AOS | OPCH ACE      |         | AOS DSS-45 PASS-6620 (D/L ONLY) |           |         |               |                 | 2DP       |
| 442     | 260 04:50:00            | 32    | 14 LOS | OPCH ACE      |         | LOS DSS-14 PASS-6620            |           |         |               |                 | 2DP       |
| 443     | 260 04:58:46            | 32    | 10 SET |               |         | 10 DEGREE SET DSC-10            |           |         |               |                 | 2V        |
| 444     | 260 06:32:18            | 31    | 10 SET |               |         | 10 DEGREE SET DSC-10            |           |         |               |                 | 1V        |
| 445     | 260 09:55:00            | 31    | 42 LOS | OPCH ACE      |         | LOS DSS-42 PASS-6604            |           |         |               |                 | 1DP       |
| 446     | 260 11:25:00            | 31    | 65 AOS | OPCH ACE      |         | AOS DSS-65 PASS-6604 (D/L ONLY) |           |         |               |                 | 1DP       |
| 447     | 260 11:29:56            | 31    | 60RISE |               |         | 10 DEGREE RISE DSC-60           |           |         |               |                 | 1V        |
| 448     | 260 11:37:08            | 31    | 40 SET |               |         | 10 DEGREE SET DSC-40            |           |         |               |                 | 1V        |

INTEGRATED SEQUENCE FOR JST A021F JSX B024F WEEK 37 DOY 95-254/00:00 - 95-261/00:00

| 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 |
|---------|-------------------------|-------|--------|---------------|---------|---------------------------------|-----------|---------|---------------|------------------|-----------|
| 449     | 260 12:00:00            | 31    |        |               |         | VGR-31 OWLT IS 08H 26M 24S      |           |         |               |                  | 1L        |
| 450     | 260 12:00:00            | 32    |        |               |         | VGR-32 OWLT IS 06H 26M 45S      |           |         |               |                  | 2L        |
| 451     | 260 12:35:59            | 32    |        |               |         | END GAIN32                      |           |         | 12276:59:584F | 260 06:06:10.774 | 2T        |
| 452     | 260 16:47:51            | 32    | 40 SET |               |         | 10 DEGREE SET DSC-40            |           |         |               |                  | 2V        |
| 453     | 260 17:10:00            | 32    | 45 LOS | OPCH ACE      |         | LOS DSS-45 PASS-6620            |           |         |               |                  | 2DP       |
| 454     | 260 18:31:51            | 31    |        |               |         | B- MISCMD                       |           |         | 18426:55:001F | 95-260/10:05:23  | 1TB       |
| 455     | 260 18:31:51            | 31    |        |               |         | MISCMD - GYRO INIT              |           |         | 18426:55:001F | 95-260/10:05:23  | 1T        |
| 456     | 260 18:31:51            | 31    |        |               | CC7GY   | (3) DRIRU INITIALIZE [P/Y/R]    | AACS      |         | 18426:55:001F | 95-260/10:05:23  | 1ECa      |
| 457     | 260 18:50:00            | 32    | 61 AOS | OPCH ACE      |         | AOS DSS-61 PASS-6446 (D/L ONLY) |           |         |               |                  | 2DP       |
| 458     | 260 19:02:32            | 31    | 10RISE |               |         | 10 DEGREE RISE DSC-10           |           |         |               |                  | 1V        |
| 459     | 260 20:30:00            | 32    | 61 LOS | OPCH ACE      |         | LOS DSS-61 PASS-6446            |           |         |               |                  | 2DP       |
| 460     | 260 22:00:00            | 31    | 12 AOS | OPCH ACE      |         | AOS DSS-12 PASS-6605 (D/L ONLY) |           |         |               |                  | 1DP       |
| 461     | 260 22:20:00            | 31    | 65 LOS | OPCH ACE      |         | LOS DSS-65 PASS-6604            |           |         |               |                  | 1DP       |
| 462     | 260 22:38:26            | 31    | 60 SET |               |         | 10 DEGREE SET DSC-60            |           |         |               |                  | 1V        |
| 463     | 261 00:00:00            | 31    |        |               |         | VGR-31 OWLT IS 08H 26M 30S      |           |         |               |                  | 1L        |
| 464     | 261 00:00:00            | 32    |        |               |         | VGR-32 OWLT IS 06H 26M 51S      |           |         |               |                  | 2L        |