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Produced by the NASA Center for Aerospace Information (CASI)
Mission Support Plan
STS-2

DRL NO. 50
MISSION SUPPORT PLAN

STS-2

CONTRACT NAS 9-15014

DRL: 50

Prepared for:

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The Mission Support Plan (MSP) contains anticipated Ground Spaceflight Tracking and Data Network (GSTDN) and Department of Defense (DOD) support and configuration requirements in support of Shuttle Operations. An MSP will be prepared for each flight. The first part of the MSP will provide the user with the information needed to understand and interpret the Site Configuration Message (SCM). Additional information is included for the user(s) who must prepare and approve the SCM's in support of flight and test and training activities.

The appendices contain preliminary SCM's for all GSTDN/DOD S-Band and UHF tracking stations with a possible orbiter viewperiod for a nominal launch and orbit profile in support of a specific flight.

SCM's included here will be updated as necessary when major flight plans and/or trajectory updates occur, with actual flight SCM's to be transmitted to the stations 2-8 hours prior to station support.
SECTION 1
INTRODUCTION

1.1 PURPOSE

The STS-2 Mission Support Plan (MSP) defines the anticipated GSTDN/DOD station support and configuration requirements for a nominal flight with an orbital inclination of 38.4 degrees and a circular orbit of 120 nautical miles for the first 5 orbits and 137 nautical miles thereafter. A complete set of preliminary SCM's define nominal station AOS/LOS times and configurations for S-Band and UHF support. This document is intended for use as a planning tool, providing the necessary guidelines and data base for SCM generation in support of STS-2.

1.2 SCOPE

This document provides nominal GSTDN/DOD station support and configuration requirements for the period from launch through landing rollout for a nominal flight.

SCM's contained in the appendices of this document do not commit JSC or GSTDN/DOD to the specific support and configurations indicated. They are intended only as a guide and will be updated as flight plans and strategies are developed.

1.3 REFERENCES

Source data used in the development of this document was obtained from the latest available issues of the documents listed below. The final version of the MSP will incorporate changes resulting from revisions or changes to this document list.

- OFT Program Requirements Document (PRD), Rev 11
- JSC-11534, Vol I, Interface Control Document (ICD)
- S-Band Operational Flight Profile, Vol II, Doc JSC-17064
- C-Band Contacts Summary Tables (MPAD)
- STS-2 Flight Data File
- JSC-12805, Flight Control Operations Handbook (FCOH)
- STDN No. 601, Network Operations Support Plan (NOSP)

1.4 DOCUMENT MAINTENANCE

This document will be updated periodically and published in final form prior to network simulations. Changes occurring thereafter will be reflected in the SCM's transmitted to the stations by high speed data line/teletype (TTY) prior to station AOS.

The Operations Planner is responsible for the development and maintenance of this document. He may be reached by phone on 525-4665 (FTS), (713) 333-8352 (commercial), or SISO mail station 7B during non-support periods. During support periods when the
Operations Planner console is staffed, he may be reached via the OPS PLANNER voice loop or telephone, number (713) 483-5624/5626, FTS 525-5624/5626.

Future iterations of this document are planned in support of scheduled STS flights. Suggestions and recommendations to improve the document in support of all users are solicited. Comments should be directed to the Ford Aerospace & Communications Corporation (FACC), Ops Planning Group/7B, P.O. Box 58487, Houston, Texas 77058.
SECTION 2
SUPPORT REQUIREMENTS

2.1 GENERAL

Groundtrack Summary Charts, which provide an overview of station coverage and major activities have been interleaved with the SCM's in the appendices. Groundtrack charts cover 4-hour periods of time beginning with launch. The SCM's associated with each groundtrack chart will be found immediately following the chart. S-Band and UHF station SCM's and charts for a nominal trajectory and mission will be found in appendix A, C-Band station charts will be found in appendix B. SCM's for contingency situations (i.e., AOA and EOM contingency landing), are contained in appendices C and D, respectively.

All S-Band SCM's and station viewperiods are shown on the groundtracks whether scheduled for support or not. Due to extensive overlapping coverage of the C-Band stations, it was not practical to display all stations with an orbiter viewperiod. Consequently, only C-Band stations scheduled for support are shown on the C-Band groundtrack.

BLT, Greenbelt, Maryland is not required to support STS-2, but will be provided with SCM's for each pass with a viewperiod. The SCM's will supply configuration data to this station for training and checkout purposes.

2.2 CONFIGURATION/SCHEDULING GUIDELINES AND CONSTRAINTS

2.2.1 S-Band Station Requirements (Refer to Figure 2-1). Figure 2-1 summarizes the support requirements levied on the S-band stations in support of STS-2. In addition, the following guidelines apply:

- All S-band stations are required to support all orbiter viewperiods except Ponce de Leon which supports launch and KSC landings, Greenbelt, Maryland, which is not required for STS-2 support, Vandenberg and Point Pillar California which supports landing and landing phase contingencies for Edwards or Northrup Strip.

- All S-band stations supporting launch, orbit, reentry and landing phases will have a digital voice capability.

- Stations providing reentry support will be called up in the Launch Terminal Count to confirm abort mode readiness.

- Voice uplink transmissions will be inhibited at the station during crew sleep periods. Stations personnel will monitor for D/L voice transmissions.

- Teleprinter configurations will be voiced out to the ground station by MCC Comm Tech. At completion of teleprinter operations, MCC Comm Tech will reconfigure ground station by voice for nominal operations. If advance notice is known at JSC, the Teleprinter information will be included in the affected stations SCM. S-Band stations called for support of Teleprinter operation will configure A/G 2 (Voice 2) in constant key for the duration of the teleprinter uplink.

2-1
2.2.2 Antenna Selection. S-band stations with multiple antennas will normally provide support with the antenna specified in the SCM. Specific antenna are required in the following cases:

- MLXS (E-W keyhole) at Merritt Island is prime for launch.
- MAD, 30-foot antenna with N/S keyhole is prime for orbit support.
- GDS, 30-foot antenna with N/S keyhole, is prime for EAFB landings and nominal orbit support. GDX 85-foot antenna prime for AOA landing EAFB.
- QUI dual 14-foot antenna is required for uplink support and downlink ranging, the 40-foot antenna is required for downlink voice and telemetry support.
- MAD and GDS 85-foot antennas will only be used for launch/landing support as required or in the event of 30-foot antenna failure.

2.2.3 Assumptions/Ground Rules

- MIL launch support is desired vice PDL because of S-Band metric data capabilities. Brief handovers are planned to minimize plume effect on RF link.
- GBI S-Band station will only be used for launch telemetry support.
- During the reentry phase, a handover from BUC to GDS is currently planned. This will be accomplished as soon as GDS clears masking so as to obtain S-band metric data. A handover back to BUC will also be accomplished just prior to GDS LOS.
- Voice configurations will be designated on the SCM as "ALPHA, BRAVO, CHARLIE, etc" per the NOSP Air-Ground Configurations.

2.2.4 C-Band Station Support Requirements. Figure 2-2 summarizes the support requirements levied on the C-band stations in support of STS-2. In addition, the following guidelines apply.

- C-Band passes will be scheduled to augment the S-Band ephemeris solution.
- Stations should be selected to provide a sufficient number of acceptable passes in a 24-hour period. Stations providing overlapping coverage will normally not be scheduled for support.
- ON-ORBIT
  - NASA radars, BDA and WLP will be used for all passes that meet the minimum elevation requirements.
  - ASC is required for all passes that meet the minimum elevation requirements.
  - No station with a max elevation of less than 5 degrees is required if another station in the same geographical location has a higher elevation pass.
  - No station with a max elevation pass of less than 3° will be required to support.
<table>
<thead>
<tr>
<th>LOCATION</th>
<th>CANCUN</th>
<th>CNOE</th>
<th>CNOE</th>
<th>MLAC</th>
<th>MLAC</th>
<th>MLA</th>
<th>MLA</th>
<th>ASCC</th>
<th>ASTC</th>
<th>BBAC</th>
<th>ANTC</th>
<th>GTHC</th>
<th>GTHC</th>
<th>KMTC</th>
<th>KMTC</th>
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<tr>
<td>SITE ACRONYM</td>
<td>CNVC</td>
<td>CNOC</td>
<td>CNOC</td>
<td>MLC</td>
<td>MLC</td>
<td>PAF</td>
<td>PAF</td>
<td>WTLC</td>
<td>WTLC</td>
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</tr>
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<tr>
<td>ADA SAMPLE RATE</td>
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NOTES:

1. ADA AND 2 OF 3 WLP'S RADARS REQUIRED BY RANGE SAFETY
2. HIGH SAMPLE RATE 10 SEC
3. LOW SAMPLE RATE 1-6 SEC
4. ORDER OF PREFERENCE
5. BOTH FPS-16S REQUIRED FOR BACKUP
6. REDUNDANT VIEW PERIODS WILL NOT BE SCHEDULED
7. SCHEDULE AS MANY PASSES AS PRACTICAL EACH 24 HR PERIOD WITHOUT REDUNDANT STATIONS
8. ALL APPROACH AZIMUTHS TO EAFB WITH AT LEAST 3° MAX EL
9. ALL APPROACH AZIMUTHS TO EAFB, IF AVAILABLE
10. 2 OF 3 RADARS (DFRC AND EAFB) REQUIRED FOR ALL EAFB LANDINGS
11. ASCENT ADA, LANDING ADA, CONTINGENCY DEORBIT AND NOMINAL END OF MISSION REQUIRE HIGH SAMPLE RATE 10 SEC DATA
12. KSC LANDING SUPPORT
13. HAWAII CONTINGENCY LANDING
14. HSR REQUIRED ONLY DURING STDRN CONTINGENCY MODE SUPPORT
15. ORBIT 2 ATO SUPPORT

FIG. 2.2 C-BAND STATION SUPPORT
KMTC

KMRC

TPQ-18 ALCOR

PRI
L

BU
L

KPTC

SNIC

SNFC

SNSC

FPS-16 FPS-16 FPS-16
FPQ-14 SN-7
SN-13 SN-15

PTTC

VD8C

VDSC

VDFC

FRCC

EAFC

EFFC

FTHC

HOLC

MTLC

FPS-16 FPS-16
FPS-16
FPS-16 FPS-16
FPS-16 R-123 CAM
FPQ-6 FPS 16 7pQ_lg SN-21 SN-18 FPS-16 R-38
R-41

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ONE OF THREE
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FPS-16 FPS-16
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2-4


2.2.5 **UHF only Station Support Requirements.** The following stations are required for UHF voice support during STS-2.

<table>
<thead>
<tr>
<th>Call Sign</th>
<th>Acronym</th>
<th>SCM TTY Router</th>
</tr>
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<tbody>
<tr>
<td>DAKAR</td>
<td>DKR</td>
<td>GDKR</td>
</tr>
<tr>
<td>BOTSWANA</td>
<td>BOT</td>
<td>GBOT</td>
</tr>
<tr>
<td>YARGARADEE</td>
<td>YAR</td>
<td>GYAR</td>
</tr>
</tbody>
</table>

The above stations will be required during the entire flight for all passes that break the horizon. A general purpose SCM (message type 231) will be transmitted for each pass and will include the following items (Refer to figure 3-2): 1,2,3,4,5,6,7,8,18,19,20.

When one UHF station overlaps another station with UHF capabilities, a UHF handover time will be specified on both SCM's.
SECTION 3
SCM STRUCTURE AND FORMAT

3.1 GENERAL

Information required by the message addressee to support the orbiter will be provided in the Site Configuration Messages (SCM's). These messages, GSTDN for S-band stations, and General Purpose for UHF stations and continuation messages, will be formatted in 4800-bit blocks for transmission to GSFC by HSDL and to the station by TTY. Figures 3-1 and 3-2 illustrate the format of these messages. Numbers in parentheses refer to the following notes defining data content.

1. SCM reference number.
2. JSC station routing indicator from table 3-1. Reference paragraph 3.2 for use of multiple routing indicators.
3. Vehicle identification code (05 = Shuttle High freq uplink, 08 = Shuttle Low freq uplink).
5. Orbit number.
6. Day of year.
7. Predicted acquisition of signal from Predicted Site Acquisition Table (PSAT).
8. Predicted loss of signal (from PSAT).
9. Link frequency (MHz).
10. Support modes.
   (10A) Support mode as defined in table 3-1
   (10B) Support mode as defined in table 3-2
   (10C) Support mode "M" requires the station to monitor and record DFI data in real time for post-flight shipment. Table 3-3 identifies DFI downlink characteristics by channel number, and is included for reference purposes.
   (10D) Support mode as defined in table 3-4.
11. Number(s) referencing applicable note in Notes Section of SCM.
12. Note 1 is reserved for carrier on/off or handover times if applicable. If time is not specified, this note will indicate N-A.
13. Note 2 will always contain maximum antenna elevation of pass, and keyhole/masking information if applicable.
 Commentary concerning a vehicle, system, A/G configuration, and/or special support requirements, as necessary.

Continuation of NOTE commentary from previous page. (S-BAND and UHF support).

3.2 ROUTING

SCM's will be transmitted to GSFC/NOCC in 4800-bit blocks for subsequent transmission to the addressee (see figure 3-3). Message routing shall be determined by reading the user destination code in the HSDB header. The user destination code in the HSDB header is obtained from the JSC station acronym supplied in the first line of the SCM. Table 3-5 provides the JSC acronyms that will be used on the SCM for message routing. The "S" or "U" suffix on the JSC acronym designates an S-band or UHF station. Table 3-6 provides a summary of Network and User Header Codes used in the HSDB for outgoing SCM data.

The first routing indicator, if more than one is specified, will designate the station to be configured. Additional routing indicators, if used, will designate additional stations/centers required to support the requested configuration. GSFC is currently unable to process multiple routing indicators.

3.3 FORMATTING

SCM's will be packed in the data field of the 4800-bit blocks and coded in ASCII. The 4626-bit data field is the maximum number of data bits allowed in one 4800-bit block. This limitation constrains the SCM to a maximum of 40 characters per line, including appropriate TTY machine characters at the end of each line, and a maximum of 16 lines.

3.4 SCM NUMBERING SCHEME

An SCM will be prepared for each S-Band and UHF station with an orbiter viewperiod as shown on the Operational Flight Profile obtained from MPAD (Mission Planning and Analysis Division), and numbered sequentially with a five-character alphanumeric identifier. The first character will be a "S" or "U" to identify the type station the SCM is intended for. The next three characters are sequential numbers ranging from 001-999. 001 will be the first number used for both S-Band and UHF stations. The last character will be an alpha suffix. Alpha character "A" will identify the original SCM. Alpha characters B, C, D, etc., will be used to identify updates to the original SCM. All continuation messages, page 2, will be assigned the same number as page 1.

In the event the trajectory changes sufficiently such that a station is scheduled which previously did not have a viewperiod, the next consecutive unused number will be assigned, beginning with the last SCM in the MSP.

(Text continued on page 3-16.)
<table>
<thead>
<tr>
<th>JSG</th>
<th>JSC SCM S (1)</th>
<th>(2)</th>
<th>(3)</th>
<th>(4)</th>
<th>ORB (5)</th>
<th>DAY (6)</th>
<th>AOS (7:</th>
<th>LOS (8:</th>
</tr>
</thead>
<tbody>
<tr>
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<td></td>
</tr>
<tr>
<td>VEH</td>
<td>LINK</td>
<td>FREQ</td>
<td>M</td>
<td>REMARKS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SSO</td>
<td>PM UL (9)</td>
<td>(10A)</td>
<td>(11)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SSO</td>
<td>OB DL</td>
<td>(10B)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SSO</td>
<td>DF DL</td>
<td>(10C)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SSO</td>
<td>FM DL</td>
<td>(10D)</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>NOTES</td>
<td></td>
<td></td>
<td></td>
<td>NONE (12)</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
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<td></td>
<td></td>
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<td></td>
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</tr>
</tbody>
</table>

Figure 3-1. STDN SCM Format (Message Type 232) S-Band
Figure 3-2. General Purpose SCM Format (Message Type 231) Continuation and UHF Support
<table>
<thead>
<tr>
<th>GSTDN Mode</th>
<th>Function</th>
<th>Modulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>No carrier</td>
<td>N/A</td>
</tr>
<tr>
<td>000</td>
<td>Carrier only</td>
<td>None</td>
</tr>
<tr>
<td>24L</td>
<td>32 kb/s (1 voice @ 24 Kb/s and 1 command @ 8 kb/s)</td>
<td>PSK</td>
</tr>
<tr>
<td>24H</td>
<td>72 Kb/s (2 voice @ 32 Kb/s and 1 command @ 8 kb/s)</td>
<td>PSK</td>
</tr>
<tr>
<td>25L</td>
<td>32 kb/s (1 voice @ 24 Kb/s and 1 command @ 8 kb/s + Tone Ranging)</td>
<td>PM</td>
</tr>
<tr>
<td>25H</td>
<td>72 kb/s (2 voice @ 32 kb/s each and 1 command @ 8 kb/s + Tone Ranging)</td>
<td>PM</td>
</tr>
<tr>
<td>25S</td>
<td>72 kb/s (2 voice @ 32 Kb/s each and 1 command @ 8 kb/s + Tone Ranging), SNOM (Shuttle Noise Mode), MIL, PDL, BDA; Launch Phase only</td>
<td>PM</td>
</tr>
</tbody>
</table>
Table 3-2
S-Band PM Downlink Modes (GSTDN)
SSO-to-GSTDN

<table>
<thead>
<tr>
<th>Mode</th>
<th>Function</th>
<th>Modulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>00</td>
<td>No carrier</td>
<td>N/A</td>
</tr>
<tr>
<td>01</td>
<td>Carrier only</td>
<td>None</td>
</tr>
<tr>
<td>02</td>
<td>96 kb/s (1 voice @ 32 kb/s and 1 telemetry @ 64 kb/s)</td>
<td>PM</td>
</tr>
<tr>
<td>03</td>
<td>192 kb/s (2 voice @ 32 kb/s each and 1 telemetry @ 128 kb/s)</td>
<td>PM</td>
</tr>
<tr>
<td>04</td>
<td>96 kb/s (1 voice @ 32 kb/s and 1 telemetry @ 64 kb/s + Ranging)</td>
<td>PM</td>
</tr>
<tr>
<td>05</td>
<td>192 kb/s (2 voice @ 32 kb/s each and 1 telemetry @ 128 kb/s + Ranging)</td>
<td>PM</td>
</tr>
</tbody>
</table>
Table 3-3

S-Band DFI (FM) Downlink Characteristics

<table>
<thead>
<tr>
<th>Chan No.</th>
<th>Signal Format</th>
<th>Bandwidth or Bit Rate</th>
<th>Frequency</th>
<th>Modulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Analog</td>
<td>500 Hz</td>
<td>12 kHz</td>
<td>FM</td>
</tr>
<tr>
<td>2</td>
<td>Analog</td>
<td>500 Hz</td>
<td>16 kHz</td>
<td>FM</td>
</tr>
<tr>
<td>3</td>
<td>Analog</td>
<td>500 Hz</td>
<td>20 kHz</td>
<td>FM</td>
</tr>
<tr>
<td>4</td>
<td>Analog</td>
<td>500 Hz</td>
<td>24 kHz</td>
<td>FM</td>
</tr>
<tr>
<td>5</td>
<td>Analog</td>
<td>500 Hz</td>
<td>28 kHz</td>
<td>FM</td>
</tr>
<tr>
<td>6</td>
<td>Analog</td>
<td>500 Hz</td>
<td>32 kHz</td>
<td>FM</td>
</tr>
<tr>
<td>7</td>
<td>Analog</td>
<td>500 Hz</td>
<td>36 kHz</td>
<td>FM</td>
</tr>
<tr>
<td>8</td>
<td>Analog</td>
<td>2 kHz</td>
<td>48 kHz</td>
<td>FM</td>
</tr>
<tr>
<td>9</td>
<td>Analog</td>
<td>2 kHz</td>
<td>64 kHz</td>
<td>FM</td>
</tr>
<tr>
<td>10</td>
<td>Analog</td>
<td>2 kHz</td>
<td>80 kHz</td>
<td>FM</td>
</tr>
<tr>
<td>11</td>
<td>Analog</td>
<td>2 kHz</td>
<td>96 kHz</td>
<td>FM</td>
</tr>
<tr>
<td>12</td>
<td>Analog</td>
<td>2 kHz</td>
<td>112 kHz</td>
<td>FM</td>
</tr>
<tr>
<td>13</td>
<td>Analog</td>
<td>2 kHz</td>
<td>128 kHz</td>
<td>FM</td>
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<tr>
<td>14</td>
<td>Analog</td>
<td>2 kHz</td>
<td>144 kHz</td>
<td>FM</td>
</tr>
<tr>
<td>15</td>
<td>Bi-6-L</td>
<td>12 kbps</td>
<td>184 kHz</td>
<td>FM</td>
</tr>
<tr>
<td>PCM</td>
<td>Bi-6-L</td>
<td>128 kbps</td>
<td>1.024 MHz</td>
<td>PSK</td>
</tr>
<tr>
<td>Mode</td>
<td>Function</td>
<td>Dump Rate</td>
<td>Forward/Reverse</td>
<td>Modulation</td>
</tr>
<tr>
<td>------</td>
<td>----------</td>
<td>-----------</td>
<td>-----------------</td>
<td>------------</td>
</tr>
<tr>
<td>00</td>
<td>No carrier</td>
<td></td>
<td></td>
<td>N/A</td>
</tr>
<tr>
<td>01</td>
<td>Carrier only</td>
<td></td>
<td></td>
<td>None</td>
</tr>
<tr>
<td>02</td>
<td>P/B 192 kb/s (PCM/TLM @1:1)</td>
<td>192 kb/s</td>
<td>F</td>
<td>FM</td>
</tr>
<tr>
<td>03</td>
<td>P/B 192 kb/s (PCM/TLM @5:1)</td>
<td>960 kb/s</td>
<td>F</td>
<td>FM</td>
</tr>
<tr>
<td>04</td>
<td>P/B 128 kb/s (PCM/TLM @1:1)</td>
<td>128 kb/s</td>
<td>F</td>
<td>FM</td>
</tr>
<tr>
<td>05</td>
<td>P/B 128 kb/s (PCM/TLM @8:1)</td>
<td>1024 kb/s</td>
<td>F</td>
<td>FM</td>
</tr>
<tr>
<td>06</td>
<td>P/B 60 kb/s (SSME data @1:1)</td>
<td>60 kb/s</td>
<td>F</td>
<td>FM</td>
</tr>
<tr>
<td>07</td>
<td>P/B 60 kb/s (SSME data @16:1)</td>
<td>960 kb/s</td>
<td>F</td>
<td>FM</td>
</tr>
<tr>
<td>08</td>
<td>(Unassigned)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>09</td>
<td>(Unassigned)</td>
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<tr>
<td>10</td>
<td>(Unassigned)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>(Unassigned)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>P/B 192 kb/s (PCM/TLM @1:1)</td>
<td>192 kb/s</td>
<td>R</td>
<td>FM</td>
</tr>
<tr>
<td>13</td>
<td>P/B 192 kb/s (PCM/TLM @5:1)</td>
<td>960 kb/s</td>
<td>R</td>
<td>FM</td>
</tr>
<tr>
<td>14</td>
<td>P/B 128 kb/s (PCM/TLM @1:1)</td>
<td>128 kb/s</td>
<td>R</td>
<td>FM</td>
</tr>
<tr>
<td>15</td>
<td>P/B 128 kb/s (PCM/TLM @8:1)</td>
<td>1024 kb/s</td>
<td>R</td>
<td>FM</td>
</tr>
<tr>
<td>16</td>
<td>P/B 60 kb/s (SSME data @1:1)</td>
<td>60 kb/s</td>
<td>R</td>
<td>FM</td>
</tr>
<tr>
<td>17</td>
<td>P/B 60 kb/s (SSME data @16:1)</td>
<td>960 kb/s</td>
<td>R</td>
<td>FM</td>
</tr>
<tr>
<td>18</td>
<td>(Unassigned)</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>19</td>
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<td>20</td>
<td>(Unassigned)</td>
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<td></td>
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</tr>
<tr>
<td>21</td>
<td>(Unassigned)</td>
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<td></td>
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</tr>
<tr>
<td>22</td>
<td>P/T SSME data (3 SCO's: 476 KHz, 768 KHz, and 1,024 KHz - 60 kb/s each)</td>
<td></td>
<td></td>
<td>FM</td>
</tr>
<tr>
<td>23</td>
<td>Television</td>
<td></td>
<td></td>
<td>FM</td>
</tr>
<tr>
<td>24</td>
<td>Payload (Analog)</td>
<td></td>
<td></td>
<td>FM</td>
</tr>
<tr>
<td>25A</td>
<td>Payload (Digital) OSTA-1</td>
<td>970.1 kb/s</td>
<td>R</td>
<td>FM</td>
</tr>
<tr>
<td>25B</td>
<td>Payload (Digital) OSTA-1</td>
<td>720.0 kb/s</td>
<td>R</td>
<td>FM</td>
</tr>
<tr>
<td>26</td>
<td>DOD Narrow Band</td>
<td></td>
<td></td>
<td>FM</td>
</tr>
</tbody>
</table>
NOTES:

1. All SCM input JSC's leave JSC's with a Network Destination Code of 273 (NOCC) in word 5 and a User Destination Code in word 10 of the HSDB Header.

2. The Message Switch reads the Network Header word 5 and routes the SCM HSDB to the NOCC.

3. The NOCC reads the User Destination Code word 10 and retransmits the data content to the appropriate station via the NASCOM TTY Switch.

4. All SCM's will be automatically routed directly to the NASCOM TTY station terminal.
<table>
<thead>
<tr>
<th>Acronyms</th>
<th>Description</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIL-3</td>
<td>S-Band, 30 FT, X/Y, N/S</td>
<td>Merritt Island, FL</td>
</tr>
<tr>
<td>MIL-A</td>
<td>S-Band, 30 FT, X/Y, E/W</td>
<td>Merritt Island, FL</td>
</tr>
<tr>
<td>BLT-A</td>
<td>S-Band, 30 FT, X/Y, E/W</td>
<td>Greenbelt, MD.</td>
</tr>
<tr>
<td>BLT-3</td>
<td>S-Band, 30 FT, X/Y, N/S</td>
<td>Greenbelt, MD.</td>
</tr>
<tr>
<td>BDA-3</td>
<td>S-Band, 30 FT, X/Y, N/S</td>
<td>Bermuda Island</td>
</tr>
<tr>
<td>MAD-8</td>
<td>S-Band, 85 FT, X/Y, E/W</td>
<td>Madrid, Spain</td>
</tr>
<tr>
<td>MAD-3</td>
<td>S-Band, 30 FT, X/Y, N/S</td>
<td>Madrid, Spain</td>
</tr>
<tr>
<td>AGO-3</td>
<td>S-Band, 30 FT, X/Y, N/S</td>
<td>Santiago, Chile</td>
</tr>
<tr>
<td>ACN-3</td>
<td>S-Band, 30 FT, X/Y, N/S</td>
<td>Ascension Island</td>
</tr>
<tr>
<td>GWM-3</td>
<td>S-Band, 30 FT, X/Y, N/S</td>
<td>Guam Island</td>
</tr>
<tr>
<td>GDS-3</td>
<td>S-Band, 30 FT, X/Y, N/S</td>
<td>Goldstone, CA</td>
</tr>
<tr>
<td>GDS-8</td>
<td>S-Band, 85 FT, X/Y, E/W</td>
<td>Goldstone, CA</td>
</tr>
<tr>
<td>HAW-3</td>
<td>S-Band, 30 FT, X/Y, N/S</td>
<td>Kauai, Hawaii</td>
</tr>
<tr>
<td>ORR-3</td>
<td>S-Band, 30 FT, X/Y, N/S</td>
<td>Orroral, Australia</td>
</tr>
<tr>
<td>QUI-S</td>
<td>S-Band, 40 FT, X/Y, N/A</td>
<td>Quito, Ecuador</td>
</tr>
<tr>
<td>SEY-S</td>
<td>S-Band, 60 FT, AZ-FL</td>
<td>Mahe, Seychelles</td>
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<td>Not Used</td>
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</tr>
<tr>
<td>PDLS</td>
<td>S-Band, 14 FT, AZ/EL</td>
<td>Ponce Del Leon, FLA</td>
</tr>
<tr>
<td>BUC-S</td>
<td>S-Band, 14 FT, AZ/EL</td>
<td>Buckhorn</td>
</tr>
<tr>
<td>BU2-S</td>
<td>S-Band, 14 FT, AZ/EL</td>
<td>Buckhorn</td>
</tr>
<tr>
<td>PPF-Y</td>
<td>S-Band, 40 FT, AZ/EL</td>
<td>Point Pillar, CA</td>
</tr>
<tr>
<td>TULS</td>
<td>S-Band, 14 FT, AZ/EL</td>
<td>White Sands, N.M.</td>
</tr>
<tr>
<td>CAL-Y</td>
<td>S-Band, 30 FT, AZ/EL</td>
<td>Vandenburg AFB, CA</td>
</tr>
<tr>
<td>ALA-Y</td>
<td>(C-Band ACQ Aid only)</td>
<td>Alamo Peak, N.M.</td>
</tr>
<tr>
<td>Acronyms</td>
<td>Description</td>
<td>Location</td>
</tr>
<tr>
<td>----------</td>
<td>-------------</td>
<td>----------</td>
</tr>
<tr>
<td>BOTZ</td>
<td>UHF Voice</td>
<td>Botswana, Africa</td>
</tr>
<tr>
<td>DAKZ</td>
<td>UHF Voice</td>
<td>Dakar (Senegal), Africa</td>
</tr>
<tr>
<td>YARZ</td>
<td>UHF Voice</td>
<td>Yargaradee, Australia</td>
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</table>

**C-Band Trackers**

<table>
<thead>
<tr>
<th>Acronyms</th>
<th>Description</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT-Q</td>
<td>C-Band, FPQ-14</td>
<td>Antigua Island</td>
</tr>
<tr>
<td>MLA-Q</td>
<td>C-Band, FPQ-14</td>
<td>Merritt Island, FL</td>
</tr>
<tr>
<td>KPT-Q</td>
<td>C-Band, FPQ-14</td>
<td>Kaena Point, Hawaii</td>
</tr>
<tr>
<td>GTK-Q</td>
<td>C-Band, FPQ-14</td>
<td>Grand Turk Island</td>
</tr>
<tr>
<td>AS2-Q</td>
<td>C-Band, TPQ-18</td>
<td>Ascension Island</td>
</tr>
<tr>
<td>ASC-Q</td>
<td>C-Band, FPQ-15</td>
<td>Ascension Island</td>
</tr>
<tr>
<td>GBI-Q</td>
<td>C-Band, FPQ-13</td>
<td>Grand Bahama Island</td>
</tr>
<tr>
<td>KMR-Q</td>
<td>C-Band, ALCOR</td>
<td>Kwajalein Island</td>
</tr>
<tr>
<td>KMR-T</td>
<td>C-Band, TPQ-18</td>
<td>Kwajalein Island</td>
</tr>
<tr>
<td>BDA-Q</td>
<td>C-Band, FPQ-6</td>
<td>Bermuda Island</td>
</tr>
<tr>
<td>CAL-Q</td>
<td>C-Band, FPQ-6</td>
<td>Point Pillar, CA</td>
</tr>
<tr>
<td>CAL-T</td>
<td>C-Band, TPQ-18</td>
<td>Vandenberg AFB</td>
</tr>
<tr>
<td>CAL-F</td>
<td>C-Band, FPS-16 (S/N 21)</td>
<td>Vandenberg AFB</td>
</tr>
<tr>
<td>CA2-F</td>
<td>C-Band, FPS-16 (S/N 18)</td>
<td>Vandenberg AFB</td>
</tr>
<tr>
<td>SN1-F</td>
<td>C-Band, FPS-16 (S/N 7)</td>
<td>San Nicholas Island</td>
</tr>
<tr>
<td>SN2-F</td>
<td>C-Band, FPS-16 (S/N 13)</td>
<td>San Nicholas Island</td>
</tr>
<tr>
<td>SN3-F</td>
<td>C-Band, FPS-16 (S/N 15)</td>
<td>San Nicholas Island</td>
</tr>
<tr>
<td>FRC-F</td>
<td>C-Band, FPS-16</td>
<td>DFRC</td>
</tr>
<tr>
<td>PAT-Q</td>
<td>C-Band, FPQ-14</td>
<td>Patrick AFB</td>
</tr>
<tr>
<td>PA2-Q</td>
<td>C-Band, FPQ-13</td>
<td>Patrick AFB</td>
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<td>C-Band, FPS-16 Airport</td>
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Table 3-5 (Continued)

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<th>Message Type (Octal)</th>
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<td>273</td>
<td>10101</td>
<td>232/231</td>
<td>001</td>
<td>GMIL</td>
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Table 3-6
Network and User Header: Codes Summarized
For Outgoing SCM Data

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<td>CNVF CNVC</td>
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</tr>
<tr>
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<td>PA2Q PAFC</td>
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</tr>
<tr>
<td></td>
<td>GBIQ GBIC</td>
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<td>GTKQ GTKC</td>
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</tr>
<tr>
<td></td>
<td>WLPF WLIC</td>
<td></td>
</tr>
<tr>
<td></td>
<td>WL2F WLRC</td>
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<td>AS2Q ASTC</td>
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<td></td>
<td>CALF VDSC</td>
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<td>BOTZ BOTU</td>
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<td>Destination (Octal)</td>
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<td>JSC</td>
<td>Source (Octal)</td>
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<td>SNIC</td>
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<td>SNFC</td>
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<td>FTHC</td>
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<td>WSSC</td>
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<td>FT2-F</td>
<td>SPKC</td>
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</tr>
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<td>WH9-F</td>
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</tr>
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<tr>
<td>AFTC</td>
<td>AFFC</td>
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</tbody>
</table>

3-15
3.5 RISE AND SET TIMES

AOS/LOS times listed on the SCM's, have taken into account expected terrain masking and antenna keyhole effects.

3.6 MODE DEFINITIONS

Station configurations required to support flight operations activities are defined on the SCM's as MODES. For a definition of the codes used for PM/UL, OD/DL, DF/DL and FM/DL modes refer to tables 3-1 and 3-4.

The DFI configuration remains constant and is defined in the NOSP. The letter "M" in the MODE column of the SCM indicates the station will monitor and record the DFI data in real time for post-flight shipment.

S-Band stations whose coverage is totally overlapped by a 2-way station may not have an uplink requirement, but will configure to track the downlink, and provide backup uplink support. These stations will be identified on the SCM with a OFF PM uplink mode.

3.7 FREQUENCY UTILIZATION

S-Band and UHF usage can be found in tables 3-7 and 3-8, respectively.

3.8 REMARKS/NOTES

The REMARKS column of the SCM will contain a number referencing a NOTE. Notes will be used to further define support requirements; i.e., handover times, carrier on/off times, sleep period configuration, tracking data rates, etc. Note 1 will always contain carrier on-off time, or handover time, or if neither of these are applicable, the word N/A. Note 2 will always contain the maximum elevation angle of the antenna, along with any other pertinent comments concerning the antenna pattern.

3.8.1 S-Band & UHF Handover /Carrier On-Off Times. Handover time will be specified on the SCM if two or more stations have an overlapping viewperiod. If the viewperiods do not overlap, but are separated by less than 4 minutes carrier on-off times will be specified. In either case, a time normally midway between the overlapping viewperiods for handover, or between the viewperiods for carrier on-off will be selected unless the time selected in this manner interferes with operations activities.

3.8.2 Tracking Data Rates. Low speed sample rate is assumed unless otherwise specified.

3.8.3 Crew Sleep Periods. Crew sleep periods will be specified on the S-band SCM's. When sleep period configuration is specified, the station will change the site configuration to inhibit the Quindar keying on uplink.
# Table 3-7

## S-Band Frequency Utilization

<table>
<thead>
<tr>
<th>From</th>
<th>To</th>
<th>Frequency Prime</th>
<th>Secondary</th>
<th>Modulation</th>
<th>Purpose</th>
<th>Remarks</th>
</tr>
</thead>
</table>
| GSTDN     | SSO     | 2106.4063       | 2041.9479 | PM/PSK     | S-Band Direct Uplink     | HDR @ 72 kb/s:  
- 2 voice @ 32 kb/s each  
- 1 CMD @ 8 kb/s  
LDR @ 32 kb/s:  
- 1 voice @ 24 kb/s  
- 1 CMD @ 8 kb/s  
Ranging:  
- Composite signal on 1.7 MHz subcarrier |
| SCF       | SSO     | 1831.787        | 1775.733  | PM/PSK     | S-Band Direct Uplink (IOS) | HDR @ 72 kb/s:  
- 2 voice @ 32 kb/s each  
- 1 CMD @ 8 kb/s  
LDR @ 32 kb/s:  
- 1 voice @ 24 kb/s  
- 1 CMD @ 8 kb/s  |
| SSO       | GSTDN   | Coherent X Received 2287.5 | 240/221 Freq 2217.5 | PM          | S-Band Direct Downlink  | HDR @ 192 kb/s:  
- 2 voice @ 32 kb/s each  
- 1 TLM @ 128 kb/s  
LDR @ 96 kb/s:  
- 1 voice @ 32 kb/s  
- 1 TLM @ 64 kb/s  
Ranging:  
- Turned around composite signal on 1.7 MHz subcarrier |
| SSO       | SCF     | Coherent X Received 2287.5 | 256/205 Freq 2217.5 | PM          | S-Band Direct Downlink (IOS) | HDR @ 192 kb/s:  
- 2 voice @ 32 kb/s each  
- 1 TLM @ 128 kb/s  
LDR @ 96 kb/s:  
- 1 voice @ 32 kb/s  
- 1 TLM @ 64 kb/s  |
<table>
<thead>
<tr>
<th>To</th>
<th>From</th>
<th>Frequency</th>
<th>Secondary Modulation</th>
<th>Purpose</th>
<th>Remarks</th>
</tr>
</thead>
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<td>SSO</td>
<td>2250.0</td>
<td>--</td>
<td>F.M</td>
<td>R/T Main Eng. data - 3 streams @ 60 kb/s each R/T television</td>
</tr>
<tr>
<td>SCF</td>
<td></td>
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</tr>
</tbody>
</table>

**OD:**
- 60 kb/sec.
- 1:1 @ 60 kb/sec.
- 1.1:1 @ 600 kb/sec.
- 1:1 @ 628 kb/sec.
- 1:1 @ 128 kb/sec.
- 1:1 @ 1024 kb/sec.
- 1:1 @ 256 kb/sec.
- 1:1 @ 512 kb/sec.
- 1:1 @ 1024 kb/sec.

**TDM:**
- 192 kb/sec.
- Voice and TLM
- 1.1:1 @ 192 kb/sec.
- 5:1 @ 960 kb/sec.

**PAYLOAD:**
- OSTA-1 970.1 kb/sec.
- 720.0 kb/sec.

**DFI Link used for:**
- R/T 1/28 k/s DFI PCM plus 15 subcarrier channels.

S-Band DFI

S-Band Downlink

Table 3-7 (Continued)
Table 3-8
UHF Frequency Utilization

<table>
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<th>Freq</th>
<th>Emission Charact</th>
<th>Purpose</th>
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<tr>
<td>296.8 MHz</td>
<td>AM</td>
<td>Air-to-ground and SSC/EVA Voice</td>
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<td>259.7 MHz</td>
<td>AM</td>
<td>Air-to-ground and SSO/EVA voice</td>
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<td>243.0 MHz</td>
<td>AM</td>
<td>Air-to-ground ATC voice</td>
</tr>
<tr>
<td>279.0 MHz</td>
<td>AM/FM</td>
<td>EVA-2 to EVA-1</td>
</tr>
</tbody>
</table>
3.8.4 SSME Real-Time or Dump Data Recording Requirements. Any real-time or dump SSME data downlinked via the orbiter S-Band FM link and received at a GSTDN/DOD station will be recorded at the receiving station. A NOTE will be included on the SCM to cue the station to special data handling requirements.

3.8.5 Acquisition Data Sets. Acquisition data sets numbers for Orbit 1 will be voiced by JSC/TRACK to MAD, ORR, and IOS. An updated SCM will be transmitted to these stations, with a comment in the NOTES to confirm the voice transmission.

3.8.6 Communications Air-to-Ground Voice. UHF/S-Band A/G communications configurations will be specified by SCM for all mission phases per NOSP procedures.

3.9 GROUNDTRACK CHARTS

The Groundtrack/Activity charts provide a pictorial overview of the available/scheduled tracking coverage. They show the station viewperiod, maximum antenna elevation angle, periods of darkness for the Shuttle, orbit no., and the acronym of the station providing coverage. The orbit number is incremented each time the ascending node of the ground track crosses the equatorial plane. In addition, major milestones and operations activities are noted, and on the S-band charts, handover/carrier on-off times have been included. The charts cover a 4-hour period of time and have been interleaved with the S-Band SCM’s on 8-hour centers.

3.10 CONTINGENCY PLAN

In the event of a non-nominal mission, the Ops Planner will notify the affected stations of any required configuration changes in real time via voice lines. An SCM update will follow if necessary.

3.11 SCM PROCESSING CONSTRAINTS

a. Only one SCM continuation page can be used for each SCM.

b. The continuation page must be sent within 5 minutes of the first page.

c. GSFC is limited to a throughput rate of 1 SCM per 10 seconds.
<table>
<thead>
<tr>
<th>ORBIT STATIONS</th>
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<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
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**LEGEND:**

- X = ≥ 5° PASS, SCHEDULED
- o = ≥ 5° PASS, NOT SCHEDULED
### TABLE 3-9 (Continued)

**C-BAND SUPPORT MATRIX**

| ORBIT STATIONS | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 |
|----------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| MLAC           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| PATC           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| GBIC           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| GTKC           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| WLPC           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| BDQC           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| ANTC           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| ASCC           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| ASTC           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| KMRC           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| KMTC           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| KPTC           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| VDBC           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| PTPC           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| WSMR           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| MTLC           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| SPKC           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

**LEGEND:**

- **X** = \( \geq 30^\circ \) PASS, SCHEDULED
- **o** = \( \geq 30^\circ \) PASS, NOT SCHEDULED
### TABLE 3-9 (Continued)

**C-BAND SUPPORT MATRIX**

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#### LEGEND:

- **X** = ≥ 5° PASS, SCHEDULED
- **O** = ≥ 5° PASS, NOT SCHEDULED
### TABLE 3-9 (Continued)

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**LEGEND:**

- X = ≥ 5° PASS, SCHEDULED
- o = ≥ 5° PASS, NOT SCHEDULED
APPENDIX A

LAUNCH/ORBIT SCMs AND GROUNDTRACK CHARTS
NOTES

1. H-O TO PDL AT L PLUS 45 SEC (NOMINAL 12:00:45)
2. H-O TO IDA AT 12:06:30
3. MAX EL. 40.8
4. H-O FROM PDL AT L PLUS 2:36 00 MIN (NOMINAL 12:02:30)

NOTES (CONT.)

3. HSR-LSR TRACKING DATA ON AT T-9 MIN.
4. COMM CONFIG ALPHA TO SRB IGNITION
   THEN SWITCH TO COMM CONFIG BRAVO.
   UHF FREQ 296.8
5. CONFIG UL FREQ = 2106.4 MHz.
NOTES

1. H-0 FM MIL AT L PLUS 45 SEC (NOMINAL 12:00:45)
2. H-0 TO MIL AT L PLUS 2:30 (NOMINAL 12:02:30)
3. MAX EL. 39.3
4. COMM CONFIG BRAVO
5. CONFIG UL FREQ = 2106.4 MHZ.

NOTES

1. N-A
2. MAX EL. 6.0
3. COMM CONFIG CHARLIE
4. NOT SCHEDULED FOR SUPPORT.
   ENGINEERING TESTING ONLY.
JSG# 002/RT

JSC SCM S 004A BDAS , , ,
VID 05 SIC 2002 ORB 001 DAY 273
AOS 12 : 05 : 00 LOS 12 : 11 : 55
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25S ' 1:2:7 '
SSO OD DL 2287.5 05 ' 4 '
SSO DF DL 2205.0 M '
SSO FM DL 2250.0 22 '
NOTES
' 1. H-Q FROM MIL 12:06:30 '
' 2. MAX EL. 11.5 '
' 3. COMM CONFIG BRAVO '
' 4. HSR-LSR DATA ON AT 9 MINUTES. '
' 5. MECO - 12:08:30 '
' 6. OMS-1 IGN - 12:10:33 '
' 7. CONFIG UL FREQ = 2106.3 MHZ. '

JSG# 002/RT

JSC SCM S 005A BDAS , , ,
VID 05 SIC 2002 ORB 001 DAY 273
AOS 12 : 19 : 01 LOS 12 : 23 : 36
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25K ' 1:2 '
SSO OD DL 2287.5 05 ' 4 '
SSO DF DL 2205.0 M '
SSO FM DL 2250.0 13 ' 5 '
NOTES
' 1. N-A '
' 2. MAX EL. 08.6 '
' 3. COMM CONFIG BRAVO, UHF FREQ 296.8 '
' 4. ACQUISITION DATA SET # ' ,
' 5. MODE 22 SSME DATA WILL STOP SOON '
' AFTER AOS, CONFIG DECOM FOR MODE 13'
JSG# 002/RT

JSC SCM S 006A MAXS
VID 05 SIC 2002 ORB 401 DAY 273
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 OFF ' 1,2 ',
SSO OF DL 2287.5 05 ' 4 ',
SSO DF DL 2205.0 M ' ',
SSO FM DL 2250.0 13 ' 5 '.
NOTES
' 1. 2-WAY SUPPORT, BACKUP TO MAD
' 2. MAX EL. 08.6
' 3. COMM CONFIG BRAVO
' 4. ACQUISITION DATA SET 
' 5. MODE 22 SSME DATA WILL STOP SOON
' AFTER AOS, CONFIG DECOM FOR MODE 13

JSG# 002/RT

JSC SCM S 007A 1025
VID 05 SIC 2002 ORB 001 DAY 273
AOS 12:36:12 LOS 12:43:02
VEH LINK FREQ M REMARKS
SSO PM UL 1831.7 '24H' ' 1,2 ',
SSO OF DL 2287.5 03 ' 4 ',
SSO DF DL 2205.0 M ' ',
SSO FM DL 2250.0 13 ' 5 '.
NOTES
' 1. N-A
' 2. MAX EL. 66.9
' 3. COMM CONFIG DELTA, UHF FREQ. 296.8
' 4. ACQUISITION DATA SET 
' 5. FM JXR WILL BE TUNMED OFF AFTER DMP
' 6. OMS-2 CO AT 12:43:22
' 7. POSSIBLE KEYHOLE LOS NEAR PCA.
NOTES
1. COMM CONFIG KILO, UHF FREQ 296.8
NOTES

1. 3-WAY SUPPORT WITH TUL
2. MAX EL. 03.4
3. COMM CONFIG CHARLIE.
JSC SCM S 015A MILS
VID 05 SIC 2002 ORB 002 DAY 273
AOS 13:35:14 LOS 13:42:01

VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H 1,2
SSO OD DL 2287.5 05
SSO DF DL 2205.0 M
SSO FM DL 2250.0 23 3

NOTES
1. H-0 FROM TUL AT 13:36:00
2. MAX EL. 11.8
3. TV REMOTING REQUIRED; (PLBD OPS)
4. COMM CONFIG DELTA; UHF FREQ 296.8

JSC SCM S 016A BLTS
VID 05 SIC 2002 ORB 002 DAY 273

VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 OFF 2,5
SSO OD DL 2287.5 05
SSO DF DL 2205.0 M
SSO FM DL 2250.0 23

NOTES
1. N-A
2. MAX EL. 25.6

4. COMM CONFIG CHARLIE.
5. NOT SCHEDULED FOR SUPPORT.
   ENGINEERING TESTING ONLY.
JSC SCM S 017A \ BDAS
VID 05 SIC 2002 ORB 002 DAY 273
AOS 13 : 38 : 45 LOS 13 : 46 : 03
VEH LINK FREQ M REMARKS
SSO PN UL 2106.4 25H ' 1,2
SSO OD DL 2287.5 05
SSO DF DL 2285.0 M
SSO FM DL 2250.0 23 ' 4
NOTES
  1. H-0 FROM MIL AT 13:41:00
  2. MAX EL. 16.7
  3. COMM CONFIG DELTA; UHF FREQ. 296.8
  4. ACQUIRE IN MODE 23; CHANGE TO MODE
     13 AT MIL LOS; 13:42:01.

JSC
JSC FORM U018A \ DKRU
' UHF VOICE SUPPORT BK R'
' VID 05 SIC 2002 ORB 002 DAY 273'
' AOS 13:52:57 LOS 13:56:33'
' MAX EL.
' 1.9
NOTES
  1. COMM CONFIG KILO; UHF FREQ 296.8
JSC#  
JSC FORM U019A  YARU , UHF VOICE SUPPORT YAR , VID 05  SIC 2002  ORB 002  DAY 273 
AOS 14:26:15  LOS 14:32:38  MAX EL. 8.4  NOTES 1. COMM CONFIG KILO, UHF FREQ 296.8 

JSG#  
JSC SCH S 020A  ORRS , VID 05  SIC 2002  ORB 002  DAY 273  AOS 14:34:02  LOS 14:37:45 
VEH LINK FREQ M  REMARKS  
SSO PM UL 2106.4  25H  ' 1,2  
SSO OD DL 2287.5  05  
SSO DF DL 2205.0  M  
SSO FM DL 2250.0  13  
NOTES 1. N-A  
2. MAX EL. 19.8  
3. COMM CONFIG CHARLIE
JSC SCM S 021A HAWS
VID 05 SIC 2002 ORB 003 DAY 273
AOS 14:53:14 LOS 14:56:27
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H ' 1:2
SSO OD DL 2287.5 05
SSO DF DL 2205.0 M
SSO FM DL 2250.0 23 ' 4

NOTES
1. N/A
2. MAX EL. 02.7
3. COMM CONFIG DELTA; UHF FREQ 296.8
4. TV REMOTING REQUIRED (SUB: VTR P-B)

JSC SCM S 025A BUCS
VID 05 SIC 2002 ORB 003 DAY 273
AOS 15:01:14 LOS 15:08:47
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 24H ' 1:2
SSO OD DL 2287.5 03
SSO DF DL 2205.0 M
SSO FM DL 2250.0 17 ' 3

NOTES
1. H-O TO GBS AT 15:03:00
2. MAX EL. 34.1
3. SSME DUMP SEQUENCE: CHAN 3-MODE 17 FOR 2 MIN; CHAN 2-MODE 7 FOR 2 MIN
   CHAN 1-MODE 17 FOR 2 MIN.
4. COMM CONFIG CHARLIE.
NOTES

1. H-0 FROM BUC AT 15:03:00
2. H-0 TO TUL AT 15:07:00
3. MAX EL. 33.9
4. COMM CONFIG DELTA, UHF FREQ 296.8

4. SSME DUMP SEQUENCE; CHAN 3-MODE 17
   FOR 2 MIN, CHAN 2-MODE 07 FOR 2 MIN;
   CHAN 1-MODE 17 FOR 2 MIN.
   SPECIFIC STATION CONFIGURATION, POST
   PASS VOICE AND TTY DQM REPORT AND
   EXPEDITED DATA SHIPMENT REQUIRED.
JSC# 002/RT
JSC SCM S 027A TULS , , ,
VID 05 SIC 2002 ORB 003 DAY 273
AOS 15:03:41 LOS 15:10:34
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 24H 1:2
SSO OD DL 2287.5 03
SSO DF DL 2205.0 M
SSO FM DL 2250.0 17 4
NOTES
1. H-O FROM GDS AT 15:07:00
   H-O TO MIL AT 15:10:30

2. MAX EL. 39.7
3. COMM CONFIG DELTA, UHF FREQ 296.8
   (PAGE 1 OF 2)

JSC#
JSC FORM S027A TULS , , ,
(PAGE 2 OF 2)
NOTES (CONT'D):

4. SSME DUMP SEQUENCE; CHAN 3-MODE 17
   FOR 2 MIN, CHAN 2-MODE 07 FOR 2
   MIN, CHAN 1-MODE 17 FOR 2 MIN.
   SPECIAL STATION CONFIGURATION; POST
   PASS VOICE AND EXPEDITED DATA
   SHIPMENT REQUIRED.
NOTES
1. H-0 FROM TUL AT 15:10:30
   H-0 TO BDA AT 15:14:00
   KEYHOLE 15:15:06 END 15:15:13
2. MAX EL. 07.0
3. SSME DUMP SEQUENCE: CHAN 3, MODE 17
   FOR TWO MIN; CHAN 2, MODE 07 FOR 2
   MIN; (MORE) (PAGE 1 OF 2)

NOTES (CONT'D):
3-CONTINUED. CHAN 1, MODE 17 FOR 2
MIN. SPECIAL STATION CONFIGURATION:
POST PASS VOICE AND TTY DMR REPORT
AND EXPEDITED DATA SHIPMENT RE-
QUIRED.

4. COMM CONFIG DELTA, UHF FREQ 296.8
JSG# 002/RT

JSC SCM S 029A DLTS , ; , ;
VID 05 SIC 2002 ORB 003 DAY 273
AOS 15 : 11 : 58 LOS 15 : 16 : 15
VEH LINK FREQ M REMARKS
SSO PM DL 2106.4 OFF ' 2.4 ' ;
SSO OD DL 2207.5 05 ' ;
SSO DF DL 2205.0 M ' ;
SSO FM DL 2250.0 13 ' 3 ' ;
NOTES
' 1. M-A
' 2. MAX EL. 35.4
' 3. CONFIGURE DECOM FOR MODE 13.
' 4. NOT SCHEDULED FOR SUPPORT
' 5. COMM CONFIG CHARLIE.

JSG# 002/RT

JSC SCM S 030A DDAS ; ; ;
VID 05 SIC 2002 ORB 003 DAY 273
AOS 15 : 12 : 28 LOS 15 : 20 : 00
VEH LINK FREQ M REMARKS
SSO PM DL 2106.4 25H ' 1.2 '
SSO OD DL 2207.5 05 ' ;
SSO DF DL 2205.0 M ' ;
SSO FM DL 2250.0 13 ' ;
NOTES
' 1. H-O FROM MIL 15:14:00
' 2. MAX EL. 23.2
' 3. COMM CONFIG DELTA, UHF FREQ 296.8

A14
JSC# 002/RT

JSC# 002/RT

JSC FORM U031A DKRU , , ,
' UHF VOICE SUPPORT DKR '
' VID 05 SIC 2002 ORB 003 DAY 273 ',
' AOS 15:24:33 LOS 15:32:15 ',
' MAX EL. ',
' NOTES ',
' 1.COMM CONFIG KILO; UHF FREQ 296.8 ',

JSC# 002/RT

JSC FORM U032A BOTU , , ,
' UHF VOICE SUPPORT BOT '
' VID 05 SIC 2002 ORB 003 DAY 273 ',
' AOS 15:42:10 LOS 15:46:30 ',
' MAX EL. ',
' NOTES ',
' 1.COMM CONFIG KILO; UHF FREQ 296.8 ',
JSC#
JSC FORM U033A YARU
' UHF VOICE SUPPORT YAR
' VID 05 SIC 2002 ORB 003 DAY 273
' AOS 15:59:41 LOS 16:07:05
' MAX EL.
' 20.1
' NOTES
' 1. COMM CONFIG KILO; UHF FREQ 296.8

JSG#
JSC SCM S 034A HAMS
VID 05 SIC 2002 ORB 004 DAY 273
AOS 16:24:55 LOS 16:31:25
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H ' 1,2
SSO OD DL 2287.5 05'
SSO DF DL 2205.0 M '
SSO FM DL 2250.0 13 ' 3
NOTES
' 1. CXR OFF 16:33:00
' 2. MAX EL. 65.3
' 3. FM CARRIER WILL REMAIN ON AFTER DMP
' 4. COMM CONFIG DELTA; UHF FREQ 296.8
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**NOTES**

1. HANDOVER FROM BUC AT 16:36:30
2. HANDOVER TO TUL RT 16:40:30
3. MAX EL. 42.1
4. COMM CONFIG DELTA, UHF FREQ 296.8
JSG:

JSC SCM S 040A TULS ; ;
VID 05 SIC 2002 ORB 004 DAY 273
90S 16 : 37 : 38 LOS 16 : 44 : 05
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 24H ' 1:2 ;
SSO OD DL 2287.5 03 ;
SSO DF DL 2205.0 M ;
SSO FM DL 2250.0 13 ;
NOTES
1. H-O FROM GDS AT 16:40:30 ;
   H-O TO MIL AT 16:43:45 ;
2. MAX EL. 18.7 ;
3. COMM CONFIG DELTA; UHF FREQ 296.8 ;

JSG:

JSC SCM S 041A MILS ; ;
VID 05 SIC 2002 ORB 004 DAY 273
90S 16 : 43 : 15 LOS 16 : 50 : 17
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H ' 1:2 ;
SSO OD DL 2287.5 05 ;
SSO DF DL 2205.0 M ;
SSO FM DL 2250.0 13 ;
NOTES
1. H-O FROM TUL AT 16:43:45 ;
   H-O TO BDA AT 16:48:00 ;
2. MAX EL. 13.7 ;
3. COMM CONFIG DELTA; UHF FREQ 296.8 ;
JSGO
JSC SCM S 042A DLTS ,
VID 05 SIC 2002 ORB 004 DAY 273
AOS 16:45:26 LOS 16:47:24
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 OFF '1,2,4'
SSO OD DL 2287.5 05 '
SSO DF DL 2205.0 M '
SSO FM DL 2250.0 13 '
NOTES
'1. M-A '
'2. MAX EL. 21.8'
'3. COMM CONFIG CHARLIE '
'4. NOT SCHEDULED FOR SUPPORT. '
'ENGINEERING TESTING ONLY. '

JSGO
JSC SCM S 043A IDAS ,
VID 05 SIC 2002 ORB 004 DAY 273
AOS 16:45:53 LOS 16:53:34
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H '1,2 '
SSO OD DL 2287.5 05 '
SSO DF DL 2205.0 M '
SSO FM DL 2250.0 13 '
NOTES
'1. H-O FPQM MIL 16:48:00 '
'2. MAX EL. 43.4 '
'3. COMM CONFIG DELTA, UHF FREQ 296.8. ' 
JSC Form U044A

JSC SCM S 045A

JSC Form U044A

DKRU:

UHF VOICE SUPPORT DKR

VID 05 SIC 2002 ORB 004 DAY 273

AGS 16:59:41

LOE 17:03:39

MAX EL.

02.0

NOTES

1. COMM CONFIG KILO: UHF FREQ 296.8

2. UHF HANDOVER TO ACM AT 17:03:00

273

ROS 16:59:41

LOS 17:03:39

MAX EL.

NOTES

1. COMM CONFIG KILO: UHF FREQ 296.8

2. UHF HANDOVER TO ACM AT 17:03:00

273

ROS 17:03:00

LOE 17:13:01

MAX EL.

NOTES

1. NONE.

2. MAX EL. 43.7

3. COMM CONFIG DELTA UHF FREQ 296.8.

UHF H-O Freq. DKR AT 17:03:00.
JSC#
JSC FORM U046H	BOTU
' UHF VOICE SUPPORT BOT '
' VID 05 SIC 2002 ORI 004 DAY 273 '
' AOS 17:14:20	 LOS 17:19:43 '
' 
' NOTES '
' 1.COMM CONFIG KILO, UHF FREQ 296.8 '
'

JSC#
JSC FORM U047A	YARU
' UHF VOICE SUPPORT YAR '
' VID 05 SIC 2002 ORI 004 DAY 273 '
' AOS 17:33:04	 LOS 17:40:37 '
' 
' NOTES '
' 1.COMM CONFIG KILO, UHF FREQ 296.8 '}

A22
NOTES
' 1. N-A
' 2. MAX EL. 03.0
' 3. COMM CONFIG DELTA UHF FREQ. 296.8

NOTES
' 1. CXR OFF 18:06:30
' 2. MAX EL. 05.2 KEYHOLE START
' 18:02:54; END 18:03:28.
' 3. COMM CONFIG DELTA UHF FREQ 296.8.
NOTES

1. CXR ON 18:06:30; H-0 TO GDS AT 18:09:30

2. MAX EL. 39.7.

3. COMM CONFIG CHARLIE.
JSG#

JSC SCM S 055A  TULS , , ,
VID 05 SIC 2002 ORB 005 DAY 273
AOS 18 : 11 : 16  LOS 18 : 18 : 02
VEH LINK  FREQ  M REMARKS
SSO PM DL 2106.4  24H ' 1,2',
SSO OD DL 2287.5  03',
SSO DF DL 2205.0  M',
SSO FM DL 2250.0  13',
NOTES
' 1. H-O FROM GIS  18:15:00.
' H-O TO MIL AT 18:17:45(SSO ANT
' MANAGEMENT REQ.).
' 2. MAX EL. 32.0
' 3. COMM CONFIG DELTA UHF FREQ. 296.8.'

JSG#

JSC SCM S 056A  MILS ; , , ,
VID 05 SIC: 2002 ORB 005 DAY 273
AOS 18 : 16 : 29  LOS 18 : 24 : 10
VEH LINK  FREQ  M REMARKS
SSO PM DL 2106.4  25H ' 1,2',
SSO OD DL 2287.5  05',
SSO DF DL 2205.0  M',
SSO FM DL 2250.0  13',
NOTES
' H-O TO BDA AT 18:24:00(SSO ANT
' MANAGEMENT REQ).
' 2. MAX EL. 55.4
' 3. COMM CONFIG DELTA UHF FREQ. 296.8
' 4. OMS-3 WAS SCHEDULED AT APPROX.
' 18:21:00.
JSG®
JSC SCM S 057A  DDAS , , ,
VID 05  SIC 2002  ORB 005  DAY 273
AOS 18 : 20 : 39  LOS 18 : 24 : 40
VEH LINK  FREQ  M  REMARKS
SSO PM UL 2106.4  25H ' 1,2 ,
SSO OD DL 2287.5  05 ,
SSO DF DL 2205.0  M ,
SSO FM DL 2250.0  13 ,
NOTES
' 1.  H-O FROM MIL 18:24:04(SSO ANT
   MANAGEMENT REQ)
' 2.  MAX EL. 03.2
' 3.  COMM CONFIG DELTA UHF FREQ. 296.8
' 4.  ONS-3 WAS SCHEDULED AT APPROX
   18:21:00.

JSG®
JSC SCM S 058A  ACWS , , ,
VID 05  SIC 2002  ORB 005  DAY 273
AOS 18 : 38 : 09  LOS 18 : 40 : 55
VEH LINK  FREQ  M  REMARKS
SSO PM UL 2106.4  25H ' 1,2 ,
SSO OD DL 2287.5  05 ,
SSO DF DL 2205.0  M ,
SSO FM DL 2250.0  13 ,
NOTES
' 1.  N-A
' 2.  MAX EL. 04.0
' 3.  COMM CONFIG DELTA UHF FREQ. 296.8
JSC# 002/RT

JSC FORM U059A BOTU

' UHF VOICE SUPPORT BOT '

' VID 05 SIC 2002 ORB 005 DAY 273 '

' AGS 18:49:15 LOS 18:51:58 '

' MAX EL. '

' 04.0 '

' NOTES '

' 1.COMM CONFIG KILO ,UHF FREQ 296.8 '


JSC# 002/RT

JSC FORM U060A YARI

' UHF VOICE SUPPORT YARI '

' VID 05 SIC 2002 ORB 005 DAY 273 '

' AGS 19:09:07 LOS 19:10:52 '

' MAX EL. '

' 08.2 '

' NOTES '

' 1.COMM CONFIG KILO ,UHF FREQ 296.8 '

' 2. ONS-4 CO WAS SCHEDULED AT APPROX 19:08:12. '}

A27
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<td>VID 05</td>
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<tr>
<td>AOS 19:19:19</td>
<td>LOS 19:26:47</td>
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<td>VEH LINK FREQ</td>
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<tr>
<td>SSO PM UL 2106.4</td>
<td>25H '1:2</td>
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<tr>
<td>SSO OD DL 2287.5</td>
<td>05</td>
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<td>SSO DF DL 2205.0</td>
<td>M</td>
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<td>SSO FM DL 2250.0</td>
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<td>'1. H-A</td>
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<td>'2. MAX EL. 46.9</td>
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<td>'3. COMM CONFIG DELTA UHF FREQ. 296.8</td>
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<tr>
<td>AOS 19:42:08</td>
<td>LOS 19:50:14</td>
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<tr>
<td>SSO OD DL 2287.5</td>
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<td>M</td>
</tr>
<tr>
<td>SSO FM DL 2250.0</td>
<td>23 '4</td>
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<td>NOTES</td>
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<tr>
<td>'1. H-O TO GNS AT 19:43:00</td>
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<tr>
<td>'2. MAX EL. 50.2</td>
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<td>'3. COMM CONFIG CHARLIE.</td>
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<tr>
<td>'4. TV PASS H-A BUC.</td>
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</table>
NOTES

' 1. H-0 FROM GDS AT 19:48:00
' 2. MAX EL. 27.2
' 3. COMM CONFIG DELTA UHF FREQ 296.8.
' 4. TV PASS N-A TO TUL.
NOTES

1. H-0 FROM TUL AT 19:52:00.
2. H-0 TO QUI AT 19:56:30
3. MAX EL. 03.6
4. COMM CONFIG DELTA UHF FREQ. 296.8
5. TV REMOTING REQUIRED(COSTA-1 OPS)
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<tr>
<th>TIME</th>
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</table>

**Activities:***
- OMS-3 at 18:20:43
  - H-O BUC-GDS 18:09:30
  - H-O GDS-TUL 18:15:00
  - H-O TUL-MIL 18:17:45
  - H-O MIL-BDA 18:24:00
- OMS-4A at 19:03:42
  - OMS-4B at 19:07:54
  - H-O BUC-GDS 19:43:00
  - H-O GDS-TUL 19:48:00
  - H-O TUL-MIL 19:52:00
  - H-O MIL-QUI 19:56:30

**Beta:** -33.67°
JSC# 002/RT
JSC FORM U070A  DOWU;  , , ,
' UHF VOICE SUPPORT ,
' VID 05  SIC 2002  ORB 006  DAY 273 ;
' AOS 20:24:11  LOS 20:26:13 ;
'  , MAX EL. ;
'  , 2.9 ;
' NOTES ;
' 1. COMM CONFIG KILO ; UHF FREQ 296.8 ,
',

JSC# 002/RT
JSC SCM S 071A  HAW , , , ,
' VID 05  SIC 2002  ORB 007  DAY 273 ;
' AOS 21:12:00  LOS 21:13:03 ;
' URF LINK FREQ  M  REMARKS ;
' SSO PM UL 2106.4  25H ' 1:2 ,
' SSO OD DL 2287.5  05 ,
' SSO DF DL 2205.0  M ,
' SSO FM DL 2250.0  13 ,
' NOTES ;
' 1. N-A ,
' 2. MAX EL. 01.1 ,
' 3. COMM CONFIG DELTA UHF FREQ. 296.8 ,
JSG# 002/RT
JSC SCM S 075A  BUCS ; , ,
VID 05  SIC 2002 ORB 007 DAY 273
VEH LINK  FREQ  M  REMARKS
SSO PM UL 2106.4  24H  ' 1:2  ,
SSO OD DL 2267.5  03  ,
SSO DF DL 2205.0  M  ,
SSO FM DL 2250.0  23  ' 4  ,
NOTES
' 1.  H-O TO TUL AT 21:22:00  ,
' 2.  MAX EL. 06.7  ,
' 3.  CONN CONFIG CHARLIE  ,
' 4.  TV PASS N-A AT BUC  ,

JSG# 002/RT
JSC SCM S 076A  GBSS ; , ,
VID 05  SIC 2002 ORB 007 DAY 273
AOS 21 : 18 : 08  LOS 21 : 21 : 21
VEH LINK  FREQ  M  REMARKS
SSO PM UL 2105.4  24H  ' 1:2  ,
SSO OD DL 2267.5  03  ,
SSO DF DL 2205.0  M  ,
SSO FM DL 2250.0  23  ' 4  ,
NOTES
' 1.  3-WAY SUPPORT WITH BUC.  ,
' 2.  MAX EL. 05.5; KEYHOLE START AT  
   21:19:15; END AT 21:18:46  ,
' 3.  CONN CONFIG DELTA UHF FREQ 296.8  ,
   REMOTE UHF VOICE AT AOS  ,
' 4.  TV REMOTING REQUIRED (SUB: NOSL  
   SETUP AND DEMO)  ,
JSG#
JSC SCM S 077A TULS;
VID 05 SIC 2002 ORB 007 DAY 273
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 24H '1;2'
SSO OD DL 2287.5 03 '
SSO DF DL 2205.0 M '
SSO FM DL 2250.0 23 '4'
NOTES
'1. H-O FROM BUC AT 21:22:00. '
'2. MAX EL. 1.3 '
'3. COMM CONFIG DELTA UHF FREQ. 296.8 '
'4. TV SUPPORT N-A AT TUL. '

JSG#
JSC SCM S 078A QUIS;
VID 05 SIC 2002 ORB 007 DAY 273
AOS 21:30:11 LOS 21:36:41
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H '1;2'
SSO OD DL 2287.5 05 '
SSO DF DL 2205.0 M '
SSO FM DL 2250.0 13 '
NOTES
'1. N-A '
'2. MAX EL. 16.2 '
'3. COMM CONFIG CHARLIE
JSC#

JSC FORM U079A BOTU

' UHF VOICE SUPPORT BOT '

' VID 05 SIC 2002 ORB 007 DAY 273 '

' AOS 21:57:50 LOS 22:04:00 '

' MAX EL. 10.8 '

' NOTES '

' 1. COMM CONFIG KILO UHF FREQ 296.8 '

---

JSC#

JSC SCM S 080A 102S

VID 05 SIC 2002 ORB 007 DAY 273

AOS 22:08:41 LOS 22:12:51

VEH LINK FREQ M REMARKS

SSO PM UL 1831.7 24H 1:2
SSO OD DL 2287.5 03
SSO DF DL 2205.0 M
SSO FM DL 2250.0 13

NOTES

' 1. N-A '

' 2. MAX EL. 04.7 '

' 4. COMM CONFIG DELTA UHF FREQ 296.8.'
JSG# 002/RT
JSC SCM S 081A HAWS
VID 05 SIC 2002 ORB 008 DAY 273
AOS 22:44:43 LOS 22:50:06
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H 1,2
SSO OD DL 2287.5 05
SSO DF DL 2205.0 M
SSO FM DL 2250.0 13
NOTES
1. N-A
2. MAX EL. 10.2.
3. COMM CONFIG DELTA UHF FREQ. 296.8

JSG# 002/RT
JSC SCM S 082A AGOS
VID 05 SIC 2002 ORB 008 DAY 273
AOS 23:10:06 LOS 23:16:15
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H 1,2
SSO OD DL 2287.5 05
SSO DF DL 2205.0 M
SSO FM DL 2250.0 13
NOTES
1. N-A
2. MAX EL. 25.1
3. COMM CONFIG CHARLIE
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<tr>
<td>23:32:14</td>
<td>AOS</td>
<td>JSC FORK C0838 108 Environment: UHF VOICE SUPPORT BGT</td>
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<td>23:39:08</td>
<td>LOS</td>
<td>JSC FORK C0838 108 Environment: UHF VOICE SUPPORT BGT</td>
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<td>44.5</td>
<td>MAX EL.</td>
<td>JSC FORK C0838 108 Environment: UHF VOICE SUPPORT BGT</td>
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**NOTES**
- 1. COMM CONFIG KILO: UHF FREQ 296.8

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<th>Time</th>
<th>Event</th>
<th>Details</th>
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<td>23:41:08</td>
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<td>JSC SCM S 0040 1025 Environment: VEH LINK FREQ</td>
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<td>23:48:12</td>
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<td>JSC SCM S 0040 1025 Environment: VEH LINK FREQ</td>
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<td>UHF FREQ</td>
<td>JSC SCM S 0040 1025 Environment: VEH LINK FREQ</td>
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</table>

**NOTES**
- 1. N-A
- 2. MAX EL. 37.7
- 3. COMM CONFIG DELTA UHF FREQ. 296.8
JSG# 002/RT
JSC SCM S 085A HAWS
VID 05 SIC 2002 ORB 009 DAY 274
AOS 00 : 17 : 41 LOS 00 : 25 : 12
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H 1:2
SSO OD DL 2287.5 05
SSO DF DL 2205.0 M
SSO FM DL 2250.0 13
NOTES
1. N-A
2. MAX EL. 47.4
3. COMM CONFIG DELTA UHF FREQ. 296.8.

JSG# 002/RT
JSC SCM S 086A AGOS
VID 05 SIC 2002 ORB 009 DAY 274
AOS 00 : 44 : 33 LOS 00 : 50 : 46
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H 1:2
SSO OD DL 2287.5 05
SSO DF DL 2205.0 M
SSO FM DL 2250.0 13
NOTES
1. N-A
2. MAX EL. 35.0
3. COMM CONFIG CHARLIE
NOTES
' 1. N-A
' 2. MAX EL. 22.0.
' 3. COMM CONFIG CHARLIE. INHIBIT UPLINK VOICE FOR CREW SLEEP PERIOD.
' 4. BUMP WILL BEGIN MODE 15 THEN POSSIBLY SWITCH TO MODE 13.

NOTES
' 1. N-A
' 2. MAX EL. 07.3
' 3. COMM CONFIG DELTA UHF FREQ. 296.8 INHIBIT UPLINK VOICE FOR CREW SLEEP PERIOD
JSC SCM S 089A GWMS, , ,
VID 05 SIC 2002 ORB 011 DAY 274
AOS 03 : 17 : 04 LOS 03 : 22 : 07
VHE LINK FREQ M REMARKS
SSO PM UL 2106.4 25H ' 1,2,3 '
SSO OD DL 2287.5 05 '
SSO DF DL 2205.0 M '
SSO FM DL 2250.0 15 '
NOTES
' 1. N-A ,
' 2. MAX EL. 02.7 ,
' KEYHOLE 03:17:20; END 03:18:06 ,
' 3. COMM CONFIG DELTA, UHF FREQ. 296.8 ,
' INHIBIT UPLINK VOICE FOR CREW SLEEP PERIOD. ' ,

JSC SCM S 090A AGOS, , ,
VID 05 SIC 2002 ORB 011 DAY 274
AOS 03 : 53 : 34 LOS 03 : 59 : 14
VHE LINK FREQ M REMARKS
SSO PM UL 2166.4 25H ' 1,2 '
SSO OD DL 2287.5 05 '
SSO DF DL 2205.0 M '
SSO FM DL 2250.0 15 '
NOTES
' 1. N-A ,
' 2. MAX EL. 42.6 ,
' 3. COMM CONFIGURATION CHARLIE. INHIBIT ' UPLINK VOICE FOR CREW SLEEP PERIOD. '
JSC SCM S 091A ACNS , , ,
VID 05 SIC 2002 ORB 011 DAY 274
AOS 04 : 09 : 06 LOS 04 : 14 : 06
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H ' 1,2 ' ,
SSO OD DL 2287.5 05 ' ,
SSO DF DL 2205.0 M ' ,
SSO FM DL 2250.0 15 ' ,

NOTES
1. M-A
2. MAX EL. 24.1

3. COMM CONFIG DELTA UHF FREQ. 296.8;
   INHIBIT UPLINK VOICE FOR CREW SLEEP;
   PERIOD.

JSC#
JSC FORM U092A DKRU , , ,
' UHF VOICE SUPPORT ',
' VID 05 SIC 2002 ORB 012 DAY 274 ',
' AOS 04:13:02 LOS 04:16:54 ',
' MAX EL. ',
' 01.9 ',

NOTES
1. COMM CONFIG KILO , UHF FREQ 296.8,
   INHIBIT UPLINK VOICE FOR CREW SLEEP,
   PERIOD.
JSG#
JSC SCM S 093A GWMS , , ,
VID 05 SIC 2002 ORB 012 DAY 274
AOS 04 : 50 : 08 LOS 04 : 57 : 33
VEH LINK FREQ M REMARKS
SSO PN UL 2106.4 25H 1,2
SSO OD DL 2287.5 05
SSO DF DL 2205.0 M
SSO FM DL 2250.0 15
NOTES
' 1. N-A
' 2. MAX EL. 40.2
' 3. COMM CONFIG DELTA UHF FREQ. 296.8,
' INHIBIT UPLINK VOICE FOR CREW SLEEP
' PERIOD.

JSG#
JSC SCM S 094A AGOS , , ,
VID 05 SIC 2002 ORB 012 DAY 274
AOS 05 : 27 : 38 LOS 05 : 33 : 11
VEH LINK FREQ M REMARKS
SSO PN UL 2106.4 25H 1,2
SSO OD DL 2287.5 05
SSO DF DL 2205.0 M
SSO FM DL 2250.0 15
NOTES
' 1. N-A
' 2. MAX EL. 17.1
' 3. COMM CONFIGURATION CHARLIE, INHIBIT
' UPLINK VOICE FOR CREW SLEEP PERIOD.
Crew sleep period from 274/01:00 to 274/09:00
JSC#
JSC FORM U095A DKKU , , ,
' UHF VOICE SUPPORT DKR ',
' VIB 05 SIC 2002 ORB 013 DAY 274 ',
' AOS 05:44:46 LOS 05:53:03 ',
' MAX EL. ',
' 84.7 ',
' NOTES ',
' 1. COMM CONFIG KILO UHF FREQ 296.8 ',
' INHIBIT UPLINK VOICE FOR CREW SLEEP ',
' PERIOD. ',

JSG#
JSC SCM S 096A MADS , , ,
VID 05 SIC 2002 ORB 013 DAY 274
AOS 05 : 53 : 58 LOS 05 : 55 : 09
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H ' 1:2 ',
SSO OD DL 2287.5 05 ',
SSO DF DL 2205.0 M ',
SSO FM DL 2250.0 00 ',
NOTES
' 1. N-A ',
' 2. MAX EL. 01.3 ',
' 3. COMM CONFIG DELTA UHF FREQ. 296.8 ',
' INHIBIT UPLINK VOICE FOR CREW SLEEP ',
' PERIOD. ',
JSC# 002/RT

JSC SCH S 097A QUS,
VID 05 SIC 2002 ORB 013 DAY 274
AOS 07:06:08 LOS 07:08:32
VEH LINK FREQ M REMARKS
SS0 PH UL 2106.4 25H 1,2
SS0 OD DL 2287.5 05
SS0 DF DL 2205.0 M
SS0 FM DL 2250.0 15
NOTES
' 1. NONE
' 2. MAX EL. 02.7
' 3. COMM CONFIGURATION CHARLIE.
' INHIBIT UPLINK VOICE FOR CREW SLEEP PERIOD.

JSC# 002/RT

JSC FORM U098A DKRU,
' UHF VOICE SUPPORT DKR
' VID 05 SIC 2002 ORB 014 DAY 274
' AOS 07:20:40 LOS 07:25:50
' MAX EL.
' 03.9
NOTES
' 1. COMM CONFIG KILO UHF FREQ 296.8
' INHIBIT UPLINK VOICE FOR CREW SLEEP
' PERIOD.
' 2. UHF H-Q TO MAD AT 07:25:30 Z.
JSG# 002/RT
JSC SCM S 099A MADS ; , ,
VIS 05 SIC 2002 ORB 014 DAY 274
AOS 07 : 25 : 24 LOS 07 : 31 : 43
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H ' 1:2 ,
SSO OD DL 2287.5 05 ,
SSO DF DL 2205.0 M ,
SSO FM DL 2250.0 15 ,
NOTES
' 1. W-A ,
' 2. MAX EL. 15.6 ,
' 3. COMM CONFIG DELTA, UHF FREQ. 296.8 ,
' INHIBIT UPLINK VOICE FOR CREW SLEEP ,
' PERIOD. UHF H-0 FROM 07:25:30 Z '

JSG# 002/RT
JSC SCM S 100A ORRS ; , ,
VIS 05 SIC 2002 ORB 014 DAY 274
AOS 08 : 09 : 39 LOS 08 : 11 : 54
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H ' 1:2:3 ,
SSO OD DL 2287.5 05 ,
SSO DF DL 2205.0 M ,
SSO FM DL 2250.0 15 ,
NOTES
' 1. W-A ,
' 2. MAX EL. 12.8 ,
' 3. COMM CONFIGURATION CHARLIE, INHIBIT ,
' UPLINK VOICE FOR CREW SLEEP PERIOD. ,
JSG\1
JSC SCM S 101A QUIS ; , ,
VID 05 SIC 2002 ORB 014 DAY 274
AOS 08 : 39 : 01 LOS 08 : 45 : 36
VEH LINK FREQ M REMARKS
SSO FM UL 2106.4 25H ' 1,2 '
SSO OD DL 2287.5 05 '
SSO DF DL 2205.0 M '
SSO FM DL 2250.0 15 '
NOTES
' 1. CXR OFF 08:47:30
' 2. MAX EL. 52.1
' 3. COMM CONFIGURATION CHARLIE.
' INHIBIT UPLINK VOICE FOR CREW SLEEP PERIOD.

JSG#
JSC SCM S 102A DDAS ; , ,
VID 05 SIC 2002 ORB 015 DAY 274
AOS 08 : 49 : 06 LOS 08 : 51 : 47
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H ' 1,2,3 '
SSO OD DL 2287.5 05 '
SSO DF DL 2205.0 M '
SSO FM DL 2250.0 00 '
NOTES
' 1. CXR ON 08:47:30
' 2. MAX EL. 0.9
' 3. COMM CONFIG DELTA UHF FREQ. 296.8
JSC SCM S 103A MADS

JSC N05 SIC 2002 ORB 015 DAY 274

AOS 08:59:06 LOS 09:05:52

VEH LINK FREQ M REMARKS

SSO PM UL 2106.4 25H '1:2

SSO OD BL 2287.5 05

SSO DF BL 2205.0 M

SSO FM BL 2250.0 13

NOTES

1. N-A

2. MAX EL. 38.3

3. COMM CONFIG DELTA, UHF FREQ 296.8

JSC FORM U104A YARU

UHF VOICE SUPPORT YAR

VID 05 SIC 2002 ORB 015 DAY 274

AOS 09:32:51 LOS 09:40:32

MAX EL.

16.4

NOTES

1. COMM CONFIG KILO, UHF FREQ 296.8


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<td><strong>AOS 09:41:00 LOS 09:46:38</strong></td>
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<td>SSO PM UL 2106.4 25H '1:2'</td>
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<td>SSO DF DL 2205.0 M</td>
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<td><strong>AOS 10:16:59 LOS 10:22:48</strong></td>
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<td>SSO PM UL 2106.4 25H '1:2'</td>
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<tr>
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<tr>
<td>SSO DF DL 2205.0 M</td>
<td></td>
</tr>
<tr>
<td>SSO FM DL 2250.0 13</td>
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<td>' 1. H-O TO WDA 10:21:00'</td>
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<tr>
<td>' 2. MAX EL. 19.0'</td>
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<td>' 3. COMM CONFIG DELTA; UHF FREQ 296.8'</td>
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JSG#
JSC SCM S 107A MADS , , ,
VID 05 SIC 2002 ORB 016 DAY 274
AOS 10:20:04 LOS 10:28:05
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 23H ' 1,2 ,
SSO OD DL 2287.5 05 ,
SSO DF DL 2205.0 M ,
SSO FM DL 2250.0 13 ,
NOTES
' 1. H-O FROM MIL 10:21:00 ,
' 2. MAX EL. 26.5 ,
' 3. COMM CONFIG DELTA, UHF FREQ 296.8 ,

JSG#
JSC SCM S 108A MADS , , ,
VID 05 SIC 2002 ORB 016 DAY 274
AOS 10:33:23 LOS 10:40:02
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H ' 1,2 ,
SSO OD DL 2287.5 05 ,
SSO DF DL 2205.0 M ,
SSO FM DL 2250.0 13 ,
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' 1. N-A ,
' 2. MAX EL. 33.3 ,
' 3. COMM CONFIG DELTA, UHF FREQ 296.8 ,

A52
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<td>1,2</td>
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<td>SSO OD DL</td>
<td>2287.5</td>
<td>03</td>
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<tr>
<td>SSO DF DL</td>
<td>2205.0</td>
<td>M</td>
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<td>SSO FM DL</td>
<td>2250.0</td>
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NOTES:
1. N-A
2. MAX EL. 07.7
3. COMM CONFIG DELTA, UHF FREQ 296.8

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<td>SSO DF DL</td>
<td>2205.0</td>
<td>M</td>
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<td>SSO FM DL</td>
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NOTES:
1. COMM CONFIG KILC, UHF FREQ 296.8
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<tr>
<td>AOS 11:16:26 LOS 11:20:49</td>
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<td>VEH LINK FREQ</td>
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<td>SSO PM UL 2106.4 25H</td>
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<td>SSO FM DL 2250.0 13</td>
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NOTES

1. N/A
2. MAX EL. 39.2
3. COMM CONFIGURATION CHARLIE.

---

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<td>AOS 11:47:56 LOS 11:51:24</td>
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<td>SSO FM DL 2250.0 13</td>
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</table>

NOTES

1. H-O TO MIL AT 11:51:00
2. MAX EL. 02.7
3. COMM CONFIG DELTA; UHF FREQ 296.8
NOTES
1. H-O FROM TUL AT 11:51:00.
2. H-O TO BDA AT 11:57:00.
3. MAX EL. 48.5
4. COMM CONFIG DELTA, UHF FREQ 296.8
5. TV REMOTING REQUIRED; (SUB: RMS DEPLOYMENT)
JSC SCM S 115A

Vehicle Link Freq

Remarks

Notes

JSC SCM S 116A

Vehicle Link Freq

Remarks

Notes
JSC# 002/RT

JSC SCM S117A IO2S,

V10 05 SIC 2002 ORB 017 DAY 274

AOS 12:25:02 LOS 12:32:42

VEH LINK FREQ M REMARKS

SSO PH UL 1831.7 24H 1:2

SSO OD DL 2207.5 43

SSO DF DL 2205.0 M

SSO FM DL 2250.0 13

NOTES

1. N-A

2. MAX EL. 22.6

3. COMM CONFIG DELTA, UHF FREQ 296.8

---

JSC# 002/RT

JSC FORM U118A YARU,

' UHF VOICE SUPPORT YAR '

' VID 05 SIC 2002 ORB 017 DAY 274 '

' AOS 12:41:45 LOS 12:48:54 '

' MAX EL. 10.8 '

' NOTES '

' 1. COMM CONFIG KILO, UHF FREQ 296.8 '
JS6# 002/RT

JSC SCM S 119A

VID 05 SIC 2002 ORB 017 DAY 274
AOS 12:50:36 LOS 12:55:03

VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H 1,2
SSO OD DL 2287.5 05
SSG DF DL 2205.0 M
SSO FM DL 2250.0 13

NOTES
1. H-A
2. MAX EL. 68.4
3. COMM CONFIGURATION CHARLIE.

---

JS6# 002/RT

JSC SCM S 120A

VID 05 SIC 2002 ORB 018 DAY 274

VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 24H 1,2
SSO OD DL 2287.5 03
SSG DF DL 2205.0 M
SSO FM DL 2250.0 13

NOTES
1. H-O TO TUL AT 13:21:30
2. MAX EL. 88.3
3. COMM CONFIG CHARLIE
JSG#
JSC SCM S 121A TULS ; ; ;
VID 05 SIC 2002 ORB 016 DAY 274
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 24H ' 1,2
SSO 02 DL 2287.5 03 '
SSO DF DL 2205.0 M '
SSO FM DL 2250.0 13 '
NOTES
' 1. H-O FROM BUC AT 13:21:00
' 2. MAX EL. 35.2
' 3. COMM CONFIG DELTA: UHF FREQ 296.8

JSG#
JSC SCM S 122A GDSS ; ; ;
VID 05 SIC 2002 ORB 018 DAY 274
AOS 13 : 26 : 52 LOS 13 : 24 : 37
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 OFF ' 1,2
SSO 02 DL 2287.5 03 '
SSO DF DL 2205.0 M '
SSO FM DL 2250.0 13 '
NOTES
' 1. 3-WAY SUPPORT WITH BUC AND TUL.
' 2. MAX EL. 08.1
' 3. COMM CONFIG DELTA; UHF FREQ 296.8
JSG#

JSC SCH S 123A MILS
VID 05 SIC 2002 ORB 018 DAY 274
VEH LINK FREQ M REMARKS
SS0 PM UL 2106.4 25H '1,2'
SS0 OD DL 2287.5 05'
SS0 DF DL 2205.0 M'
SS0 FM DL 2250.0 13'

NOTES
' 1. H-O FROM TUL AT 13:26:00
' 2. MAX EL 18.6.
' 3. COMM CONFIG DELTA, UHF FREQ 296.8

JSG#

JSC SCH S 124A MILS
VID 05 SIC 2002 ORB 018 DAY 274
VEH LINK FREQ M REMARKS
SS0 PM UL 2106.4 OFF '1,2,4'
SS0 OD DL 2287.5 05'
SS0 DF DL 2205.0 M'
SS0 FM DL 2250.0 13'

NOTES
' 1. N-A
' 2. MAX EL. 36.1
' 3. COMM CONFIGURATION CHARLIE.
' 4. NOT SCHEDULED FOR SUPPORT.
'   ENGINEERING TESTING ONLY.
JSC SC M S 125A BDSAS , , ,
VID 05 SIC 2002 ORB 018 DAY 274
VEH LINK FREQ M REMARKS
SS0 PM UL 2106.4 25H ' 1,2 ,
SS0 OD DL 2287.5 05 ,
SS0 DF DL 2205.0 M ,
SS0 FM DL 2250.0 13 ,
NOTES
' 1. H-0 FROM MIL 13:30:00 ,
' 2. MAX EL. 18.6 ,
' 3. COMM CONFIG DELTA, UHF FREQ 296.8 ,
'
JSC FORM U126A DKRU , , ,
' UHF VOICE SUPPORT DKR ',
' VID 05 SIC 2002 ORB 018 DAY 274 ',
' MAX EL. ',
' 06.4 ',
' NOTES ',
' 1. COMM CONFIG KILO, UHF FREQ 296.8 ',
JSC\# 002/RT
JSC FORM U1278 BOTU ', ', '
' UHF VOICE SUPPORT BOT ',
' VID 05 SIC 2002 ORB 018 DAY 274 ',
' AOS 13:59:51 LOS 14:02:11 ',
' MAX EL. ',
' 01.3 ',
' NOTES ',
' 1.COMM CONFIG KILO, UHF FREQ 296.8 ',

JSC\# 002/RT
JSC FORM U128A YARU ', ', '
' UHF VOICE SUPPORT YAR ',
' VID 05 SIC 2002 ORB 018 DAY 274 ',
' AOS 14:16:34 LOS 14:23:42 ',
' MAX EL. ',
' 10.8 ',
' NOTES ',
' 1.COMM CONFIG KILO, UHF FREQ 296.8 ',
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<td>LOS 14:27:37</td>
<td>2250.0</td>
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</table>

**NOTES**

1. N-A
2. MAX EL. 14.0
3. COMM CONFIGURATION CHARLIE.
JSG:

JSC SCM S 131A BUCS, , ,

VID 05 SIC 2002 ORB 019 DAY 274

AOS 14:51:45 LOS 14:59:52

VEH LINK FREQ M REMARKS

SSO PN UL 2106.4 24H '1;2,' ,

SSO OD DL 2287.5 03 ', ',

SSO DF DL 2205.0 M ', ',

SSO FM DL 2250.0 23 '4 ',

NOTES

1. CXR ON 14:50:00
2. H-0 TO GDS AT 14:53:00
3. MAX EL. 61.1
4. TV SUPPORT N-A AT BUC

JSG:

JSC SCM S 132A GSS, , ,

VID 05 SIC 2002 ORB 019 DAY 274

AOS 14:52:29 LOS 14:59:17

VEH LINK FREQ M REMARKS

SSO PN UL 2106.4 25H '1;2',

SSO OD DL 2287.5 05 ', ',

SSO DF DL 2205.0 M ', ',

SSO FM DL 2250.0 23 '4 ',

NOTES

1. H-0 FROM BUC AT 14:53:00
2. H-0 TO TUL AT 14:58:30
3. MAX EL. 58.7
4. COMM CONFIG DELTA; UHF FREQ 296.8
   REMOTE UHF VOICE AT AOS.
5. TV REMOTING REQUIRED (SUB:RNS OPS)
JSGI 002/RT
JSC SCM S 1350 1 LTS 019 DAY 274
AOS 15:01:57 LOS 15:07:09
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 OFF 1,2,4
SSO OD DL 2287.5 05
SSO DF DL 2205.0 M
SSO FM DL 2250.0 23
NOTES
1. M-A
2. MAX EL. 54.2
3. COMM CONFIG CHARLIE.
4. NOT SCHEDULED FOR SUPPORT;
   ENGINEERING TESTING ONLY.

JSGI 002/RT
JSC SCM S 1360 BIAS 019 DAY 274
AOS 15:13:06 LOS 15:21:15
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H 1,2
SSO OD DL 2287.5 05
SSO DF DL 2205.0 M
SSO FM DL 2250.0 23 4
NOTES
1. H-O FROM MLX AT 15:06:00
2. MAX EL. 34.0
3. COMM CONFIG DELTA, UHF FREQ 296.8
4. ACQ IN MODE 23; (TV M-A AT BDA);
   CHANGE TO MODE 13 AT MIL LOS
   15:06:43.
JSC#
JSC FORM U137A  DKRU  ,  ,  ,
  ' UHF VOICE SUPPORT DKR '.'
  ' VID 05  SIC 2002  ORB 019  DAY 274  ,
  ' AOS 15:15:17  LOS 15:23:32  ',
  ' MAX EL.  ',
  ' 47.5  ',
  ' NOTES  ',
  ' 1.COMM CONFIG KILO, UHF FREQ 296.8  ',
  '  UHF H-O TO ACW AT 15:23:30  '

JSG#
JSC SCM S 138A  ACNS  ,  ,  ,
VID 05  SIC 2002  ORB 019  DAY 274
AOS 15:23:11  LOS 15:25:40
VEH LINK  FREQ  M  REMARKS
SSO PM UL 2106.4  25H  ' 1,2 '
SSO OD DL 2287.5  05 ',
SSO DF DL 2205.0  M ',
SSO FM DL 2250.0  13 ',
NOTES
  ' 1. M-A  ',
  ' 2. MAX EL. 2.6  ',
  ' 3. COMM CONFIG DELTA, UHF FREQ 296.8;  ',
  '  UHF H-O FROM DKR AT 15:23:30.  '}

A08
JSC
JSC FORM U139A BOTU ,
' UHF VOICE SUPPORT BOT ,
' VID 05 SIC 2002 ORB 019 DAY 274 ,
' AOS 15:32:11 LOS 15:38:02 ,
' MAX EL. ,
' 29.3
' NOTES
' 1. COMM CONFIG KILO. UHF FREQ 296.8
'
JSC
JSC FORM U140A YARU ,
' UHF VOICE SUPPORT YAR ,
' VID 05 SIC 2002 ORB 019 DAY 274 ,
' AOS 15:50:35 LOS 15:58:48 ,
' MAX EL. ,
' 34.1
' NOTES
' 1. COMM CONFIG KILO. UHF FREQ 296.8
'
JSG
JSC SCM S 141A HAWS ,
' VID 08 SIC 2002 ORB 020 DAY 274
AOS 16:16:14 LOS 16:23:02
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H ' 1,2
SSO OD DL 2287.5 05 ' ,
SSO DF DL 2205.0 M ' ,
SSO FM DL 2250.0 13 ' ,
NOTES
' 1. CXR OFF 16:24:30
' 2. MAX EL. 33.4
' 3. COMM CONFIG DELTA. UHF FREQ 296.8
'
NOTES
' 1. 3-WAY SUPPORT WITH GDS AND TUL
' 2. MAX EL. 36.0
' 3. COMM CONFIG CHARLIE.

NOTES
' 1. CXR ON AT 16:24:30
' 2. MAX EL. 38.2
' 3. COMM CONFIG DELTA, UHF FREQ 296.8.
' REMOTE UHF VOICE AT AOS.
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<td>ORBIT 19</td>
<td>H-O BUC-GDS 14:53:00</td>
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<td>HAUS</td>
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<td>H-O MIL-BDA 16:58:30</td>
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BASE DATE: SEP 30, 1981
JSG# 002/RT
JSC SCM S 147A  TULS  , ,
VID 05 SIC 2002 ORB 020 DAY 274
AOS 16:29:00  LOS 16:36:02
VEH LINK  FREQ  M  REMARKS
SS0 PM UL 2106.4  24H ' 1;2 ',
SS0 OD DL 2287.5  03 ',
SS0 DF DL 2205.0  M ',
SS0 FM DL 2250.0  13 ',
NOTES
' 1. H-0 FROM TAK AT 16:32:38  ',
'  H-0 TO MIL AT 16:35:00  ',
' 2. MAX EL. 20.9  ',
' 3. COMM CONFIG DELTA UHF FREQ. 236.8  ',

JSG# 002/RT
JSC SCM S 148A  MILS  , ,
VID 05 SIC 2002 ORB 020 DAY 274
AOS 16:34:29  LOS 16:40:57
VEH LINK  FREQ  M  REMARKS
SS0 PM UL 2106.4  25H ' 1;2 ',
SS0 OD DL 2287.5  05 ',
SS0 DF DL 2205.0  M ',
SS0 FM DL 2250.0  13 ',
NOTES
' 1. H-0 FROM TUL AT 16:35:00  ',
'  H-0 TO MIL AT 16:38:30  ',
' 2. MAX EL. 18.6  ',
' 3. COMM CONFIG DELTA UHF FREQ. 296.8  '
JSG
JSC SCM S 149A  BLT  ,  ,
VID 05  SIC 2002  ORB 020  DAY 274
AOS 16 : 36 : 51  LOS 16 : 39 : 08
VEH LINK  FREQ  M  REMARKS
SS0 PM UL 2106.4  OFF  1,2,4
SS0 OB DL 2287.5  05  
SS0 DF DL 2205.0  M  
SS0 FM DL 2250.0  13  
NOTES
' 1. M-A
' 2. MAX EL. 16.3
' 3. COMM CONFIG CHARLIE.
' 4. NOT SCHEDULED FOR SUPPORT.
'   ENGINEERING TESTING ONLY.

JSG
JSC SCM S 150A  DBAS ,  ,
VID 05  SIC 2002  ORB 020  DAY 274
AOS 16 : 37 : 18  LOS 16 : 45 : 19
VEH LINK  FREQ  M  REMARKS
SS0 PM UL 2106.4  25H  1,2
SS0 OB DL 2287.5  05  3
SS0 DF DL 2205.0  M  
SS0 FM DL 2250.0  13  
NOTES
' 1. H-0 FROM MIL 16:38:30
' 2. MAX EL. 26.6
' 3. COMM CONFIG DELTA, UHF FREQ 296.8
JSG

JSC SCM S 151A ACNS:

VID 05 SIG 2002 ORB 020 DAY 274
AOS 16:53:56 LOS 17:01:30

VEH LINK FREQ M REMARKS
SS0 PM UL 2106.4 25H 1,2
SS0 OD DL 2287.5 05
SS0 DF DL 2205.0 M
SS0 FM DL 2250.0 13

NOTES
1. N-A
2. MAX EL. 55.8
3. COMM CONFIG DELTA, UHF FREQ 296.8

JSC

JSC FORM U152A BOTU:

UHF VOICE SUPPORT BOTU
VID 05 SIG 2002 ORB 020 DAY 274
AOS 17:06:38 LOS 17:11:40

MAX EL.
11.4

NOTES
1. COMM CONFIG KILO, UHF FREQ 296.8
JSC FORM U1530

'UHF VOICE SUPPORT YARU'

'VID 05  SIC 2002  ORB 020  DAY 274'
'AOS 17:24:55  LOS 17:32:34  MAX EL.
'16.0'

'NOTES'

'1. COMM CONFIG KILO, UHF FREQ 296.8'

JSC SCN S 1540

'GMMS'

'VID 05  SIC 2002  ORB 021  DAY 274'
'AOS 17:38:12  LOS 17:44:23'

'VEH LINK  FREQ    M  REMARKS
SSO PM UL 2106.4  25H  '1:2
SSO OD DL 2287.5  05  '
SSO DF DL 2205.0  M  '
SSO FM DL 2250.0  13  '

'NOTES'

'1. N-A'

'2. MAX EL. 09.0*KEYHOLE START 17:38:08  END 17:39:37.'

'3. COMM CONFIG DELTA, UHF FREQ 296.8'
JSG\#  

JSC SCM S 155A  

VID 05  

SIC 2002  

ORB 021  

DAY 274  

AOS 17:52:16  

LOS 17:56:56  

VEH LINK FREQ M  

REMARKS  

SSO PM UL 2106.4  

25H 1,2  

SSO OB DL 2287.5  

05  

SSO DF DL 2205.0  

M  

NOTES  

' 1. CXR OFF 17:58:30  

' 2. MAX EL. 04.2; KEYHOLE START  


' 3. COMM CONFIG DELTA; UHF FREQ 296.8


JSG\#  

JSC SCM S 159A  

BUCS  

VID 05  

SIC 2002  

ORB 021  

DAY 274  

AOS 18:00:26  

LOS 18:08:22  

VEH LINK FREQ M  

REMARKS  

SSO PM UL 2106.4  

24H 1,2  

SSO OB DL 2287.5  

03  

SSO DF DL 2205.0  

M  

NOTES  

' 1. CXR ON AT 17:58:30  

' H-0 TO GDS AT 18:01:30  

' 2. MAX EL 46.6  

' 3. COMM CONFIG CHARLIE.
<table>
<thead>
<tr>
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<th>REMARKS</th>
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<td>1. H-0 FROM BC AT 18:01:30.</td>
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<td>SSO OD DL</td>
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<td>SSO FM DL</td>
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</table>

NOTES
1. H-0 FROM BC AT 18:01:30.
2. MAX EL. 54.7
3. COMM CONFIG DELTA, UHF FREQ. 296.8
4. REMOTE UHF VOICE AT AOS.
NOTES

'1. H-0 FROM TUL AT 18:09:30
' NO HANDBOWER TO BDA SCHEDULED.
'
'2. MAX EL. 28.5
'
'3. COMM CONFIG DELTA, UHF FREQ 296.8
JSG#
JSC SCM S 164A ACNS , , ,
VID 05 SIC 2002 ORB 021 DAY 274
AOS 18 : 30 : 55 LOS 18 : 33 : 27
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H ' 1;2 ',
SSO OD DL 2287.5 05 ', ',
SSO DF DL 2205.0 M ', ',
SSO FM DL 2250.0 13 ', '
NOTES
' 1. N-A ',
' 2. MAX EL. 01.1 ',
' 3. COMM CONFIG DELTA, UHF FREQ 296.8 ',

JSC#
JSC FORM U165A BOTU , , ,
' UHF VOICE SUPPORT BOT ',
' VID 05 SIC 2002 ORB 021 DAY 274 ',
' AOS 18:41:50 LOS 18:44:22 ',
', MAX EL. ',
', 03.3 ',
' NOTES ',
' 1. COMM CONFIG KILO, UHF FREQ 296.8 ',
', 
I

JSC SCM S 166A GWMS
VID 05 SIC 2002 ORB 022 DAY 274
AOS 19:12:11 LOS 19:19:02
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H '1+2'
SSO OD BL 2287.5 05
SSO DF BL 2205.0 M
SSO FM BL 2250.0 13
NOTES
' 1. N-A
' 2. MAX EL 20.2
' 3. COMM CONFIG DELTA, UHF FREQ 296.8

JSC SCM S 170A BUCS
VID 05 SIC 2002 ORB 022 DAY 274
AOS 19:34:42 LOS 19:42:25
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 24H '1+2'
SSO OD BL 2287.5 03
SSO DF BL 2205.0 M
SSO FM BL 2250.0 13
NOTES
' 1. H-O TO GDS AT 19:36:00.
' 2. MAX EL 68.2
' 3. COMM CONFIG CHARLIE.
NOTES
1. H-O FROM BUC AT 19:36:00
2. H-O TO TUL AT 19:40:00
3. MAX EL. 24.7
4. COMM CONFIG DELTA, UHF FREQ. 295.8
5. REMOTE UHF VOICE AT AOS

NOTES
1. H-O FROM GDS AT 19:40:00
2. DXR OFF 19:46:30
3. MAX EL. 16.3
4. COMM CONFIG DELTA UHF FREQ. 296.8.
1. CXR ON AT 19:46:30
2. MAX EL. 20.8
3. COMM CONFIGURATION CHARLIE.

1. COMM CONFIG KILO, UHF FREQ 296.8
NOTES
' 1. NONE
' 2. MAX EL. 02.3.
' 3. COMM CONFIG DELTA, UHF FREQ 296.3
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<td>2416.4</td>
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<td>1+2</td>
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<td>2287.5</td>
<td>05</td>
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<td>M</td>
<td></td>
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<tr>
<td>SSO FM DL</td>
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</tr>
<tr>
<td>NOTES</td>
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<td></td>
<td></td>
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<tr>
<td>1. CXR OFF AT 21:29:31</td>
<td></td>
<td></td>
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<tr>
<td>2. MAX EL. 07.1</td>
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<td>3. COMM CONFIGURATION CHARLIE.</td>
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JSC#

JSC FORM U182A BOTU , , ,
' UHF VOICE SUPPORT BOTU '
' VID 05 SIC 2002 ORB 023 DAY 274 ,
' AOS 21:50:18 LOS 21:56:58 ,
, MAX EL.
, 15.6 ,
' NOTES
' 1. COMM CONFIG KILO ' UHF FREQ 296.8 ,
,

JSG#

JSC SCH S 183A IO2S , , ,
' VID 05 SIC 2002 ORB 023 DAY 274
AOS 21:58:59 LOS 22:06:01
VEH LINK FREQ M REMARKS
SSO PM UL 1831.7 24H ' 1:2 ',
SSO OD DL 2287.5 03 ',
SSO DF DL 2205.0 M ',
SSO FM DL 2250.0 13 ',
NOTES
' 1. W-A ',
' 2. MAX EL. 11.0 ',
' 3. COMM CONFIG DELTA UHF FREQ. 296.8. ',
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</tr>
<tr>
<td>SSO OM DL 2287.5</td>
<td>05</td>
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</tr>
<tr>
<td>SSO DF DL 2250.0</td>
<td>M</td>
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<tr>
<td>SSO FM DL 2250.0</td>
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NOTES

1. N-A
2. MAX EL. 16.3
3. COMM CONFIG IELTO UHF FREQ. 296.8.

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<th>REMARKS</th>
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NOTES

1. N-A
2. MAX EL. 41.2
3. COMM CONFIGURATION CHARLIE.
JSC
JSC FORM A86A
UHF VOICE SUPPORT
VID 05 SIC 2002 ORB 024 DAY 274

MAX EL. 25.7

NOTES
1. COMM CONFIG KILO, UHF FREQ 296.8;

NOTES
1. N-A
2. MAX EL. 16.0
3. COMM CONFIG DELTA UHF FREQ, 296.8.
JSGO
JSC SCN S 189A HAWS , ,
VID 05 SIC 2002 ORB 025 DAY 275
AOS 00 : 10 : 16 LOS 00 : 17 : 26
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H ' 1,2,4 '
SSO OD DL 2207.5 05 '
SSO DF DL 2205.0 M '
SSO FM DL 2250.0 13 '
NOTES
' 1. M-A '
' 2. MAX EL. 21.3 '
' 3. COMM CONFIG DELTA UHF FREQ. 296.8. '

JSGO
JSC SCN S 189A AGOS , ,
VID 05 SIC 2002 ORB 025 DAY 275
AOS 00 : 36 : 54 LOS 00 : 43 : 11
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H ' 1,2 '
SSO OD DL 2207.5 05 '
SSO DF DL 2205.0 M '
SSO FM DL 2250.0 13 '
NOTES
' 1. M-A '
' 2. MAX EL. 27.0 '
' 3. COMM CONFIGURATION CHARLIE. '
JSG# JSC SCM S 190A AGOS , , ,
VID 05 SIC 2002 ORB 026 DAY 275
AOS 02 : 11 : 47 LOS 02 : 17 : 29
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H '1,2,3'
SSO OD DL 2287.5 05 '
SSO DF DL 2205.0 M '
SSO FM DL 2250.0 15 '
NOTES
' 1. N-A
' 2. MAX EL. 08.0
' 3. COMM CONFIGURATION CHARLIE, INHIBIT
' UPLINK VOICE FOR CREW SLEEP PERIOD.

JSG# JSC SCM S 191A AGNS , , ,
VID 05 SIC 2002 ORB 026 DAY 275
AOS 02 : 26 : 23 LOS 02 : 33 : 42
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H '1,2,3'
SSO OD DL 2287.5 05 '
SSO DF DL 2205.0 M '
SSO FM DL 2250.0 15 '
NOTES
' 1. N-A
' 2. MAX EL. 16.0
' 3. COMM CONFIG. DELTA, UHF FREQ 296.8
' INHIBIT UPLINK VOICE FOR CREW
' SLEEP PERIOD.
JSC:
JSC SCM S 192A GWMS
VID 05 SIC 2002 ORB 027 DAY 275
AOS 03: 08: 51 LOS 03: 15: 13
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H ' 1;2 ',
SSO OD DL 2287.5 05 ',
SSO DF DL 2205.0 M ',
SSO FM DL 2250.0 15 ',
NOTES
1. N-A
2. MAX EL. 12.8
3. COMM CONFIG. DELTA. UHF FREQ 296.8
   INHIBIT UPLINK VOICE FOR CREW SLEEP PERIOD.

JSC:
JSC SCM S 193A AGOS
VID 05 SIC 2002 ORB 027 DAY 275
AOS 03: 45: 58 LOS 03: 51: 43
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H ' 1;2 ',
SSO OD DL 2287.5 05 ',
SSO DF DL 2205.0 M ',
SSO FM DL 2250.0 15 ',
NOTES
1. N-A
2. MAX EL. 57.3
3. COMM CONFIGURATION CHARLIE. INHIBIT
   UPLINK VOICE FOR CREW SLEEP PERIOD.
JSC# 002/RT
JSC SCM S 194A  RNNS: , , ,
VID 05  SIC 2002  ORB 027  DAY 275
AOS 04:02:41  LOS 04:07:07
VEH LINK  FREQ  M  REMARKS
SSO PM  DL  2106.4  25H '1,2,3'
SSO OD  DL  2297.5  05 '
SSO DF  DL  2205.0  M '
SSO FM  DL  2250.0  15 '

NOTES
' 1. N-A
' 2. MAX EL. 11.4, KEYHOLE 04:05:37
  END 04:06:26.
' 3. COMM CONFIG, DELTA, UHF FREQ 296.8
  INHIBIT UPLINK VOICE FOR CREW SLEEP
  PERIOD, UHF H-O TO DKR 04:06:31.

JSC# 002/RT
JSC FORM U195A  DKKR:, , ,
' UHF VOICE SUPPORT
' VID 05  SIC 2002  ORB 027  DAY 275
' AOS 04:04:11  LOS 04:10:24
' MAX EL.
' 06.7
'
' NOTES
' 1. COMM CONFIG KILO, UHF FREQ 296.8
' INHIBIT UPLINK VOICE FOR CREW SLEEP
' PERIOD, UHF HANDOVER FROM ACM AT
' 04:06:30

A93
JSG#
JSC SCN S 196A  GWMS , , ,
VID 05  SIC 2002  ORB 028  DAY 275
AOS 04 : 42 : 46  LOS 04 : 49 : 37
VEH LINK FREQ  M  REMARKS
SSO PM UL 2106.4  25H  1,2,3
SSO OD DL 2287.5  05
SSO DF DL 2205.0  M
SSO FM DL 2250.0  15
NOTES
' 1. N-A
' 2. MAX EL. 17.5
' 3. COMM CONFIG. DELTA. UHF FREQ 296.8
'   INHIBIT UPLINK VOICE FOR CREW
'   SLEEP PERIOD.

JSG#
JSC SCN S 197A  AGOS , , ,
VID 05  SIC 2002  ORB 028  DAY 275
AOS 05 : 21 : 04  LOS 05 : 25 : 31
VEH LINK FREQ  M  REMARKS
SSO PM UL 2106.4  25H  1,2,3
SSO OD DL 2287.5  05
SSO DF DL 2205.0  M
SSO FM DL 2250.0  15
NOTES
' 1. N-A
' 2. MAX EL. 10.7
' 3. COMM CONFIGURATION CHARLIE, INHIBIT
'   UPLINK VOICE FOR CREW SLEEP PERIOD.
UHF VOICE SUPPORT

VID 05 SIC 0200 ORB 029 DAY 275
AOS 05:37:14 LOS 05:45:18
MAX EL. 31.0

NOTES
1. COMM CONFIG KILO UHF FREQ 296.8
   INHIBIT UPLINK VOICE FOR CREW SLEEP PERIOD.

VEH LINK FREQ M REMARKS
SSG PM UL 2106.4 25H ' 1:2:3 '
SSG OD BL 2287.5 05 '
SSG DF BL 2205.0 M '
SSC FM BL 2250.0 15 '

NOTES
1. N-A
2. MAX EL. 04.2
3. COMM CONFIG. DELTA. UHF FREQ 296.8
   INHIBIT UPLINK VOICE FOR CREW SLEEP PERIOD.
NOTES

1. N-A

2. MAX EL. 06:7. KEYHOLE START AT
   07:01:19 END 07:02:30.

3. COMM CONFIGURATION CHARLIE, INHIBIT

   UPLINK VOICE FOR CREW SLEEP PERIOD.

NOTES

1. COMM CONFIG KILO, UHF FREQ 296.8

   INHIBIT UPLINK VOICE FOR CREW SLEEP PERIOD.
NOTES

1. M-A
2. MAX EL. 20.6
3. COMM CONFIG. DELTA. UHF FREQ 296.8
   INHIBIT UPLINK VOICE FOR CREW SLEEP PERIOD.

NOTES

1. COMM CONFIG KILO UHF FREQ 296.8
   INHIBIT UPLINK VOICE FOR CREW SLEEP PERIOD.
1. N-A
2. MAX EL. 20.2
3. COMM CONFIGURATION CHARLIE, INHIBIT
   UPLINK VOICE FOR CREW SLEEP PERIOD.
JSG\# 002/RT
JSC SCM S 206A EDAS
VID 05 SIC 0002 ORB 031 DAY 275
AOS 08 : 40 : 44 LOS 08 : 45 : 17
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H 1,2,3
SSO OD DL 2287.5 05
SSO DF DL 2205.0 M
SSO FM DL 2251.0 15
NOTES
' 1. CXR ON 08:39:00
' 2. MAX EL. 04.2.
' 3. COMM CONFIG. DELTA. UHF FREQ 295.8

JSG\# 002/RT
JSC SCM S 206A EDAS
VID 05 SIC 0002 ORB 031 DAY 275
AOS 08 : 51 : 31 LOS 08 : 58 : 15
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H 1,2
SSO OD DL 2287.5 05
SSO DF DL 2205.0 M
SSO FM DL 2251.0 15
NOTES
' 1. N-A
' 2. MAX EL. 42.5
' 3. COMM CONFIG. DELTA. UHF FREQ 296.8
JSC# 002/RT
JSC FORM U208A YARU , , ,
UHF VOICE SUPPORT ,
VID 05 SIC 2002 ORB 031 DAY 275 ,
AOS 09:24.53 LOS 09:33:02 ,
MAX EL. ,
30.0 ,
NOTES ,
1.COMM CONFIG KILO ,UHF FREQ 296.8 ,

JSG# 002/RT
JSC SCM S 209A ORRS , , ,
VID 05 SIC 2002 ORB 031 DAY 275
AOS 09:33:44 LOS 09:38:53
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H 1,2
SSO OD DL 2287.5 05 ,
SSO DF DL 2255.0 M ,
SSO FM DL 2250.0 13 ,
NOTES
1. N-A ,
2. MAX EL. 62.9 ,
3. COMM CONFIGURATION CHARLIE.
NOTES
  1. H-O TO DDA 10:13:30
  2. MAX EL. 15.9, KEYHOLE START AT
     10:14:56 END 10:15:40
  3. COMM CONFIG. DELTA UHF FREQ 296.8

NOTES
  1. H-O FROM KIL 10:13:30
  2. MAX EL. 47.7
  3. COMM CONFIG. DELTA UHF FREQ 296.8
JSG#
JSC SCM S 212A MADR
VID 05 SIC 2002 ORB 032 DAY 275
AOS 10:25:44 LOS 10:31:00
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H '1, 2
SSO OD DL 2287.5 05 '
SSO DF DL 2205.0 M '
SSO FM DL 2250.0 13 '
NOTES
' 1. M-A
' 2. MAX EL. 23.0
' 3. COMM CONFIG, DELTA, UHF FREQ. 296.8

JSG#
JSC SCM S 213A I02S
VID 05 SIC 2002 ORB 032 DAY 275
AOS 10:43:27 LOS 10:51:01
VEH LINK FREQ M REMARKS
SSO PM UL 1831.7 24H '1, 2
SSO OD DL 2287.5 03 '
SSO DF DL 2205.0 M '
SSO FM DL 2250.0 13 '
NOTES
' 1. M-A
' 2. MAX EL. 16.4
' 3. COMM CONFIG, DELTA, UHF FREQ. 296.8
JSC:

JSC FORM U214A  YARU  ,  ,  ,  
' UHF VOICE SUPPORT  ,  ,  
' VID 05  SIC 2002  ORB 032  DAY 275  ,  
' AOS 10:59:07  LOS 11:07:08  ,  
'  MAX EL.  ,  
'  22.2  ,  
' NOTES  ,  
' 1. COMM CONFIG KILO  ,  UHF FREQ 296.8  ,  

JSG:

JSC SCM S 215A  ORRS  ,  ,  ,  
' VID 05  SIC 2002  ORB 032  DAY 275  
' AOS 11:08:49  LOS 11:13:15  
' VEH LINK FREQ  M  REMARKS  
' SSO PM UL 2106.4  25H  1/2  ,  
' SSO OD DL 2207.5  05  ,  
' SSO DF DL 2205.0  M  ,  
' SSO FM DL 2250.0  13  ,  
' NOTES  
' 1. N-A  ,  
' 2. MAX EL. 39.7  ,  
' 3. COMM CONFIGURATION CHARLIE.  ,  

A105
JSC
JSC SCM S 216A TULS, , ,
VID 05 SIC 2002 ORB 033 DAY 275
AOS 11:39:18 LOS 11:44:48
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 24H 1,2 ,
SSO OD DL 2287.5 03 ,
SSO DF DL 2205.0 M ,
SSO FM DL 2250.0 13 ,
NOTES
' 1. H-0 TO MIL AT 11:43:30. ,
' ,
' ,
' 2. MAX EL. 06.7 ,
' 3. COMM CONFIG DELTA. UHF FREQ 296.8 ,

JSG
JSC SCM S 217A MILS, , ,
VID 05 SIC 2002 ORB 033 DAY 275
AOS 11:42:45 LOS 11:50:47
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H 1,2 ,
SSO OD DL 2287.5 05 ,
SSO DF DL 2205.0 M ,
SSO FM DL 2250.0 13 4 ,
NOTES
' 1. H-0 FROM THL AT 11:43:30
' H-0 TO MIL AT 11:48:00
' ,
' 2. MAX EL. 28.0
' 3. COMM CONFIG DELTA: UHF FREQ 296.8
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**NOTES**

1. N-A
2. MAX EL. 11.5
3. COMM CONFIGURATION CHARLIE.
4. NOT SCHEDULED FOR SUPPORT.
   ENGINEERING TESTING ONLY.
NOTES

1. N-A
2. MAX EL. 06.6 KEYHOLE START AT
   12:03:48 END 12:04:28
3. COMM CONFIG DELTA; UHF FREQ. 296.8

NOTES

1. N-A
2. MAX EL. 11.0
3. COMM CONFIG DELTA; UHF FREQ 296.8
JSC FORM U222A

JSC FORM U222A  YARU,  ,  ,
' UHF VOICE SUPPORT YAR ',
' VID 05  SIC 2002  ORB 033  DAY 275 ',
' AOS 12:34:17  LOS 12:41:16 ',
' MAX EL. ',
' 09.7 ',
' NOTES ',
' 1. COMM CONFIG KILO, UHF FREQ 296.8 '}

JSC SCM S 223A

JSC SCM S 223A  ORRS,  ,  ,
' V' 05  SIC 2002  ORB 033  DAY 275
VEH LINK  FREQ  M  REMARKS
SSO PN  DL 2106.4  25H '1,2'
SSO OI  DL 2287.5  05 ',
SSO DF  DL 2205.0  M ',
SSO FM  DL 2250.0  13 ',
NOTES
' 1. N-A ',
' 2. MAX EL. 57.0 ',
' 3. COMM CONFIGURATION CHARLIE. '
NOTES

1. H-O TO GDS AT 13:13:30

2. MAX EL. 13.6

3. COMM CONFIG CHARLIE.

4. TV SUPPORT N-A AT BUC
| JSC SCM S 229A | TULS | | |
| JSC SCM S 230A | BLTS | | |
| VID 05 | SIC 2002 | ORB 034 | DAY 275 |
| AOS 13 : 12 : 11 | LOS 13 : 19 : 50 |
| VEH LINK | FREQ | REMARKS |
| SSO PM UL 2106.4 | 24H 1:2 |
| SSO OD DL 2287.5 | 03 |
| SSO DF DL 2205.0 | M |
| SSO FM DL 2250.0 | 23 4 |

**NOTES**

' 1. H-0 FROM GDS AT 13:16:30
' 2. H-0 TO MIL AT 13:18:30
' 3. MAX EL. 64.3
' 4. COMM CONFIG DELTA, UHF FREQ 296.8
' 5. TV SUPPORT N-A AT TUL.

| JSC SCM S 230A | BLTS | |
| JSC SCM S 229A | TULS | |
| VID 05 | SIC 2002 | ORB 034 | DAY 275 |
| VEH LINK | FREQ | REMARKS |
| SSO PM UL 2106.4 | OFF 1:2:4 |
| SSO OD DL 2287.5 | 05 |
| SSO DF DL 2205.0 | M |
| SSO FM DL 2250.0 | 23 |

**NOTES**

' 1. N-A
' 2. MAX EL. 34.0
' 3. COMM CONFIGURATION CHARLIE.
' 4. NOT SCHEDULED FOR SUPPORT.
' 5. ENGINEERING TESTING ONLY.
JSG# 02/RT
JSC SCM S 231A MLXS , , ,
VID 05 SIC 2002 ORB 034 DAY 275
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H ' 1,2 ,
SSO OD DL 2207.5 05 ,
SSO DF DL 2205.0 M ,
SSO FM DL 2250.0 23 ' 4 ,
NOTES
' 1. H-0 FROM TUL AT 13:18:30. ,
' 2. H-0 TO BDA AT 13:23:08. ,
' 3. MAX EL. 09.4 ,
' 4. COHN CONFIG DELTA, UHF FREQ 296.8. ,
' TV REMOTING REQUIRED (SUB. VTR PLAYBACK) ,

JSG# 02/RT
JSC SCM S 232A BDAS , , ,
VID 05 SIC 2002 ORB 034 DAY 275
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H ' 1,2 ,
SSO OD DL 2207.5 05 ,
SSO DF DL 2205.0 M ,
SSO FM DL 2250.0 23 ' 4 ,
NOTES
' 1. H-0 FROM MIL, 13:23:00. ,
' 2. MAX EL. 19.1 ,
' 3. COMM CONFIG DELTA, UHF FREQ 296.8. ,
' 4. ACQ IN MODE 23; (TV M-A AT BDA); ,
' SWITCH TO MODE 13 AT MIL LOS ,
JSC FORM U233A
'UHF VOICE SUPPORT'
'VID 05 SIC 002 ORB 034 DAY 275'
'AOS 13:33:55 LOS 13:41:10'
'BLACK MAX EL. 12.0'
'NOTES
'1.COMM CONFIG KILO 'UHF FREQ 296.8'

JSC FORM U234A
'UHF VOICE SUPPORT'
'VID 05 SIC 002 ORB 034 DAY 275'
'BLACK MAX EL. 05.8'
'NOTES
'1.COMM CONFIG KILO 'UHF FREQ 296.8'

JSC FORM U235A
'UHF VOICE SUPPORT'
'VID 05 SIC 002 ORB 034 DAY 275'
'AOS 14:08:52 LOS 14:16:15'
'BLACK MAX EL. 12.7'
'NOTES
'1.COMM CONFIG KILO 'UHF FREQ 296.8'
### JSG0

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<tr>
<td>SSO FM DL 2250.0</td>
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**NOTES**

1. N-A
2. MAX EL. 08.8
3. COMM CONFIGURATION CHARLIE.

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### JSG0

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<td>AOS 14 : 34 : 32</td>
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<td>SSO FM DL 2250.0</td>
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**NOTES**

1. Cxr OFF 14:42:30
2. MAX EL. 17.2
3. COMM CONFIG DELTA, UHF FREQ. 296.8
NOTES

1. CXR ON AT 14:42:31. H-0 TO GDS AT 14:45:00.

2. MAX EL. 83.5

3. COMM CONFIG CHARLIE.

NOTES

1. H-0 FROM BUC AT 14:45:00

2. MAX EL. 67.0

3. COMM CONFIG DELTA; UHF FREQ. 296.8.

REMOTE UHF VOICE AT AOS AND H-0 TO TUL AT 14:51:00.
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<th>Rem</th>
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<td>MLXS</td>
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JSG# 002/RT

JSC SCN S 245A BLTS, , ,
VID 05 SIC 2002 ORB 035 DAY 275
AOS 14:55:01 LOS 14:58:56
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 OFF '1,2,4'
SSO OD DL 2287.5 05 '
SSO DF DL 2205.0 M '
SSO FM DL 2250.0 13 '
NOTES
'1. N-A
'2. MAX EL. 40.6
'3. COMM CONFIG CHARLIE.
'4. NOT SCHEDULED FOR SUPPORT.

JSG# 002/RT

JSC SCN S 246A BLAS, , ,
VID 05 SIC 2002 ORB 035 DAY 275
AOS 14:55:22 LOS 15:03:38
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H '1,2'
SSO OD DL 2287.5 05 '
SSO DF DL 2205.0 M '
SSO FM DL 2250.0 13 '
NOTES
'1. H-O FROM MIL AT 14:5:00.
'2. MAX EL. 50.8
'3. COMM CONFIG DELTA, UHF FREQ. 296.8
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<td>' VID 05 SIC 2002 ORB 035 DAY 275</td>
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<td>' AOS 15:07:43 LOS 15:15:33</td>
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<td>' UHF H-O TO ACN AT 15:14:30.</td>
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<td>' AOS 15:14:14 LOS 15:18:58</td>
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<td>' 1. N-A</td>
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<td>' 2. MAX EL. 7.7</td>
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<td>' 3. COMM CONFIG DELTA; UHF FREQ. 296.8</td>
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<td>' UHF H-O FROM DKR AT 15:14:30.</td>
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JSG#
JSC SCM S 251A  HAWS , , }
VID 05  SIC 2002  ORB 036  DAY 275
AOS 16 : 08 : 45  LOS 16 : 15 : 20
VEH LINK  FREQ  M  REMARKS
SSO PM  UL 2106.4  25H ' 1;2 '
SSO OB  DL 2287.5  05 ' , '
SSO DF  DL 2205.0  M ' , '
SSO FM  DL 2250.0  13 ' , '
NOTES
' 1. CXR OFF 16:17:00 '
' 2. MAX EL. 18.7 '
' 3. COMM CONFIG DELTA, UHF FREQ. 296.8 '

JSG#
JSC SCM S 255A  BUCS , , }
VID 05  SIC 2002  ORB 036  DAY 275
AOS 16 : 18 : 31  LOS 16 : 26 : 19
VEH LINK  FREQ  M  REMARKS
SSO PM  UL 2106.4  24H ' 1;2 '
SSO OB  DL 2287.5  03 ' , '
SSO DF  DL 2205.0  M ' , '
SSO FM  DL 2250.0  13 ' , '
NOTES
' 1. CXR ON AT 16:17:18. H-0 TO GDS AT ' 16:19:30 '
' 2. MAX EL. 21.6. '
' 3. COMM CONFIG CHARLIE.
JSC SCM S 256A GDSS , , ,
VID 05 SIC 2002 ORB 036 DAY 275
AOS 16 : 18 : 57 LOS 16 : 25 : 46
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H '1,2 ',
SSO OD DL 2287.5 05 ',
SSO DF DL 2205.0 M ',
SSO FM DL 2250.0 13 ',
NOTES
'1. H-O FROM RUC AT 16:19:30 ',
'2. MAX EL. 36.6 ',
'3. COMM CONFIG DELTA, UHF FREQ 296.8, '.

JSC SCM S 257A TULS , , ,
VID 05 SIC 2002 ORB 036 DAY 275
AOS 16 : 21 : 20 LOS 16 : 28 : 25
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 24H '1,2 ',
SSO OD DL 2287.5 03 ',
SSO DF DL 2205.0 M ',
SSO FM DL 2250.0 13 ',
NOTES
'1. H-O FROM GDS AT 16:25:00 ',
'2. MAX EL. 22.7 ',
'3. COMM CONFIG DELTA, UHF FREQ 296.8'
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NOTES

1. H-O FROM TUL AT 16:27:30
2. H-O TO BDA AT 16:33:00
3. MAX EL. 33.3
4. COMM CONFIG DELTA, UHF FREQ 296.8
<table>
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<td>LOS 16:53:32</td>
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<td>SSO FM DL 2250.0</td>
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**NOTES**
1. N-A
2. MAX EL. 18.6
3. COMM CONFIG DELTA, UHF FREQ. 296.8

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<tr>
<td>UHF VOICE SUPPORT BOT</td>
<td>VID 05 SIC 2002 ORB 036 DAY 275</td>
<td>AOS 16:58:59</td>
<td>LOS 17:03:01 MAX EL. 08.5</td>
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**NOTES**
1. COMM CONFIG KILO, UHF FREQ 296.8

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<td>AOS 17:17:32</td>
<td>LOS 17:24:18 MAX EL. 08.9</td>
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**NOTES**
1. COMM CONFIG KILO, UHF FREQ 296.8

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**A124**
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**Activities**

- H-O BUC-GDS 13:13:30
- H-O GDS-TUL 13:16:30
- H-O TUL-MIL 13:18:30
- H-O MIL-BDA 13:23:00

- H-O BUC-GDS 14:45:00
- H-O GDS-TUL 14:51:00
- H-O TUL-MIL 14:53:45
- H-O MIL-BDA 14:59:00

- H-O BUC-GDS 16:19:30
- H-O GDS-TUL 16:25:00
- H-O TUL-MIL 16:27:30
- H-O MIL-BDA 16:33:00
JSG# 002/RT
JSC SCM S 263R GWMS , , ,
VID 05 SIC 2002 ORB 037 DAY 275
AOS 17 : 29 : 57 LOS 17 : 37 : 05
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H ' 1:2
SSO OD DL 2287.5 05 ' ,
SSO DF DL 2205.0 M ' ,
SSO FM DL 2250.0 13 ' ,
NOTES
' 1. N-A
' 2. MAX EL. 20.8
' 3. COMM CONFIG DELTA, UHF FREQ 296.8'

JSG# 002/RT
JSC SCM S 264R HAWS , , ,
VID 05 SIC 2002 ORB 037 DAY 275
AOS 17 : 47 : 03 LOS 17 : 48 : 52
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H ' 1:2
SSO OD DL 2287.5 05 ' ,
SSO DF DL 2205.0 M ' ,
SSO FM DL 2250.0 01 ' ,
NOTES
' 1. CXR OFF 17:51:30
' 2. MAX EL. 02.6; KEYHOLE START AT
' 17:47:21 END 17:48:15
' 3. COMM CONFIG DELTA, UHF FREQ. 296.8'

A126
NOTES

1. H-O TO GDS ON RTC CUE (BASED ON GDS' PM D-L SIGNAL STRENGTH)
2. MAX EL. 63.1
3. COMM CONFIG CHARLIE
4. SSO ANT PATTERN TEST. EXPECT INTERMITTENT PM-FM DROPOUTS (IE: PM AOS 1 MIN; LOS 2 MIN; FM 90 SEC CYCLIC)
NOTES

1. HANDOVERS ON RTC CUE; (BASED ON PM DOWNLINK SIGNAL STRENGTH)
2. MAX EL. 84.2
3. COMM CONFIG DELTA; UHF FREQ 296.8
4. SSO ANT PATTERN TEST. EXPECT INTERMITTENT PM-FM DROPOUTS (IE: PM AOS 1 MIN; LOS 2 MIN; FM 90 SEC CYCLIC)
NOTES

' 1. COMM CONFIG KILO, UHF FREQ 296.8'

NOTES

' 1. COMM CONFIG DELTA, UHF FREQ 296.8'
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**NOTES**

1. H-O TO GDS AT 19:28:00
2. MAX EL. 18.9
3. COMM CONFIG CHARLIE.

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**NOTES**

1. H-O FROM BUC AT 19:28:00
2. MAX EL. 10.6
3. COMM CONFIG DELTA, UHF FREQ. 296.8
   REMOTE UHF VOICE AT AOS.
JSG0
JSC SCM S 276A TULS
VID 05 SIC 2002 ORB 038 DAY 275
AOS 19:30:04 LOS 19:36:30
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 24H 1:2
SSO OB DL 2207.5 03
SSO DF DL 2205.0 M
SSO FM DL 2250.0 13
NOTES
'1. H-O FROM GDS AT 19:30:30'
'2. CXR OFF AT 19:36:30'
'3. COMM CONFIG DELTA, UHF FREQ 296.8'

JSG0
JSC SCM S 277A QUIS
VID 05 SIC 2002 ORB 038 DAY 275
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H 1:2
SSO OB DL 2207.5 05
SSO DF DL 2205.0 M
SSO FM DL 2250.0 13
NOTES
'1. CXR ON AT 19:38:30'
'2. MAX EL. 54.6'
'3. COMM CONFIG CHARLIE
SSO Antenna pattern test.
BUC-GDS-TUL-MIL H-0 on RTC
cues based on D/L signal
strength.

H-O BUC-GDS 19:28:00
H-O GDS-TUL 19:30:30
JSC
JSC FORM U278A BOTU ; ,
' UHF VOICE SUPPORT BOT ',
' VID 05 SIC 2002 ORB 038 DAY 275 ',
' AOS 20:08:27 LOS 20:13:10 ',
' MAX EL. ',
' 05.2 ',
' NOTES ',
' 1. COMM CONFIG KILO, UHF FREQ 296.8 '

JSG
JSC SCM S 279A HAWS ; ,
' VID 05 SIC 2002 ORB 039 DAY 275 ',
' AOS 20:55:37 LOS 20:58:34 ',
' VEH LINK FREQ M REMARKS ',
' SSO PM UL 2106.4 25H 1:2 ',
' SSO OD DL 2287.5 05 ',
' SSO DF DL 2205.0 M ',
' SSO FM DL 2250.0 13 ',
' NOTES ',
' 1. N-A ',
' 2. MAX EL. 02.2, KEYHOLE START AT ',
' 20:55:52 END 20:56:39 ',
' 3. COMM CONFIG DELTA, UHF FREQ 296.8 ',
J561 002'RT
JSC SCM S 280A QUIS, , ,
VID 05 SIC 2002 ORB 039 DAY 275
AOS 21:17:19 LOS 21:19:54
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H '1,2 ,
SSO OD DL 2287.5 05 ,
SSO BF DL 2205.0 M ,
SSO FM DL 2250.0 13 ,
NOTES
'1. CXR OFF RT 21:21:00 ,
'2. MAX EL. 02.5 ,
'3. COMM CONFIG CHARLIE ,

J561 002/RT
JSC SCM S 281A AGOS , , ,
VID 05 SIC 2002 ORB 039 DAY 275
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H '1,2 ,
SSO OD DL 2287.5 05 ,
SSO BF DL 2205.0 M ,
SSO FM DL 2250.0 13 ,
NOTES
'1. CXR ON AT 21:21:00 ,
'2. MAX EL. 04.79 KEYHOLE START AT ,
'3. COMM CONFIG CHARLIE.
JSC#
JSC FORM U282A BOTU ,
' UHF VOICE SUPPORT BOT 
' VID 05 SIC 2002 ORB 039 DAY 275 
' AOS 21:42:36 LOS 21:49:27 
' MAX EL. 
' 24.0 
' NOTES 
' 1. COMM CONFIG KILO, UHF FREQ 296.8 

JSG#
JSC SCM S 283A I02S ,
' VID 05 SIC 2002 ORB 039 DAY 275 
' AOS 21:50:49 LOS 21:58:38 
' VEH LINK FREQ M REMARKS 
' SSO PM UL 1831.7 24H ' 1,2 
' SSO OD IL 2287.5 03 
' SSO DF IL 2205.0 M 
' SSO FM IL 2250.0 13 
' NOTES 
' 1. N-A 
' 2. MAX EL. 22.7 
' 3. COMM CONFIG DELTA, UHF FREQ 296.8
JS6t
JSC SCM S 284A
VID 05
AOS 22 : 28 : 16
VEH LINK FREQ
SSO PM UL 2106.4
SSO OD DL 2247.5
SSO DF DL 2285.0
SSO FM DL 2250.0
NOTES
' 1. N-A
' 2. MAX EL. 28.2
' 3. COMM CONFIG DELTA, UHF FREQ 296.8

JS6t
JSC SCM S 285A
VID 05
AOS 22 : 55 : 17
VEH LINK FREQ
SSO PM UL 2106.4
SSO OD DL 2247.5
SSO DF DL 2285.0
SSO FM DL 2250.0
NOTES
' 1. N-A
' 2. MAX EL. 83.1
' 3. COMM CONFIG CHARLIE
JSC#
JSC FORM U206A DOTU,
' UHF VOICE SUPPORT DOT ',
' VID 05 SIC 2002 ORB 040 DAY 275 ',
' AOS 23:17:00 LOS 23:20:05 ',
' MAX EL. ',
' 11.4 ',
' NOTES ',
' 1. COMM CONFIG KILO, UHF FREQ 296.8 ',

JSG#
JSC SCM S 287A IO2S,
' VID 05 SIC 2002 ORB 040 DAY 275 ',
' AOS 23:25:35 LOS 23:31:56 ',
' VEH LINK FREQ M ',
' REMARKS ',
' SS0 PM UL 1831.7 24H 1:2 ',
' SS0 OD DL 2207.5 03 ',
' SS0 DF DL 2205.0 M ',
' SS0 FM DL 2250.0 13 ',
' NOTES ',
' 1. M-A ',
' 2. MAX EL. 07.4 ',
' 3. COMM CONFIG DELTA, UHF FREQ 296.8 ',
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<tr>
<td>VID 05 SIC 2002 ORB 041 DAY 276</td>
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<tr>
<td>AOS 00:29:13 LOS 00:35:23</td>
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<td>VEH LINK FREQ M REMARKS</td>
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<td>SSO PM UL 2106.4 25H 1:2</td>
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<td>SSO OD DL 2287.5 05</td>
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<td>SSO DF DL 2205.0 M</td>
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<td>SSO FM DL 2250.0 13</td>
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<td>NOTES</td>
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<td>1. N-A</td>
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<td>2. MAX EL. 23.3</td>
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<tr>
<td>3. COMM CONFIG CHARLIE</td>
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NOTES

1. M/A

2. MAX EL. 26.2

3. COMM CONFIG CHARLIE, INHIBIT UPLINK
   VOICE FOR CREW SLEEP PERIOD.

NOTES

1. M/A

2. MAX EL. 35.0

3. COMM CONFIG DELTA, UHF FREQ 296.8
   INHIBIT UPLINK VOICE FOR CREW SLEEP PERIOD.
NOTES

1. M-A
2. MAX EL. 24.6
3. COMM CONFIG DELTA; INHIBIT UPLINK VOICE FOR CREW SLEEP PERIOD.
JSC SCM S 294A  ACNS ,
VID 05 SIC 2002 ORB 043 DAY 276
AOS 03 : 54 : 47 LOS 03 : 58 : 10
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H ' 1:2 '
SSO OD DL 2287.5 05 '
SSO DF DL 2205.0 M '
SSO FM DL 2250.0 15 '
NOTES
' 1. W-A '
' 2. MAX EL. 4.8'
' 3. COMM CONFIG DELTA, UHF FREQ 296.8 '
' INHIBIT UPLINK VOICE FOR CREW SLEEP '
' PERIOD.'

JSC#
JSC FORM U2958 DKR;
' UHF VOICE SUPPORT DKR '
' VID 05 SIC 2002 ORB 043 DAY 276 '
' AOS 03:55:41 LOS 04:03:05 '
' MAX EL. '
' 14.1 '
' NOTES
' 1. COMM CONFIG KILO, UHF FREQ 296.8 '
' INHIBIT UPLINK VOICE FOR CREW SLEEP .'

A142
JSC SCR S 296A  GWNS  ,  ,  
VIB 05  SIC 2002  ORB 044  DAY 276  
AOS 04 : 35 : 35  LOS 04 : 41 : 05  
VEH LINK  FREQ  M  REMARKS  
SSO PM UL 2106.4  25H  ' 1,2  ,  
SSO OD DL 2287.5 05  ,  
SSO DF DL 2205.0  M  ,  
SSO FM DL 2250.0  15  ,  
NOTES  
' 1. M-A  
' 2. MAX EL. 08.3; MASKING START AT  
' 04:40:01, END 04:40:45.  
' 3. COMM CONFIG DELTA, UHF FREQ 296.8  
'  INHIBIT UPLINK VOICE FOR CREW SLEEP PERIOD.
' UHF VOICE SUPPORT UHR ',
' VID 05 SIC 2002 ORB 045 DAY 276 ',
' AOS 05:29:40 LOS 05:37:11 ',
' MAX EL. 15.4 ',
' NOTES ',
' 1. COMM CONFIG KILO, UHF FREQ 296.8 ',
'   INHIBIT UPLINK VOICE FOR CREW SLEEP. '}

' VEH LINK FREQ M REMARKS ',
' SSO PM UL 2106.4 25H 1-2 ',
' SSO QD DL 2287.5 05 ',
' SSO DF DL 2205.0 M ',
' SSO FM DL 2250.0 15 ',
' NOTES ',
' 1. NONE ',
' 2. MAX EL. 07.4, EXPECT EXTENSIVE DATA DROP OUTS DUE TO MASKING. ',
' 3. COMM CONFIG DELTA, UHF FREQ 296.8 ',
'   INHIBIT UPLINK VOICE FOR CREW SLEEP PERIOD. '}

A145
JSC SCI S 301A QUIE, , ,
VID 05 SIC 2002 ORB 045 DAY 276
AOS 06 : 49 : 12 LOS 06 : 54 : 57
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H ' 1+2 ',
SSO OD DL 2287.5 05 ',
SSO DF DL 2205.0 M ',
SSO FM DL 2250.0 15 ',
NOTES
1. NONE
2. MAX EL. 15.9
3. COMM CONFIG CHARLIE; INHIBIT UPLINK;
   VOICE FOR CREW SLEEP PERIOD.

JSC SCI S 301A MABS , , ,
VID 05 SIC 2002 ORB 046 DAY 276
AOS 07 : 09 : 34 LOS 07 : 16 : 09
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H ' 1+2 ',
SSO OD DL 2287.5 05 ',
SSO DF DL 2205.0 M ',
SSO FM DL 2250.0 15 ',
NOTES
1. NONE
2. MAX EL. 26.1
3. COMM CONFIG DELTA; UHF FREQ. 296.8;
   INHIBIT UPLINK VOICE FOR CREW SLEEP;
   PERIOD.
JSC# 002/RT
JSC FORM U342A YARU, UHF VOICE SUPPORT YAR,
' VID 05 SIC 2002 ORB 046 DAY 276
' AOS 07:44:37 LOS 07:49:53
' MAX EL. 03.9
' NOTES
' 1. COMM CONFIG KILO, UHF FREQ 296.8
' 2. INHIBIT UPLINK VOICE FOR CREW SLEEP.

JSC# 002/RT
JSC SCM S 303A ORRS ,
' VID 05 SIC 2002 ORB 046 DAY 276
' AOS 07:51:20 LOS 07:57:00
' VEH LINK FREQ M REMARKS
' SSO PM UL 2106.4 25H '1,2
' SSO OD DL 2287.5 05 ',
' SSO DF DL 2205.0 M ',
' SSO FM DL 2250.0 15 ',
' NOTES
' 1. NONE
' 2. MAX EL. 31.
' 3. COMM CONFIG CHARLIE; INHIBIT UPLINK
' 4. VOICE FOR CREW SLEEP PERIOD.
JSC\# 002/RT
JSC SCM S 304A QUIS ; , ,
VID 05 SIC 2002 ORB 046 DAY 276
AOS 08 : 24 : 09 LOS 08 : 29 : 43
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H '1:2',
SSO OD DL 2287.5 05 ',
SSO DF DL 2205.0 M ',
SSO FM DL 2250.0 15 ',
NOTES
' 1. NONE ,
' 2. MAX EL. 09.3 ,
' 3. COMM CONFIG CHARLIE, INHIBIT UPLINK ,
' VOICE FOR CREW SLEEP PERIOD.

JSC\# 002/RT
JSC SCM S 305A MILS ; , ,
VID 05 SIC 2002 ORB 047 DAY 276
AOS 08 : 29 : 40 LOS 08 : 32 : 31
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H '1:2 ',
SSO OD DL 2287.5 05 ',
SSO DF DL 2205.0 M ',
SSO FM DL 2250.0 00 ',
NOTES
' 1. H-0 TO 1DA AT 08:31:45. ,
' 2. MAX EL. 01.0 ,
' 3. COMM CONFIG DELTA; UHF FREQ.296.8 ,
' INHIBIT UPLINK VOICE FOR CREW SLEEP PERIOD.
JSC SCM S 306A BDAS , , ,
VID 05 SIC 2002 ORB 047 DAY 276
AOS 08 : 31 : 16 LOS 08 : 37 : 51
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H ' 1,2 ,
SSO OD DL 2287.5 05 ' ,
SSO DF DL 2265.0 M ' ,
SSO FM DL 2250.0 15 ' ,
NOTES
' 1. H-0 FROM MIL 08:31:45 ,
' 2. MAX EL. 07.6,KEYHOLE START AT ,
' 08:32:36 END 08:33:03 ,
' 3. COMM CONFIG DELTA, UHF FREQ.296.8. '
' INHIBIT UPLINK VOICE FOR CREW SLEEP ,
' PERIOD.

JSC SCM S 307A M A D S , , ,
VID 05 SIC 2002 ORB 047 DAY 276
AOS 08 : 43 : 42 LOS 08 : 50 : 27
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H ' 1,2 ,
SSO OD DL 2287.5 05 ' ,
SSO DF DL 2265.0 M ' ,
SSO FM DL 2250.0 13 ' ,
NOTES
' 1. NONE ,
' 2. MAX EL. 43.1 ,
' ,
' 3. COMM CONFIG DELTA, UHF FREQ.296.8. '

A149
JSC FORM U308A  YARU,  
' UHF VOICE SUPPORT YAR ' 
' VID 05  SIC 2002  ORB 047  DAY 276 ' 
' AOS 09:16:51  LOS 09:25:12 ' 
' MAX EL. ' 
' 60.6 ' 
' NOTES ' 
' 1. COMM CONFIG KILO, UHF FREQ 296.8 ' 

JSC FORM U308A  ORRS,  
' UHF VOICE SUPPORT ORRS ' 
' VID 05  SIC 2002  ORB 047  DAY 276 ' 
' AOS 09:26:15  LOS 09:30:56 ' 
' VEH LINK FREQ  M  REMARKS ' 
' SSO PM DL 2106.4  25H 1;2 ' 
' SSO OM DL 2287.5  05 ' 
' SSO DF DL 2205.0  M ' 
' SSO FM DL 2250.0  13 ' 
' NOTES ' 
' 1. NONE ' 
' 2. MAX EL. 51.6 ' 
' 3. COMM CONFIG CHARLIE '
JSG#
JSC SCM S 310A MILS,
VIB 05 SIC 2002 ORB 048 DAY 276
AOS 10:00:42 LOS 10:08:45
VEH LINK FREQ
SSO PM UL 2106.4 25H '1:2
SSO OD DL 2287.5 05
SSO DF DL 2205.0 M
SSO FM DL 2250.0 13
NOTES
' 1. H-O TO BDA AT 10:07:00.
' 2. MAX EL. 35.4
' 3. COMM CONFIG DELTA, UHF FREQ. 296.8.

JSG#
JSC SCM S 311A BDDAS,
VIB 05 SIC 2002 ORB 048 DAY 276
AOS 10:04:22 LOS 10:12:33
VEH LINK FREQ
SSO PM UL 2106.4 25H '1:2
SSO OD DL 2287.5 05
SSO DF DL 2205.0 M
SSO FM DL 2250.0 13
NOTES
' 1. H-O FROM MIL 10:07:00
' 2. MAX EL. 86.5
' 3. COMM CONFIG DELTA, UHF FREQ. 296.8.
JSG#
JSC SCM S 312A MADS , , ,
VID 05 SIC 2002 ORB 048 DAY 276
AOS 10 : 17 : 53 LOS 10 : 23 : 29
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H ' 1,2 ,
SSO OD DL 2287.5 05 ,
SSO DF DL 2205.0 M ,
SSO FM DL 2250.0 13 ,
NOTES
' 1. NONE ,
' 2. MAX EL. 20.0 ,
' 3. COMM CONFIG DELTA, UHF FREQ 296.8 .

JSG#
JSC SCM S 313A 102S , , ,
VID 05 SIC 2002 ORB 048 DAY 276
AOS 10 : 35 : 14 LOS 10 : 43 : 20
VEH LINK FREQ M REMARKS
SSO FM UL 1831.7 24H ' 1,2 ,
SSO OD DL 2287.5 03 ,
SSO DF DL 2205.0 M ,
SSO FM DL 2250.0 13 ,
NOTES
' 1. N-A ,
' 2. MAX EL. 38.1 ,
' 3. COMM CONFIG DELTA, UHF FREQ 296.8
JSC\# 002/RT

JSC FORM U314R YARU
' UHF VOICE SUPPORT YAR '
' VID 05 SIC 2002 ORB 048 DAY 276 '
' AOS 10:51:27 LOS 10:59:10 '
' MAX EL. 16.4 '
' NOTES '
' 1.COMM CONFIG KILO, UHF FREQ 296.8 '

JSG\# 002/RT

JSC SCN S 315A ORRS
' VID 05 SIC 2002 ORB 048 DAY 276 '
' AOS 11:00:55 LOS 11:05:30 '
' VEH LINK FREQ M REMARKS '
' SSO PM UL 2106.4 25H '1:2 '
' SSO OR DL 2287.5 05 '
' SSG DF DL 2205.0 M '
' SSO FM DL 2250.0 13 '
' NOTES '
' 1. NONE '
' 2. MAX EL. 41.2 '
' 3. COMM CONFIG CHARLIE"
JSG\# 002/RT
JSC SCM S 316A TULS
VID 05 SIC 2002 ORB 049 DAY 276
AOS 11:30:48 LOS 11:37:20
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 24H 1:2
SSO OD DL 2287.5 03
SSO DF DL 2205.0 M
SSO FM DL 2250.0 13

NOTES
1. H-0 TO MIL AT 11:36:04
2. MAX EL. 11.8
3. COMM CONFIG DELTA, UHF FREQ. 296.8

JSG\# 002/RT
JSC SCM S 317A BUCS
VID 05 SIC 2002 ORB 049 DAY 276
AOS 11:31:59 LOS 11:33:22
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 OFF 1:2
SSO OD DL 2287.5 03
SSO DF DL 2205.0 M
SSO FM DL 2250.0 13

NOTES
1. 3-WAY SUPPORT WITH TUL.
2. MAX EL. 00.6
3. COMM CONFIG DELTA, UHF FREQ. 296.8
JSG# 002/RT
JSC SCM S 318A MILS
VID 05 SIC 2002 ORB 049 DAY 276
AOS 11:35:02 LOS 11:42:49
VEH LINK FREQ M
REMARKS
SSO PH UL 2106.4 25H 1,2
SSO OD DL 2287.5 05
SSO DF DL 2205.0 M
SSO FM DL 2250.0 13
NOTES
1. H-O FROM TUL AT 11:36:00
2. H-O TO BDA AT 11:41:00
3. MAX EL. 19.1
4. COMM CONFIG DELTA, UHF FREQ 296.8.

JSG# 002/RT
JSC SCM S 319A BDAS
VID 05 SIC 2002 ORB 049 DAY 276
AOS 11:38:46 LOS 11:46:40
VEH LINK FREQ M
REMARKS
SSO PH UL 2106.4 25H 1,2
SSO OD DL 2287.5 05
SSO DF DL 2205.0 M
SSO FM DL 2250.0 13
NOTES
1. H-O FROM KIL 11:41:00
2. MAX EL. 21.4
3. COMM CONFIG DELTA, UHF FREQ 296.8.
002/RT

JSG:

JSC SCM S 320A BLTS , , ,

VID 05 SIC 2002 ORB 049 DAY 276

AOS 11 : 39 : 28 LOS 11 : 43 : 34

VEH LINK FREQ M REMARKS

SSO PM UL 2106.4 OFF 1 ; 2

SSO OD DL 2287.5 05

SSO DF DL 2285.0 M

SSO FM DL 2250.0 13

NOTES

1. NONE

2. MAX EL. 21.7

3. COMM CONFIG DELTA; UHF FREQ. 296.8.

4. NOT SCHEDULED FOR SUPPORT

---

JSG:

JSC SCM S 321A KADS , , ,

VID 05 SIC 2002 ORB 049 DAY 276

AOS 11 : 52 : 39 LOS 11 : 56 : 00

VEH LINK FREQ M REMARKS

SSO PM UL 2106.4 25H 1 ; 2

SSO OD DL 2287.5 05

SSO DF DL 2285.0 M

SSO FM DL 2250.0 13

NOTES

1. NONE

2. MAX EL. 04.0

3. COMM CONFIG DELTA; UHF FREQ. 296.8.
NOTES

1. N-A
2. MAX EL. 05.0
3. COMM CONFIG DELTA, UHF FREQ 296.8
JSG#
JSC SCM S 324A ORRS ; ; ;
VID 05 SIC 2002 ORB 049 DAY 276
AOS 12 : 34 : 49 LOS 12 : 39 : 15
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H ' 1,2 '
SSO OD DL 2287.5 05 ;
SSO DF DL 2205.0 M ;
SSO FM DL 2250.0 13 ;
NOTES
' 1. NONE
' 2. MAX EL. 38.8
' 3. COMM CONFIG CHARLIE

JSG#
JSC SCM S 325A BUCS ; ; ;
VID 05 SIC 2002 ORB 050 DAY 276
AOS 13 : 02 : 18 LOS 13 : 09 : 55
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 24H ' 1,2 '
SSO OD DL 2287.5 03 ;
SSO DF DL 2205.0 M ;
SSO FM DL 2250.0 13 ;
NOTES
' 1. H-O TO GDS AT 13:05:30
' 2. MAX EL. 21.3
' 3. COMM CONFIG CHARLIE.
NOTES

1. H-O FROM GDS AT 13:09:00
2. MAX EL. 69.9
3. COMM CONFIG DELTA UHF FREQ. 296.8
NOTES
' 1. H-O FROM TUL AT 13:11:45
' H-O TO BDA AT 13:14:00
' 2. MAX EL. 08.2, MASKING START AT
' 13:11:03 END 13:11:24
' 3. COMM CONFIG DELTA, UHF FREQ. 296.8

NOTES
' 1. NONE
' 2. MAX EL. 36.1
' 3. COMM CONFIG CHARLIE.
' 4. NOT SCHEDULED FOR SUPPORT;
' ENGINEERING TESTING ONLY.
NOTES
1. H-O FROM MIL 13:14:00
2. MAX EL. 21.1
3. COMM CONFIG DELTA; UHF FREQ. 296.8.

NOTES
1. COMM CONFIG KILO; UHF FREQ 296.8
2. MAX EL. 22.3
3. COMM CONFIG KILO; UHF FREQ 296.8
JSC#  
JSC FORM U333A  YARU , , ,  
' UHF VOICE SUPPORT YAR ' 
' VID 05 SIC 2002 ORB 050 DAY 276 , 
' AOS 14:00:55  LOS 14:08:34 , 
' , 
' MAX EL. ' 
' , 
' 15.9 ' 
' NOTES ' 
' 1.COMM CONFIG KILO, UHF FREQ 296.8 ' 

JSG#  
JSC SCM S 334A  ORRS , , ,  
VID 05 SIC 2002 ORB 050 DAY 276 
AOS 14:09:40  LOS 14:11:17  
VEH LINK FREQ M REMARKS 
SSO PM UL 2106.4  25H ' 1,2 ' 
SSO OB DL 2287.5  05 ' , ' 
SSO DF DL 2205.0  M ' , ' 
SSO FM DL 2250.0  13 ' , ' 
NOTES ' 
' 1. NOWE ' 
' 2. MAX EL. 05.2 ' 
' 3. COMM CONFIG CHARLIE ' 
' , ' 

A164
NOTES

1. CXR OFF AT 14:35:00
2. MAX EL. 35.6

3. COMM CONFIG DELTA, UHF FREQ 296.8
4. TV REMOTING REQUIRED (SUB: VTR, PLAYBACK)

NOTES

1. CXR ON AT 14:35:00
2. MAX EL. 56.9
3. COMM CONFIG CHARLIE.
4. TV SUPPORT N-A AT BUC
### JSG

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<tr>
<td>AOS 14 : 36 : 38</td>
<td>LOS 14 : 43 : 30</td>
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<td>SSO DF DL 2205.0</td>
<td>M</td>
</tr>
<tr>
<td>SSO FN DL 2250.0</td>
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**NOTES**

1. H-0 FROM GDS AT 14:37:30
2. H-0 TO TUL AT 14:43:00
3. MAX EL. 54.6
4. TV REMOTING REQ (SUB: VTR PLAYBACK)

### JSG

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<td>SSO FN DL 2250.0</td>
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**NOTES**

1. H-0 FROM GDS AT 14:43:00
2. H-0 TO MIL AT 14:45:15
3. MAX EL. 21.6
4. TV SUPPORT M-A AT TUL.
NOTES

1. H-0 FROM TUL AT 14:45:15
2. MAX EL. 12.0
3. COMM CONFIG DELTA, UHF FREQ. 296.8
4. TV REMOTING REQUIRED (SUB: VTR, PLAYBACK)

NOTES

1. NONE
2. MAX EL. 34.4
3. COMM CONFIG CHARLIE.
4. NOT SCHEDULED FOR SUPPORT; ENGINEERING TESTING ONLY.
NOTES
1. H-O FROM MIL 14:50:00
2. MAX EL. 85.3
3. COMM CONFIG DELTA, UHF FREQ 296.8
4. ACQ IN MODE 23; (TU M-A AT BDA);
   SWITCH TO MODE 13 AT MIL LOS
   14:52:00.

NOTES
1. COMM CONFIG KILO, UHF FREQ 296.8
   UHF H-O TO ASC AT 15:04:30
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NOTES
1. M-0
2. MAX EL. 17.4
3. COMM CONFIG DELTA, UHF FREQ 296.8
   UHF H-0 FROM DKR AT 15:04:30

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NOTES
1. COMM CONFIG KILO, UHF FREQ 296.8
JSC®
JSC FORM U345A YARU
' UHF VOICE SUPPORT YAR '
' VID 05 SIC 2002 ORB 051 DAY 276 '
' AOS 15:34:53 LOS 15:43:11 MAX EL. '
' 64.4 '
' NOTES '
' 1. COMM CONFIG KILO; UHF FREQ 296.8 '

JSC®
JSC SCM S 346A HAWS
' VID 05 SIC 2002 ORB 052 DAY 276 '
' AOS 16:01:11 LOS 16:07:10 '
' VEH LINK FREQ M REMARKS '
' SSO PM UL 2106.4 25H '1:2' '
' SSO DF DL 2287.5 05 '
' SSO FM DL 2205.0 M '
' SSO FM DL 2250.0 13 '
' NOTES '
' 1. CXR OFF AT 16:08:30 '
' 2. MAX EL. 11.6 '
' 3. COMM CONFIG DELTA; UHF FREQ 296.8 ' 
JSG1
JSC SCM S 347A BUUS , , , ,
VID 05 SIC 2002 ORB 052 DAY 276
AOS 16:10:34 LOS 16:18:24
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 24H '1,2 ,
SSO OD DL 2287.5 03 , ,
SSO DF DL 2205.0 M , ,
SSO FM DL 2250.0 13 , ,
NOTES
' 1. CXR ON AT 16:08:30 ,
' 2. MAX EL. 34.0 ,
' 3. COMM CONFIG CHARLIE.

JSG2
JSC SCM S 348A GDSS , , , ,
VID 05 SIC 2002 ORB 052 DAY 276
AOS 16:11:03 LOS 16:17:53
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H '1,2 ,
SSO OD DL 2287.5 05 , ,
SSO DF DL 2205.0 M , ,
SSO FM DL 2250.0 13 , ,
NOTES
' 1. H-O FROM BUC AT 16:11:30 ,
' 2. MAX EL. 37.7 ,
' 3. COMM CONFIG DELTA, UHF FREQ. 296.8 ,
' REMOTE UHF AT AOS,
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<td>SSO FM DL 2250.0</td>
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NOTES

1. H-O FROM GDS 16:16:30
2. H-O TO M2L AT 16:19:30
3. COMM CONFIG DELTA UHF FREQ. 296.8
JSC SCM S 351A BDAS

VID 05 SIC 2002 ORB 052 DAY 276
AOS 16:22:00 LOS 16:28:50

VEH LINK FREQ M REMARKS
SSO PH UL 2106.4 25H '1:2'
SSO OD DL 2287.5 05 '
SSO DF DL 2205.0 M '
SSO FM DL 2250.0 13 '

NOTES
' 1. N-O FROM MIL 16:24:30 '
' 2. MAX EL. 01.8 '
' 3. COMM CONFIG DELTA, UHF FREQ 296.8'
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<td>276:12:48</td>
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<td>H-O MIL-BDA 13:14:00</td>
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**BASE DATE: SEP 30, 1981**
JSC#
JSC FORM U353A Botu ; ,
' UHF VOICE SUPPORT BOT ' ;
' VID 05 SIC 2002 ORB 052 DAY 276 ' ;
' AOS 16:51:35 LOS 16:54:52 ' ;
' MAX EL. 06.1 ' ;
' NOTES ' ;
' 1.COMM CONFIG KILO, UHF FREQ 296.8 ' ;

JSC$
JSC FORM U354A Yaru ; ,
' UHF VOICE SUPPORT YAR ' ;
' VID 05 SIC 2002 ORB 052 DAY 276 ' ;
' AOS 17:10.07 LOS 17:15:29 ' ;
' MAX EL. 04.1 ' ;
' NOTES ' ;
' 1.COMM CONFIG KILO, UHF FREQ 296.8 ' ;
NOTES
' 1. N-A
' 2. MAX EL. 00.4
' 3. COMM CONFIG DELTA, UHF FREQ 296.8
' 4. NOT SCHEDULED FOR THIS PASS.
NOTES
' 1. H-0 TO GDS AT 17:46:00
' 2. MAX EL. 82.7
' 3. COMM CONFIG CHARLIE.

NOTES
' 1. H-0 FROM DUC AT 17:46:00
' 2. MAX EL. 62.0
' 3. COMM CONFIG DELTA; UHF FREQ. 296.8
' REMOTE UHF VOICE AT AOS.
NOTES

1. H-O FROM GDS 17:51:30
2. MAX EL. 51.4
3. COMM CONFIG DELTA, UHF FREQ 296.8
NOTES

1. H-0 FROM MLX AT 17:59:50
2. MAX EL. 03.9i; MASKING STARTS AT
   18:01:04 ENDS AT 18:01:32
3. COMM CONFIG CHARLIE

NOTES

1. COMM CONFIG KILO, UHF FREQ 296.8
2. MAX EL. 05.4
   KEYHOLE STARTS AT
   19:01:12 ENDS AT 19:02:17
3. COMM CONFIG DELTA, UHF FREQ 296.8
NOTES

1. CXR ON AT 19:18:00
2. MAX EL. 12.0
3. COMM CONFIG CHARLIE.

NOTES

1. H-0 FROM BUC AT 19:20:30
2. MAX EL. 07.9; KEYHOLE STARTS AT 19:23:00
3. COMM CONFIG DELTA, UHF FREQ. 296.8 REMOTE UHF VOICE AT AOS.
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**NOTES**
1. H-O FROM GDS 19:23:00
2. MAX EL. 05.1
3. COMM CONFIG DELTA UHF FREQ. 296.8.
NOTES
1. M-A
2. MAX EL. 06.6
3. COMM CONFIG DELTA, UHF FREQ 296.8
JSC# 002/RT
JSC SCM S 371A AGOS , , ,
VID 05 SIC 2002 ORB 055 DAY 276
AOS 21 : 13 : 00 LOS 21 : 18 : 05
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H ' 1,2 ',
SSO OD DL 2287.5 05 ',
SSO DF DL 2205.0 M ',
SSO FM DL 2250.0 13 ',
NOTES
' 1. N-A ',
' 2. MAX EL. 14.4 ',
' 3. COMM CONFIG CHARLIE '

JSC# 002/RT
JSC FORM V372A BOTU , , ,
' UHF VOICE SUPPORT DOT ',
' VID 05 SIC 2002 ORB 055 DAY 276 ',
' AOS 21:34:30 LOS 21:41:42 ',
' MAX EL. ',
' 40.2 ',
' NOTES ',
' 1.COMM CONFIG KILO; UHF FREQ 296.8 '

JSC# 002/RT
JSC SCM S 373A IO2S , , ,
VID 05 SIC 2002 ORB 055 DAY 276
VEH LINK FREQ M REMARKS
SSO PM UL 1831.7 24H ' 1,2 ',
SSO OD DL 2287.5 03 ',
SSO DF DL 2205.0 M ',
SSO FM DL 2250.0 13 ',
NOTES
' 1. N-A ',
' 2. MAX EL. 60.0 ',
' 3. COMM CONFIG DELTA; UHF FREQ 296.8 '
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<td>22:47:15</td>
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<td>'3. COMM CONFIG DELTA: UHF FREQ 296.9'</td>
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</table>
NOTES

1. N-A

2. MAX EL. 02.1; MASKING STARTS AT 23:19:23 ENDS AT 23:20:03

3. COMM CONFIG DELTA, UHF FREQ 296.8

NOTES

1. CKR OFF AT 00:02:00

2. MAX EL. 05.2

3. COMM CONFIG DELTA, UHF FREQ 296.8.

INHIB: UPLINK VOICE FOR CREW SLEEP PERIOD.
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<td><strong>AOS 00 : 21 : 38</strong></td>
<td><strong>LOS 00 : 27 : 21</strong></td>
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JSG®
JSC SCM S 381A GWMS , , ,
VID 05 SIC 2002 ORB 058 DAY 277
AOS 01 : 20 : 25 LOS 01 : 23 : 15
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H ' 1:2 ',
SSO OI DL 2287.5 05 ',
SSO DF DL 2205.0 M ',
SSO FM DL 2250.0 15 ',
NOTES
' 1. N-A ',
' 2. MAX EL. 02.6 ',
' 3. COMM CONFIG DELTA; UHF FREQ 296.8.
' INHIBIT UPLINK VOICE FOR CREW SLEEP PERIOD. '}

JSG®
JSC SCM S 382A AGOS , , ,
VID 05 SIC 2002 ORB 058 DAY 277
AOS 01 : 55 : 55 LOS 02 : 01 : 39
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H ' 1:2 ',
SSO OI DL 2287.5 05 ',
SSO DF DL 2205.0 M ',
SSO FM DL 2250.0 15 ',
NOTES
' 1. N-A ',
' 2. MAX EL. 31.9 ',
' 3. COMM CONFIG CHARLIE; INHIBIT UPLINK
' VOICE FOR CREW SLEEP PERIOD. 
JSG#
JSC SCM S 383A  ACMS ,  
VID 05  SIC 2002 ORB 058 DAY 277
AOS 02 : 10 : 24  LOS 02 : 18 : 08
VEH LINK  FREQ  M  REMARKS
SSO PM UL 2106.4  25H  '1:2
SSO OD DL 2207.5  05
SSO DF DL 2205.0  M
SSO FM DL 2250.0  15
NOTES
' 1. N-A
' 2. MAX EL. 76.0
' 3. COMM CONFIG DELTA+ UHF FREQ 296.8
'    INHIBIT UPLINK VOICE FOR CREW SLEEP
'    PERIOD.

---

JSG#
JSC SCM S 384A  GWMS ,  
VID 05  SIC 2002 ORB 059 DAY 277
AOS 02 : 52 : 35  LOS 02 : 59 : 55
VEH LINK  FREQ  M  REMARKS
SSO PM UL 2106.4  25H  '1:2
SSO OD DL 2207.5  05
SSO DF DL 2205.0  M
SSO FM DL 2250.0  15
NOTES
' 1. N-A
' 2. MAX EL. 58.2
' 3. COMM CONFIG DELTA+ UHF FREQ 296.8
'    INHIBIT UPLINK VOICE FOR CREW SLEEP
'    PERIOD.
NOTES
' 1. N-A
' 2. MAX EL. 28.9
' 3. COMM CONFIG CHARLIE, INHIBIT UPLINK, VOICE FOR CREW SLEEP PERIOD.

NOTES
' 1. COMM CONFIG KILO, UHF FREQ 296.8, INHIBIT UPLINK VOICE FOR CREW SLEEP PERIOD.

NOTES
' 1. N-A
' 2. MAX EL. 03.1
' 3. COMM CONFIG DELTA, UHF FREQ 296.8, INHIBIT UPLINK VOICE FOR CREW SLEEP PERIOD.
NOTES

1. N-A

2. MAX EL. 02.2

3. COMM CONFIG CHARLIE. INHIBIT UPLINK VOICE FOR CREW SLEEP PERIOD.

NOTES

1. N-A

2. MAX EL. 02.2

3. COMM CONFIG CHARLIE. INHIBIT UPLINK VOICE FOR CREW SLEEP PERIOD.
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**NOTES**

1. N-A
2. MAX EL. 34.6
3. COMM CONFIG CHARLIE. INHIBIT UPLINK
VOICE FOR CREW SLEEP PERIOD
JSG®

JSC SCM S 394A ORRS ; 

VID 05 SIC 2002 ORB 062 DAY 277

AOS 07 : 43 : 05 LOS 07 : 48 : 53

VEH LINK FREQ M REMARKS

SSO PM UL 2106.4 25H ' 1,2 

SSO OD DL 2287.5 05 ' 

SSO DF DL 2205.0 M ' 

SSO FM DL 2250.0 13 ' 

NOTES

' 1. NONE 

' 2. MAX EL. 45.6 

' 3. COMM CONFIG CHARLIE.

JSG®

JSC SCM S 395A QUIS ; 

VID 05 SIC 2002 ORB 063 DAY 277

AOS 08 : 18 : 38 LOS 08 : 20 : 30

VEH LINK FREQ M REMARKS

SSO PM UL 2106.4 25H ' 1,2 

SSO OD DL 2287.5 05 ' 

SSO DF DL 2205.0 M ' 

SSO FM DL 2250.0 13 ' 

NOTES

' 1. H-0 TO MIL AT 08:20:15 

' 2. MAX EL. 03.0. 

' 3. COMM CONFIG CHARLIE.
NOTES
1. H-O FROM QUI AT 03:20:15
2. H-O TO BDA AT 08:23:30
3. COMM CONFIG DELTA, UHF FREQ. 296.0

NOTES
1. H-O FROM MIL AT 08:23:30
2. MAX EL. 14.6
3. COMM CONFIG DELTA, UHF FREQ. 296.0
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**NOTES**

1. N/A
2. MAX EL. 39.4
3. COMM CONFIG DELTA, UHF FREQ 296.8
4. TV REMOTING REQUIRED; (SUB: PRINTER, MESSAGE REMOVAL)

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**NOTES**

1. N/A
2. MAX EL. 02.1
3. COMM CONFIG DELTA, UHF FREQ 296.8

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**NOTES**

1. COMM CONFIG KILO, UHF FREQ 296.8
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AOS 09 : 56 : 11  LOS 10 : 04 : 23
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SSO PM UL 2106.4  25H ' 1,2 ,
SSO OD DL 2287.5  05 ,
SSO DF DL 2205.0  M ,
SSO FM DL 2250.0  13 ,
NOTES
1. N-A
2. MAX EL. 53.5
3. COMM CONFIG DELTA; UHF FREQ 296.8

JSG
JSC SCM S 404A DLTS ,
VID 05 SIC 2002 ORB 064 DAY 277
AOS 09 : 57 : 37  LOS 10 : 00 : 41
VEH LINK FREQ  M  REMARKS
SSO PM UL 2106.4  OFF ' 1,2,4 ,
SSO OD DL 2287.5  05 ,
SSO DF DL 2205.0  M ,
SSO FM DL 2250.0  13 ,
NOTES
1. N-A
2. MAX EL. 10.2
3. COMM CONFIG CHARLIE.
4. NOT SCHEDULED FOR SUPPORT;
   ENGINEERING TESTING ONLY.
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A201
JSG#
JSC SCM S 408A ORRS,
VID 05 SIC 2002 ORB 064 DAY 277
AOS 10:52:47 LOS 10:57:25
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H '1,2',
SSO OD DL 2287.5 05',
SSO DF DL 2205.0 M',
SSO FM DL 2250.0 13',
NOTES
' 1. NONE',
' 2. MAX EL. 51.2',
' 3. COMM CONFIG CHARLIE.

JSG#
JSC SCM S 409R DUCS,
VID 05 SIC 2002 ORB 065 DAY 277
AOS 11:22:08 LOS 11:26:37
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 24H '1,2',
SSO OD DL 2287.5 03',
SSO DF DL 2205.0 M',
SSO FM DL 2250.0 13',
NOTES
' 1. H-O TO TUL AT 11:24:00',
' 2. MAX EL. 03.7',
' 3. COMM CONFIG CHARLIE
JSG#
JSC SCm S 410A TULS ,
VID 05 SIC 2002 ORB 065 DAY 277
AOS 11 : 22 : 18 LOS 11 : 29 : 26
VEH LINK FREQ M REMARKS
SS0 PH UL 2106.4 24H ' 1,2 ,
SS0 OD DL 2287.5 03 ,
SS0 DF DL 2205.0 M ,
SS0 FM DL 2250.0 13 ,
NOTES
' 1. H-O FROM BUC AT 11:24:00 ,
' 2. MAX EL. 19.2 ,
' 3. COMM CONFIG DELTA, UHF FREQ 296.8 ,

JSG#
JSC SCm S 411A MILS ,
VID 05 SIC 2002 ORB 065 DAY 277
FOS 11 : 27 : 10 LOS 11 : 34 : 37
VEH LINK FREQ M REMARKS
SS0 PH UL 2106.4 25H ' 1,2 ,
SS0 OD DL 2287.5 05 ,
SS0 DF DL 2205.0 M ,
SS0 FM DL 2250.0 13 ,
NOTES
' 1. H-O FROM TUL AT 11:28:30 ,
' 2. MAX EL. 14.2 ,
' 3. COMM CONFIG DELTA, UHF FREQ 296.8
JSC 412A BDAS,

VID 05 SIC 2001 ORB 065 DAY 277
AOS 11:30:46 LOS 11:38:33
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H 1:2
SSO OD DL 2287.5 05
SSO DF DL 2205.0 M
SSO FM DL 2250.0 13
NOTES
1. M-O FROM MIL AT 11:32:00
2. MAX EL. 19.1
3. COMM CONFIG DELTA, UHF FREQ 296.8

JSC 413A BLTS,

VID 05 SIC 2002 ORB 065 DAY 277
AOS 11:31:02 LOS 11:35:27
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 OFF 1:2:4
SSO OD DL 2287.5 05
SSO DF DL 2205.0 M
SSO FM DL 2250.0 13
NOTES
1. M-A
2. MAX EL. 26.6
3. COMM CONFIG CHARLIE.
4. NOT SCHEDULED FOR SUPPORT;
   ENGINEERING TESTING ONLY.

JSC FORM U41A DKRU,

VID 05 SIC 2001 ORB 065 DAY 277
AOS 11:45:00 LOS 11:49:11
MAX EL.
02.4
NOTES
1. COMM CONFIG KILO, UHF FREQ 296.8
JSG#
JSC SCM S 415A MADS , , ,
VID 05 SIC 2002 ORB 065 DAY 277
AOS 11:45:38 LOS 11:47:35
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H '1:2
SSO OD DL 2287.5 05 '
SSO DF DL 2205.0 M '
SSO FM DL 2250.0 13 '
NOTES
' 1. N-A
' 2. MAX EL. 01.3; TERRAIN MASKING START
' AT 11:46:16, END AT 11:46:38
' 3. COMM CONFIG CHARLIE.

JSG#
JSC SCM S 416A IO2S , , ,
VID 06 SIC 2002 ORB 065 DAY 277
AOS 12:03:47 LOS 12:06:47
VEH LINK FREQ M REMARKS
SSO PM UL 1831.7 24H '1:2
SSO OD DL 2287.5 03 '
SSO DF DL 2205.0 M '
SSO FM DL 2250.0 13 '
NOTES
' 1. N-A
' 2. MAX EL. 01.2
' 3. COMM CONFIG DELTA, UHF FREQ 296.8

JSC#
JSC FORM U417A YARU , , ,
' UHF VOICE SUPPORT YAR
' VID 05 SIC 2002 ORB 065 DAY 277
' AOS 12:18:34 LOS 12:25:30
' MAX EL.
' 09.6
' NOTES
' 1. COMM CONFIG KILO, UHF FREQ 296.8
JSG# 002/RT

JSC SCM S 418A ORRS, , ,
VID 05 SIC 2002 ORB 065 DAY 277
AOS 12:26:33 LOS 12:30:58
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H '1;2 ,
SSO OD DL 2287.5 05 ,
SSO DF DL 2205.0 M ,
SSO FM DL 2250.0 13 ,
NOTES
’ 1. NONE ,
’ 2. MAX EL. 24.6 ,
’ 3. COMM CONFIG CHARLIE. ,

JSG# 002/RT

JSC SCM S 419A HAWS, , ,
VID 05 SIC 2002 ORB 066 DAY 277
AOS 12:45:57 LOS 12:49:27
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H '1;2 ,
SSO OD DL 2287.5 05 ,
SSO DF DL 2205.0 M ,
SSO FM DL 2250.0 13 ,
NOTES
’ 1. N-A ,
’ 2. MAX EL. 03.0 ,
’ 3. COMM CONFIG DELTA; UHF FREQ 296.8.
SSO PM UL 2106.4 24H '1:2
SSO OD DL 2287.5 03
SSO DF DL 2205.0 M
SSO FM DL 2250.0 13

NOTES
1. H-0 TO GDS AT 12:56:30
2. MAX EL. 33.9
3. COMM CONFIG CHARLIE

NOTES
1. HANDOVER FROM BUC AT 12:56:30
2. HANDOVER TO TUL AT 13:00:30
3. COMM CONFIG DELTA, UHF FREQ 296.8
### NOTES

1. H-0 FROM GUS AT 13:00:30
2. MAX EL. 43.8
3. COMM CONFIG DELTA, UHF FREQ 296.8
JSC SCM S 424A

VID 05  SIC 2002  ORB 066  DAY 277
AOS 13:04:44  LOS 13:09:26

VEH LINK  FREQ  M  REMARKS
SSO PM UL 2106.4  OFF  1, 2, 4
SSO OD DL 2287.5  05
SSO DF DL 2205.0  M
SSO FM DL 2250.0  13

NOTES
1. N-A
2. MAX EL. 37.4
3. COMM CONFIG CHARLIE.
4. NOT SCHEDULED FOR SUPPORT;
   ENGINEERING TESTING ONLY.

JSC SCM S 425A

VID 05  SIC 2002  ORB 066  DAY 277
AOS 13:05:10  LOS 13:13:12

VEH LINK  FREQ  M  REMARKS
SSO PM UL 2106.4  25H  1, 2
SSO OD DL 2287.5  05
SSO DF DL 2205.0  M
SSO FM DL 2250.0  13

NOTES
1. H-O FROM MIL AT 13:08:00
2. MAX EL. 24.9
3. COMM CONFIG DELTA, UHF FREQ 296.8

JSC FORM U426A

VID 05  SIC 2002  ORB 066  DAY 277

MAX EL.
51.3

NOTES
1. COMM CONFIG KILO, UHF FREQ 296.8
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<td>' AOS 13:35:11 LOS 13:39:55 '</td>
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JSG:

JSC SCM S 430A  BUCS , , ,
VID 05  SIC 2002  ORB 067  DAY 277
AOS 14:28:04  LOS 14:35:59
VEH LINK  FREQ  M  REMARKS
SSO PM UL 2106.4  24H  '1:2'
SSO OD DL 2287.5  03 '
SSO DF DL 2205.0  M '
SSO FM DL 2250.0  23 '4'
NOTES
' 1. H-O TO GDS AT 14:30:00 '
' 2. SAS Cl. 43.2 '
' 3. COMM CONFIG CHARLIE '
' 4. TV SUPPORT N-A AT BUC '

JSG:

JSC SCM S 431A  GDSS , , ,
VID 05  SIC 2002  ORB 067  DAY 277
AOS 14:28:33  LOS 14:35:18
VEH LINK  FREQ  M  REMARKS
SSO PM UL 2106.4  25H  '1:2'
SSO OD DL 2287.5  05 '
SSO DF DL 2205.0  M '
SSO FM DL 2250.0  23 '4'
NOTES
' 1. H-O FROM BUC AT 14:30:00 '
' 2. MAX EL. 43.9 '
' 3. COMM CONFIG DELTA; UHF FREQ 296.8 '
' REMOTE UHF VOICE AT AOS. '
' 4. TV REMOTING REQUIRED; (SUB: MEAL '
' PREPARATION)
NOTES
1. H-O FROM GDS AT 14:34:30
2. H-O TO MIL AT 14:37:00
3. MAX EL. 20.3
4. COMM CONFIG DELTA, UHF FREQ 296.8
5. TV SUPPORT N-A AT TUL.
JSC
JSC SCM 434A BLIS
VID 05 SIC 2002 ORB 067 DAY 277
AOS 14:38:56 LOS 14:41:04
VEH LINK FREQ M REMARKS
SS0 PM UL 2106.4 OFF 1,2,4
SS0 OD DL 2287.5 05
SS0 DF DL 2205.0 M
SS0 FM DL 2250.0 23
NOTES
1. N-A
2. MAX EL. 25.1
3. COMM CONFIG CHARLIE.
4. NOT SCHEDULED FOR SUPPORT:
   ENGINEERING TESTING ONLY.

JSC
JSC SCM 435A BDHS
VID 05 SIC 2002 ORB 067 DAY 277
AOS 14:39:15 LOS 14:47:31
VEH LINK FREQ M REMARKS
SS0 PM UL 2106.4 25H 1,2
SS0 OD DL 2287.5 05
SS0 DF DL 2205.0 M
SS0 FM DL 2250.0 23
NOTES
1. N-O FROM MIL AT 14:42:00
2. MAX EL. 51.8
3. COMM CONFIG DELTA, UHF FREQ 296.8
4. ACO IN MODE 23 (TU N-A AT BDA):
   SWITCH TO 13 AT MIL LOS 14:44:08

JSC
JSC FORM U436A DKRU
' UHF VOICE SUPPORT DKR
' VID 05 SIC 2002 ORB 067 DAY 277
' AOS 14:52:43 LOS 14:58:02
' MAX EL.
' 04.0
' NOTES
' 1. COMM CONFIG KILO, UHF FREQ 296.8
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NOTES
1. N/A
2. MAX EL. 40.4
3. COMM CONFIG DELTA, UHF FREQ 296.8

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NOTES
1. COMM CONFIG KILO, UHF FREQ 296.8

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NOTES
1. COMM CONFIG KILO, UHF FREQ 296.8
NOTES
1. N-A
2. MAX EL. 03.1; MASKING START AT 15:42:54; END AT 15:43:04
3. COMM CONFIG DELTA, UHF FREQ 296.8

NOTES
1. CXR OFF AT 16:00:30
2. MAX EL. 07.5
3. COMM CONFIG DELTA, UHF FREQ 296.8
NOTES

1. H-0 TO GDS AT 16:04:00

2. MAX EL 37.2

3. COMM CONFIG CHARLIE

NOTES

1. H-0 FROM BUC AT 16:04:00

2. MAX EL 42.1

3. COMM CONFIG DELTA, UHF FREQ 296.8

REMOTE UHF VOICE AT AOS.
NOTES

1. H-0 FROM TUL AT 16:11:30
2. MAX EL. 33.9
3. COMM CONFIG DELTA, UHF FREQ 296.8
NOTES
1. M-O FROM MIL AT 16:18:00
2. MAX EL. 04.7
3. COMM CONFIG DELTA, UHF FREQ 296.8

NOTES
1. N-A
2. MAX EL. 05.4
3. COMM CONFIG DELTA, UHF FREQ 296.8

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1. COMM CONFIG KILO, UHF FREQ 296.8
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JSC# 002/RT
JSC FORM U449A YARU , UHF VOICE SUPPORT YAR, VID 05 SIC 2002 ORB 068 DAY 277, AOS 17:03:17 LOS 17:05:35, MAX EL. 00.5, NOTES 1. COMM CONFIG KILO, UHF FREQ 296.8

JSG# 002/RT
JSC SCM S 450A GWMS, VID 05 SIC 2002 ORB 069 DAY 277, AOS 17:03:17 LOS 17:21:08, VEH LINK FREQ M REMARKS SSO PM UL 2106.4 25H 1.2, SSO OD DL 2287.5 05, SSO DF DL 2205.0 M, SSO FM DL 2250.0 13, NOTES 1. N-A, 2. MAX EL. 52.4, 3. COMM CONFIG DELTA, UHF FREQ 296.8

JSG# 002/RT
JSC SCM S 451A BUCS, VID 05 SIC 2002 ORB 069 DAY 277, AOS 17:36:34 LOS 17:44:26, VEH LINK FREQ M REMARKS SSO PM UL 2106.4 24H 1.2, SSO OD DL 2287.5 03, SSO DF DL 2205.0 M, SSO FM DL 2250.0 23 4, NOTES 1. H-O TO GDS AT 17:38:00, 2. MAX EL. 53.2, 3. COMM CONFIG CHARLIE, 4. TV SUPPORT N-A AT BUC
NOTES
1. H-O FROM DUC AT 17:38:00
2. H-O TO TUL AT 17:43:00
3. MAX EL. 39.9
4. COMM CONFIG DELTA; UHF FREQ 296.8
   REMOTE UHF VOICE AT AOS.
5. TV REMOTE REQUIRED! (SUB: EVA)
   DEMO)
JSC SCM S 454A MILS

VID 05 SIC 2002 ORB 069 DAY 277
AOS 17:45:43 LOS 17:50:22

VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H '1:2
SSO OD DL 2287.5 05 '
SSO DF DL 2205.0 M '
SSO FM DL 2250.0 23 '4

NOTES
1. H-O FROM TUL AT 17:46:00
2. CYR. OFF AT 17:50:25
3. COMM CONFIG DELTA, UHF FREQ 296.8
4. TV REMOTING REQUIRED, (SUB: EVA DEMO)

JSC SCM S 455A QUIS

VID 05 SIC 2002 ORB 069 DAY 277
AOS 17:50:29 LOS 17:54:40

VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H '1:2
SSO OD DL 2287.5 05 '
SSO DF DL 2205.0 M '
SSO FM DL 2250.0 13 '

NOTES
1. CYR ON AT 17:50:25
2. MAX EL. 08.0
3. COMM CONFIG CHARLIE

JSC SCM S 456A BDUU

VID 05 SIC 2002 ORB 069 DAY 277
AOS 18:18:40 LOS 18:20:32

VEH VOICE SUPPORT BOT
NOTES
1. COMM CONFIG KILO, UHF FREQ 296.8
JSG#

JSC SCM S 457A GWMS , , ,
VID 05 SIC 2002 ORB 070 DAY 277
AOS 18 : 51 : 33 LOS 18 : 52 : 18
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H ' 1,2 ',
SSO OD DL 2287.5 05 ',
SSO DF DL 2205.0 M ',
SSO FM DL 2250.0 13 ',
NOTES
' 1. N-A ',
' 2. MAX EL. 02.1 ',
' 3. COMM CONFIG DELTA; UHF FREQ 296.8 ',

NOTES
' 1. N-A ',
' 2. MAX EL. 00.9 ',
' 3. COMM CONFIG DELTA; UHF FREQ 296.8 ',
' 4. NOT SCHEDULED FOR THIS PASS. ',

A224
NOTES

' 1. H-O TO GDS AT 19:13:30
' 2. MAX EL. 7.2
' 3. COMM CONFIG CHARLIE.

NOTES

' 1. H-O FROM BUC AT 19:13:30
' 2. MAX EL. 05.8 MASKING START AT
' 3. COMM CONFIG DELTA, UHF FREQ. 296.8
SSO UL 2106.4 24H ' 1,2
SSO OD DL 2287.5 03
SSO DF DL 2205.0 M
SSO FM DL 2250.0 13

NOTES
' 1. CXR ON AT 19:15:00
' 2. MAX EL. 01.6
' 3. COMM CONFIG DELTA, UHF FREQ 296.8
JSC FORM U463A  BOTU ,  
' UHF VOICE SUPPORT BOT ' 
' VID 05  SIC 2002 ORB 070  DAY 277 ' 
' AOS 19:52:10  LOS 19:56:10 '  
' MAX EL. ' 
' 10.2 ' 
' NOTES ' 
' 1. COMM CONFIG KILO, UHF FREQ 296.8 ' 

JSC# 
JSC SCM S 464R 1025 ,  
' VID 05  SIC 2002 ORB 070  DAY 277 ' 
' AOS 20 : 03 : 02  LOS 20 : 06 : 59 ' 
' VEH LINK FREQ  M  REMARKS ' 
' SS0 PM UL 1831.7  24H ' 1:2 ' 
' SS0 OD DL 2287.5  03 ' 
' SS0 DF DL 2205.0  M ' 
' SS0 FM DL 2250.0  13 ' 
' NOTES ' 
' 1. N-A ' 
' 2. MAX EL. 04.0 ' 
' 3. COMM CONFIG DELTA, UHF FREQ 296.8 ' 

JSC# 
JSC SCM S 465A 1025 ,  
' VID 05  SIC 2002 ORB 071  DAY 277 ' 
' AOS 20 : 39 : 03  LOS 20 : 44 : 17 ' 
' VEH LINK FREQ  M  REMARKS ' 
' SS0 PM UL 2106.4  25H ' 1:2 ' 
' SS0 OD DL 2287.5  05 ' 
' SS0 DF DL 2205.0  M ' 
' SS0 FM DL 2250.0  13 ' 
' NOTES ' 
' 1. N-A ' 
' 2. MAX EL. 09.6 ' 
' 3. COMM CONFIG DELTA, UHF FREQ 296.8 ' 

A227
JSC SCM S 466A AGCS
VID 05 SIC 2002 ORB 071 DAY 277
AOS 21:04:23 LOS 21:10:26
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H 1,2
SSO OD DL 2287.5 05
SSO DF DL 2205.0 M
SSO FM DL 2250.0 13

NOTES
1. N-A
2. MAX EL. 23.3
3. COMM CONFIGURATION CHARLIE

JSC FORM U4678 BOTTU
' UHF VOICE SUPPORT BOTT ',
' VID 05 SIC 2002 ORB 071 DAY 277 ',
' AOS 21:26:27 LOS 21:33:22 ',
' MAX EL. 47.5 ',
' NOTES ',
' 1. COMM CONFIG KILO, UHF FREQ 296.8 '

JSC SCM S 468A IO2S
VID 05 SIC 2002 ORB 071 DAY 277
VEH LINK FREQ M REMARKS
SSO PM UL 1831.7 24H 1,2
SSO OD DL 2287.5 03
SSO DF DL 2205.0 M
SSO FM DL 2250.0 13

NOTES
1. N-A
2. MAX EL. 42.5
3. COMM CONFIG DELTA, UHF FREQ 296.8
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<td>SSO</td>
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<td>SSO</td>
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**NOTES**

1. N-A
2. MAX EL. 53.3
3. COMM CONFIG DELTA, UHF FREQ 296.8
NOTES
'1. N-A
'2. MAX EL. 21.8
'3. COMM CONFIGURATION CHARLIE.
'INHIBIT UPLINK VOICE FOR CREW SLEEP PERIOD.
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Crew sleep period from 277/23:45 to 278/07:35
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<tr>
<td>SSO</td>
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NOTES

1. N-A
2. MAX EL. 40.5
3. COMM CONFIGURATION CHARLIE.
   INHIBIT UPLINK VOICE FOR CREW SLEEP
   PERIOD.
NOTES
1. N-A
2. MAX EL. 26.6; KEYHOLE START AT 02:08:03, END AT 02:09:12
3. COMM CONFIG DELTA, UHF FREQ 296.8
   UHF H-0 TO DKR AT 02:09:30.
   INHIBIT UPLINK VOICE FOR CREW SLEEP PERIOD.

NOTES
1. COMM CONFIG KILO; UHF FREQ 296.8
   H-0 FROM ACN AT 02:09:30
2. INHIBIT UPLINK VOICE FOR CREW SLEEP PERIOD.
NOTES

1. N-A
2. MAX EL. 41.9
3. COMM CONFIG DELTA, UHF FREQ 296.8
   INHIBIT UPLINK VOICE FOR CREW SLEEP
   PERIOD.

NOTES

1. N-A
2. MAX EL. 17.7
3. COMM CONFIGURATION CHARLIE,
   INHIBIT UPLINK VOICE FOR CREW SLEEP
   PERIOD.

NOTES

1. COMM CONFIG KILO, UHF FREQ 296.8
2. INHIBIT UPLINK VOICE FOR CREW SLEEP
PERIOD.
1. N-R
2. MAX EL. 02.0
3. COMM CONFIG CHARLIE, INHIBIT UPLINK, VOICE FOR CREW SLEEP PERIOD.

1. COMM CONFIG KILO, UHF FREQ 296.8
2. INHIBIT UPLINK VOICE FOR CREW SLEEP PERIOD.
JSG#0
JSC SCW S 483A ORRS,
VID 05 SIC 2002 ORB 077 DAY 278
AOS 06:03:39 LOS 06:05:46

VEH LINK FREQ M REMARKS
SSC PM UL 2106.4 25H 1,2
SSO OB DL 2287.5 05
SSO DF DL 2205.0 M
SSO FM DL 2250.0 15

NOTES
1. N-A
2. MAX EL. 12.1
3. COMM CONFIGURATION CHARLIE.
   INHIBIT UPLINK VOICE FOR CREW SLEEP PERIOD.

JSG#0
JSC SCW S 484A QUIS,
VID 05 SIC 2002 ORB 077 DAY 278
AOS 06:32:53 LOS 06:39:28

VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H 1,2
SSO OD DL 2287.5 05
SSO DF DL 2205.0 M
SSO FM DL 2250.0 15

NOTES
1. N-A
2. MAX EL. 61.5

3. COMM CONFIG CHARLIE. INHIBIT UPLINK VOICE FOR CREW SLEEP PERIOD.
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**NOTES**

1. N-A
2. MAX EL. 00.3
3. COMM CONFIG DELTA, UHF FREQ 296.8
4. LOW ELEVATION PASS. STA NOT SCHED FOR SUPPORT.

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**NOTES**

1. N-A
2. MAX EL. 37.2
3. COMM CONFIG DELTA UHF FREQ. 296.8

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<td>AOS 07:26:46</td>
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**NOTES**

1. COMM CONFIG KILO: UHF FREQ 296.8
JSG#
JSC SCM S 489A ORRS, , ,
VID 05 SIC 2002 ORB 078 DAY 278
AOS 07 : 34 : 49 LOS 07 : 40 : 30
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H ' 1,2 ,
SSO OD DL 2287.5 05 ,
SSO DF DL 2205.0 M ,
SSO FM DL 2250.0 13 ,
NOTES
' 1. N-A ,
' 2. MAX EL. 60.2 ,
' 3. COMM CONFIGURATION CHARLIE.

NOTES
' 1. H-0 TO IDA AT 08:16:00 ,
' 2. MAX EL. 24.0 ,
' 3. COMM CONFIG DELTA, UHF FREQ. 296.8
JSG

JSC SCM S 491R MADT
VIB 05 SIC 2002 ORB 079 DAY 278
HOS 08 : 13 : 53 LOS 08 : 21 : 51
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25K 1.2
SSO OD DL 2287.5 05
SSO DF DL 2205.0 M
SSO FM DL 2250.0 13

NOTES
1. M-0 FROM MIL AT 08:16:00
2. MAX EL. 24.1
3. COMM CONFIG DELTA, UHF FREQ 296.8
JSC SCM S 493A IO2S
VID 05 SIC 2002 ORB 079 DAY 278
AOS 08:45:39 LOS 03:51:52
VEH LINK FREQ M REMARKS
SSU PM UL 1831.7 24H 1:2
SSO OD DL 2287.5 03
SSO DF DL 2205.0 M
SSO FM DL 2250.0 13
NOTES
'1. N-A
'2. MAX EL. 06.8
'3. COMM CONFIG DELTA, UHF FREQ 296.8

JSC FORM U493R YARU
UHF VOICE SUPPORT YAR
VID 05 SIC 2002 ORB 079 DAY 278
AOS 09:00:25 LOS 09:08:41
MAX EL.
36.3
NOTES
1. COMM CONFIG KILO, UHF FREQ 296.8

JSC SCM S 494A ORRS
VID 05 SIC 2002 ORB 079 DAY 278
AOS 09:10:14 LOS 09:14:36
VEH LINK FREQ M REMARKS
SSU PM UL 2106.4 25H 1:2
SSO OD DL 2287.5 05
SSO DF DL 2205.0 M
SSO FM DL 2250.0 13
NOTES
'1. N-A
'2. MAX EL. 39.2
'3. COMM CONFIGURATION CHARLIE.
JSGO
JSC SCM S 495A  TULS ,
SID 05  SIC 2002 ORB 080  DAY 278
AOS 09 : 42 : 00  LOS 09 : 44 : 32
VEH LINK  FREQ  M  REMARKS
SSO PM UL 2106.4  24H  ' 1,2
SSO OD DL 2287.5  03
SSO DF DL 2205.0  M
SSO FM DL 2250.0  13  ' 4
NOTES
' 1.  H-O TO MIL AT 09:44:30
' 2.  MAX EL. 01.9
' 3.  COMM CONFIG DELTA, UHF FREQ 296.8
' 4.  SWITCH TO MODE 23 AT MIL AOS
'   09:44:07 (TV N-R AT TUL).

JSGO
JSC SCM S 496A  MLXS ,
SID 05  SIC 2002 ORB 080  DAY 278
AOS 09 : 44 : 07  LOS 09 : 52 : 15
VEH LINK  FREQ  M  REMARKS
SSO PM UL 2106.4  25H  ' 1,2
SSO OD DL 2287.5  05
SSO DF DL 2205.0  M
SSO FM DL 2250.0  23  ' 4
NOTES
' 1.  H-O FROM TUL AT 09:44:30
' 2.  MAX EL. 52.9
' 3.  COMM CONFIG DELTA, UHF FREQ 296.8
' 4.  TV REMOTING REQUIRED; (SUB: PLB TV
'   AERO-SURFACE CYCLING)
NOTES
1. H-O FROM MIL AT 09:50:00
2. MAX EL. 35.2
3. COMM CONFIG DELTA, UHF FREQ 296.8
4. ACQ IN MODE 23 (TV N-A AT DDA) THEN
   SWITCH TO 13 AT MIL LOS 09:52:15.

NOTES
1. N-A
2. MAX EL. 14.0; LOS DURING THIS PASS
   DUE TO KEYHOLE AND TERRAIN MASKING.
3. COMM CONFIG CHARLIE.
4. NOT SCHEDULED FOR SUPPORT;
   ENGINEERING TESTING ONLY.
JSG1 002/R1

JSC SCM S 4998 MARS
VID 05 SIC 2002 ORB 080 DAY 278
AOS 10:01:25 LOS 10:07:21
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H 1,2
SSO OD DL 2287.5 05
SSO DF DL 2205.0 M
SSO FM DL 2250.0 13
NOTES
' 1. N-A
' 2. MAX EL. 11.2
' 3. COMM CONFIG DELTA UHF FREQ 296.8

JSG1 002/RT

JSC SCM S 5001 IO2S
VID 05 SIC 2002 ORB 080 DAY 278
AOS 10:18:45 LOS 10:26:27
VEH LINK FREQ M REMARKS
SSO PM UL 1831.7 24H 1,2
SSO OD DL 2287.5 03
SSO DF DL 2205.0 M
SSO FM DL 2250.0 13
NOTES
' 1. N-A
' 2. MAX EL. 25.3
' 3. COMM CONFIG DELTA, UHF FREQ 296.8

JSC#

JSC FORM US01A YARU
' UHF VOICE SUPPORT YAR'
' VID 05 SIC 2002 ORB 080 DAY 278'
' AOS 10:35:28 LOS 10:42:38'
' MAX EL. 11.0
' NOTES
' 1. COMM CONFIG KILO, UHF FREQ 296.8
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<td>SSO</td>
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<td>2250.0</td>
<td>13</td>
</tr>
</tbody>
</table>

**NOTES**

1. H-O TO TUL AT 11:16:00
2. MAX EL. 7.4
3. COMM CONFIGURATION CHARLIE.
JSG#
JSC SCM S 504A TULS , , ,
VOS 05 SIC 2002 ORB 081 DAY 278
AOS 11:13:43 LOS 11:21:10
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 24H 1:2
SSO OD DL 2287.5 03
SSO DF DL 2205.0 M
SSO FM DL 2250.0 23 4
NOTES
' 1. H-O FROM BUC AT 11:16:00
' H-O TO MIL AT 11:20:00
' 2. MAX EL. 32.0
' 3. COMM CONFIG DELTA; UHF FREQ 296.8
' UHF H-O FROM GBS AT 11:17:00
' 4. TV SUPPORT N-A AT TUL.

JSG#
JSC SCM S 505A GDSS , , ,
VOS 05 SIC 2002 ORB 081 DAY 278
AOS 11:14:35 LOS 11:17:40
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 OFF 1:2
SSO OD DL 2287.5 03
SSO DF DL 2205.0 M
SSO FM DL 2250.0 23 4
NOTES
' 1. 3-WAY SUPPORT WITH BUC AND TUL
' 2. MAX EL. 07.6
' 3. COMM CONFIG DELTA; UHF FREQ 296.8
' REMOTE UHF VOICE AT AOS
' UHF H-O TO TUL AT 11:17:00
' 4. TV REMOTING RQD. (SUB: PAYLOAD DAY)
IS 6 44^ PT
JSC SC M 506A MILS , , ,
VID 05 SIC 2002 ORB 081 DAY 278
ACS 11 : 19 : 04 LOS 11 : 26 : 09
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H ' 1:2 '
SSO OD DL 2287.5 05 '
SSO DF DL 2205.0 M '
SSO FM DL 2250.0 23 ' 4 '

NOTES
1. H-O FROM TUL AT 11:20:00 '
2. MAX EL. 11.3 '
3. COMM CONFIG DELTA, UHF FREQ. 296.8 '
4. TV REMOTING REQUIRED, (SUB: PAYLOAD '
   DAY TV)

JSG
JSC SC M S 507A BLTS , , ,
VID 05 SIC 2002 ORB 081 DAY 278
AOS 11 : 22 : 06 LOS 11 : 27 : 04
VEH LINK FREQ M REMARKS
SSO PM UL 2100.4 OFF ' 1,2,4 '
SSO OD DL 2287.5 05 '
SSO DF DL 2205.0 M '
SSO FM DL 2250.0 13 '

NOTES
1. N-A '
2. MAX EL. 36.2 '
3. COMM CONFIG CHARLIE, '
4. NOT SCHEDULED FOR SUPPORT, '
   ENGINEERING TESTING ONLY. 
JSC SCM S 509A  BDAS ,
VID 05  SIC 2002  ORB 081  DAY 278
AOS 11 : 22 : 33  LOS 11 : 30 : 13
VEH LINK  FREQ  REMARKS
SSO PM UL 2106.4  25H  1:2
SSO OD DL 2287.5  05
SSO DF DL 2205.0  M
SSO FN DL 2250.0  23  4
NOTES
' 1.  H-O FROM MIL AT 11:25:00
' 2.  MAX EL. 18.3
' 3.  COMM CONFIG DELTA; UHF FREQ 296.8
' 4.  ACQUIRE IN MODE 23 (TV N-A AT BDA),
'     THEN CHANGE TO MODE 13 AT MIL LOS,
'     11:26:09.

JSC#
JSC FORM U509A  DKRU,
' UHF VOICE SUPPORT DKR
' VID 05  SIC 2002  ORB 081  DAY 278
' AOS 11:35:53  LOS 11:41:48
' MAX EL.
' 05.7
' NOTES
' 1. COMM CONFIG KILO; UHF FREQ 296.8

JSC#
JSC FORM U510A  BOTU,
' UHF VOICE SUPPORT BOT
' VID 05  SIC 2002  ORB 081  DAY 278
' AOS 11:53:52  LOS 11:55:00
' MAX EL.
' 01.0
' NOTES
' 1. COMM CONFIG KILO; UHF FREQ 296.8
JSC:
JSC FORM U511A YARU,
' UHF VOICE SUPPORT YAR '
' VID 05 SIC 2002 ORB 081 DAY 278 '
' AOS 12:10:16 LOS 12:17:20 '
' MAX EL. 10.5 '
' NOTES '
' 1. COMM CONFIG KILO, UHF FREQ 296.8 '

JSG:
JSC SCM S 512A ORRS,
' VID 05 SIC 2002 ORB 081 DAY 278 '
AOS 12 : 18 : 08 LOS 12 : 21 : 20 '
VEH LINK FREQ M REMARKS '
SSO PM UL 2106.4 25H ' 1,2 '
SSO OD BL 2287.5 05 '
SSO DF DL 2205.0 M '
SSO FM DL 2250.0 13 '
NOTES '
' 1. N-A '
' 2. MAX EL. 14.7 '
' 3. COMM CONFIGURATION CHARLIE. '

JSG:
JSC SCM S 513A HAWS,
' VID 05 SIC 2002 ORB 082 DAY 278 '
AOS 12 : 36 : 48 LOS 12 : 42 : 07 '
VEH LINK FREQ M REMARKS '
SSO PM UL 2106.4 25H ' 1,2 '
SSO OD BL 2287.5 05 '
SSO DF DL 2205.0 M '
SSO FM DL 2250.0 13 '
NOTES '
' 1. CXR OFF AT 12:43:30 '
' 2. MAX EL. 07.5; KEYHOLE START AT 12:36:52; END AT 12:37:50 '
' 3. COMM CONFIG DELTA, UHF FREQ 296.8 '
JSG\$ 002/RT
JSC SCM S 514\$ BUCS, , ,
VID 05 SIC 2002 ORB 082 DAY 278
AOS 12 : 45 : 27 LOS 12 : 53 : 27
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 24H '1\:2
SSO OD DL 2287.5 03
SSO DF DL 2205.0 M
SSO FM DL 2250.0 13
NOTES
' 1. CXR ON RT 12:43:30
' H-O TO GDS AT 12:48:00
' 2. MAX EL. 56.1
' 3. COMM CONFIG CHARLIE.

JSG\$ 002/RT
JSC SCM S 515\$ GDSS, , ,
VID 05 SIC 2002 ORB 082 DAY 278
AOS 12 : 46 : 53 LOS 12 : 52 : 54
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H '1\:2
SSO OD DL 2287.5 05
SSO DF DL 2205.0 M
SSO FM DL 2250.0 13
NOTES
' 1. H-O FROM BUC AT 12:48:00
' H-O TO TUL AT 12:52:30
' 2. MAX EL. 50.6
' 3. COMM CONFIG DELTA: UHF FREQ 296.8
' REMOTE UHF VOICE AT AOS.
JSC SCM S 516A  TULS  ,  ,  ,
VID 05  SIC 2002  ORB 082  DAY 278
AOS 12 : 49 : 01  LOS 12 : 55 : 17
VEH LINK  FREQ  M  REMARKS
SSO PM DL 2106.4  24M  ' 1,2  
SSO OD DL 2287.5  03  
SSO DF DL 2205.0  M  
SSO FM DL 2250.0  13  
NOTES
' 1. H-O FROM 6BS A T 12:52:30  
'  H-O TO MIL RT 12:55:00  
' 2. MAX EL. 31.3  
' 3. COMM CONFIG DELTA; UHF FREQ 296.8  

JSC SCM S 517A  MLXS  ,  ,  ,
VID 05  SIC 2002  ORB 082  DAY 278
AOS 12 : 54 : 03  LOS 13 : 00 : 26
VEH LINK  FREQ  M  REMARKS
SSO PM DL 2106.4  25H  ' 1,2  
SSO OD DL 2287.5  05  
SSO DF DL 2205.0  M  
SSO FM DL 2250.0  13  
NOTES
' 1. H-O FROM TUL AT 12:55:00  
'  H-O TO BDA AT 12:59:00  
' 2. MAX EL. 08.6; KEYHOLE START AT  
'  12:54:05; END AT 12:54:40  
' 3. COMM CONFIG DELTA; UHF FREQ. 296.8  

A254
JSG#
JSC SCM S 518A
VID 05 SIC 2002 ORB 082 DAY 278
AOS 12:55:51 LOS 13:00:49
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 OFF 1,2,4
SSO OD DL 2287.5 05
SSO DF DL 2205.0 M
SSO FM DL 2250.0 13
NOTES
1. N/A
2. MAX EL. 49.4
3. COMM CONFIG CHARLIE.
4. NOT SCHEDULED FOR SUPPORT;
   ENGINEERING TESTING ONLY.

JSG#
JSC SCM S 519A
VID 05 SIC 2002 ORB 082 DAY 278
AOS 12:56:47 LOS 13:04:51
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H 1,2
SSO OD DL 2287.5 05
SSO DF DL 2205.0 M
SSO FM DL 2250.0 13
NOTES
1. H-O FROM KIL AT 12:59:00
2. MAX EL. 32.0
3. COMM CONFIG DELTA, UHF FREQ 296.8

JSG#
JSC FORM U520A
VID 05 SIC 2002 ORB 082 DAY 278
AOS 13:08:56 LOS 13:17:11
MAX EL.
55.8
NOTES
1. COMM CONFIG KILO, UHF FREQ 296.8
   UHF H-O TO ACN AT 13:17:00.
JSC
JSC SCM S 521A ACWS, , ,
VIB 05 SIC 2302 ORB 082 DAY 278
AOS 13:16:55 LOS 13:19:02
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 25H ' 1,2 ,
SSO OD DL 2287.5 05 ,
SSO DF DL 2205.0 M ,
SSO FM DL 2250.0 13 ,
NOTES
1. N-A ,
2. MAX EL. 02.1 ,
3. COMM CONFIG DELTA, UHF FREQ 296.8
UHF H-0 FROM DKR AT 13:17:00

JSC
JSC FORM U522A BOTU, , ,
UHF VOICE SUPPORT BOT ,
VIB 05 SIC 2002 ORB 082 DAY 278 ,
AOS 13:25:53 LOS 13:31:39 ,
MAX EL. ,
27.5 ,
NOTES
1. COMM CONFIG KILO, UHF FREQ 296.8

JSC
JSC FORM U523A YARU, , ,
UHF VOICE SUPPORT YAR ,
VIB 05 SIC 2002 ORB 082 DAY 278 ,
AOS 13:44:15 LOS 13:52:23 ,
MAX EL. ,
31.4 ,
NOTES
1. COMM CONFIG KILO, UHF FREQ 296.8
**JSG#**

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<td>AOS 14:09:51</td>
<td>LOS 14:16:35</td>
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**VEH LINK** | **FREQ** | **REMARKS**
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<td>25H '1,2'</td>
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<tr>
<td>SSO OD DL 2287.5</td>
<td>05'</td>
<td></td>
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<tr>
<td>SSO DF DL 2205.0</td>
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</tr>
<tr>
<td>SSO FM DL 2250.0</td>
<td>13'</td>
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**NOTES**

1. CXR OFF AT 14:18:00
2. MAX EL. 36.5
3. COMM CONFIG DELTA, UHF FREQ 296.8

---

**JSG#**

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<td>LOS 14:26:12</td>
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**VEH LINK** | **FREQ** | **REMARKS**
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<td>SSO OD DL 2287.5</td>
<td>03' 3,4</td>
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<tr>
<td>SSO DF DL 2205.0</td>
<td>N-A'</td>
<td></td>
</tr>
<tr>
<td>SSO FM DL 2250.0</td>
<td>N-A'</td>
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</table>

**NOTES**

1. N-A
2. MAX EL. 60.6
3. WTR OPS CONTROL SELECT AND ROUTE
   PTT-VDT RT TLM DATA TO STC AND BUC.
4. DATA FLOW CHECKOUT FOR REENTRY
   SUPPORT.
NOTES

' 1. N-A
' 2. MAX EL. 24.9
' 3. WTR OPS CONTROL SELECT AND ROUTE
   PTT-VDT RT TLM DATA TO STC AND BUC.
' 4. DATA FLOW CHECKOUT FOR REENTRY
   SUPPORT.

JSC#
JSC FORM S527A 102S , , ,
' S BAND SUPPORT SCF
' VID 05 SIC 2002 ORB 083 DAY 278
',
',
', 1. WTR R-T TLM AVAILABLE BETWEEN
   ROUTE TO JSC FOR REENTRY SUPPORT
   VALIDATION. INHIBIT UPON DFE REQUEST
   ONLY.
',
', 2. COMM CONFIG JULIET.
NOTES

1. H-0 FROM BUC AT 14:21:30
2. MAX EL. 38.3
3. COMM CONFIG DELTA, UHF FREQ 296.8 REMOTE UHF VOICE AT AOS.
JSG0
JSC SCM S 530A  TULS , , ,
VID 05  SIC 2002 ORB 083 DAY 278
AOS 14 : 22 : 37  LOS 14 : 29 : 35
VEH LINK  FREQ  M  REMARKS
SSO PM UL  2106.4  24H ' 1,2 ,
SSO OD DL  2287.5  03 ,
SSO DF DL  2205.0  M ,
SSO FM DL  2250.0  13 ,
NOTES
' 1. H-O FROM GDS AT 14:26:30 ,
'  H-O TO MIL AT 14:29:00 ,
'  2. MAX EL. 20.4 ,
'  3. COMM CONFIG DELTA; UHF FREQ 296.8 ,

JSG0
JSC SCM S 531A  MILS , , ,
VID 05  SIC 2002 ORB 083 DAY 278
AOS 14 : 28 : 06  LOS 14 : 34 : 42
VEH LINK  FREQ  M  REMARKS
SSO PM UL  2106.4  25H ' 1,2 ,
SSO OD DL  2287.5  05 ,
SSO DF DL  2205.0  M ,
SSO FM DL  2250.0  13 ,
NOTES
' 1. H-O FROM TUL AT 14:29:00 ,
'  H-O TO IDA AT 14:34:00 ,
'  2. MAX EL. 18.2 ,
'  3. COMM CONFIG DELTA; UHF FREQ. 296.8 ,
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<th>REMARKS</th>
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<td>SSO OD DL</td>
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<td>SSO DF DL</td>
<td>2250.0</td>
<td>M'</td>
</tr>
</tbody>
</table>

**NOTES**

1. M-A
2. MAX EL. 17.6; SH MASKING START AT 14:30:30, END AT 14:32:09
3. COMM CONFIG CHARLIE
4. NOT SCHEDULED FOR SUPPORT; ENGINEERING TESTING ONLY

---

<table>
<thead>
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<th>VEH LINK</th>
<th>FREQ</th>
<th>REMARKS</th>
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<td>SSO PM UL</td>
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<td>O5'</td>
</tr>
<tr>
<td>SSO DF DL</td>
<td>2250.0</td>
<td>M'</td>
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</table>

**NOTES**

1. H-O FROM MIL AT 14:34:00
2. MAX EL. 28.7
3. COMM CONFIG DELTA; UHF FREQ 296.8
JSC SCM S 534A  ACNS ,  , ,  VSC 05  SIC 2002 ORB 083 DAY 278  AOS 14:47:25  LOS 14:55:06  VEH LINK FREQ M REMARKS  SSO PM UL 2106.4  25M `1,2 ,  SSO OD DL 2287.5  05 ,  SSO DF DL 2205.0  M ,  SSO FM DL 2250.0  13 ,  NOTES  ' 1. M-A ,  ' 2. MAX EL. 67.1 ,  ' 3. COMM CONFIG DELTA; UHF FREQ 296.8  '  JSC#  JSC FORM U535A BOTU ,  ,  ' UHF VOICE SUPPORT BOT '  VSC 05  SIC 2002 ORB 083 DAY 278  ' AOS 15:00:10 LOS 15:05:16  ' MAX EL. ' 12.0 ' NOTES ' 1.COMM CONFIG KILO; UHF FREQ 296.8  '  JSC#  JSC FORM U536A YARU ,  ,  ' UHF VOICE SUPPORT YAR '  VSC 05  SIC 2002 ORB 083 DAY 278  ' AOS 15:18:29 LOS 15:26:10  ' MAX EL. ' 17.2 ' NOTES ' 1.COMM CONFIG KILO; UHF FREQ 296.8  '
<table>
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<th>VEH</th>
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<th>FREQ</th>
<th>M</th>
<th>REMARKS</th>
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<td>SSO</td>
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<td>SSO</td>
<td>FM</td>
<td>2250.0</td>
<td>13</td>
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</table>

NOTES

1. N/A
2. MAX EL. 08.4; KEYHOLE START AT 15:32:30; END AT 15:33:11
3. COMM CONFIG DELTA, UHF FREQ 296.8
4. NO BURN SCH
JSG# 002/RT

JSC SCM S 539A  PTT S
VID 05  SIC 2002  ORB 084  DAY 278
AOS 15 : 52 : 40  LOS 16 : 00 : 38
VEH LINK  FREQ  M  REMARKS
SSO PM UL 2106.4  N-A
SSO OD DL 2287.5  03 ' 3
SSO DF DL 2205.0  N-A
SSO FM DL 2250.0  N-A

NOTES
1. N-A
2. MAX EL. 72.3
3. WTR OPS CONTROL SELECT AND ROUTE
   PTT-VDT RT TLM DATA TO STC AND BUC.
4. NO BURN SCM

JSG# 002/RT

JSC SCM S 540A  VDTS
VID 05  SIC 2002  ORB 084  DAY 278
AOS 15 : 53 : 24  LOS 15 : 59 : 14
VEH LINK  FREQ  M  REMARKS
SSO PM UL 2106.4  N-A
SSO OD DL 2287.5  03 ' 3
SSO DF DL 2205.0  N-A
SSO FM DL 2250.0  N-A

NOTES
1. N-A
2. MAX EL. 22.3
3. WTR OPS CONTROL SELECT AND ROUTE
   PTT-VDT RT TLM DATA TO STC AND BUC.
4. NO BURN SCM
JSC FORM S541A IO2S, "S BAND SUPPORT SCF, "VID 05 SIC 2002 ORB 084 DAY 278, 

'1. WTR R-T TLM AVAILABLE BETWEEN 
'15:52:40 AND 16:00:38. 
'ROUTE TO JSC; INHIBIT UPON DFE 
'REQUEST ONLY.

'2. COMM CONFIG JULIET. 

'3. NO BURN SCM

JSC SCM S 542A BUCS, "VID 05 SIC 2002 ORB 084 DAY 278 
AOS 15:54:00 LOS 16:01:38 
VEH LINK FREQ M REMARKS 
SSO PM UL 2106.4 24H 1,2 
SSO OD DL 2287.5 03 
SSO DF DL 2205.0 M 
SSO FM DL 2250.0 13 
NOTES 
'1. H-0 TO GDS AT 15:56:00 
'2. MAX EL. 44.5 
'3. COMM CONFIG CHARLIE. 
'4. WTR RT TLM DATA AVAILABLE FROM 
'15:52:40 TO 16:00:38. USE AS BEST 
'SOURCE TILL BUC AOS. 
'5. NO BURN SCM
JSC SCM S 543A

VID 05 SIC 0202 ORB 084 DAY 278
AOS 15 : 54 : 30  LOS 16 : 01 : 28

VEH LINK FREQ  M  REMARKS
SSO PM UL 2106.4  25H  1:2
SSO OD BL 2287.5  65
SSO DF DL 2205.0  M
SSO FM DL 2250.0  13

NOTES
1. H-0 FROM BUC AT 15:56:00
2. MAN EL. 51.9
3. COMM CONFIG DELTA, UHF FREQ 296.8
4. NO BURN SCM

JSC SCM S 544A

VID 05 SIC 0202 ORB 084 DAY 278
AOS 15 : 56 : 46  LOS 16 : 04 : 09

VEH LINK FREQ  M  REMARKS
SSO PM UL 2106.4  24H  1:2
SSO OD BL 2287.5  03
SSO DF DL 2205.0  M
SSO FM DL 2250.0  13

NOTES
1. H-0 FROM GDS AT 16:01:00
2. MAX EL. 48.5
3. COMM CONFIG DELTA, UHF FREQ 296.8
4. NO BURN SCM
JSC S545A MILS

VID 05 SIC 2002 ORB 084 DAY 278

AOS 16:02:06 LOS 16:10:08

VEH LINK FREQ M REMARKS

SSO PM DL 2106.4 25H 1:2
SSO OD DL 2207.5 05
SSO DF DL 2205.0 M
SSO FM DL 2250.0 13

NOTES
1. H-O FROM TUL AT 16:03:00
2. MAX EL. 31.4
3. COMM CONFIG DELTA, UHF FREQ 296.8
4. NO BURN SCH

---

JSC S546A DDAS

VID 05 SIC 2002 ORB 084 DAY 278

AOS 16:07:02 LOS 15:10:11

VEH LINK FREQ M REMARKS

SSO PM UL 2106.4 OFF 1:2
SSO OD DL 2207.5 03
SSO DF DL 2205.0 M
SSO FM DL 2250.0 13

NOTES
1. PASS OVERLAPPED BY MIL
2. MAX EL. 01.4
3. COMM CONFIG CHARLIE.
4. NO BURN SCH
### JSC SCM 547A

**VID**: 05  
**SIC**: 2002  
**ORB**: 084  
**DAY**: 278  

**AOS**: 16:24:16  
**LOS**: 16:27:08  

**VEH LINK FREQ**  
**REMARKS**  

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**NOTES**

1. N-A  
2. MAX EL. 01.6  
3. COMM CONFIG DELTA, UHF FREQ 296.8  
4. NO BURN SCM

---

### JSC FORM U548R

**VID**: 05  
**SIC**: 2002  
**ORB**: 084  
**DAY**: 278  

**AOS**: 16:35:21  
**LOS**: 16:37:54  

**MAX EL.**

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**NOTES**

1. COMM CONFIG KILO, UHF FREQ 296.8  
2. NO BURN SCM

---

### JSC SCM 549A

**VID**: 05  
**SIC**: 2002  
**ORB**: 085  
**DAY**: 278  

**AOS**: 17:05:42  
**LOS**: 17:12:32  

**VEH LINK FREQ**  
**REMARKS**  

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**NOTES**

1. N-A  
2. MAX EL. 22.1  
3. COMM CONFIG DELTA, UHF FREQ 296.8  
4. NO BURN SCM
APPENDIX B

C-BAND GROUNDTRACK CHARTS
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**DATE:** 7/13/81  **TIME:** 15/20/19

**PROCESSOR:** FPD

**BASE DATE:** DEC 30, 1981

**BETA:** -33.20
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**ORBIT 11**

**ORBIT 12**

**DTEA = -38.71**

**BASE DATE: SEP 30, 1981**
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ORBIT 25

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DATE: 7/13/81  TIME: 15/29/21

BASE DATE: SEP 30, 1981

BETA = -28.89
### Flight Planning Display

**Date:** 7/13/81  **Time:** 15:30:27  **Page:** 14 of 32

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**Beta:** -27.68  **Base Date:** Sep 30, 1981
APPENDIX C

S-BAND AOA SCM
JSC:
JSC FORM U700A YARU , , ,
' UHF VOICE SUPPORT YAR ',
' VID 05 SIC 2002 ORB 001 DAY 273 ',
' MAX ELEV. ',
' 08.8 ',
' NOTES ',
' 1. COMM CONFIG KILO, UHF FREQ 296.8 ',
' 2. AOA SUPPORT '

JSC:
JSC SCM S 701H ORRS , , ,
' VID 05 SIC 2002 ORB 001 DAY 273 ',
' AOS 13:01:24 LOS 13:04:57 ',
' VEH LINK FREQ M REMARKS ',
' SSO PM DL 2106.4 25H ' 1:2 ',
' SSO 01 DL 2287.5 05 ',
' SSO DF DL 2285.0 M ',
' SSO FM DL 2250.0 01 ',
' NOTES ',
' 1. N-A ',
' 2. MAX ELEV. 55.0 ',
' 3. COMM CONFIG CHARLIE ',
' 4. AOA SUPPORT '
NOTES

1. N-A
2. MAX EL. 05.2
3. EXIT S-BAND BLACKOUT 13:32:38
4. WTR OPS CONTROL, SELECT AND ROUTE
   VDT RT TLM DATA TO STC AND BUC.
5. AOA SUPPORT, EDWARDS 23 LANDING.
NOTES

1. H-O TO AND FROM GDS ON RTC CUE.

2. MAX EL. 23.4

3. COMM CONFIGURATION FOXTROT THRU ROLLOUT. THEN RECONFIGURE TO POST-LANDING CONFIGURATION GOLF, UHF FREQ. 296.8. UHF AOS 13:33:53 (PAGE 1 OF 2)

4. FORWARD VDT OR BUC BEST SOURCE DATA TO GSFC FROM 13:34:46 THRU ROLLOUT.

5. AOA SUPPORT, EDWARDS 23 LANDING.
NOTES

1. ADVISE RTC WHEN CLEAR OF MASKING AND READY TO ACCEPT H-O FROM BUC.

2. ADVISE RTC 2 MIN. PRIOR TO ANTICIPATED LOS AND STANDBY FOR H-O TO BUC.

3. COMM CONFIG FOXTROT, UHF FREQ 296.8

4. HSR TRKG DATA ON LINE AT AOS MINUS 5 MINUTES.

5. AOA SUPPORT, EDWARDS 23 LANDING.
APPENDIX D

EOM LANDING SCMs
JSC
JSC FORM U700A YARU
" UHF VOICE SUPPORT YAR "
" VID 05 SIC 2002 ORB 083 DAY 278 "
" AOS 15:18:35 LOS 15:25:24 "

" MAX EL. 14.0 "

" NOTES "
1. COMM CONFIG KILO, UHF FREQ 296.8 "
2. ENTRY SUPPORT, "

JSC
JSC SCM S 701A GWMS
" VID 05 SIC 2002 ORB 084 DAY 278 "
" AOS 15:32:28 LOS 15:36:04 "

" VEH LINK FREQ M REMARKS "
" SSO PM UL 2106.4 25H 1:2 "
" SSO OD DL 2287.5 05 "
" SSO DF DL 2205.0 M "
" SSO FM DL 2250.0 13 "

" NOTES "
1. N-A "
2. MAX EL. 03.9 "
3. COMM CONFIG DELTA, UHF FREQ 296.8 "
4. ENTRY SUPPORT "

D1
JSG4
JSC SCM S 702A PTTS , , ,
VID 05 SIC 2002 ORB 084 DAY 278
AOS 15 : 55 : 36 LOS 16 : 05 : 23
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 N-A ' 1:2 ,
SSO OD DL 2287.5 03 ' 4 ,
SSO DF DL 2205.0 N-A ' ,
SSO FM DL 2250.0 N-A ,
NOTES
' 1. N-A
' 2. MAX EL. 18.0
' 3. LANDING COMM CONFIG JULIET
' 4. EXIT S-BAND BLACKOUT 15:57:04
' 5. WTR OPS CONTROL, SELECT AND ROUTE
' PTTS OR VDTS BEST SOURCE RT TLM
' DATA TO STC AND BUC.

JSG4
JSC SCM S 703A VDTS , , ,
VID 05 SIC 2002 ORB 084 DAY 278
AOS 15 : 56 : 21 LOS 16 : 07 : 12
VEH LINK FREQ M REMARKS
SSO PM UL 2106.4 N-A ' 1:2 ,
SSO OD DL 2287.5 03 ' 4 ,
SSO DF DL 2205.0 N-A ' ,
SSO FM DL 2250.0 N-A ,
NOTES
' 1. N-A
' 2. MAX EL. 31.6
' 3. LANDING COMM CONFIG JULIET
' 4. EXIT S-BAND BLACKOUT 15:57:04
' 5. WTR OPS CONTROL, SELECT AND ROUTE
' PTTS OR VDTS BEST SOURCE RT TLM
' DATA TO STC AND BUC.
JSC FORM S704R 102S

S BAND SUPPORT STC

VID 05 SIC 2002 ORB 084 DAY 278

1. WTR RT TM AVAILABLE BETWEEN
   15:55:36 & 16:07:12. ROUTE TO
   JSC. INHIBIT UPON DFE REQUEST ONLY.
2. LANDING COMM CONFIG JULIET

JSG

JSC SCM S 705A BUCS

VID 05 SIC 2002 ORB 084 DAY 278
AOS 15:57:56 LOS 16:09:10

VEH LINK FREQ  M REMARKS
SSO PM UL 2106.4 24H '1,2'
SSO OD DL 2287.5 03 '4'
SSO DF DL 2205.0  M '5'
SSO FM DL 2250.0 00 '6'

NOTES
1. HANDOVERS TO AMB FROM GDS DURING
   THIS PASS ON CUES FROM RTC.
2. MAX EL. 34.4
3. COMM CONFIG FOXTROT THRU ROLLOUT,
   THEN RECONFIGURE TO POST-LANDING
   CONFIGURATION GOLF; UHF FREQ. 296.8
   UHF AOS 23 SEC.LTBLKOUT<P610F2>

JSC

JSC FORM S705A BUCS

(PAGE 2 OF 2)

NOTES (CONTD):

4. FORWARD VDT, PTT OR BUC BEST
   SOURCE DATA TO GSFC FROM 15:55:36
   THRU ROLLOUT.
5. NOMINAL LEFT HAND APPROACH ON EDW
   RUNWAY #23.
NOTES

1. ADVISE RTC WHEN CLEAR OF MARKING AND READY TO ACCEPT H-0 FROM BUC.
   ADVISE RTC 2 MIN. PRIOR TO ANTICIPATED LOS AND STANDBY FOR H-0 TO BUC.

2. MAX EL. 9.6 (NOM LEFT-HAND APPROACH TO RUNWAY 23.) (PAGE 1 OF 2)

NOTES (CONTD):

3. COMM CONFIG FOXTROT UHF FREQ.
   296.5 MHz.

4. HSR TRKG DATA ON LINE AT AOS MINUS 10 MINUTES.
APPENDIX E

CONTINGENCY LANDING SCMs
JSG# 002/RT

JSC SCM S 731A  PTTS , , ,
VID 05  SIC 2002  ORB 084  DAY 278
AOS 15 : 54 : 42  LOS 15 : 59 : 19
VEH LINK  FREQ  M  REMARKS
SS0 PM UL 2106.4  N-A ' 1,2 ,
SS0 OD DL 2287.5  03 ' 4 ,
SS0 DF DL 2205.0  N-A ,
SS0 FM DL 2250.0  N-A ,
NOTES
  1. N-A ,
  2. MAX EL. 07.0 ,
  3. LANDING COMM CONFIG JULIET ,
  4. EXIT S-BAND BLACKOUT 15:56:10 ,
  5. WTR OPS CONTROL, SELECT AND ROUTE ,
     PTTS OR UDTS BEST SOURCE RT TLM ,
     DATA TO STC AND BUC.

JSG# 002/RT

JSC SCM S 732A  UDTS , , ,
VID 05  SIC 2002  ORB 084  DAY 278
AOS 15 : 55 : 12  LOS 16 : 01 : 04
VEH LINK  FREQ  M  REMARKS
SS0 PM UL 2106.4  N-A ' 1,2 ,
SS0 OD DL 2287.5  03 ' 4 ,
SS0 DF DL 2205.0  N-A ,
SS0 FM DL 2250.0  N-A ,
NOTES
  1. N-A ,
  2. MAX EL. 31.6 ,
  3. LANDING COMM CONFIG JULIET ,
  4. EXIT S-BAND BLACKOUT 15:56:10 ,
  5. WTR OPS CONTROL, SELECT AND ROUTE ,
     PTTS OR UDTS BEST SOURCE RT TLM ,
     DATA TO STC AND BUC.
1. WTR RT TM AVAILABLE BETWEEN 15:54:42 AND 16:01:04. ROUTE TO JSC. INHIBIT UPON DFE REQUEST ONLY.
2. LANDING COMM CONFIG JULIET
3. UNDERBURN SUPPORT SCM.

NOTES

1. HANDOVER TO GDS ON RTC CUE.
2. MAX EL. 17.6
3. COMM CONFIG CHARLIE.

NOTES (CONT'D):
4. FORWARD VDT, PTT OR BUC BEST SOURCE DATA TO GSFC FROM 15:54:42 TILL BUC LOS.
5. UNDERBURN CONTINGENCY LANDING SUPPORT.
JSC SCM 4 735A  GDSS  ,   
VID 05  SIC 2002  ORB 084  DAY 278  
AOS 15 : 57 : 30  LOS 16 : 03 : 25  
VEH LINK  FREQ  M  REMARKS  
SSO PM UL 2106.4  25H  ' 1,2,4 '  
SSO OD DL 2287.5  05  '  
SSO DF DL 2205.0  M  '  
SSO FM DL 2250.0  00  '  
NOTES  
' 1. ADVISE RTC WHEN CLEAR OF MASKING  
'  AND READY TO ACCEPT H-O FROM BUC.  
'  ADVISE RTC 2 MIN. PRIOR TO ANTICI-  
'  PATED LOS AND STANDBY FOR H-O TO  
'  TUL.  
' 2. MAX EL.  7.5  

(PAGE 1 OF 2)  

JSC##  
JSC FORM S735A  GDSS  ,   
(PAGE 2 OF 2)  
NOTES (CONTI):  
' 3. COMM CONFIG DELTA, UHF FREQ 296.8  
'  REMOTE UHF VOICE AT AOS.  
' 4. HSR TRKG DATA ON LINE AT AOS  
'  MINUS 10 MINUTES.  
' 5. UNDERBURN CONTINGENCY LANDING  
'  SUPPORT.  

E3
JSG#
JSC SCM S 736A TULS , , 
VID 05 SIC 2002 ORB 084 DAY 278 
AOS 16 : 01 : 54 LOS 16 : 13 : 08 
VEH LINK FREQ M REMARKS 
SSO PM UL 2106.4 24H '1:2 ' 
SSO OD DL 2287.5 03 ' ' 
SSO DF DL 2205.0 M ' ' 
SSO FM DL 2250.0 00 ' ' 
NOTES 
' 1. H-O FROM GDS ON RTC CUE. 
' 2. MAX EL. 35.9 
' 3. COMM CONFIG DELTA THRU ROLLOUT, 
' THEN CHANGE TO HOTEL; UHF FREQ 
' 296.8 MHZ. 
' 4. UNDERBURN EMERGENCY LANDING AT 
' NORTHUP STRIP; RUNWAY 17. 

E4