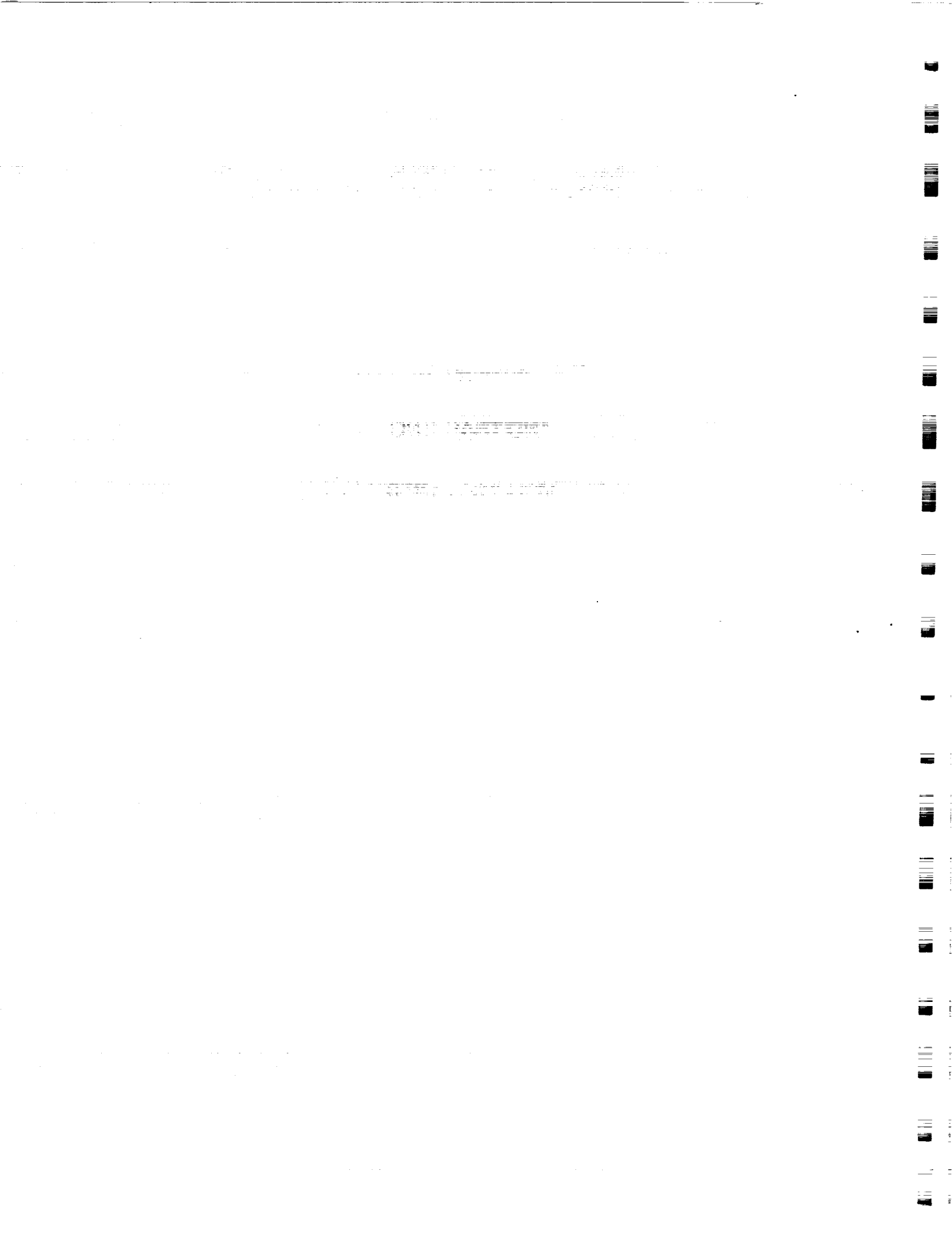


INDEPENDENT ORBITER ASSESSMENT

**ASSESSMENT OF THE
COMMUNICATION
AND TRACKING
SUBSYSTEM
VOLUME 1 OF 3**

18 MARCH 1988



MCDONNELL DOUGLAS ASTRONAUTICS COMPANY
HOUSTON DIVISION

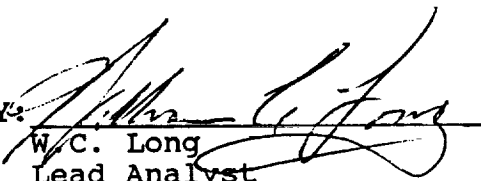
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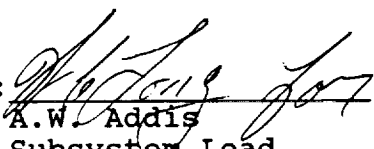
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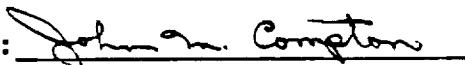
Assessment INDEPENDENT ORBITER ASSESSMENT
~~ANALYSIS~~ OF THE COMMUNICATION AND TRACKING SUBSYSTEM


18 MARCH 1988

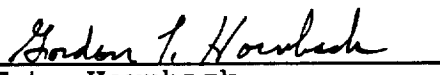
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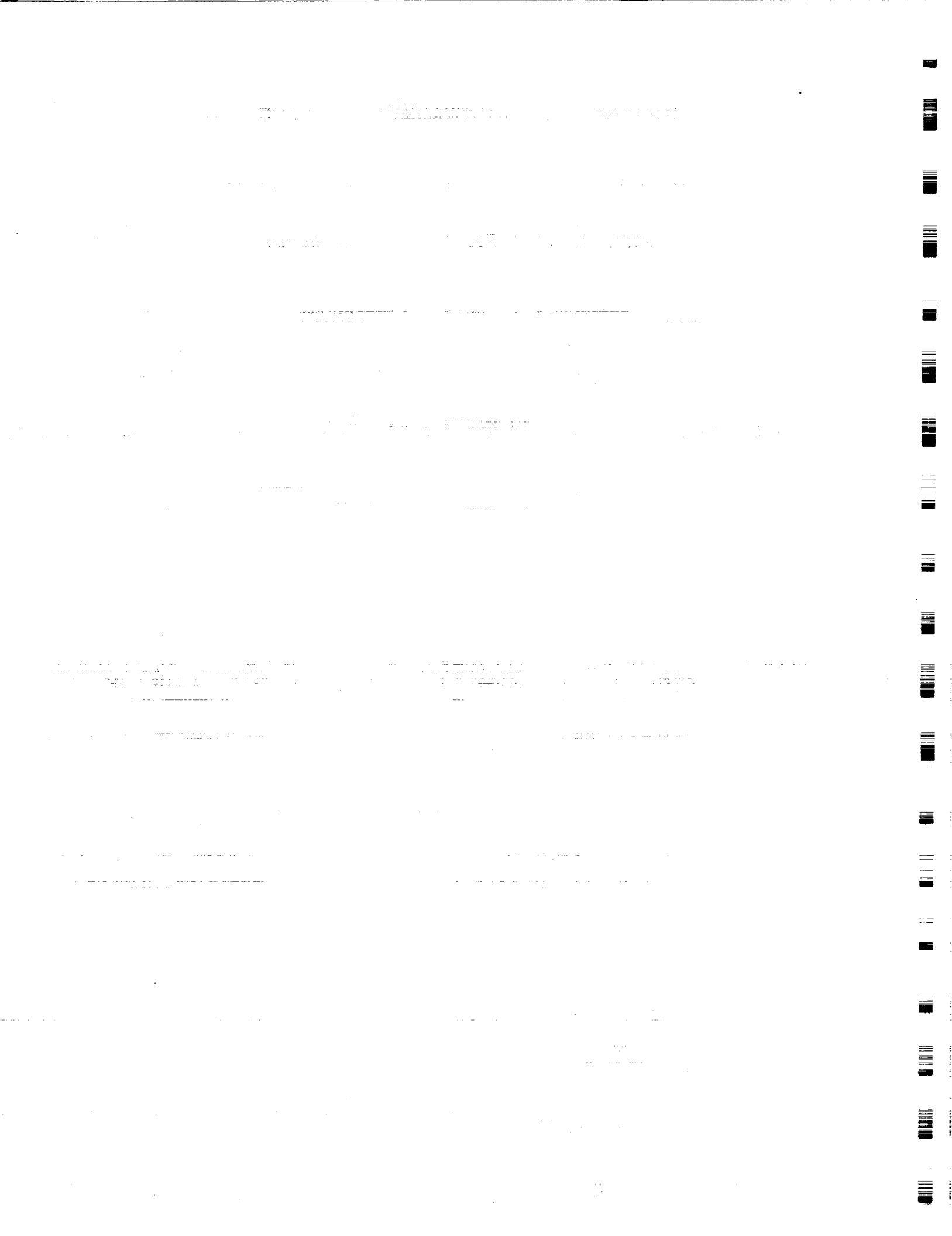
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Independent Orbiter Assessment
Analysis of the Communication and Tracking Subsystem

1.0 EXECUTIVE SUMMARY

The McDonnell Douglas Astronautics Company (MDAC) was selected in June 1986 to perform an Independent Orbiter Assessment (IOA) of the Failure Modes and Effects Analysis (FMEA) and Critical Items List (CIL). Direction was given by the STS Orbiter and GFE Projects Office to perform the hardware analysis using the instructions and ground rules defined in NSTS 22206, Instructions for Preparation of FMEA and CIL, 10 October 1986, with changes 1, 2, 3, and 4.

The IOA effort first completed an analysis of the Communication and Tracking hardware, generating draft failure modes and potential critical items. To preserve independence, this analysis was accomplished without reliance upon the results contained within the NASA FMEA/CIL documentation. The IOA results were then compared to the NASA FMEA/CIL baseline. A resolution of each discrepancy from the comparison is provided through additional analysis as required. This report documents the results of that comparison for the Orbiter Communication and Tracking hardware.

The IOA product for the Communication and Tracking consisted of 1,108 failure mode "worksheets" that resulted in 298 critical items being identified. Comparison was made to the NASA baseline (as of 1 January, 1988) which consist of 697 FMEAs and 239 CIL items. The comparison determined if there were any results which had been found by IOA but were not in the NASA baseline. This comparison produced agreement on all but 407 FMEAs which caused differences in 294 CIL items. Reference Figure 1.1a.

Figure 1.1a contains a summary of the quantity of IOA and NASA FMEA/CIL assessments and resulting issues.

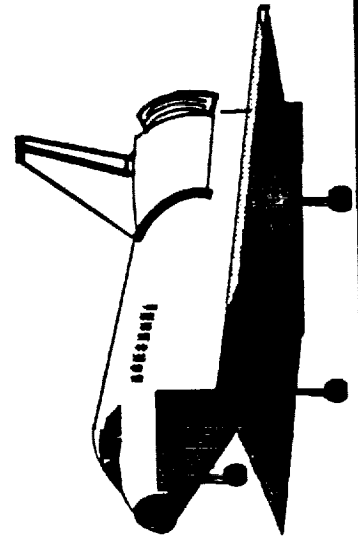
COMMUNICATIONS AND TRACKING FMEA/CIL ASSESSMENT OVERVIEW SUMMARY

COMMUNICATIONS & TRACKING SUBSYSTEM			
	IOA	NASA	ISSUES
FMEA	1108	697	407
CIL	298	239	294

NOTE: CIL COUNT CONTAINED IN FMEA COUNT

COMMUNICATIONS			
	IOA	NASA	ISSUES
FMEA	1037	643	394
CIL	273	221	286

EXPANDED IN
FIGURE 1.1B

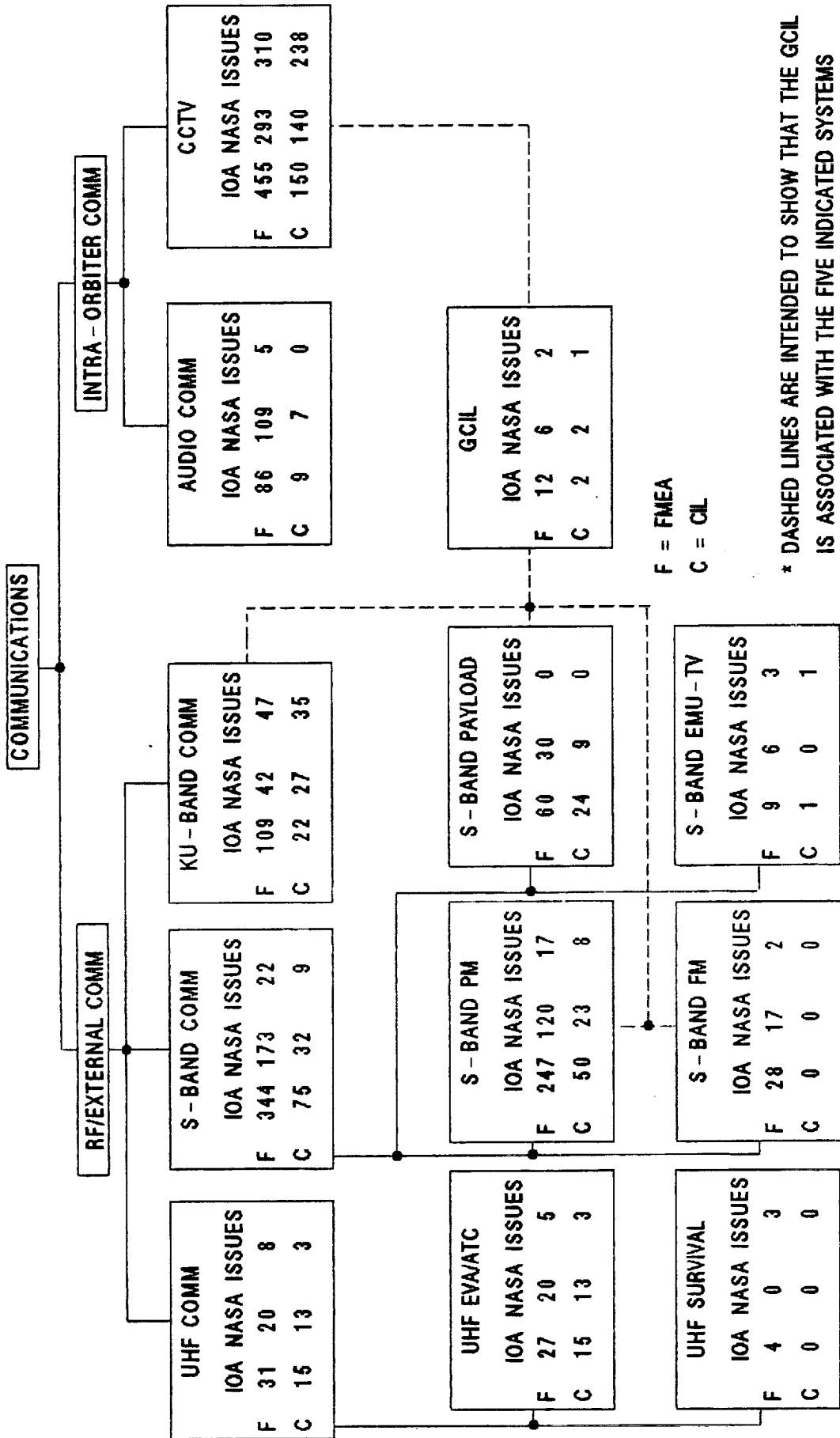


TRACKING (NAVAIDS)			
	IOA	NASA	ISSUES
FMEA	71	54	13
CIL	25	18	18

EXPANDED IN
FIGURE 1.1C

Figure 1.1a - COMMUNICATION AND TRACKING FMEA/CIL ASSESSMENT OVERVIEW SUMMARY

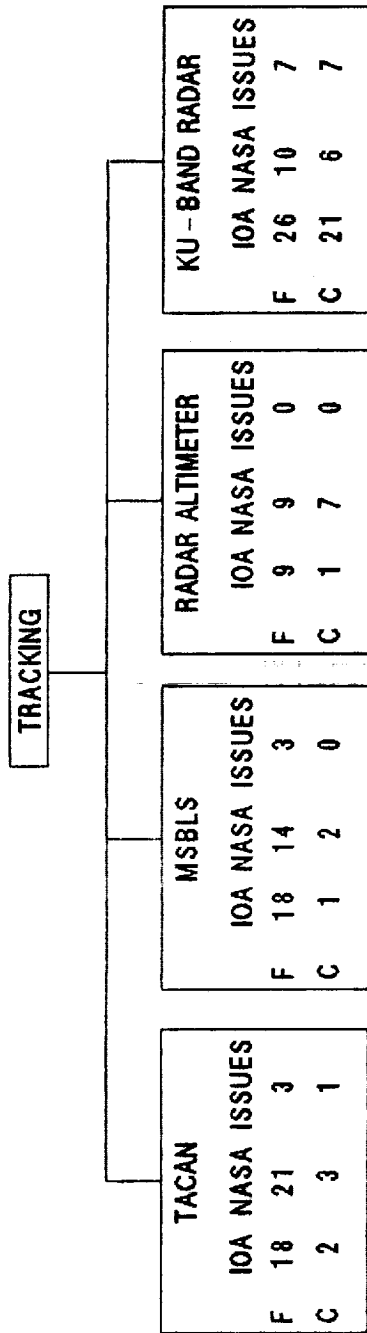
COMMUNICATIONS FMEA/CIL ASSESSMENT SUMMARY - EXPANDED



NOTE: CIL COUNT CONTAINED IN FMEA COUNT.

Figure 1.1b - COMMUNICATIONS FMEA/CIL ASSESSMENT SUMMARY - EXPANDED

COMMUNICATIONS FMEA/CIL ASSESSMENT SUMMARY - EXPANDED



F = FMEA
C = CIL

NOTE: CIL COUNT CONTAINED IN FMEA COUNT

Figure 1.1c - TRACKING FMEA/CIL ASSESSMENT OVERVIEW SUMMARY - EXPANDED

2.0 INTRODUCTION

2.1 Purpose

The 51-L Challenger accident prompted the NASA to readdress safety policies, concepts, and rationale being used in the National Space Transportation System (NSTS). The NSTS Office has undertaken the task of reevaluating the FMEA/CIL for the Space Shuttle design. The MDAC is providing an independent assessment of the Orbiter FMEA/CIL reevaluation results for completeness and technical accuracy.

2.2 Scope

The scope of the independent FMEA/CIL assessment activity encompasses those Shuttle Orbiter subsystems and GFE hardware identified in the Space Shuttle Independent FMEA/CIL Assessment Contractor Statement of Work. Each subsystem analysis addresses hardware, functions, internal and external interfaces, and operational requirements for all mission phases.

2.3 Analysis Approach

The independent analysis approach was a top-down analysis utilizing as-built drawings to breakdown the respective subsystem into components and low-level hardware items. Each hardware item was evaluated for failure mode, effects, and criticality. These data were documented in the respective subsystem analysis report, and used to assess the NASA and Prime Contractor FMEA/CIL reevaluation results. The IOA analysis approach is summarized in the following Steps 1.0 through 3.0. Step 4.0 summarizes the approach used in assessment of the NASA and Prime Contractor FMEAs/CILs.

Step 1.0 Subsystem Familiarization

- 1.1 Defined subsystem functions**
- 1.2 Defined subsystem components**
- 1.3 Defined subsystem specific ground rules and assumptions**

Step 2.0 Defined subsystem analysis diagram

- 2.1 Defined subsystem**
- 2.2 Defined major assemblies**
- 2.3 Developed detailed subsystem representations**

Step 3.0 Failure events definition

- 3.1 Constructed matrix of failure modes**
- 3.2 Documented IOA analysis results**

Step 4.0 Compared IOA analysis data to NASA FMEA/CIL

- 4.1 Differences were not resolved
- 4.2 Reviewed in-house
- 4.3 Documented assessment issues
- 4.4 Forward findings to Project Manager

2.4 Communication and Tracking Ground Rules and Assumptions

The Communication and Tracking ground rules and assumptions used in the IOA are defined in Appendix B. In addition, analysis/assessments were performed on Orbiter equipment only; no ground equipment or satellite equipment was included in this document. Assessments were performed using FMEAs available as of 1/1/88.

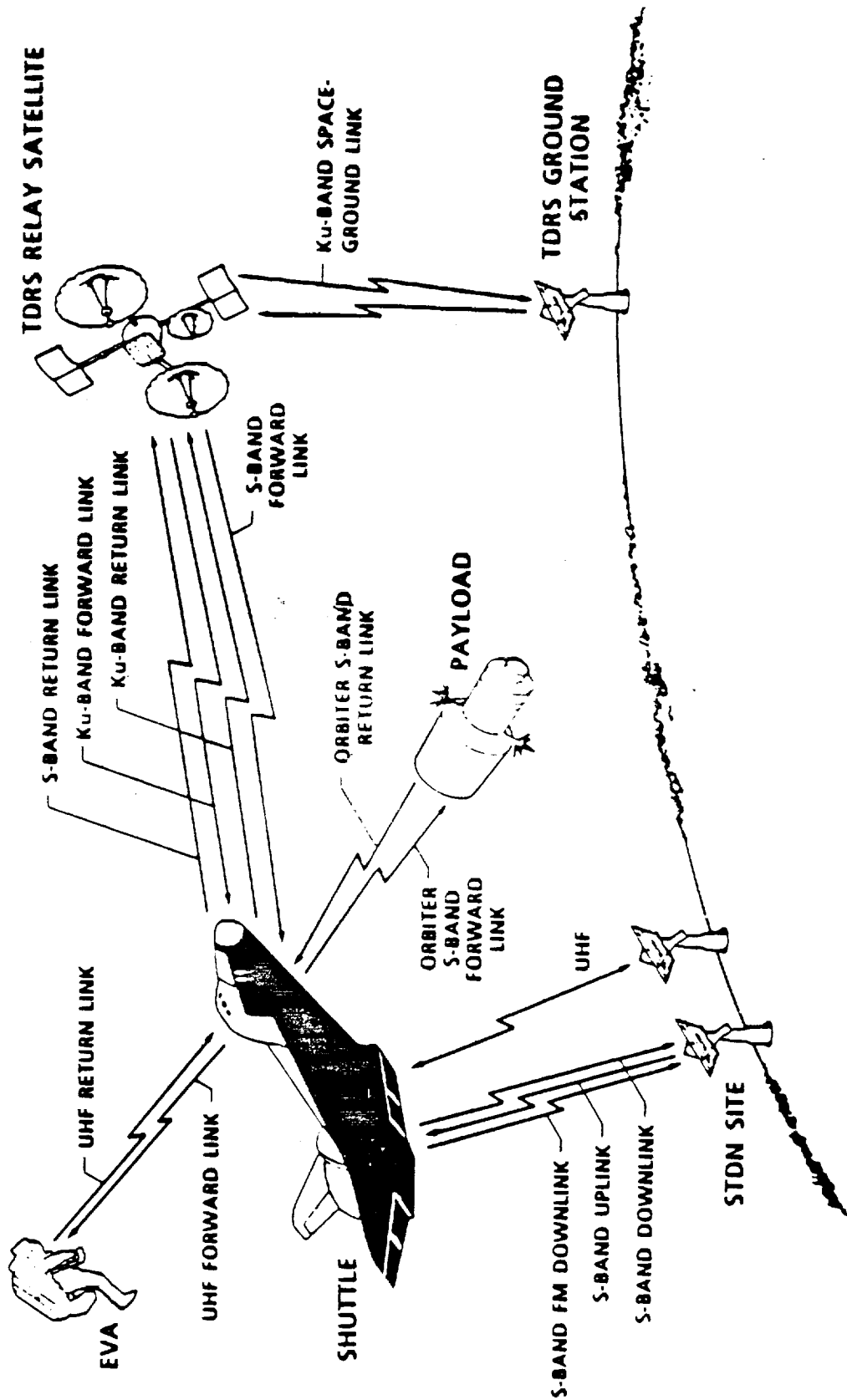


Figure 3.1 - COMMUNICATIONS AND TRACKING SUBSYSTEM PICTORAL

3.0 SUBSYSTEM DESCRIPTION

3.1 Design and Function

The Communication and Tracking Subsystem consists of all hardware required for ground communication, crew station communication, attached and detached payload communication, Ground Command Interface Logic (GCIL) commands, video, audio, and coded telemetry transmission and reception, and state vector updates. See figure 3.1. Electrical power distribution has been included where it meets the criteria established in NSTS 22206 for evaluation of each individual subsystem. Refer to Figures 3.2 through 3.21 for the location of each ORBITER subsystem and related Block Diagram. The following specific subsystem functions are included:

1. S-band Phase Modulation (PM) RF links provide two way communication either direct with NASA or DOD ground stations or via the Tracking and Data Relay Satellite (TDRS), for the following: commands, real time telemetry data, two way voice communication, teleprinter data, tone ranging (direct links only), and doppler tracking. Network Signal Processor functions are included in the S-Band PM system analysis. See Figure 3.5.
2. The S-band Frequency Modulation (FM) system provides for data transmission direct to ground. This FM signal can be modulated by selectable (one at a time): real time main engine (ME) data during launch, real time or playback Closed Circuit Television (CCTV) video, real time attached payload data, playback of Operations Recorder (telemetry and/or voice data), or playback of payload recorder digital data. See Figure 3.6.
3. Detached Payload two-way communication is via S-band payload system. This system provides a forward link (to the payload) for commands and a return link (from the payload) for telemetry. See Figure 3.7.
4. The Ku-band system is used for either two-way communications via the Tracking and Data Relay Satellite (TDRS) or for radar operations, but not simultaneously. The Ku-band forward link can transmit commands, voice, and forward data link either for text and graphics (TAGS) or for DOD commands via the communications interface unit (CIU). The return link provides capability for transmission of voice, telemetry, and TV video. The Ku-band system can be used only with payload bay doors open, during on-orbit operations. See Figures 3.8 and 3.18.
5. The UHF communication system provides voice communication between the Orbiter and ground stations, between the Orbiter and Astronauts on EVA, and distress (Guard) function on the international distress frequency. In the EVA mode. it can be used for duplex voice between Orbiter and up to two EVA

crewmembers, and for transmission of biomedical data to the Orbiter which can be interleaved with operational data downlinked to ground. UHF is also used for communication with Air Traffic Control (ATC) and chase aircraft during landing operations. The UHF amplitude modulation (AM) transceiver is capable of operation in four major modes and on four different frequencies. By selecting or bypassing the power amplifier, it will operate at 10 watts or 0.25 watts. See Figure 3.9.

6. The Audio Distribution System (ADS) gathers audio signals from multiple sources and routes them throughout the Orbiter. Through these eight audio loops, the crewmembers are able to communicate with each other, with Ground through access with external rf link equipment, with payloads or other spacecraft, or astronauts on EVA. Caution and Warning audio signals are passed through the audio system, as are TACAN ground station coded signals. Equipment included in the ADS are the Audio Central Control Unit (ACCU), Audio Terminal Units (ATU), Speaker Microphone Units (SMU), Audio Center, and Crew Communications Umbilical (CCU) jack. See Figures 3.10 through 3.13.
7. Navigation Aids include three Tactical Air Navigation (TACAN) receivers operating in a redundant set mode, two independent Radar Altimeters (RA) for low altitude terrain tracking and altitude sensing, and the Microwave Scan Beam Landing System (MSBLS), which is a Ku-band receiver-transmitter landing and navigation aid with decoding and computational capabilities. The Ku-band system can be used in its radar mode for rendezvous operations. See Figures 3.14 through 3.20.
8. Closed Circuit Television (CCTV) is provided to support on-orbit activities. Monitors are provided for the Orbiter crew to observe select activities. Cameras may be controlled by ground control or by panel controls. TV video can be downlinked by either Ku-band or S-band FM.
9. Crew Equipment/Government Furnished Equipment (GFE) includes the following items which have been included in this analysis: Comm Carrier Electronics Module, Interim Teleprinter, Interim Video Tape Recorder (VTR), Headset Interface Unit (HIU), Headset Cables, Wireless Crew Communication System (WCCS), Audio Central Control Unit (ACCU) bypass, Very Lightweight Headset, handheld microphone, multiple headset adapter, PRC-90 hand-held beacon/voice transceiver, and AN/URT-33 RF beacon transmitter.
10. EMU TV provides video scenes selected by the EVA helmet mounted camera. The scenes are transmitted by S-band FM transmissions to the Orbiter for distribution in the Orbiter CCTV system.

11. The GCIL controller provides the capability of controlling selected subsystem functions in either the PANEL or COMMAND mode. In the PANEL mode, selected subsystems are under control of the manual Displays and Controls (D&C) panel switches; in the COMMAND mode these subsystems are controlled by uplinked ground commands or commands entered via the Orbiter keyboards. There are five PANEL/ COMMAND mode switches to control given functions of the following systems: S-band PM, S-band FM, CCTV, Ku-band, and S-band Payload. See Figure 3.21.

TABLE I COMMUNICATIONS AND TRACKING EQUIPMENT LOCATIONS

NOMENCLATURE	COMMUNICATIONS	USE/INSTALLED LOCATION
S-Band PM System		
Transponder		Avionics Bay 3A
Power Amplifier (2, one encl)		Avionics Bay 3A
Preamplifier (2, one encl)		Avionics Bay 3A
Panel Control Switches		Panel A1
GCIL Command/Panel Switch		Panel C3
Antenna Switch/Beam Switch		Avionics Bay 3A
Manual Quad Antenna Switch		Panel C3
Quad Antennas (4)		Forward Fuselage
Network Signal Processor (2)		
S-Band FM System		
Transmitter (2)		Avionics Bay 3A
Signal Processor (2, one encl)		Avionics Bay 3A
Panel Control Switches		Panel A1
RF Transfer Switch		Avionics Bay 3A
Antenna Switch		Avionics Bay 3A
Hemi Antennas (2)		Upper, Lower Centerline, Cabin Area
S-Band Payload System		
Payload Interrogater (2)		Avionics Bay 2
Signal Processor (2)		Avionics Bay 2
Panel Control Switches		Panel A1
Antenna		Upper Centerline, Cabin Area
Ku-Band Communications System		
EA1-Comm Data Processor, Antenna Control		Avionics Bay 3A
EA2-Radar Data Processor		Avionics Bay 3A
Signal Processor Assembly		Avionics Bay 3A
Deployed Assembly (RF, Antenna Gimbals, Gyro Assembly)		Right Sill Longeron, behind cabin
Panel Control Switches		Panel A1, Panel ML86B, Panel R13
Jettison Controls		Panel ML86B, Panel A14
Audio System		
Audio Control Unit (2, one encl)		Avionics Bay 1
Audio 1/2 Power Switch		Panel C3
Audio Termination Units, Panel Controls		Various Crew Stations
Crew Equipment (Headsets, etc.)		Various Orbiter Locations

UHF EVA/ATC System	Avionics Bay 3A
Transceiver	Payload Bay EVA Locations
EVA Transceivers	Panel 06, Panel A1
Panel Controls	Lower Centerline,
UHF Antenna, External	Cabin Area
UHF Antenna, Internal	Airlock
GCIL	Avionics Bay 3A
Logic Modules, Drivers	Panel C3 (S-Band PM/NSP)
GCIL Panel/Command Switches	Panel A1 (S-Band FM, Payload, Ku-Band)
CCTV	Aft Flight Deck
CCTV Monitors	Panel A7, Panel L12,
Panel Control Switches	Panel R11, Payload Bay, Various Locations in Orbiter
EMU TV	Crewman Helmet/Suit,
EMU TV Camera/S-Band Transmtr,	Various EVA Locations
Antenna, Battery Pack	Middeck
EMU TV Receiver, Video Processing Unit, RF Cables	
Text and Graphics System (TAGS)	Avionics Bay 3B
TAGS Hard Copier	

TABLE II COMMUNICATIONS AND TRACKING EQUIPMENT LOCATIONS

NOMENCLATURE	TRACKING/NAVAIDS	USE/INSTALLED LOCATION
TACAN System		
TACAN LRU (3)		Avionics Bay 1 (one) Bay 2 (one) Bay 3A (one)
TACAN Panel Control Switches		Panel 07
TACAN Antenna (3)		Upper Fuselage, Nose
TACAN Antenna (3)		Lower Fuselage, Nose
MSBLS		
MSBLS RF Assembly (3)		Avionics Bay 1 (one), Bay 2 (two)
MSBLS Decoder Assembly (3)		Avionics Bay 1 (one), Bay 2 (two)
MSBLS Antenna (3)		Upper Fuselage, Nose
MSBLS Panel Control Switches		Panel 08
RADAR ALTIMETER System		
RADAR ALTIMETER LRU (2)		Avionics Bay 1, Avionics Bay 2
Panel Control Switches		Panel 08
Antenna		Lower Forward Fuselage
Ku-BAND RADAR System		
EA1- Comm data processor, ant control		Avionics Bay 3A
EA2- Radar data processor Deployed Assembly (RF, Antenna, Gimbals, Gyro Assembly)		Avionics Bay 3A Right Sill Longeron, behind cabin
Panel Control Switches		Panel A1, Panel ML86B, Panel R13
Jettison Controls		Panel ML86B, Panel A14

3.2 Interfaces and Locations

Various parts of the Communication and Tracking Subsystem are located throughout the Orbiter. S-band quad antennae are positioned on the forward upper and lower fuselage on the starboard and port sides. S-band hemi antennae are centered directly above and below the flight deck, with the payload antenna behind the upper hemi antenna. (Figure 3.20) The Ku-band antenna is mounted at the forward starboard sill longeron. (Figure 3.18) The three TACAN LRUs each have an upper and lower antenna, mounted in front of the flight deck windows and directly below that location on the lower fuselage. (Figure 3.19) MSBLS antennae are on the upper forward nose, in front of the TACAN antennae location. (Figure 3.17) The Radar Altimeter antennae is mounted on the lower nose, close to the nose wheel bay. (Figure 3.17)

Avionics bays 1, 2, 3A, and 3B contain the individual LRUs for each of the systems analyzed herein. Panel controls for each of the systems are located on the various panels on the Flight Deck, Aft Station, Mid-deck, and other locations for mission specific panels. See Tables I and II for equipment locations.

3.3 Hierarchy

Figures 3.2 through 3.4 illustrate the hierarchy of the Communication and Tracking Subsystem hardware and the corresponding subcomponents.

IOA
COMMUNICATIONS AND TRACKING SUBSYSTEM OVERVIEW

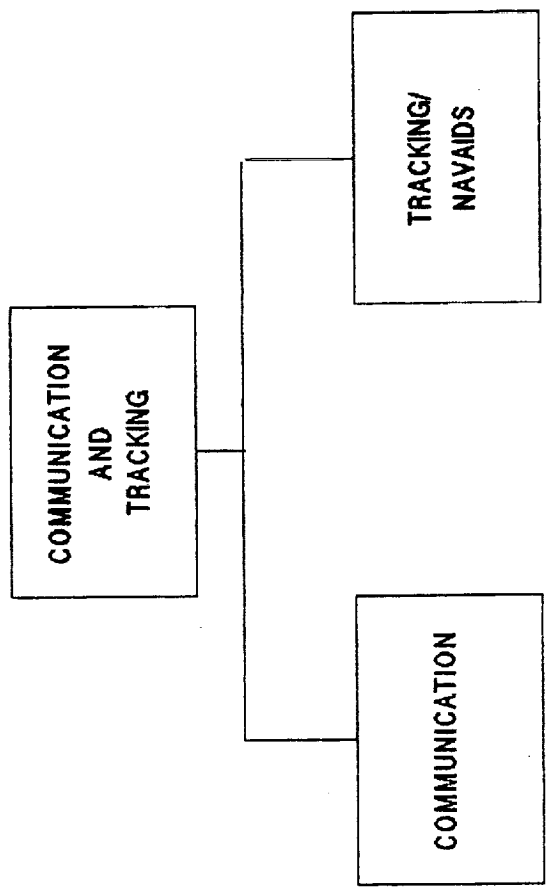


Figure 3.2 - COMMUNICATIONS AND TRACKING SUBSYSTEM OVERVIEW

COMMUNICATIONS AND TRACKING DETAILED REPRESENTATION OVERVIEW

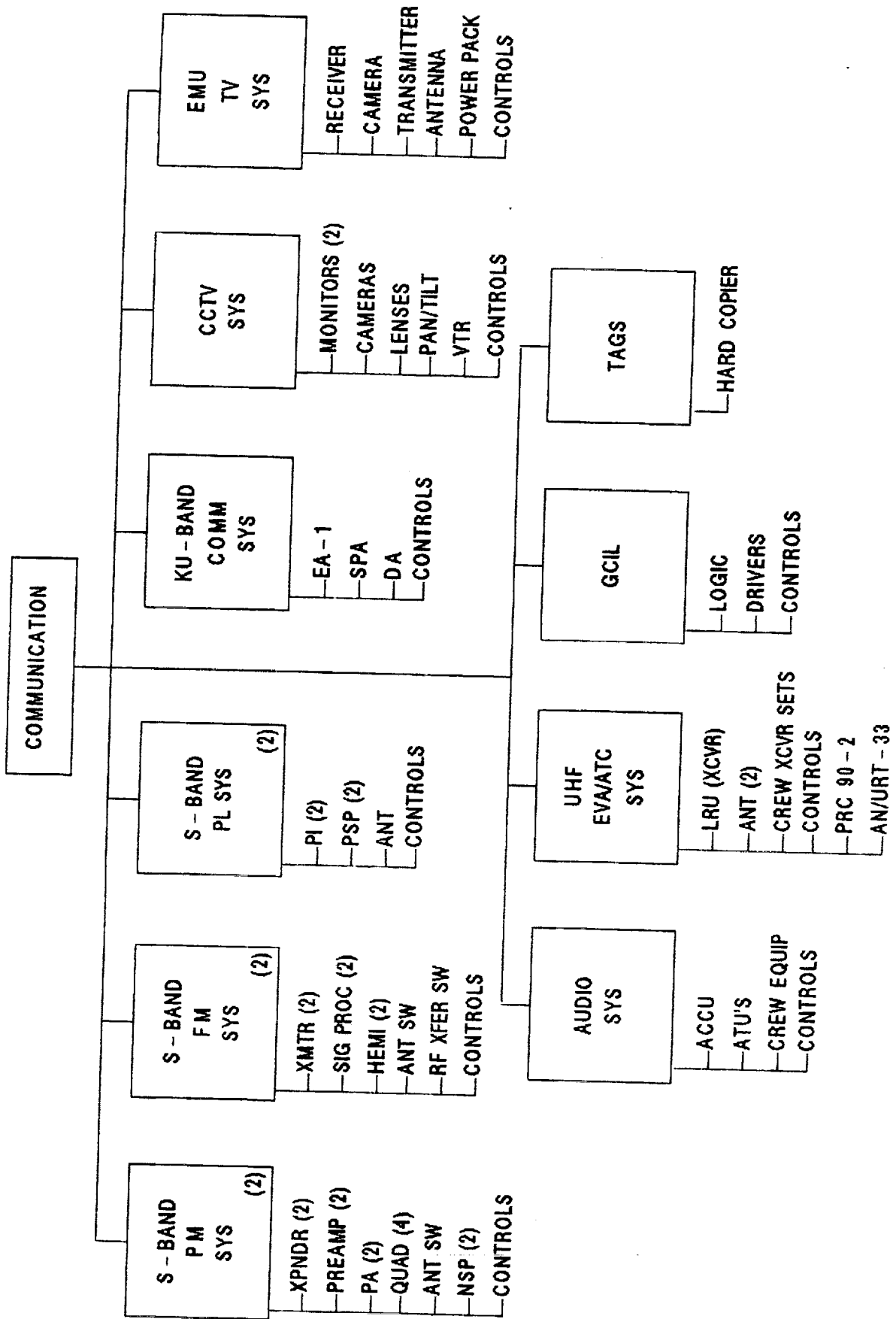


Figure 3.3 - COMMUNICATIONS SYSTEM HIERARCHY

COMMUNICATIONS AND TRACKING DETAILED REPRESENTATION OVERVIEW

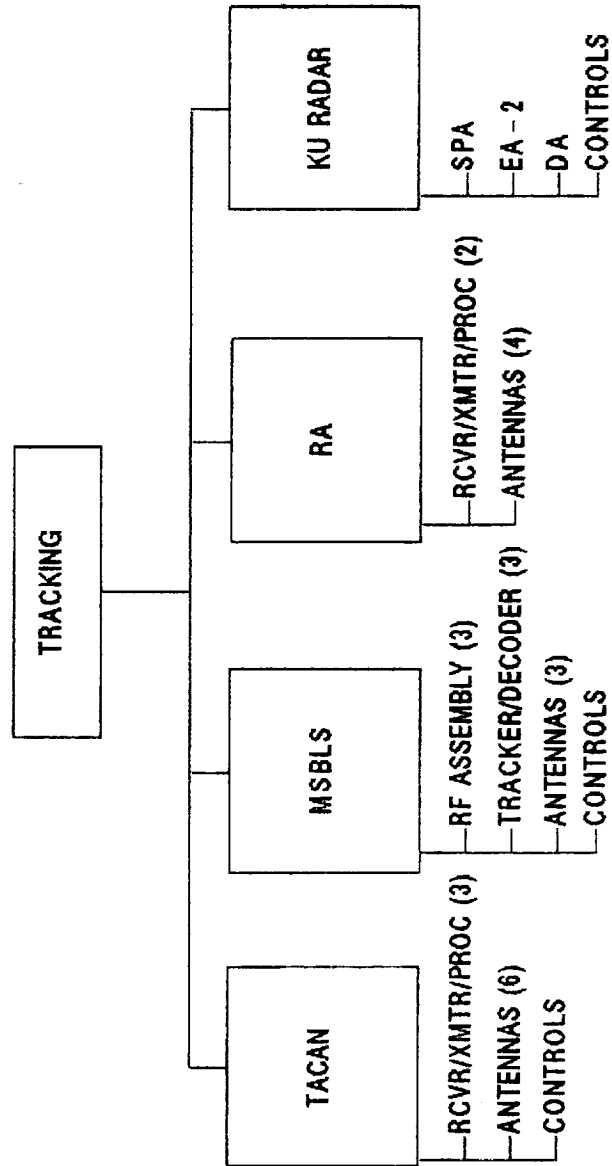


Figure 3.4 - TRACKING SYSTEM HIERARCHY

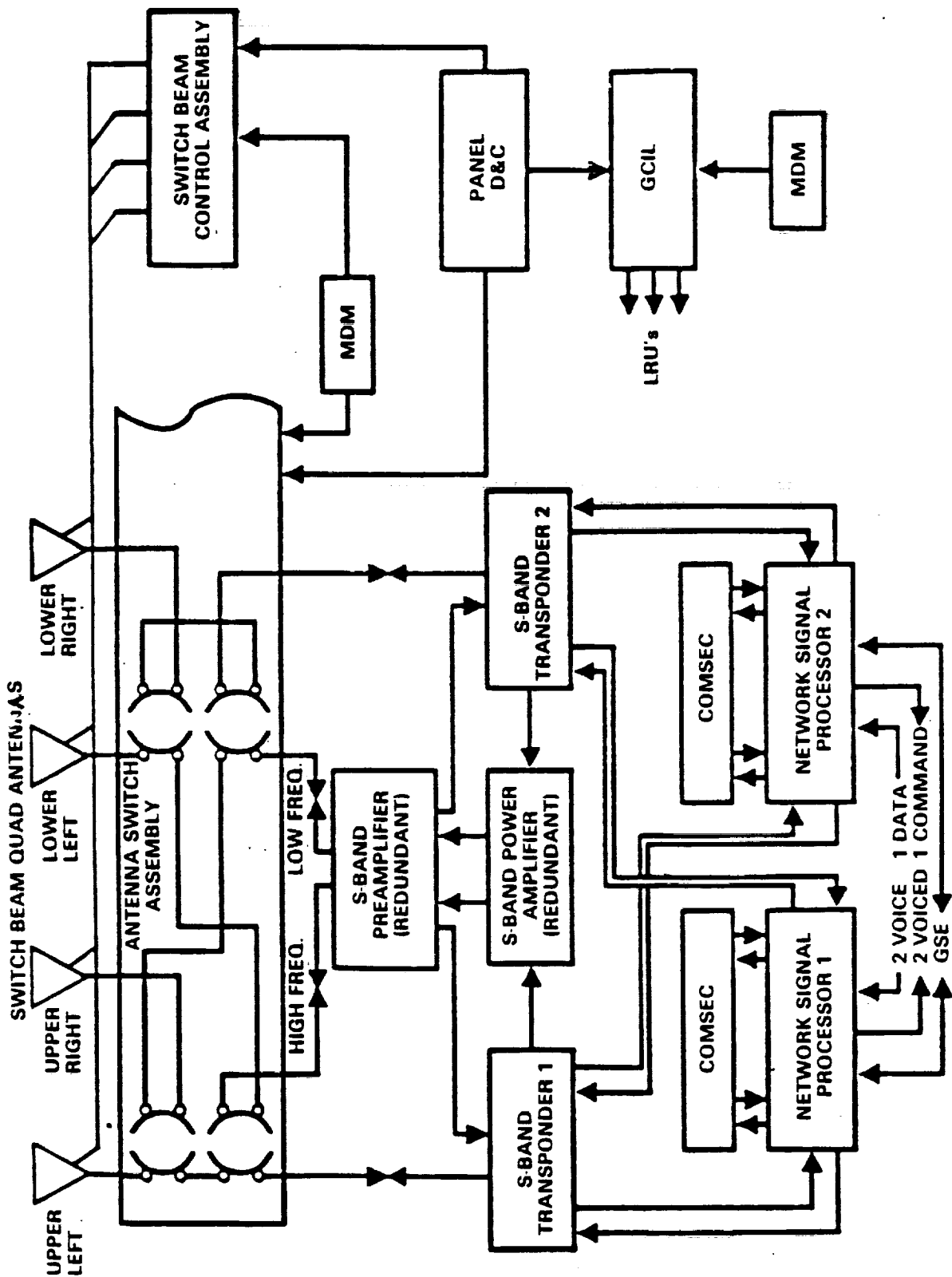


Figure 3.5 - S-BAND PM COMMUNICATIONS

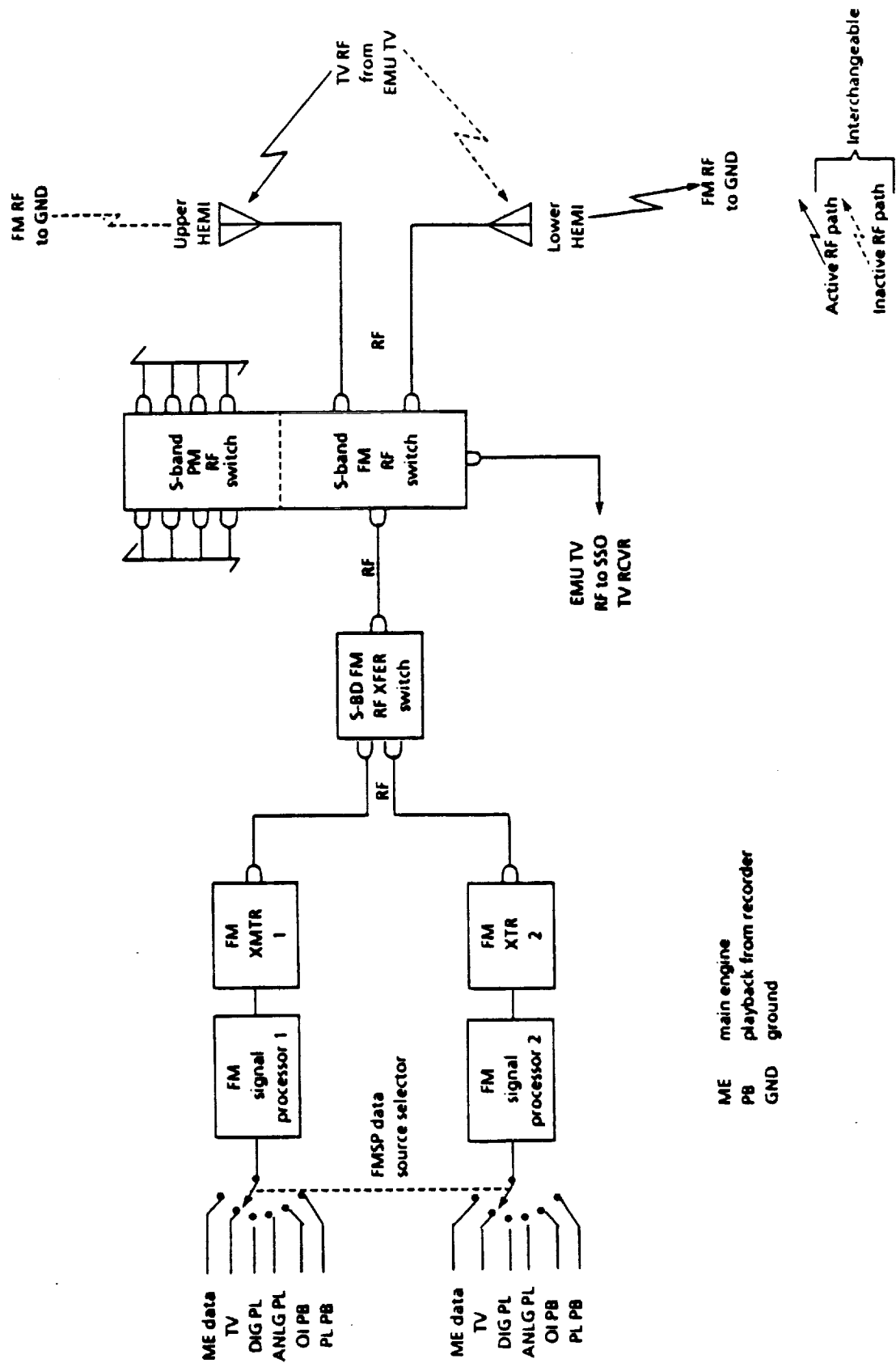


Figure 3.6 - S-BAND FM SYSTEM BLOCK DIAGRAM

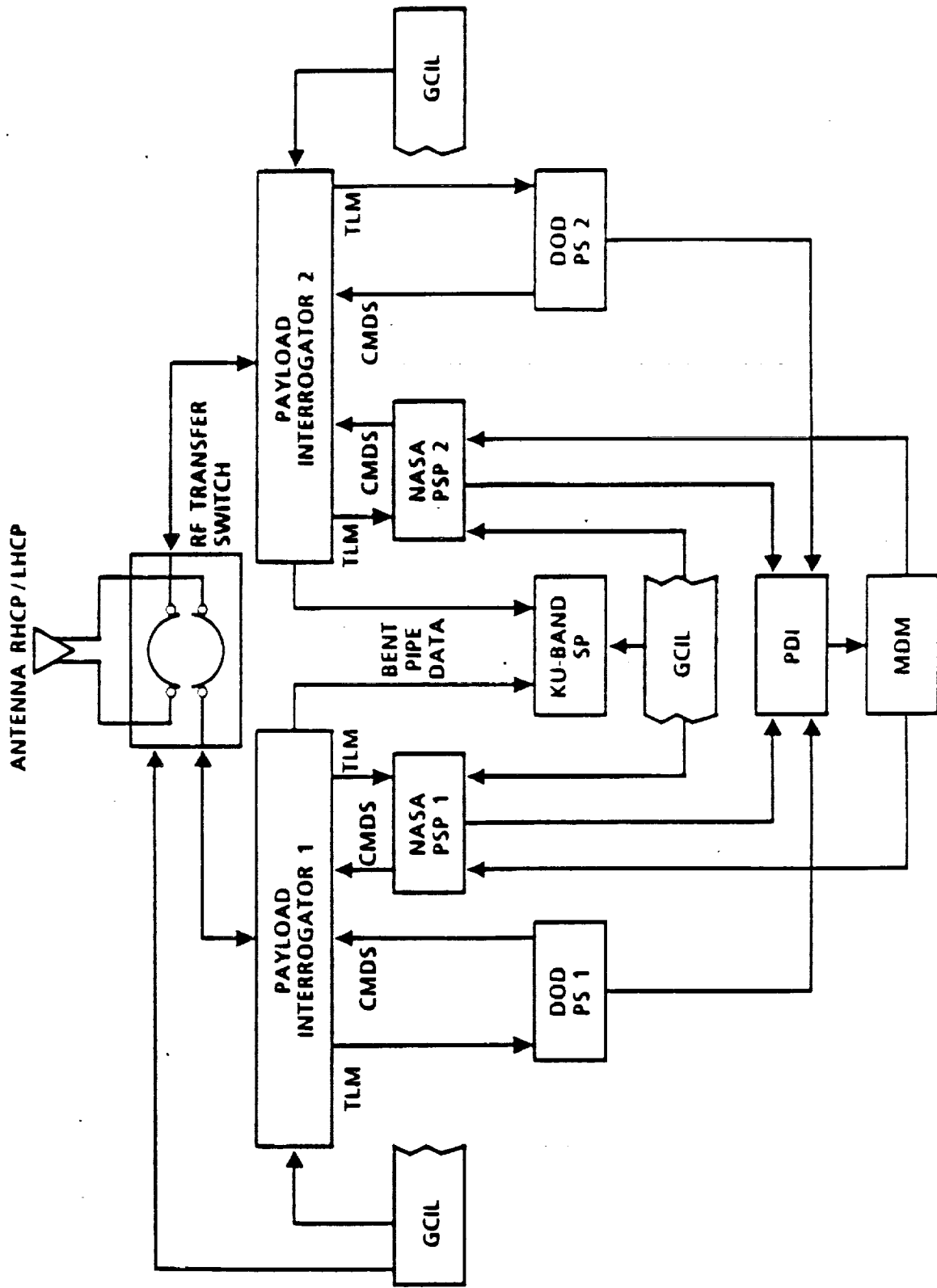
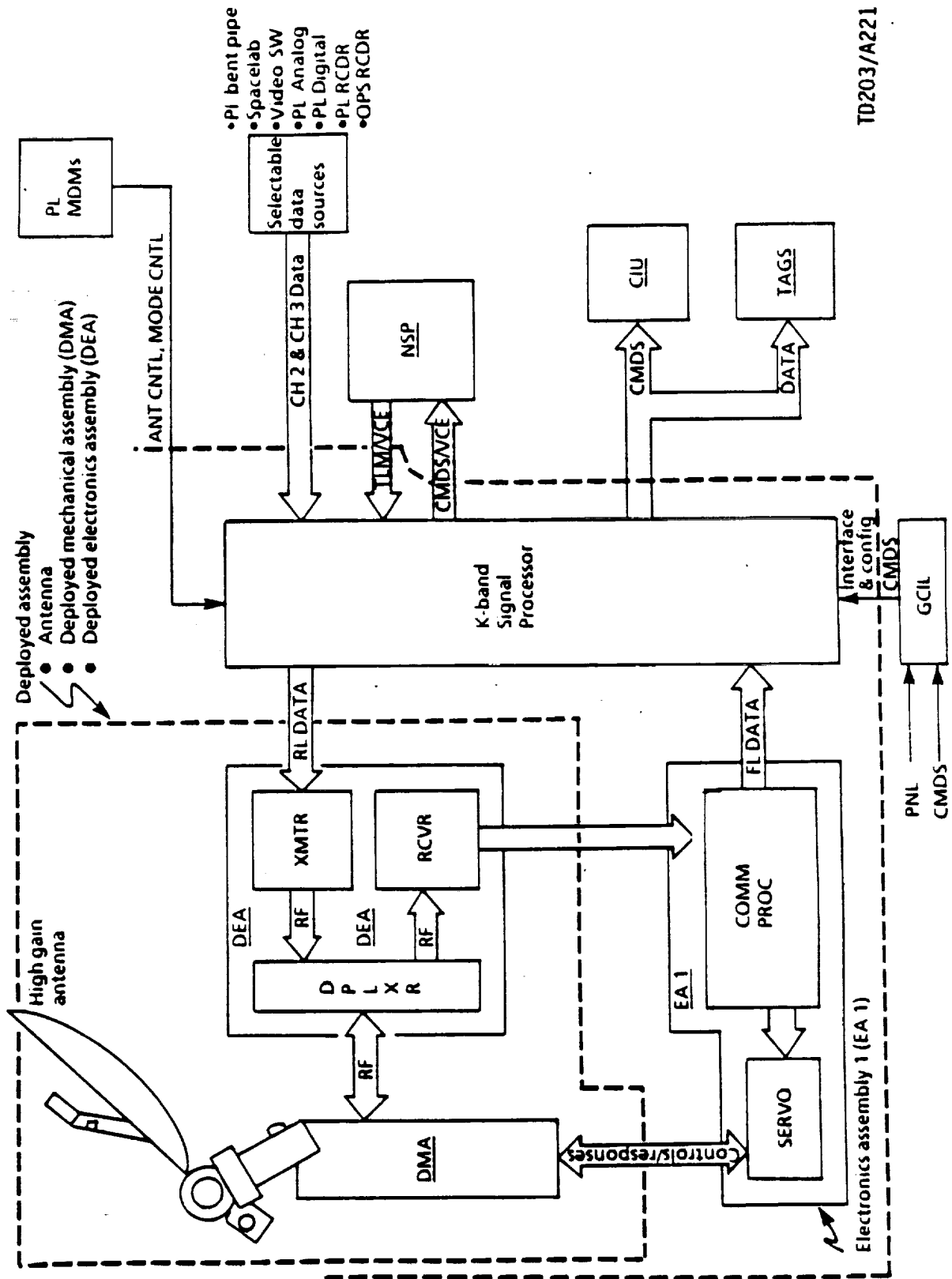
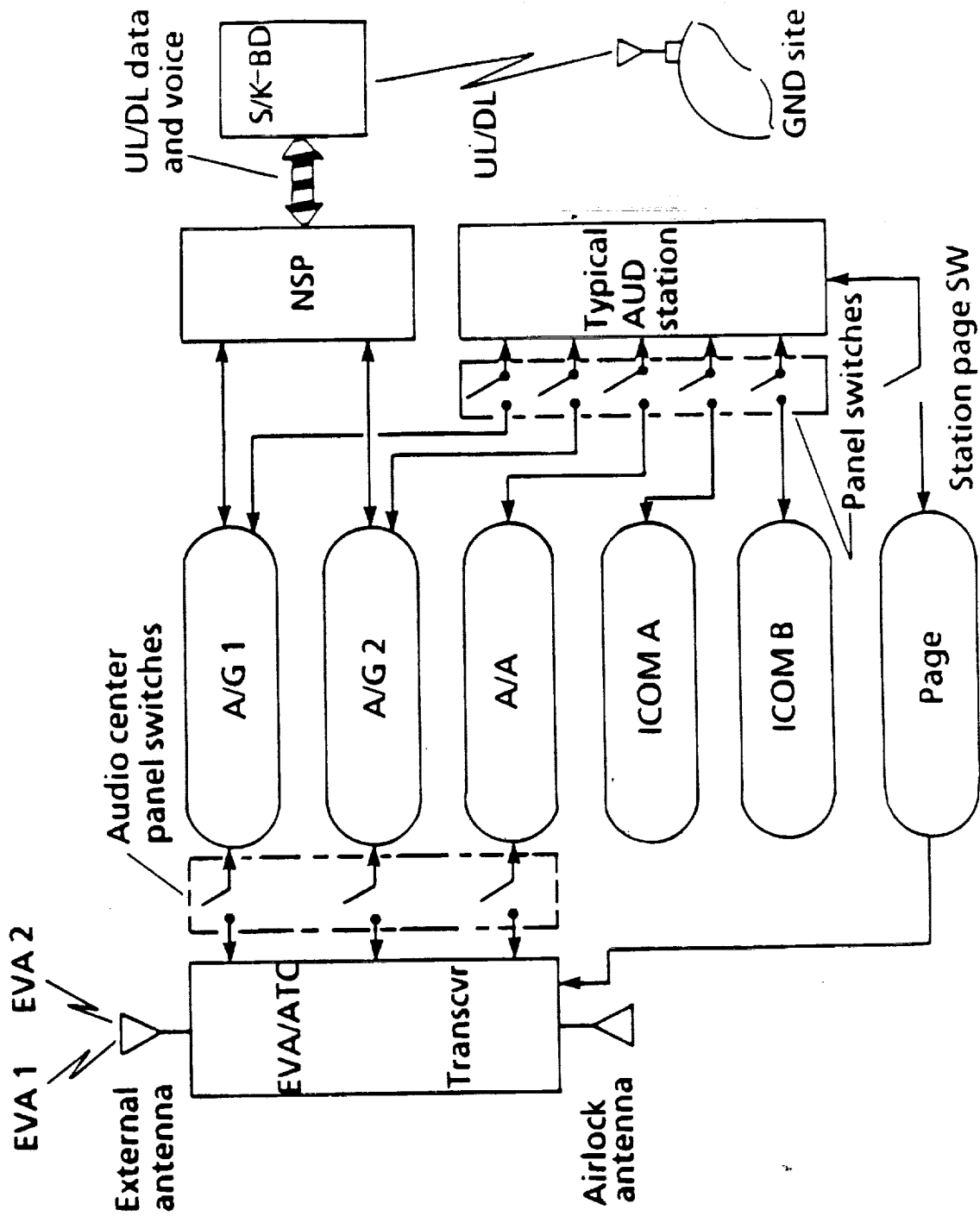


Figure 3.7 - S-BAND PAYLOAD COMMUNICATIONS



TD203/A221

Figure 3.8 - KU-BAND COMMUNICATIONS SYSTEM BLOCK DIAGRAM



*EVA has page listen capability

Figure 3.9 - UHF/AUDIO INTERFACE BLOCK DIAGRAM

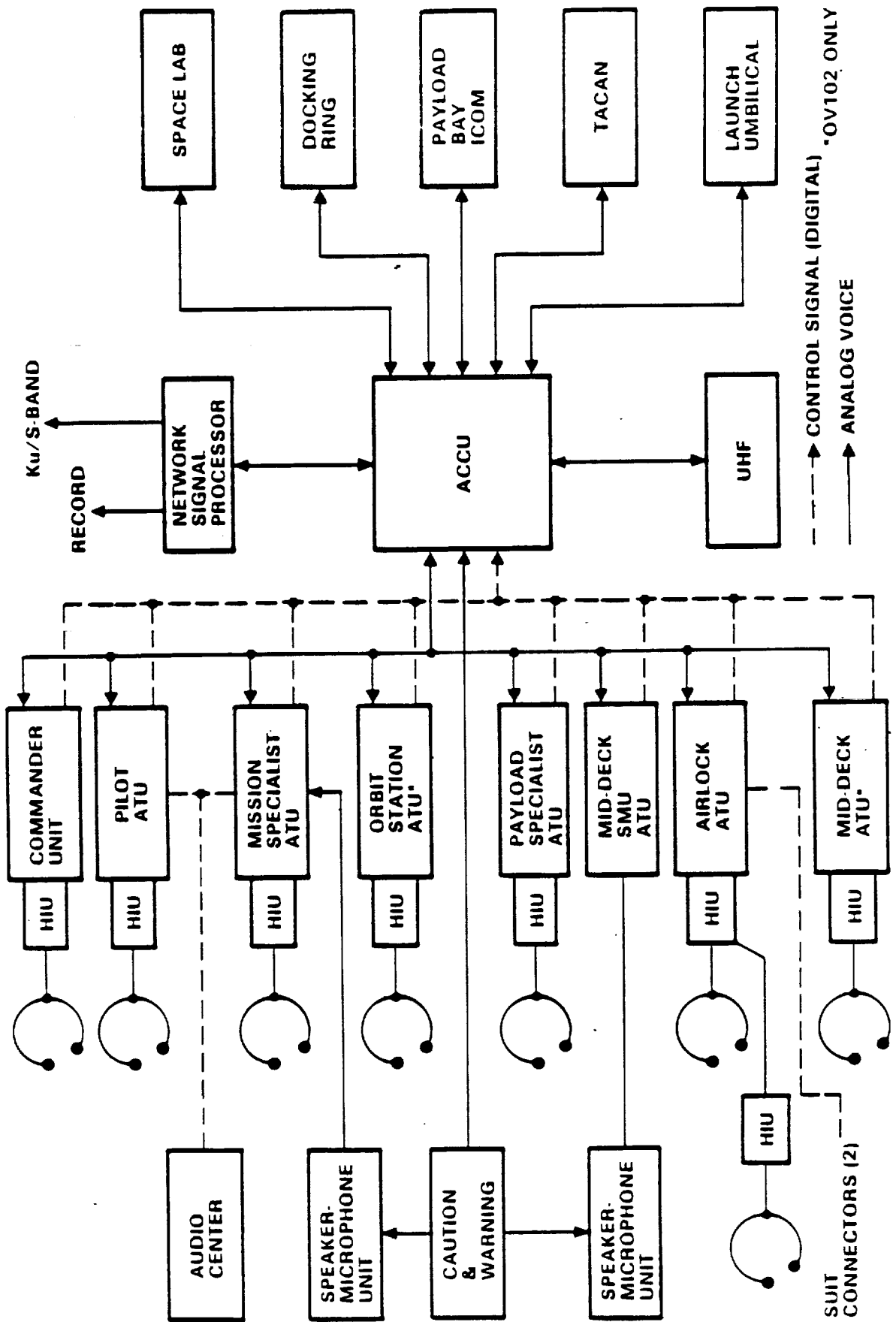
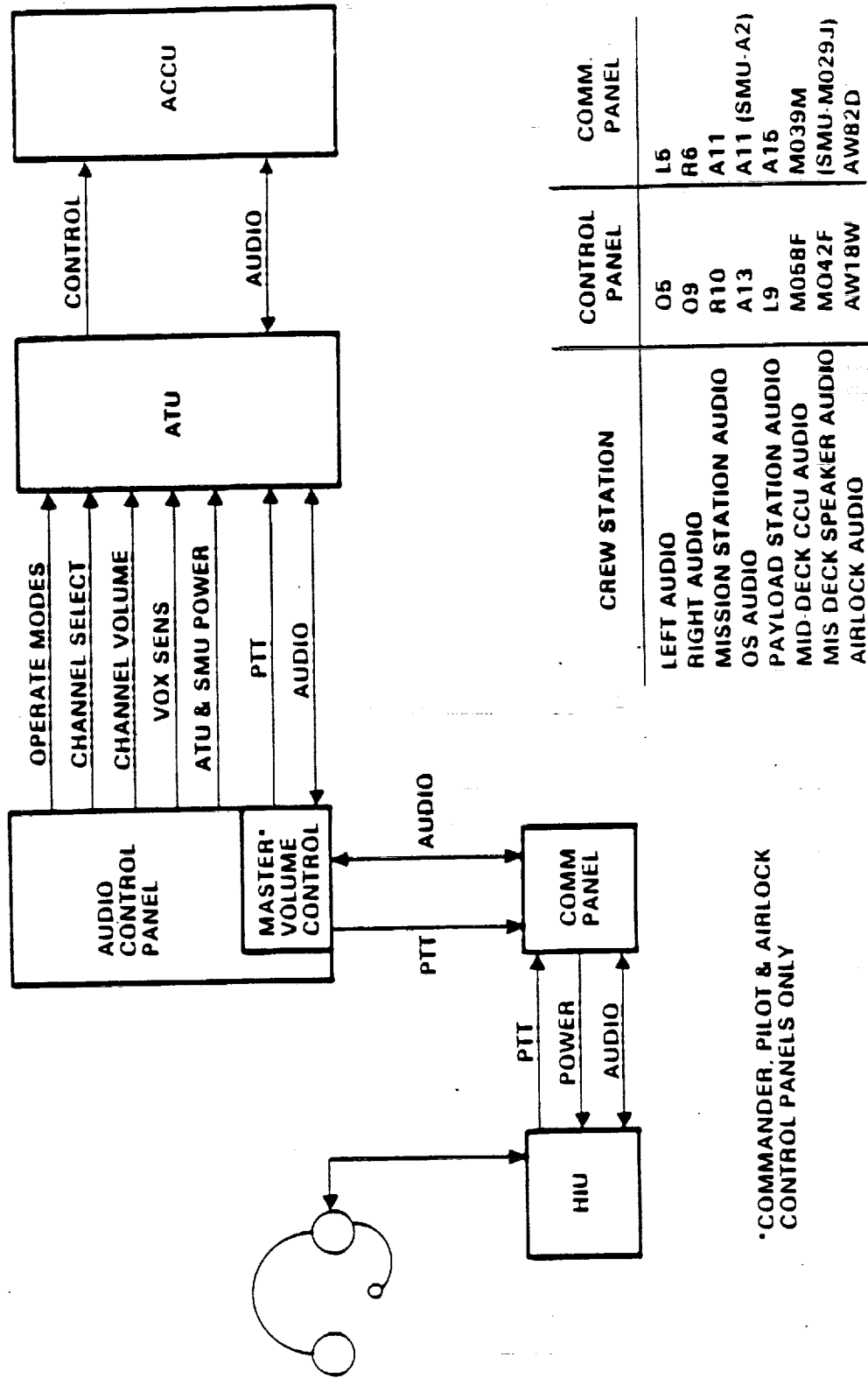


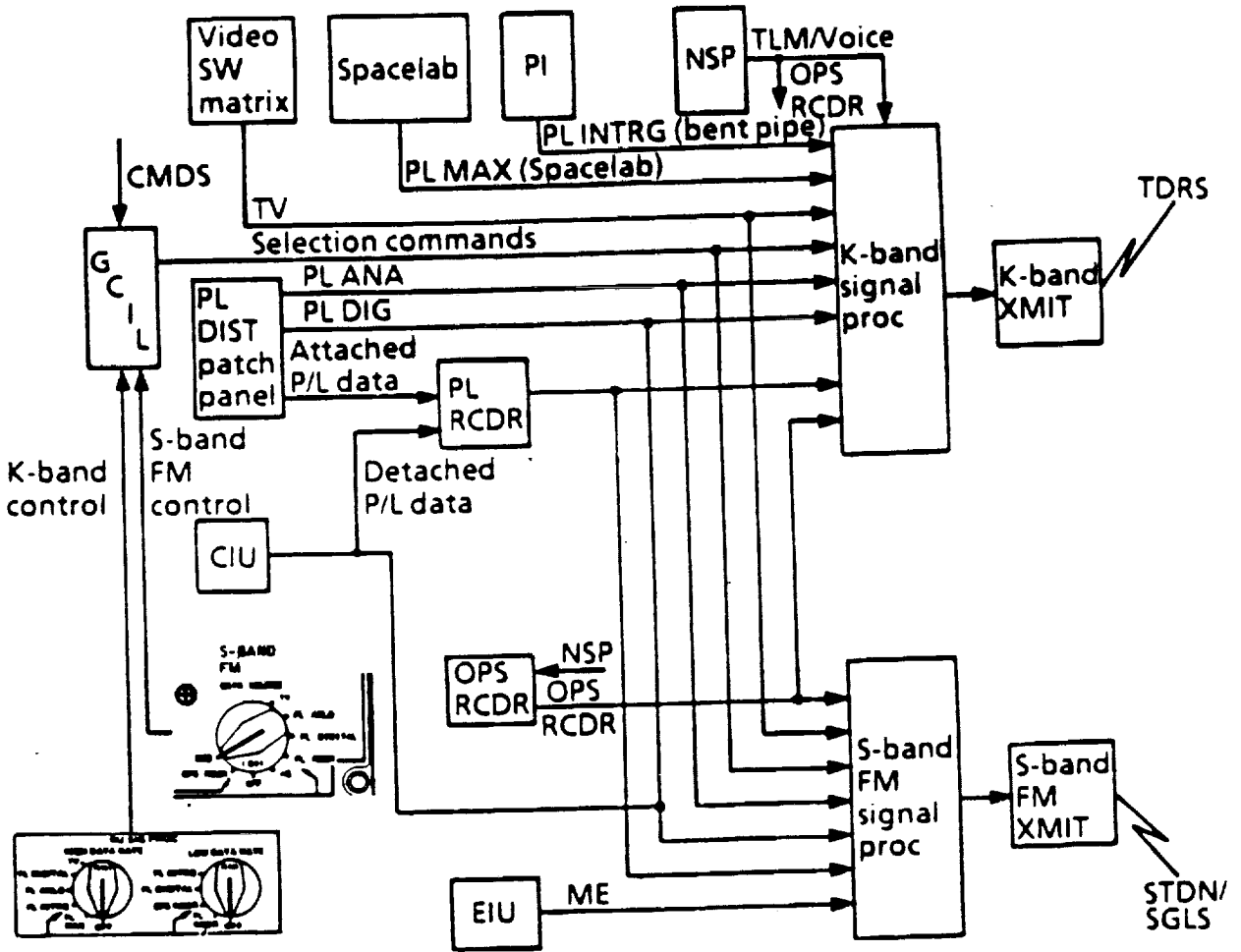
Figure 3.10 - AUDIO DISTRIBUTION SYSTEM BLOCK DIAGRAM



*COMMANDER, PILOT & AIRLOCK CONTROL PANELS ONLY

Figure 3.11 - TYPICAL CREW STATION AUDIO BLOCK DIAGRAM

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Figure 3.12 - SELECTED DATA SOURCES FUNCTIONAL BLOCK DIAGRAM

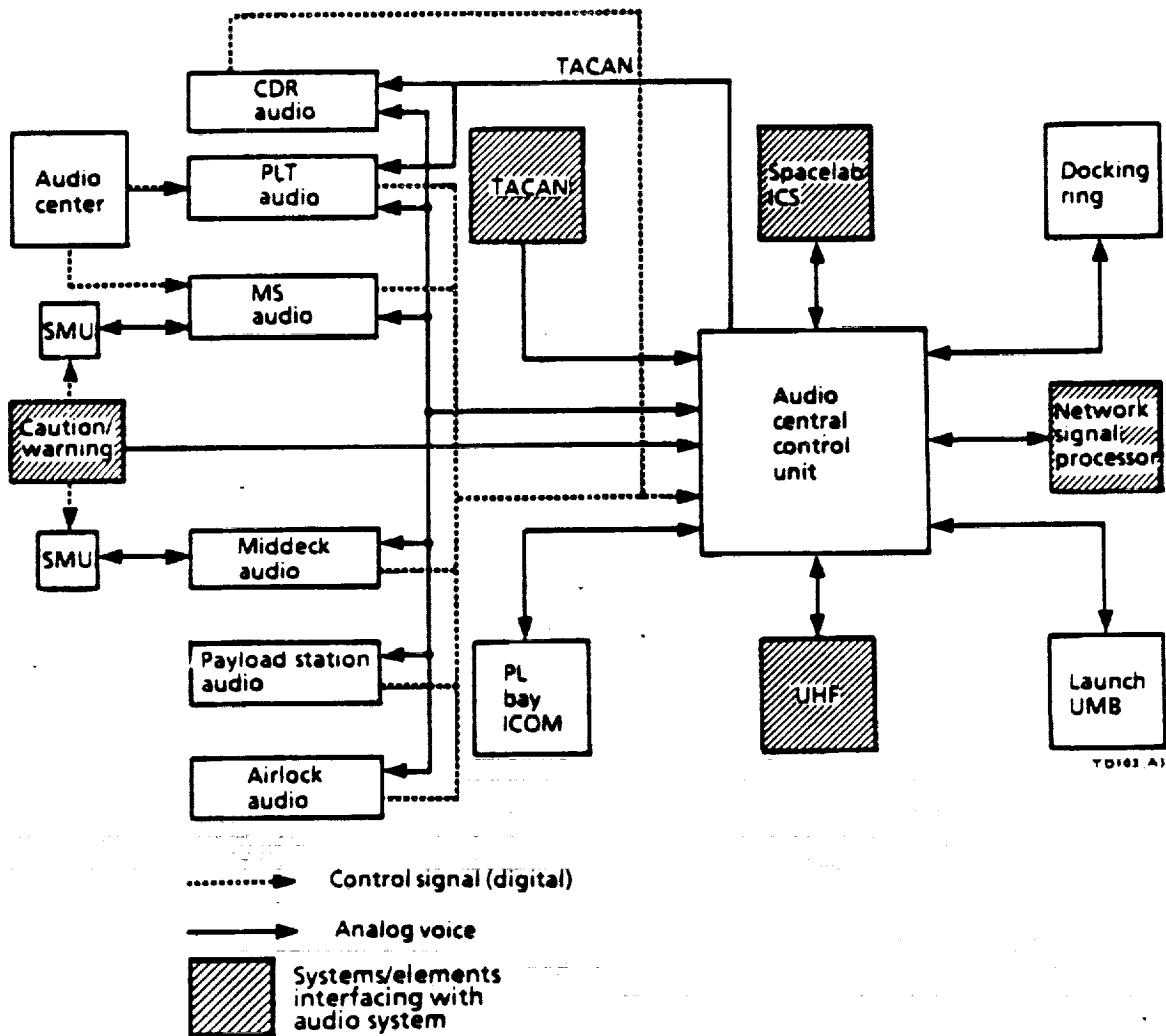


Figure 3.13 - AUDIO LOOPS AND SYSTEM INTERFACE

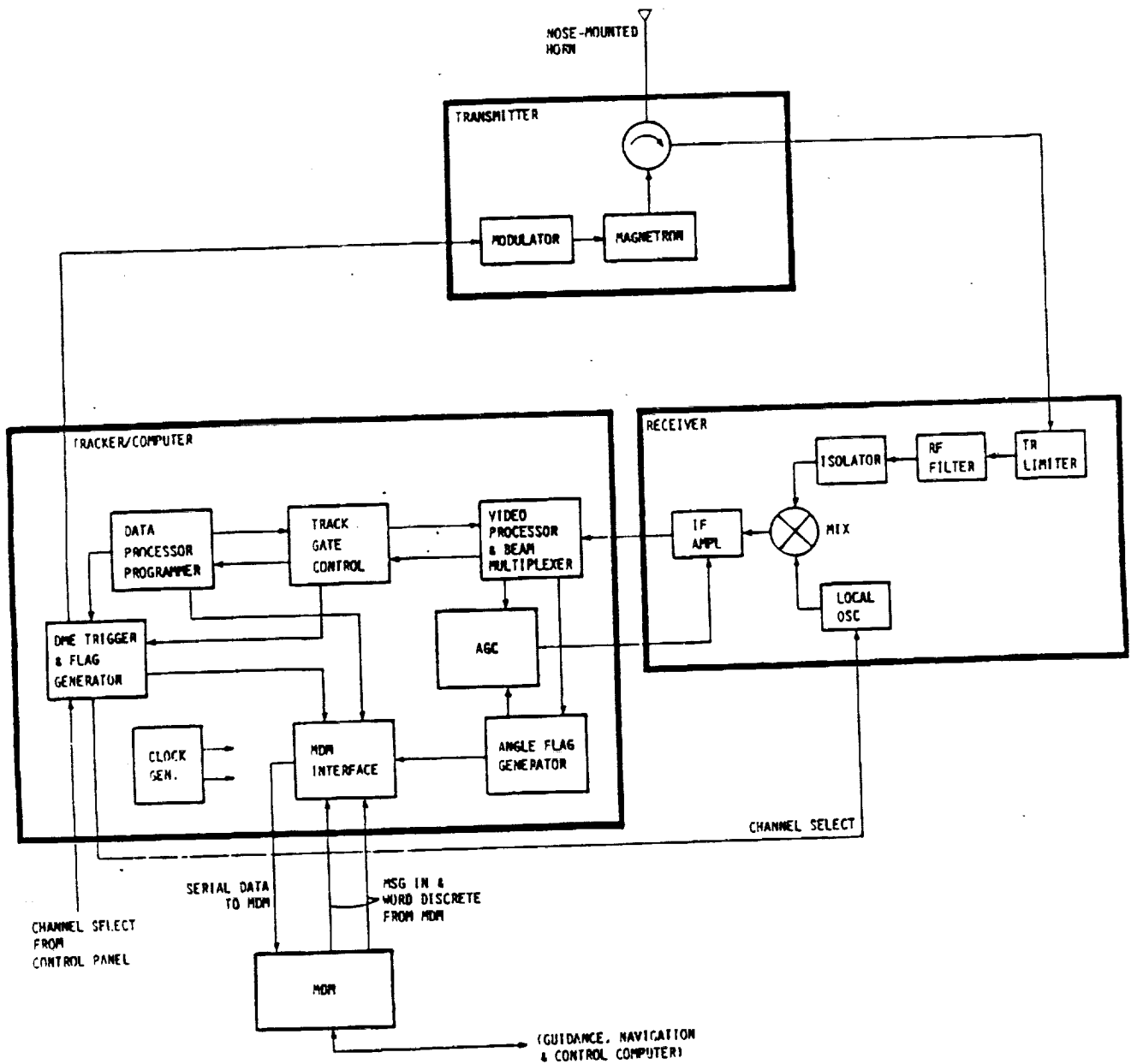


Figure 3.14 - MSBLS FUNCTIONAL BLOCK DIAGRAM

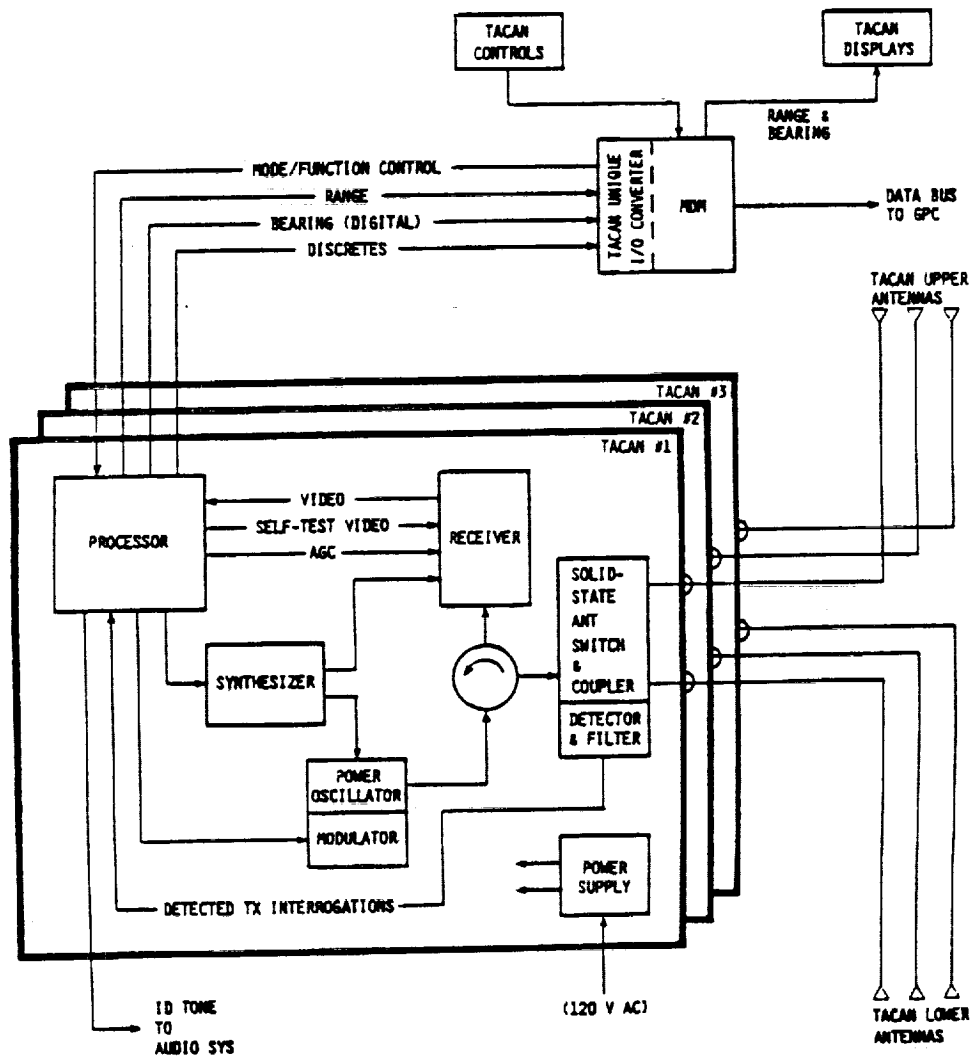


Figure 3.15 - TACAN FUNCTIONAL BLOCK DIAGRAM

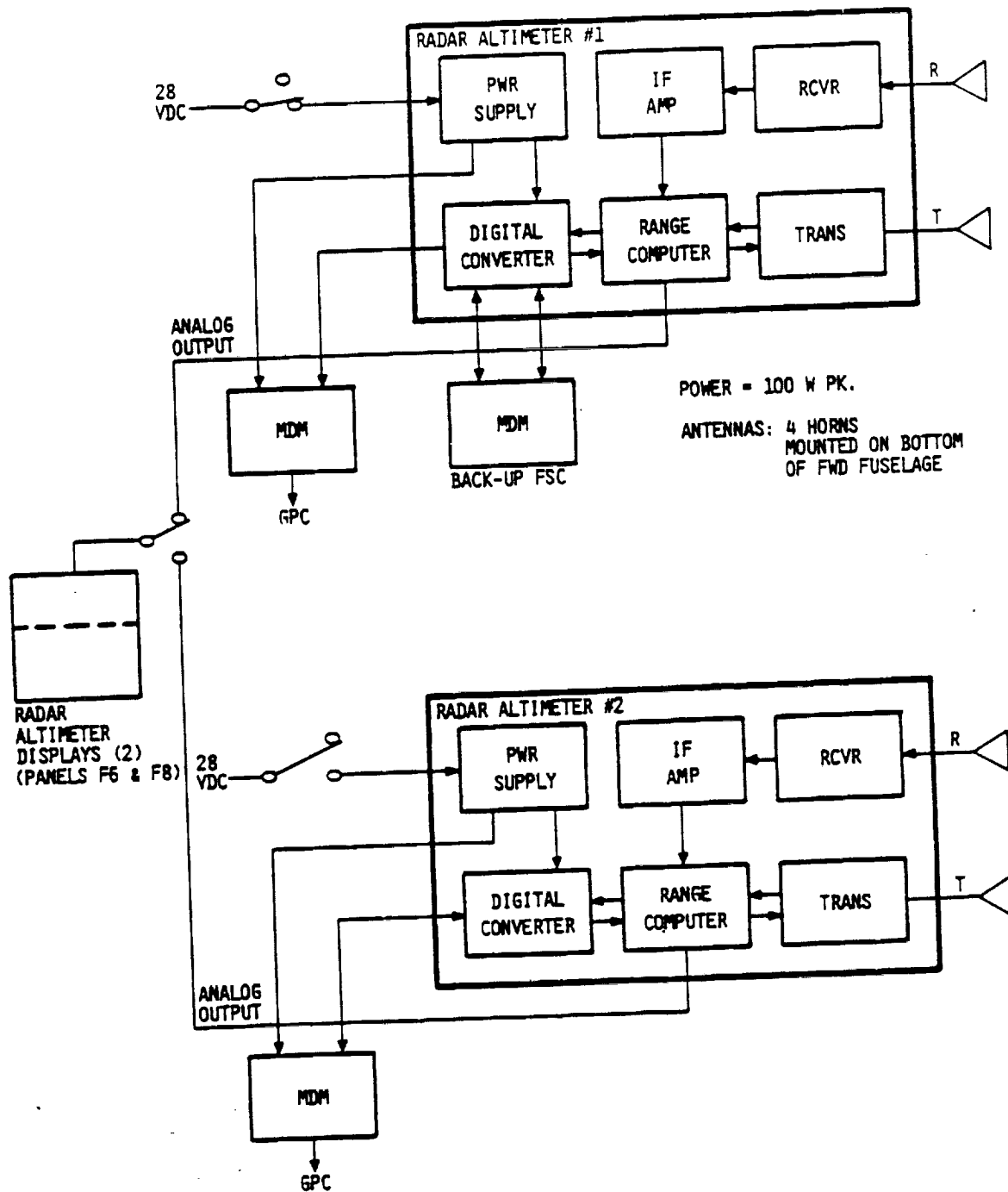


Figure 3.16 - RADAR ALTIMETER FUNCTIONAL BLOCK DIAGRAM

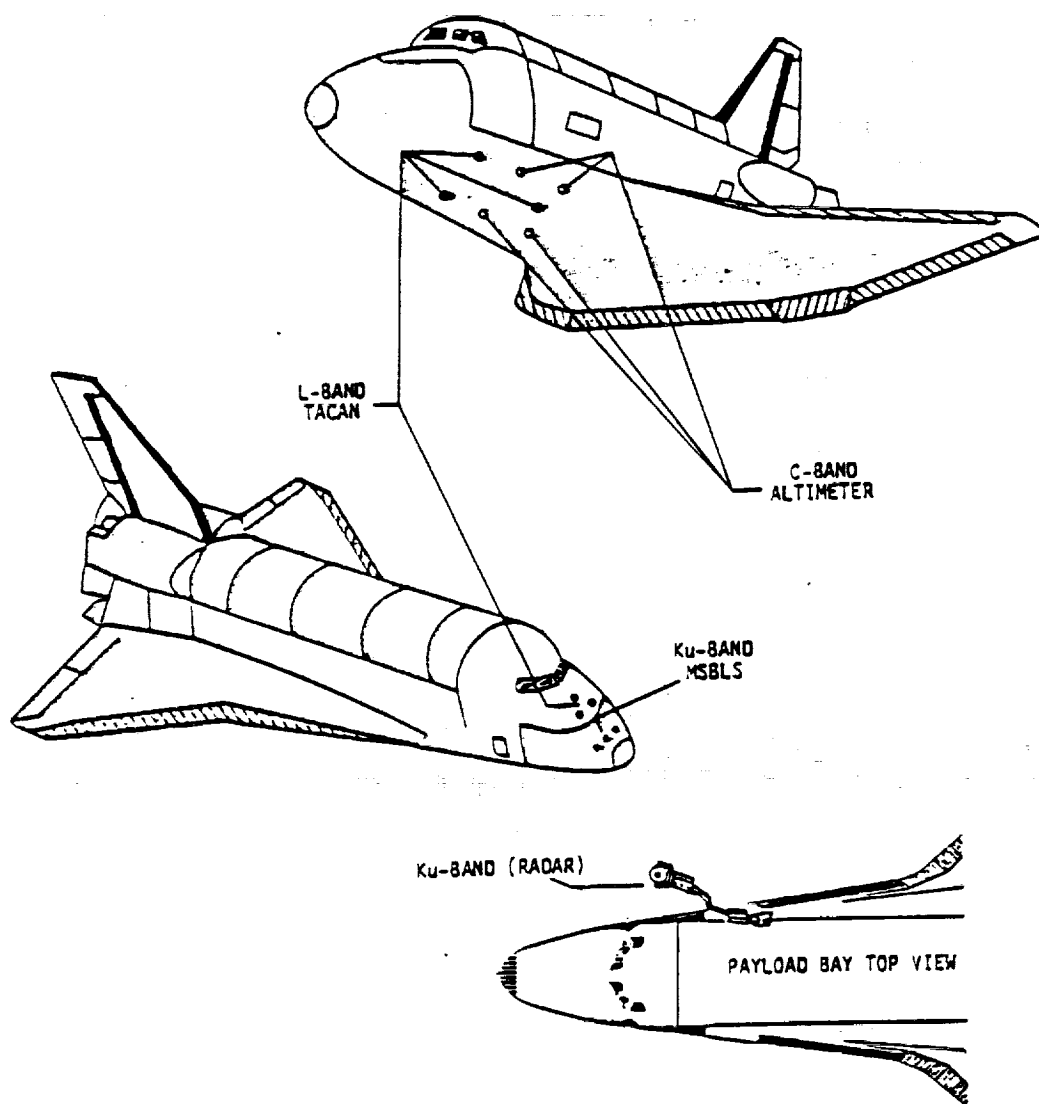


Figure 3.17 - NAVIGATIONAL ANTENNA LOCATIONS

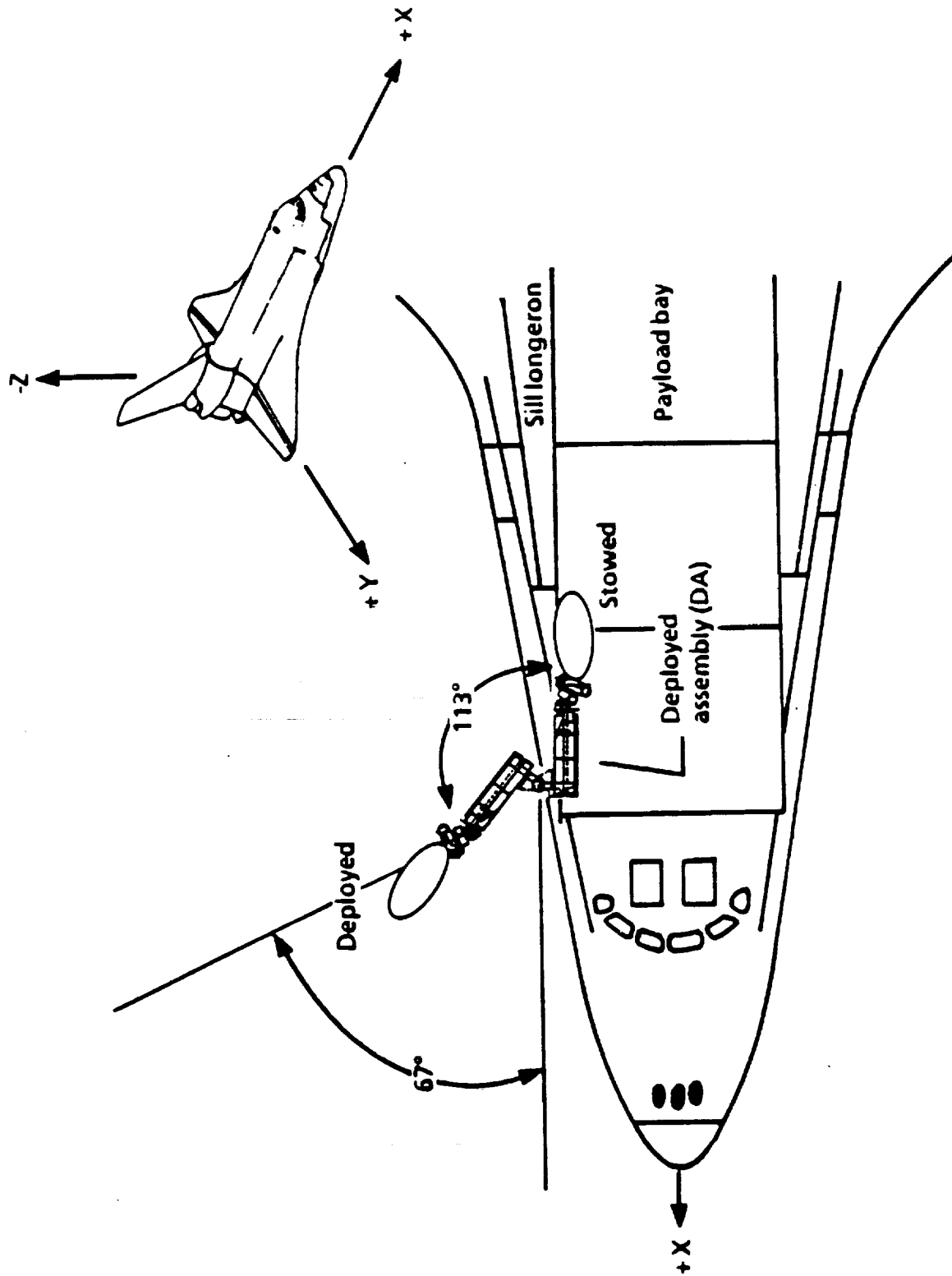


Figure 3.18 - DEPLOYED KU-BAND ANTENNA ASSEMBLY LOCATION

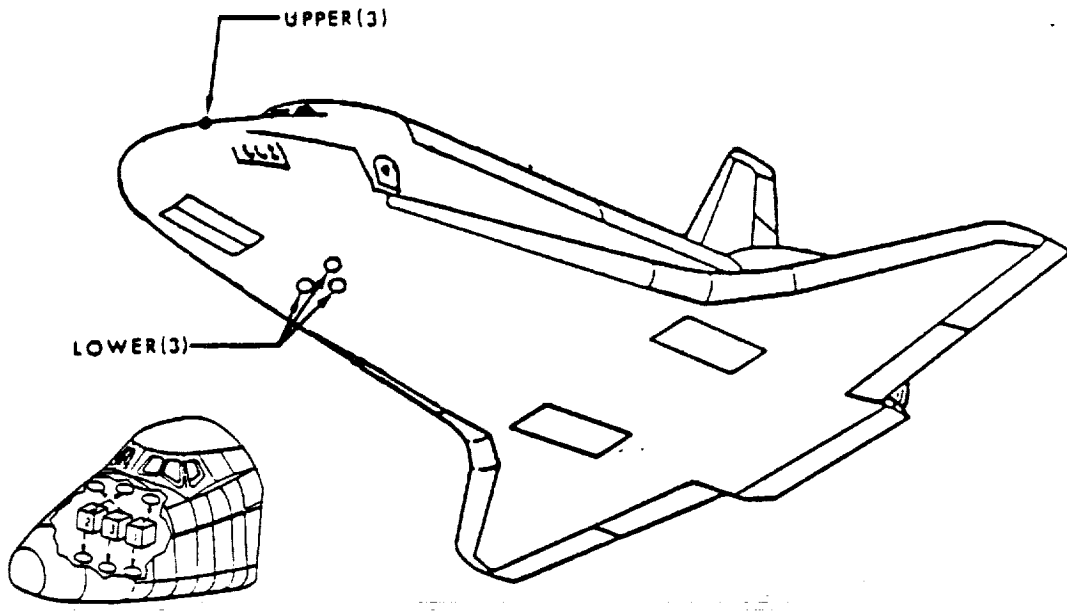
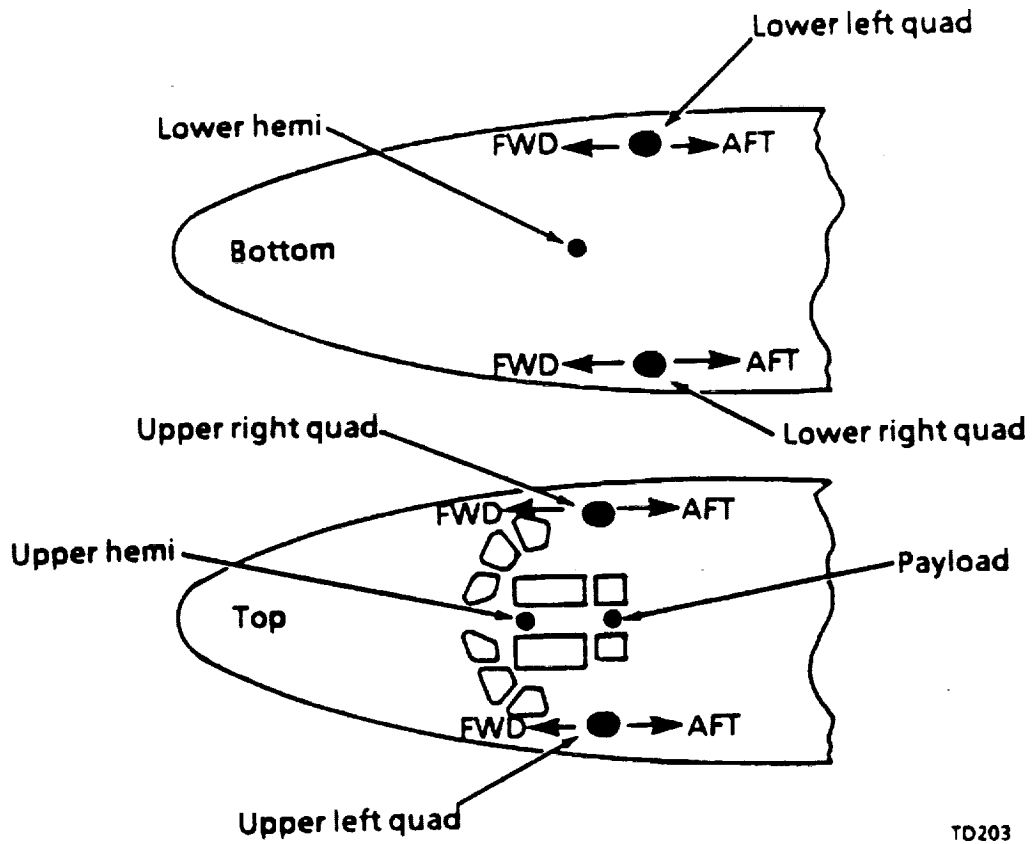


Figure 3.19 - TACAN ANTENNA LOCATION



TD203

Figure 3.20 - S-BAND ANTENNA LOCATIONS

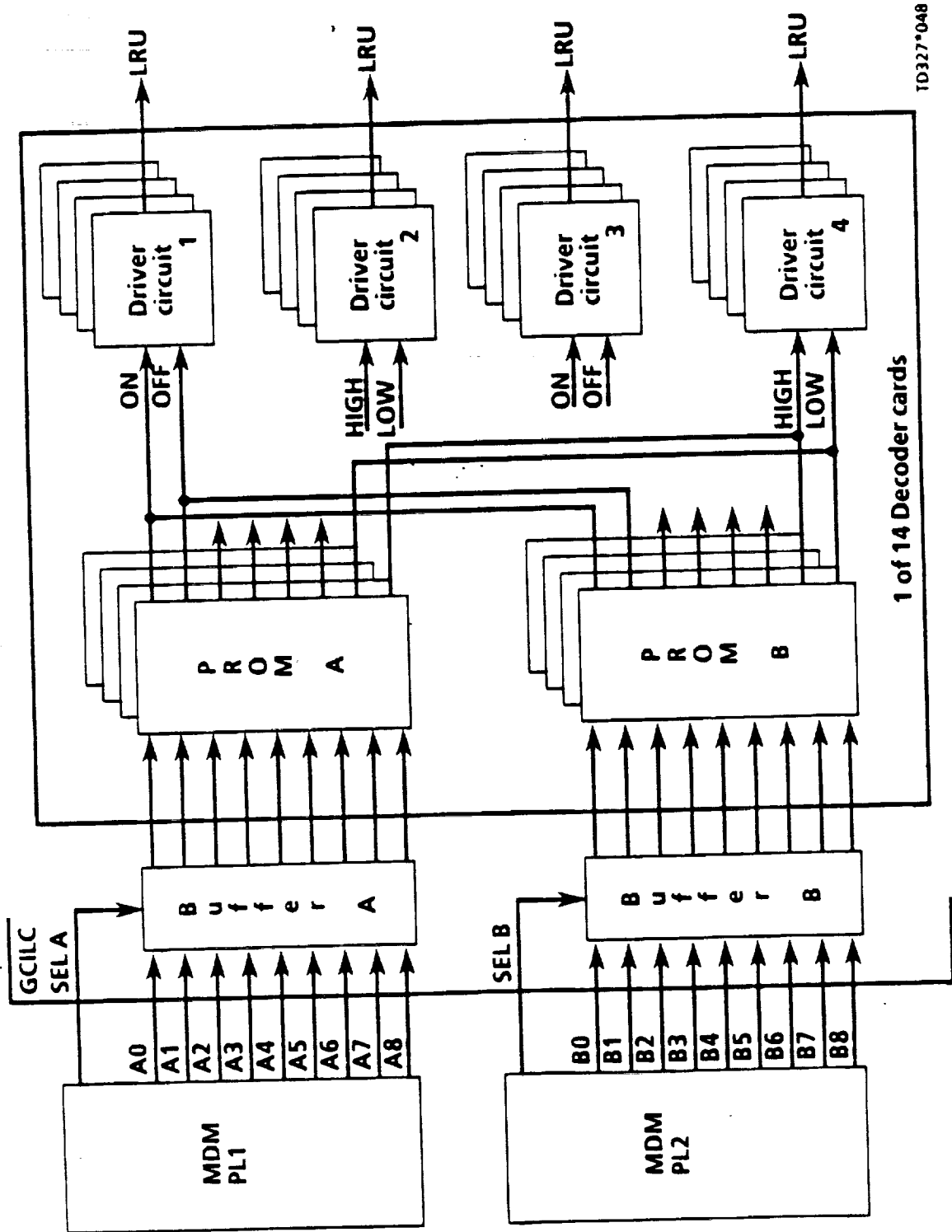


Figure 3.21 - GCIL BLOCK DIAGRAM

4.0 ASSESSMENT RESULTS

The IOA analysis of the Communication and Tracking hardware and functions resulted initially in generation of 1,039 failure mode and effects analysis (FMEA) worksheets with 269 being assigned as Potential Critical Items (PCIs). An IOA and NASA assessment was made by comparing 697 NASA FMEA worksheets and 239 Critical Items. Discrepancies between the number of IOA and NASA FMEAs and CILs prevented a one to one comparison which required generation of additional FMEA worksheets to facilitate collation. The final IOA count equaled 1,108 FMEAs with 298 PCIs.

Discrepancies noted between the IOA and NASA FMEA and PCI counts were attributed to the following factors: different failure modes employed by IOA and NASA, different definition of electronic unit and function configurations and component levels, based criticality assignments on a certain element of subjectivity and interpretation of the NSTS 22206 instructions, there were omissions, levels of unlike redundancy were different, determinations as to the extent of units function or effects on system level function were different and contract revision requiring early submittal missed revised and new FMEA/CILs.

Many of the FMEA and PCI analysis differences and issues could no doubt have been resolved through discussions with Subsystem Managers had the contract not been prematurely cancelled. Also many NASA FMEA worksheets were upgraded after the January 1, 1988 freeze so that much of the assessment was made on initial baseline FMEA's that did not reflect the latest thinking. The most prominent number of PCIs pertained to loss of output and loss of all capability to: obtain State Vector Updates, monitor movement of the RMS, verify payload bay door closure through observation that payload bay door latches did indeed latch, perform Ku-band antenna boom stow and verification, maintain mission support and obtain NAVAIDS data during night time abort landings at unequipped emergency landing sites.

No analyses were performed on the Orbiter audio system or on the UHF extra-vehicular communications system (EVCS). Because of the contract revision requiring earlier submittal of the Assessment Report, and because no NASA FMEA's on the EVCS were received by 1 January 1988, no post-analysis assessment was done on the EVCS.

4.1 Assessment Results - S-band PM

The S-band PM assessment considered 247 IOA and 120 NASA failure modes, of which 50 IOA and 23 NASA modes were found to potentially cause loss of mission, or loss of redundancy to potentially cause loss of life or vehicle. Issues resulted on 17 FMEAs with 8 CILs.

4.2 Assessment Results - S-band FM

The S-band FM assessment considered 28 IOA and 17 NASA failure modes resulting in zero (0) CILs and only 2 issues.

4.3 Assessment Results - S-band Payload

The S-band Payload assessment considered 60 IOA and 30 NASA failure modes, of which 24 IOA and 9 NASA modes were found to potentially cause loss of mission. No issues resulted.

4.4 Analysis Results - Ku-band Comm

The Ku-band Comm assessment considered 109 IOA and 42 NASA failure modes, of which 22 IOA and 27 NASA modes were found to potentially cause a loss of life or vehicle, loss of mission. Issues resulted on 47 FMEAs with 35 CILs.

4.5 Assessment Results - UHF

The UHF communication system assessment considered 31 IOA and 20 NASA failure modes, of which 15 IOA and 13 NASA modes were found to potentially cause a loss of mission or loss of redundancy to cause a potential loss of life or vehicle. Issues resulted for 8 FMEAs with 3 CILs.

4.6 Assessment Results - Audio

The Audio system assessment was not completed, but considered 86 IOA and 109 NASA failure modes, of which 9 IOA and 7 NASA modes were found to potentially cause a loss of mission, or loss of redundancy to cause a potential loss of life or vehicle. Issues resulted for 5 FMEAs and zero CILs.

4.7 Assessment Results - Tracking

The Tracking assessment considered 71 IOA and 54 NASA failure modes, of which 25 IOA and 18 NASA modes were found to potentially cause a loss of mission. Issues resulted for 13 FMEAs and 8 CILs.

4.8 Assessment Results - CCTV

The CCTV assessment considered 455 IOA and 293 NASA failure modes, of which 150 IOA and 140 NASA modes were found to potentially cause a loss of mission, or with a loss of redundancy to potentially cause a loss of life or vehicle. Issues resulted for 310 FMEAs and 238 CILs.

4.9 Assessment Results - GCIL

The GCIL assessment considered 12 IOA and 6 NASA failure modes, of which 2 IOA and 2 NASA modes were found to potentially cause a loss of mission, or with a loss of redundancy to potentially cause a loss of life or vehicle. Issues resulted for 2 FMEAs with 1 CIL.

4.10 Assessment Results - EMU-TV

The EMU-TV assessment considered 9 IOA and 6 NASA failure modes, of which one IOA was found to potentially cause loss of life or vehicle. Issues resulted in 3 FMEAs with 1 CIL.

4.11 Assessment Results - TAGS

The TAGS assessment was combined with Ku-band assessment. No FMEA was found to potentially cause loss of mission or loss of life or vehicle.

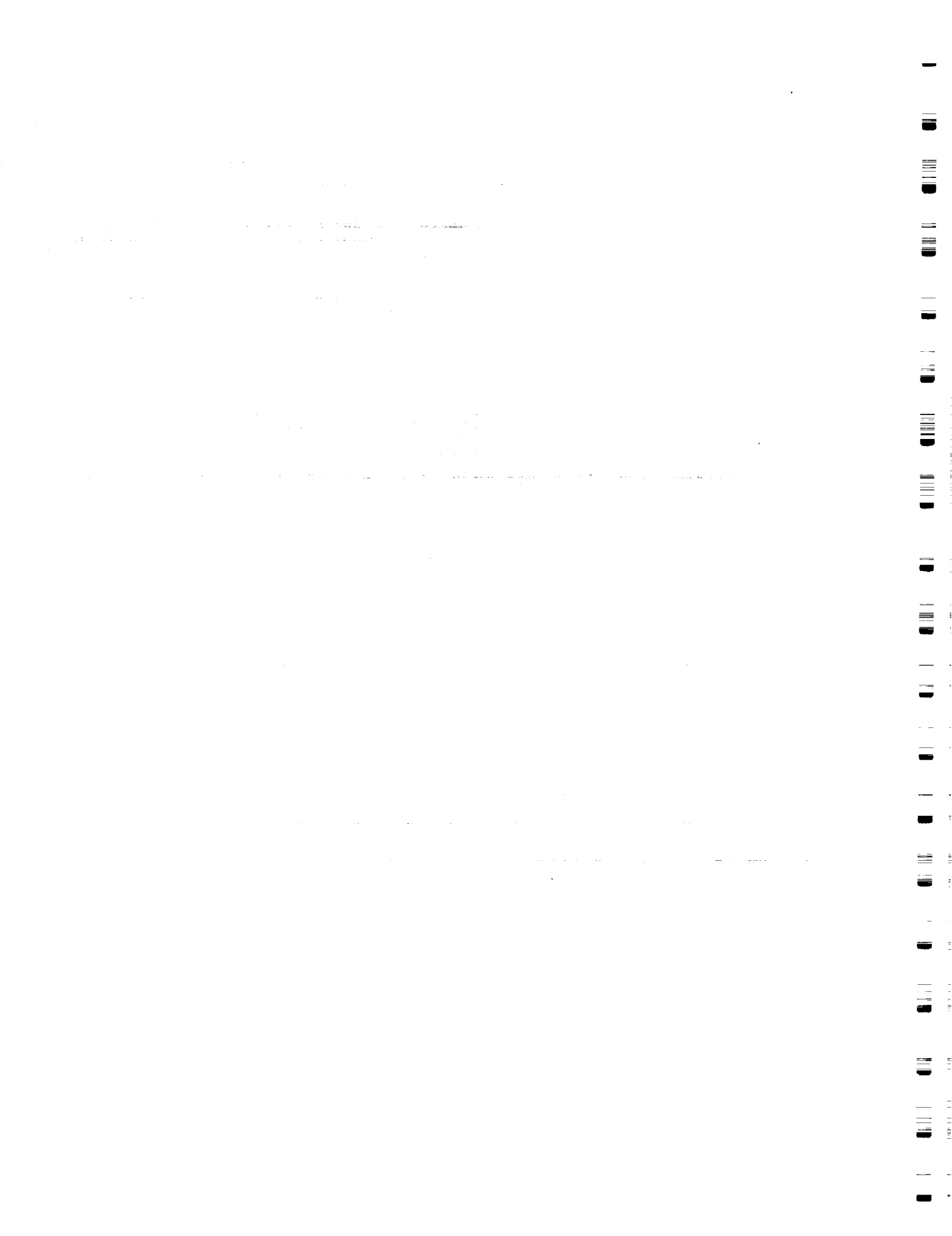
4.12 Assessment Results - GFE

The GFE assessment was combined with pertinent systems which employed these items.

5.0 REFERENCES

Reference documentation available from NASA and Rockwell was used in the analysis. The documentation used included the following:

1. RI Integrated Schematics: VS70-740249 (Audio), VS70-740300 (Comm & Tracking Block Diagram), VS70-740269 (FMSIC Processor), VS70-740279, (FM XMTR), VS70-740299 (GCIL), VS70-740109 (Ku-Band), VS70-740569 (MSBLS RCVR), VS70-740129 (NTWK S-Band XPDR), VS70-740400 (Power Block Diagram), VS70-740159 (Radar Altimeter), VS70-740259 (S-Band Antenna Switch), VS70-740229 (S-Band NTWK SIG Proc), VS70-740139 (S-Band PWR AMPL), VS70-740179 (TACAN), VS70-740189 (Television), VS70-740199 (Text and Graphics), VS70-740119 (UHF ATC/EVA XCVR)
2. Comm/Instrumentation Workbook, COM/IN 2102, Feb 1985
3. JSC-11174, Space Shuttle Systems Handbook, Rev. C, Sep 1985
4. Intro to Orbiter Comm/Instrumentation Systems, NAS9-18000, Oct 1986.
5. KU-Band Radar Workbook 2102, Nov 1985
6. KU-Band Comm Radar System SFOM, Vol. 4C, May 1985
7. INCO/Comm Systems Brief, Rev. C, PCN-3, Aug 1983
8. S-Band SFOM, Vol. 4B, Jan 1987
9. Payload Comm Workbook 2102, NAS9-18000, Feb 1987
10. Audio Systems UHF SFOM, Mar 1985
11. CCTV SFOM, Vol. 4D, Rev. A, PCN-2, Sep 1985
12. OMRSD NSTS 08171 File III
13. JSC-12820 FLT Rules Sect II
14. NSTS 22206, with Revisions 1, 2, 3, and 4.



**APPENDIX A
ACRONYMS**

A/A - Air-to-Air
A/G 1 - Air-to-Ground 1
A/G 2 - Air-to-Ground 2
ACCU - Audio Central Control Unit
ADS - Audio Distribution System
AOS - Acquisition of Signal
ATC - Air Traffic Control
ATU - Audio Terminal Unit

C&W - Caution and Warning
cb - Circuit Breaker
CCA - Communications Carrier Assembly
CCTV - Closed-Circuit Television
CCU - Crew Communications Umbilical
CDR - Commander
CIU - Communications Interface Unit
CMD - Command
comm - Communication
cont - Controller
CPLT - Complete

D&C - Displays and Controls
DA - Deployed Assembly
DAM - Driver Amplifier Module
DEA - Deployed Electronic Assembly
DMA - Deployed Mechanical Assembly
DOD - Department of Defense

EMU - Extravehicular Mobility Unit
EVA - Extravehicular Activity

FM - Frequency Modulated (or Modulation)
FMD - Frequency Division Multiplexer

GCIL - Ground Command Interface Logic
GPC - General Purpose Computer
GSE - Ground Support Equipment
GSTDN - Ground Spaceflight Tracking and Data Network

HIU - Headset Interface Unit

ICMS - Intercom Master Station
ICOM - Intercommunications
ICOM A - Intercom A
ICOM B - Intercom B
ICRS - Intercom Remote Station
ind - Indicator

JSC - Johnson Space Center

ACRONYMS

LCC	- Launch Control Center
LEH	- Launch/Entry Helmet
LRU	- Line Replaceable Unit
lt	- Light
MADS	- Modular Auxiliary Data System
MCA	- Motor Control Assembly
MCC	- Mission Control Center (JSC)
MDM	- Multiplexer/Demultiplexer
ME	- Main Engine
MHz	- Megahertz
MMU	- Mass Memory Unit
MNA	- Main A
MS	- Mission Specialist
MSBLS	- Microwave Scanning Beam Landing System
NSP	- Network Signal Processor
OI	- Operational Instrumentation
OPS RCDR	- Operational Recorder
OTB	- Orbiter Timing Buffer
PCM	- Pulse Code Modulation
PCMMU	- Pulse Code Modulation Master Unit
PDI	- Payload Data Interleaver
PFS	- Percent Full Scale
PI	- Payload Interrogator
PL ANLG	- Payload Analog
PL DIGITAL	- Payload Digital
PL MAX	- Payload Maximum
PLT	- Pilot
PM	- Phase Modulation
PROM	- Programmable read-only memory
PS	- Payload Specialist
PSP	- Payload Signal Processor
PTT	- Push-to-talk
QPSK	- Quadrature Phase Shift Keying
RAM	- Random Access Memory
rf	- Radio Frequency
RFI	- Radio Frequency Interference
RMS	- Remote Manipulator System
rot	- Rotary Switch
RTS	- Remote Tracking Station
SA	- Single Access
SGLS	- Space Ground Link System
SGSC	- Strain Gage Signal Conditioner
SPA	- Signal Processor Assembly

ACRONYMS

SRB	- Solid Rocket Booster
SSO	- Space Shuttle Orbiter
STDN	- Spaceflight Tracking and Data Network
SW	- Switch
TACAN	- Tactical Air Navigation
TAGS	- Text and Graphics
TDRS	- Tracking and Data Relay Satellite
TLM	- Telemetry
TV	- Television
tw	- Thumbwheel
UHF	- Ultra High Frequency
UL	- Uplink
VCO	- Voltage Controlled Oscillator
VOX	- Voice Operated Transmit
VSU	- Video Switching Unit
VTR	- Video Tape Recorder
WBSC	- Wide-Band Signal Conditioner
WCCU	- Wireless Crew Communications Umbilical
XMIT	- Transmit
XPNDR	- Transponder

1998

1999

2000

2001



APPENDIX B

DEFINITIONS, GROUND RULES, AND ASSUMPTIONS

- B.1 Definitions**
- B.2 Project Level Ground Rules and Assumptions**
- B.3 Subsystem-Specific Ground Rules and Assumptions**

**APPENDIX B
DEFINITIONS, GROUND RULES, AND ASSUMPTIONS**

B.1 Definitions

Definitions contained in NSTS 22206, Instructions For Preparation of FMEA/CIL, 10 October 1986, were used with the following amplifications and additions.

INTACT ABORT DEFINITIONS:

RTLS - begins at transition to OPS 6 and ends at transition to OPS 9, post-flight

TAL - begins at declaration of the abort and ends at transition to OPS 9, post-flight

AOA - begins at declaration of the abort and ends at transition to OPS 9, post-flight

ATO - begins at declaration of the abort and ends at transition to OPS 9, post-flight

CREDIBLE (CAUSE) - an event that can be predicted or expected in anticipated operational environmental conditions. Excludes an event where multiple failures must first occur to result in environmental extremes

CONTINGENCY CREW PROCEDURES - procedures that are utilized beyond the standard malfunction procedures, pocket checklists, and cue cards

EARLY MISSION TERMINATION - termination of onorbit phase prior to planned end of mission

EFFECTS/RATIONALE - description of the case which generated the highest criticality

HIGHEST CRITICALITY - the highest functional criticality determined in the phase-by-phase analysis

MAJOR MODE (MM) - major sub-mode of software operational sequence (OPS)

MC - Memory Configuration of Primary Avionics Software System (PASS)

MISSION - assigned performance of a specific Orbiter flight with payload/objective accomplishments including orbit phasing and altitude (excludes secondary payloads such as GAS cans, middeck P/L, etc.)

MULTIPLE ORDER FAILURE - describes the failure due to a single cause or event of all units which perform a necessary (critical) function

OFF-NOMINAL CREW PROCEDURES - procedures that are utilized beyond the standard malfunction procedures, pocket checklists, and cue cards

OPS - software operational sequence

PRIMARY MISSION OBJECTIVES - worst case primary mission objectives are equal to mission objectives

PHASE DEFINITIONS:

PRELAUNCH PHASE - begins at launch count-down Orbiter power-up and ends at moding to OPS Major Mode 102 (liftoff)

LIFTOFF MISSION PHASE - begins at SRB ignition (MM 102) and ends at transition out of OPS 1 (Synonymous with ASCENT)

ONORBIT PHASE - begins at transition to OPS 2 or OPS 8 and ends at transition out of OPS 2 or OPS 8

DEORBIT PHASE - begins at transition to OPS Major Mode 301 and ends at first main landing gear touchdown

LANDING/SAFING PHASE - begins at first main gear touchdown and ends with the completion of post-landing safing operations

**APPENDIX B
DEFINITIONS, GROUND RULES, AND ASSUMPTIONS**

B.2 IOA Project Level Ground Rules and Assumptions

The philosophy embodied in NSTS 22206, Instructions for Preparation of FMEA/CIL, 10 October 1986, was employed with the following amplifications and additions.

1. The operational flight software is an accurate implementation of the Flight System Software Requirements (FSSRs).

RATIONALE: Software verification is out-of-scope of this task.

2. After liftoff, any parameter which is monitored by system management (SM) or which drives any part of the Caution and Warning System (C&W) will support passage of Redundancy Screen B for its corresponding hardware item.

RATIONALE: Analysis of on-board parameter availability and/or the actual monitoring by the crew is beyond the scope of this task.

3. Any data employed with flight software is assumed to be functional for the specific vehicle and specific mission being flown.

RATIONALE: Mission data verification is out-of-scope of this task.

4. All hardware (including firmware) is manufactured and assembled to the design specifications/drawings.

RATIONALE: Acceptance and verification testing is designed to detect and identify problems before the item is approved for use.

5. All Flight Data File crew procedures will be assumed performed as written, and will not include human error in their performance.

RATIONALE: Failures caused by human operational error are out-of-scope of this task.

6. All hardware analyses will, as a minimum, be performed at the level of analysis existent within NASA/Prime Contractor Orbiter FMEA/CILs, and will be permitted to go to greater hardware detail levels but not lesser.

RATIONALE: Comparison of IOA analysis results with other analyses requires that both analyses be performed to a comparable level of detail.

7. Verification that a telemetry parameter is actually monitored during AOS by ground-based personnel is not required.

RATIONALE: Analysis of mission-dependent telemetry availability and/or the actual monitoring of applicable data by ground-based personnel is beyond the scope of this task.

8. The determination of criticalities per phase is based on the worst case effect of a failure for the phase being analyzed. The failure can occur in the phase being analyzed or in any previous phase, whichever produces the worst case effects for the phase of interest.

RATIONALE: Assigning phase criticalities ensures a thorough and complete analysis.

9. Analysis of wire harnesses, cables, and electrical connectors to determine if FMEAs are warranted will not be performed nor FMEAs assessed.

RATIONALE: Analysis was substantially complete prior to NSTS 22206 ground rule redirection.

10. Analysis of welds or brazed joints that cannot be inspected will not be performed nor FMEAs assessed.

RATIONALE: Analysis was substantially complete prior to NSTS 22206 ground rule redirection.

11. Emergency system or hardware will include burst discs and will exclude the EMU Secondary Oxygen Pack (SOP), pressure relief valves and the landing gear pyrotechnics.

RATIONALE: Clarify definition of emergency systems to ensure consistency throughout IOA project.

APPENDIX B
DEFINITIONS, GROUND RULES, AND ASSUMPTIONS

**B.3 Communications and Tracking Subsystems-
-Specific Ground Rules and Assumptions**

The IOA analysis was performed to the component or assembly level of the Communications and Tracking subsystem. The analysis considered the worst case effects of the hardware or functional failure on the subsystem, mission, and crew and vehicle safety.

1. Human error (e.g., system misconfiguration by crew or ground) will not be considered.

Rationale: Possible misconfigurations are out of scope for this analysis.

2. Inadvertent misconfigurations (e.g., accidental body contact by a crew member with a switch in zero-g operations) will not be considered.

Rationale: Most critical switches have guards, or are lever-lock type. Possible inadvertent misconfigurations are out of scope for this analysis.

3. Hardware items have been properly qualified, have passed applicable acceptance testing, and have been properly installed in the orbiter. Exception: if analysis of failure history of a part, subassembly, or LRU in the subsystem discloses multiple failures, that item will be flagged for special attention.

Rationale: Baseline assumption is that Program controls have resulted in hardware that is properly qualified and installed.

4. The criticality of a Communications and Tracking Subsystem hardware item will be assigned on the basis of the highest criticality function it performs.

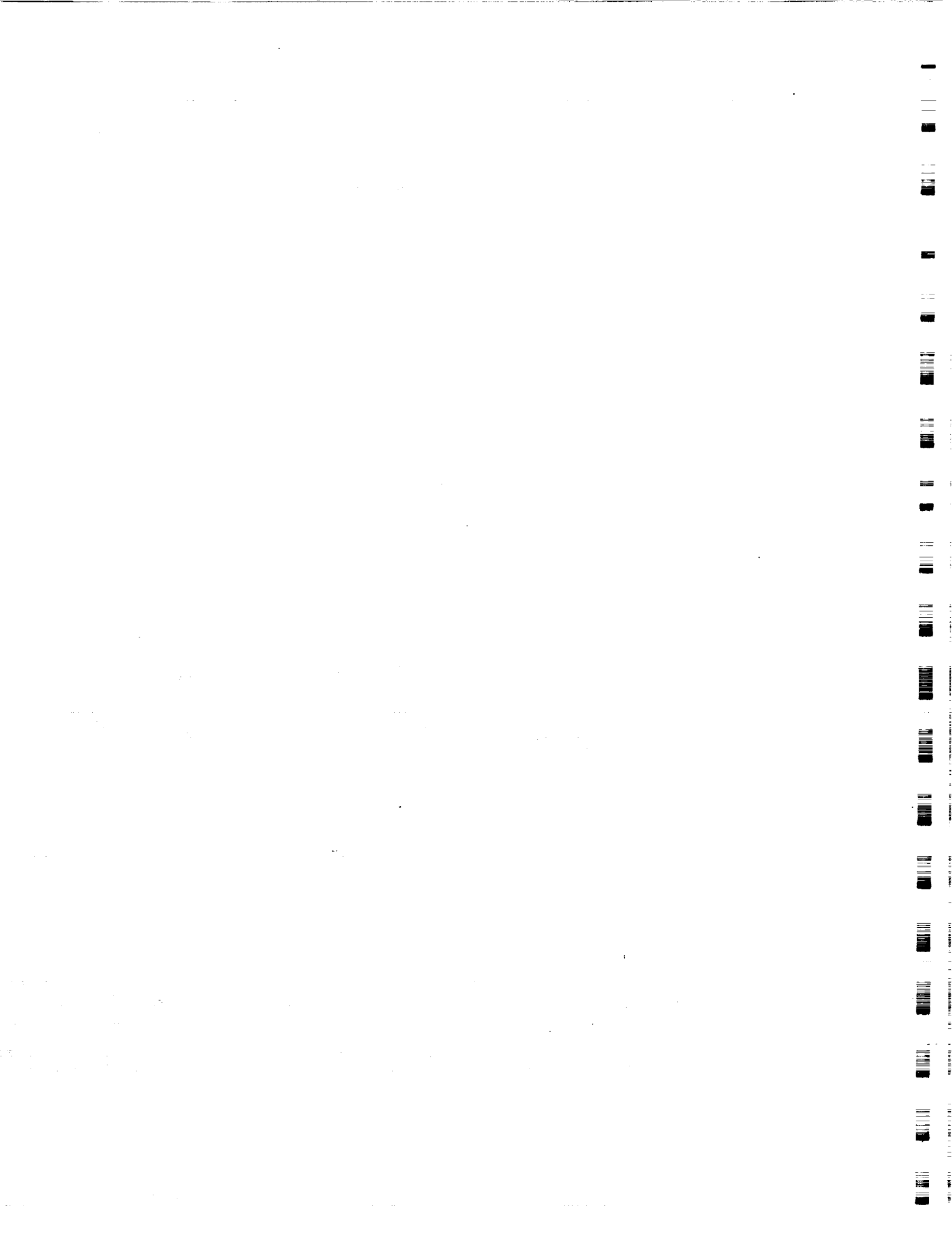
Rationale: The Communications and Tracking Subsystem exists to process and route information for use by the crew and by ground controllers to facilitate the accomplishment of mission objectives and to ensure the safety of crew and vehicle. Worst-case effect from the loss of capability by a hardware item to perform a function determines its criticality.

5. Loss of all capability to update Orbiter State Vector can cause loss of crew/vehicle.

Rationale: GN&C hardware and Master Timing Unit drifts/errors can cause vehicle location errors in de-orbit and landing operations that could result in loss of crew/vehicle.

6. Interconnecting cables will not be evaluated.

Rationale: Baseline assumption is that the program controls require hardware that is properly installed, and cables are beyond the scope of this analysis.



**APPENDIX C
DETAILED ASSESSMENT**

This section contains the IOA assessment worksheets generated during the assessment of this subsystem. The information on these worksheets facilitates the comparison of the NASA FMEA/CIL (Pre and Post 51-L) to the IOA detailed analysis worksheets included in Appendix E. Each of these worksheets identifies the NASA FMEA being assessed, corresponding MDAC Analysis Worksheet ID (Appendix E), hardware item, criticality, redundancy screens, and recommendations. For each failure mode, the highest assessed hardware and functional criticality is compared and discrepancies noted as "N" in the compare row under the column where the discrepancy occurred.

LEGEND FOR IOA ASSESSMENT WORKSHEETS

Hardware Criticalities:

- 1 = Loss of life or vehicle
- 2 = Loss of mission or next failure of any redundant item (like or unlike) could cause loss of life/vehicle
- 3 = All others

Functional Criticalities:

- 1R = Redundant hardware items (like or unlike) all of which, if failed, could cause loss of life or vehicle
- 2R = Redundant hardware items (like or unlike) all of which, if failed, could cause loss of mission

Redundancy Screens A, B and C:

- P = Passed Screen
- F = Failed Screen
- NA = Not Applicable

NASA Data :

- Baseline = NASA FMEA/CIL
- New = Baseline with Proposed Post 51-L Changes

CIL Item :

- X = Included in CIL

Compare Row :

- N = Non compare for that column (deviation)

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/13/88
 ASSESSMENT ID: COMTRK-1001
 NASA FMEA #: 05-2G-22800-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 1001
 ITEM: S-BAND QUAD ANTENNAS

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 / 2]	[]	[]	[]	[X] *
IOA	[3 / 1R]	[P]	[P]	[P]	[]
COMPARE	[N / N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

IOA CRIT 3/1R CONSIDERS OTHER 3 QUADS AS REDUNDANT WHEREAS NASA FMEA/CIL DOES NOT ON PREMISE VEHICLE ATTITUDE CHANGE TO USE ANOTHER QUAD IS NOT PERMISSIBLE, AND ASSIGNS CRIT 2/2. (HOWEVER, AT PRESENT OPERATIONAL REDUNDANCY ALSO EXISTS IN THAT S-BAND PM SYSTEM CAN USE EITHER TDRs OR DIRECT (STDN OR SGLS) MODE, ALLEVIATING NEED TO CHANGE VEHICLE ATTITUDE). CIL RETENTION RATIONALE ADEQUATE IF CRIT 2/2 IS VALID. AGREE WITH NASA FMEA BECAUSE 2/2 CRITICALITY IS A CIL ENTRY WHEREAS IOA ASSIGNMENT IS NOT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/12/88
 ASSESSMENT ID: COMTRK-1001A
 NASA FMEA #: 05-2G-22600-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 1001
 ITEM: S-BAND QUAD ANTENNAS

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/N]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 AGREE WITH FMEA SCREEN B ASSIGNMENT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/14/88
 ASSESSMENT ID: COMTRK-1003
 NASA FMEA #: 05-2G-22800-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 1003
 ITEM: S-BAND QUAD ANTENNAS

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 / 2]	[]	[]	[]	[X] *
IOA	[3 / 2R]	[P]	[P]	[P]	[]
COMPARE	[N / N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

IOA CRIT 3/1R CONSIDERS OTHER 3 QUADS AS REDUNDANT WHEREAS NASA FMEA/CIL DOES NOT ON PREMISE VEHICLE ATTITUDE CHANGE TO USE ANOTHER QUAD IS NOT PERMISSIBLE, AND ASSIGNS CRIT 2/2. (HOWEVER, AT PRESENT OPERATIONAL REDUNDANCY ALSO EXISTS IN THAT S-BAND PM SYSTEM CAN USE EITHER TDRs OR DIRECT (STDN OR SGLS) MODE, ALLEVIATING NEED TO CHANGE VEHICLE ATTITUDE). CIL RETENTION RATIONALE ADEQUATE IF CRIT 2/2 IS VALID. AGREE WITH NASA FMEA BECAUSE 2/2 CRITICALITY IS A CIL ENTRY WHEREAS IOA ASSIGNMENT IS NOT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/14/88
 ASSESSMENT ID: COMTRK-1004
 NASA FMEA #: 05-2G-22800-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 1004
 ITEM: S-BAND QUAD ANTENNAS

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 / 2]	[]	[]	[]	[X] *
IOA	[3 / 2R]	[P]	[P]	[P]	[]
COMPARE	[N / N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

IOA CRIT 3/1R CONSIDERS OTHER 3 QUADS AS REDUNDANT WHEREAS NASA FMEA/CIL DOES NOT ON PREMISE VEHICLE ATTITUDE CHANGE TO USE ANOTHER QUAD IS NOT PERMISSIBLE, AND ASSIGNS CRIT 2/2. (HOWEVER, AT PRESENT OPERATIONAL REDUNDANCY ALSO EXISTS IN THAT S-BAND PM SYSTEM CAN USE EITHER TDRs OR DIRECT (STDN OR SGLS) MODE, ALLEVIATING NEED TO CHANGE VEHICLE ATTITUDE). CIL RETENTION RATIONALE ADEQUATE IF CRIT 2/2 IS VALID. AGREE WITH NASA FMEA BECAUSE 2/2 CRITICALITY IS A CIL ENTRY WHEREAS IOA ASSIGNMENT IS NOT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/14/88
 ASSESSMENT ID: COMTRK-1006
 NASA FMEA #: 05-2G-23500-4

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 1006
 ITEM: SWITCH BEAM CONTROL ELECTRONICS

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 / 2]	[]	[]	[]	[X] *
IOA	[3 / 2R]	[P]	[P]	[P]	[]
COMPARE	[N / N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

IOA CRIT 3/2R CONSIDERS OTHER 7 POSSIBLE ANTENNA DIRECTIVITY SELECTIONS AS REDUNDANT WHEREAS NASA FMEA/CIL DOES NOT ON PREMISE VEHICLE ATTITUDE CHANGE TO USE ANOTHER BEAM SELECTION IS NOT PERMISSIBLE, AND ASSIGNS CRIT 2/2. AGREE WITH NASA FMEA BECAUSE 2/2 IS A CIL ENTRY WHEREAS IOA ASSIGNMENT IS NOT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/08/88
 ASSESSMENT ID: COMTRK-1007
 NASA FMEA #: 05-2G-23500-4

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 1007
 ITEM: SWITCH BEAM CONTROL ELECTRONICS

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 / 2]	[]	[]	[]	[X] *
IOA	[3 / 2R]	[P]	[P]	[P]	[]
COMPARE	[N / N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

IOA CRIT 3/2R CONSIDERS OTHER 7 POSSIBLE ANTENNA DIRECTIVITY SELECTIONS AS REDUNDANT WHEREAS NASA FMEA/CIL DOES NOT ON PREMISE VEHICLE ATTITUDE CHANGE TO USE ANOTHER BEAM SELECTION IS NOT PERMISSIBLE, AND ASSIGNS CRIT 2/2. AGREE WITH NASA FMEA BECAUSE 2/2 IS A CIL ENTRY WHEREAS IOA ASSIGNMENT IS NOT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/14/88
 ASSESSMENT ID: COMTRK-1008
 NASA FMEA #: 05-2G-23500-3

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 1008
 ITEM: ANTENNA SWITCH ASSEMBLY

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 / 2]	[]	[]	[]	[X] *
IOA	[3 / 2R]	[P]	[P]	[P]	[]
COMPARE	[N / N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

IOA CRIT 3/2R CONSIDERED OTHER SWITCH CONFIGURATIONS COULD BE USED TO SELECT ALTERNATE ANTENNA. HOWEVER, SOME REED SWITCH FAILURES COULD PRECLUDE PROPER ALTERNATE, BECAUSE VEHICLE ATTITUDE CHANGE REQUIRED FOR COMM MAY CAUSE LOSS OF MISSION OBJECTIVES.
 AGREE WITH NASA FMEA.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/14/88
 ASSESSMENT ID: COMTRK-1008A
 NASA FMEA #: 05-2G-23500-4

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 1008
 ITEM: ANTENNA SWITCH ASSEMBLY

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 / 2]	[]	[]	[]	[X] *
IOA	[3 / 2R]	[P]	[P]	[P]	[]
COMPARE	[N / N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

IOA CRIT 3/2R CONSIDERED OTHER SWITCH CONFIGURATIONS COULD BE USED TO SELECT ALTERNATE ANTENNA. HOWEVER, SOME REED SWITCH FAILURES COULD PRECLUDE PROPER ALTERNATE, BECAUSE VEHICLE ATTITUDE CHANGE REQUIRED FOR COMM MAY CAUSE LOSS OF MISSION OBJECTIVES.
 AGREE WITH NASA FMEA.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/05/88
 ASSESSMENT ID: COMTRK-1009
 NASA FMEA #: 05-2G-23500-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 1009
 ITEM: ANTENNA SWITCH ASSEMBLY

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 2R]	[P]	[NA]	[P]	[] *
IOA	[3 / 2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

AGREE WITH FMEA SCREEN ASSIGNMENT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/05/88
 ASSESSMENT ID: COMTRK-1010
 NASA FMEA #: 05-2G-23500-4

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 1010
 ITEM: ANTENNA SWITCH ASSEMBLY

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 / 2]	[]	[]	[]	[X] *
IOA	[3 / 2R]	[P]	[P]	[P]	[]
COMPARE	[N / N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

IOA CRIT 3/2R CONSIDERED OTHER SWITCH CONFIGURATIONS COULD BE USED TO SELECT ALTERNATE ANTENNA. HOWEVER, SOME REED SWITCH FAILURES COULD PRECLUDE PROPER ALTERNATE, BECAUSE VEHICLE ATTITUDE CHANGE REQUIRED FOR COMM MAY CAUSE LOSS OF MISSION OBJECTIVES.
 AGREE WITH NASA FMEA.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/08/88
 ASSESSMENT ID: COMTRK-1011
 NASA FMEA #: NONE

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM & TRACK
 MDAC ID: 1011
 ITEM: ANTENNA SWITCH ASSEMBLY

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /2R] [P] [NA] [P] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NO DIRECT COUNTERPART NASA FMEA. CREDIBLE FAILURE MODE THAT SHOULD BE DOCUMENTED.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/08/88
 ASSESSMENT ID: COMTRK-1012
 NASA FMEA #: 05-2G-23500-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 1012
 ITEM: ANTENNA SWITCH ASSEMBLY

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 AGREE WITH NASA FMEA SCREEN B ASSIGNMENT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/14/88
 ASSESSMENT ID: COMTRK-1013
 NASA FMEA #: 05-2G-21210-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 1013
 ITEM: S-BAND PREAMPLIFIER

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 / 2]	[]	[]	[]	[X] *
IOA	[3 / 2R]	[P]	[P]	[P]	[]
COMPARE	[N / N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

RF SWITCH THAT SELECTS XPNDR 1 OR 2 RECEIVE IS POTENTIAL SPF, AS POINTED OUT IN NASA FMEA. ANOTHER SPF IS IN THE SERIES RELAY SWITCH CONTACTS ROUTING POWER TO THE REDUNDANT PREAMP LOGIC MODULES. AGREE WITH NASA FMEA.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/05/88
 ASSESSMENT ID: COMTRK-1013B
 NASA FMEA #: 05-2G-21210-3

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 1013
 ITEM: S-BAND PREAMPLIFIER

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 2R]	[P]	[NA]	[P]	[] *
IOA	[3 / 2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

CLOSEST MATCH IS FMEA 05-2G-1013-3. AGREE WITH FMEA CRITICALITY ASSIGNMENT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/05/88
 ASSESSMENT ID: COMTRK-1015
 NASA FMEA #: NONE

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM & TRACK
 MDAC ID: 1015
 ITEM: S-BAND PREAMPLIFIER

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /2R] [P] [NA] [P] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

CREDIBLE FAILURE MODE THAT SHOULD BE DOCUMENTED. REFERENCE CAR's AB8808 (DEGRADED BER, KSC), AC7765 (LOW OUTPUT AT LOW FREQUENCY, ADL) FOR EXAMPLE.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/08/88
 ASSESSMENT ID: COMTRK-1017
 NASA FMEA #: 05-2G-21220-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 1017
 ITEM: S-BAND POWER AMPLIFIER

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

AGREE WITH FMEA SCREEN B ASSIGNMENT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/08/88
 ASSESSMENT ID: COMTRK-1019
 NASA FMEA #: 05-2G-21215-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 1019
 ITEM: PREAMP PANEL POWER SWITCH

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/08/88
 ASSESSMENT ID: COMTRK-1021
 NASA FMEA #: 05-2G-21215-2

NASA DATA: []
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 1021
 ITEM: PREAMP PANEL POWER SWITCH

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

AGREE WITH NASA FMEA SCREEN B ASSIGNMENT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/08/88
 ASSESSMENT ID: COMTRK-1023
 NASA FMEA #: 05-2G-21215-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 1023
 ITEM: PA OPERATE SWITCH

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

AGREE WITH NASA FMEA SCREEN B ASSIGNMENT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/08/88
 ASSESSMENT ID: COMTRK-1024
 NASA FMEA #: 05-2G-21215-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 1024
 ITEM: PA OPERATE SWITCH

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

AGREE WITH NASA FMEA SCREEN B ASSIGNMENT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/08/88
 ASSESSMENT ID: COMTRK-1025
 NASA FMEA #: 05-2G-21227-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 1025
 ITEM: POWER AMPLIFIER STANDBY SWITCH

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

AFTER LOSS OF SWITCH FUNCTION, LOSS OF GCIL CAPABILITY TO CONTROL
 PA COULD CAUSE LOSS OF TDRS COMM AND RESULT IN LOSS OF MISSION.
 AGREE WITH NASA FMEA.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/08/88
 ASSESSMENT ID: COMTRK-1026
 NASA FMEA #: 05-2G-21227-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 1026
 ITEM: PA STANDBY SWITCH

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/08/88
 ASSESSMENT ID: COMTRK-1027
 NASA FMEA #: 05-2G-21200-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 1027
 ITEM: S-BAND PM TRANSPONDER

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 AGREE WITH FMEA SCREEN B ASSIGNMENT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/08/88
 ASSESSMENT ID: COMTRK-1028
 NASA FMEA #: 05-2G-21200-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 1028
 ITEM: S-BAND PM TRANSPONDER

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 AGREE WITH FMEA SCREEN B ASSIGNMENT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/08/88
 ASSESSMENT ID: COMTRK-1029
 NASA FMEA #: 05-2G-21200-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 1029
 ITEM: S-BAND PM TRANSPONDER

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

AGREE WITH FMEA SCREEN B ASSIGNMENT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/08/88
 ASSESSMENT ID: COMTRK-1030
 NASA FMEA #: 05-2G-21200-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 1030
 ITEM: S-BAND PM TRANSPONDER

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 AGREE WITH FMEA SCREEN B ASSIGNMENT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/08/88
 ASSESSMENT ID: COMTRK-1031
 NASA FMEA #: 05-2G-21200-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 1031
 ITEM: S-BAND PM TRANSPONDER

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 AGREE WITH FMEA SCREEN B ASSIGNMENT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/08/88
 ASSESSMENT ID: COMTRK-1033
 NASA FMEA #: 05-2PG-21200-1

NASA DATA: -----
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 1033
 ITEM: S-BAND PM TRANSPONDER POWER SWITCH

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

AGREE WITH FMEA SCREEN B ASSIGNMENT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/04/88
 ASSESSMENT ID: COMTRK-1035
 NASA FMEA #: 05-2G-21204-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 1035
 ITEM: S-BAND PM SYSTEM MODE SELECTOR

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 AGREE WITH FMEA SCREEN B ASSIGNMENT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/04/88
 ASSESSMENT ID: COMTRK-1036
 NASA FMEA #: 05-2G-21204-3

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 1036
 ITEM: S-BAND PM SYSTEM MODE SELECTOR

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 / 2]	[]	[]	[]	[X] *
IOA	[3 / 1R]	[P]	[P]	[P]	[]
COMPARE	[N / N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

LOSS OF NPS1, NPSP2 DATA XMIT SIGNAL TO TRANSPONDERS IN PANEL MODE COULD CAUSE LOSS OF SECURE MISSION REQUIRING CLASSIFIED COMMANDS AND DATA. AGREE WITH NASA FMEA. NASA FMEA ALSO RECOGNIZES THE POSSIBLE LOSS OF STATE VECTOR UPDATE CAPABILITY WITH ATTENDANT THREAT TO CREW/VEHICLE (WHICH WOULD BE 3/1R), BUT CLASSIFIES FAILURE MODE CRITICALITY AS WORSE CASE 2/2 (CIL).

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/08/88
 ASSESSMENT ID: COMTRK-1037
 NASA FMEA #: 05-2G-21207-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 1037
 ITEM: S-BAND PM SIGNAL STRENGTH SELECTOR SWITCH

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NO DIFFERENCES. (FMEA REVERSES LOCATIONS OF THE METER/SELECTOR CIRCUITS).

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/08/88
 ASSESSMENT ID: COMTRK-1039
 NASA FMEA #: 05-2G-21207-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 1039
 ITEM: SIGNAL STRENGTH METER SELECTOR SWITCH AND
 CIRCUIT

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NO DIFFERENCES. (FMEA REVERSES LOCATIONS OF THE METER/SELECTOR
 CIRCUITS).

c-2

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/08/88
 ASSESSMENT ID: COMTRK-1040
 NASA FMEA #: 05-2G-21207-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 1040
 ITEM: SIGNAL STRENGTH METER SELECTOR SWITCH AND
 CIRCUIT

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES. (FMEA REVERSES LOCATIONS OF THE METER/SELECTOR
 CIRCUITS).

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/08/88
 ASSESSMENT ID: COMTRK-1041
 NASA FMEA #: 05-6PH-24805-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 1041
 ITEM: S-BAND PM SYSTEM PANEL/COMMAND GCIL SWITCH

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NASA FMEA CONSIDERS LOSS OF ALL S-BAND PM CAPABILITY PLUS LOSS OF UHF VOICE, AND RESULTANT LOSS OF CAPABILITY TO UPDATE STATE VECTOR. AGREE WITH FMEA.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/08/88
 ASSESSMENT ID: COMTRK-1043
 NASA FMEA #: 05-2G-21500-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 1043
 ITEM: NETWORK SIGNAL PROCESSOR, UL SECTION

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

AGREE WITH FMEA SCREEN B ASSIGNMENT. IOA BROKE NSP INTO TWO SETS OF ANALYSES - ONE FOR UPLINK, ONE FOR DOWNLINK. NASA ONLY CREATED ONE FMEA, EVEN THOUGH THERE ARE DISTINCT FUNCTIONS FOR WHICH CRITICALITIES ARE NOT NECESSARILY THE SAME. AGREE WITH 3/1R FOR UPLINK. SEE IOA 1045, 1046, HOWEVER, FOR DOWNLINK FUNCTION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/09/88
 ASSESSMENT ID: COMTRK-1045
 NASA FMEA #: 05-2G-21500-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 1045
 ITEM: NETWORK SIGNAL PROCESSOR, DL SECTION

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [] [] [] [A]
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

LOSS OF ACTIVE NSP DOWNLINK COULD CAUSE MINIMUM DURATION FLIGHT
 BECAUSE ONLY ONE NSP PATH WOULD REMAIN FOR INSIGHT INTO VEHICLE
 SYSTEMS VIA TELEMETRY. RECOMMEND FMEA UPGRADE TO 2/1R, CIL
 STATUS.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/09/88
 ASSESSMENT ID: COMTRK-1047
 NASA FMEA #: 05-2G-21800-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 1047
 ITEM: COMSEC

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

AGREE WITH FEMA SCREEN B ASSIGNMENT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/09/88
 ASSESSMENT ID: COMTRK-1051
 NASA FMEA #: 05-2G-21801-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 1051
 ITEM: NSP ENCRYPTION MODE SWITCH

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[2 /2]	[]	[]	[]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /2] [] [] [] [A]
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

SAME FAILURE MODES (e.g., FAIL MID-TRAVEL) COULD PREVENT SELECTION OF "NSP ENCRYPTION SELECT" FUNCTIONS FOR SELECTION OF "T/R" OR "REV" ENCRYPTION/DECRYPTION OF NSP DATA. THERE IS NO HARDWARE OR COMMAND REDUNDANCY FOR THE SWITCH'S FUNCTION.

RECOMMEND

FMEA UPGRADE TO 2/2.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/09/88
 ASSESSMENT ID: COMTRK-1052
 NASA FMEA #: 05-2G-21801-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 1052
 ITEM: NSP ENCRYPTION MODE SWITCH

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[NA]	[P]	[X] *
IOA	[2 /2]	[]	[]	[]	[X]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[2 /2] [] [] [] [A]
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

SAME FAILURE MODES COULD PREVENT PROPER SELECTION OF "NSP ENCRYPTION SELECT" FUNCTIONS "T/R" OR "REV" ENCRYPTION/DECRYPTION OF NSP DATA. THERE IS NOT HARDWARE OR COMMAND REDUNDANCY FOR THE SWITCH'S FUNCTION. RECOMMEND FMEA UPGRADE TO 2/2 (CIL STATUS).

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/09/88
 ASSESSMENT ID: COMTRK-1053
 NASA FMEA #: 05-2G-21802-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 1053
 ITEM: NSP ENCRYPTION SELECT SWITCH

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[2 /2]	[]	[]	[]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /2] [] [] [] [A]
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

SAME FAILURE MODES (e.g., FAIL MID-TRAVEL) COULD PREVENT SELECTION OF "NSP ENCRYPTION SELECT" FUNCTIONS FOR SELECTION OF "T/R" OR "REV" ENCRYPTION/DECRYPTION OF NSP DATA. THERE IS NO HARDWARE OR COMMAND REDUNDANCY FOR THE SWITCH'S FUNCTION.

RECOMMEND

FMEA UPGRADE TO 2/2.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/09/88
 ASSESSMENT ID: COMTRK-1055
 NASA FMEA #: 05-2G-21803-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 1055
 ITEM: ENCRYPTION ZEROIZE/NORMAL SWITCH

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /3] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

SWITCH FAILURE BEFORE LAUNCH COULD CAUSE LAUNCH DELAY, BUT CRITICALITY IS 3/3. FAILURE AT ANY OTHER TIME WOULD NOT IN AND OF ITSELF CAUSE MISSION LOSS (IT COULD COMPROMISE SECURITY, BUT THAT IS NOT MISSION LOSS). NOTE: KEY CAN BE ZEROIZED BY REMOVING POWER WITH THE NSP ENCRYPTION POWER SWITCH.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/09/88
 ASSESSMENT ID: COMTRK-1057
 NASA FMEA #: 05-2G-21533-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 1057
 ITEM: NSP UPLINK DATA SOURCE SWITCH

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

AGREE WITH FMEA SCREEN B ASSIGNMENT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/08/88
 ASSESSMENT ID: COMTRK-1059
 NASA FMEA #: 05-2G-21531-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 1059
 ITEM: NSP DATA RATE XMIT SWITCH

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 AGREE WITH FMEA SCREEN B ASSIGNMENT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/09/88
 ASSESSMENT ID: COMTRK-1061
 NASA FMEA #: 05-2G-21532-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 1061
 ITEM: NSP DATA RATE RCV SWITCH

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/N]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /1R] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

AGREE WITH FMEA SCREEN B ASSIGNMENT. SOME POSSIBLE FAILURE MODES (e.g., FAIL MID-TRAVEL) COULD AFFECT BOTH DATA RATE CAPABILITIES AND PREVENT RECEIPT OF UPLINK DATA INCLUDING STATE VECTOR UPDATE. RECOMMEND CRITICALITY UPGRADE TO 3/1R.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/09/88
 ASSESSMENT ID: COMTRK-1062
 NASA FMEA #: 05-2G-21532-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 1062
 ITEM: NSP DATA RATE RCV SWITCH

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 / 2]	[]	[]	[]	[X] *
IOA	[3 / 1R]	[P]	[P]	[P]	[]
COMPARE	[N / N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

AGREE WITH FMEA SCREEN B ASSIGNMENT. SOME POSSIBLE FAILURE MODES (e.g., FAIL MID-TRAVEL) COULD AFFECT BOTH DATA RATE CAPABILITIES AND PREVENT RECEIPT OF UPLINK DATA INCLUDING STATE VECTOR UPDATE. RECOMMEND CRITICALITY UPGRADE TO 3/1R.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/09/88
 ASSESSMENT ID: COMTRK-1063
 NASA FMEA #: 05-2G-21534-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 1063
 ITEM: NSP CODING XMIT SWITCH

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 AGREE WITH FMEA SCREEN B ASSIGNMENT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/08/88
 ASSESSMENT ID: COMTRK-1065
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 1065
 ITEM: NSP CODING RCV SWITCH

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 AGREE WITH FMEA SCREEN B ASSIGNMENT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/08/88
 ASSESSMENT ID: COMTRK-1066
 NASA FMEA #: 05-2G-21535-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 1066
 ITEM: NSP CODING RCV SWITCH

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /2]	[]	[]	[]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

WORST CASE SHORT TO GROUND COULD CAUSE LOSS OF "NSP1, 2 ON"
 SIGNALS AND RESULT IN LOSS OF CLASSIFIED MISSION (LOSS OF
 SECURITY FOR CLASSIFIED DATA). AGREE WITH NASA FMEA CRITICALITY
 ASSIGNMENT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/09/88
 ASSESSMENT ID: COMTRK-1067
 NASA FMEA #: 05-6PG-22000-3

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 1067
 ITEM: UPLINK BLOCK SWITCH

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/09/88
 ASSESSMENT ID: COMTRK-1068
 NASA FMEA #: 05-6PG-22000-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 1068
 ITEM: UPLINK BLOCK SWITCH

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /2]	[]	[]	[]	[X] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [P] [P] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

IOA 1068 ASSIGNS 2/1R FOR ORBIT OPS - LOSS OF MISSION PLUS
 POSSIBLE LOSS OF CREW/VEHICLE FOR FAILURE OF ALL PATHS FOR STATE
 VECTOR UPDATE. (NASA FMEA WRITEUP ACKNOWLEDGES THE 1R FUNCTIONAL
 CRITICALITY BUT FMEA ASSIGNS FUNCTIONAL CRITICALITY 2).

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/09/88
 ASSESSMENT ID: COMTRK-1068A
 NASA FMEA #: 05-6PG-22000-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 1068
 ITEM: UPLINK BLOCK SWITCH

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

THE 3/1R CRITICALITY IS ENCOMPASSED IN IOA 1068, WHICH ALSO
 COVERS ANOTHER NASA FMEA (05-6PG-22000-2).

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/09/88
 ASSESSMENT ID: COMTRK-1069
 NASA FMEA #: 05-6PG-21501-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 1069
 ITEM: NSP POWER SWITCH

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 AGREE WITH FMEA SCREEN B ASSIGNMENT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/09/88
 ASSESSMENT ID: COMTRK-1070
 NASA FMEA #: 05-6PG-21501-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 1070
 ITEM: NSP POWER SWITCH

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

AGREE WITH FMEA SCREEN B ASSIGNMENT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/29/88
 ASSESSMENT ID: COMTRK-1502
 NASA FMEA #: 05-6PG-21229-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1502
 ITEM: FUSE, 1A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/29/88
 ASSESSMENT ID: COMTRK-1503
 NASA FMEA #: 05-6PG-21230-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1503
 ITEM: RESISTOR, 1.2K

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/29/88
 ASSESSMENT ID: COMTRK-1504
 NASA FMEA #: 05-6PG-21230-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1504
 ITEM: RESISTOR, 1.2K

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/29/88
 ASSESSMENT ID: COMTRK-1505
 NASA FMEA #: 05-6PG-21228-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1505
 ITEM: DIODE

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/29/88
 ASSESSMENT ID: COMTRK-1506
 NASA FMEA #: 05-6PG-21228-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1506
 ITEM: DIODE

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/29/88
 ASSESSMENT ID: COMTRK-1507
 NASA FMEA #: 05-6PG-21228-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1507
 ITEM: DIODE

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/29/88
 ASSESSMENT ID: COMTRK-1508
 NASA FMEA #: 05-6PG-21228-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1508
 ITEM: DIODE

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/29/88
 ASSESSMENT ID: COMTRK-1509
 NASA FMEA #: 05-6PG-21217-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1509
 ITEM: FUSE, 1A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/29/88
 ASSESSMENT ID: COMTRK-1510
 NASA FMEA #: 05-6PG-21217-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1510
 ITEM: FUSE, 1A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/29/88
 ASSESSMENT ID: COMTRK-1511
 NASA FMEA #: 05-6PG-21214-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1511
 ITEM: RESISTOR, 1.2K

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/29/88
 ASSESSMENT ID: COMTRK-1512
 NASA FMEA #: 05-6PG-21214-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1512
 ITEM: RESISTOR, 1.2K

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 2R]	[P]	[NA]	[P]	[] *
IOA	[3 / 2R]	[P]	[F]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/29/88
 ASSESSMENT ID: COMTRK-1514
 NASA FMEA #: 05-6PG-21212-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1514
 ITEM: FUSE, 10A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[P]	[P]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/29/88
 ASSESSMENT ID: COMTRK-1515
 NASA FMEA #: 05-6PG-21212-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1515
 ITEM: FUSE, 10A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[P]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/29/88
 ASSESSMENT ID: COMTRK-1516
 NASA FMEA #: 05-6PG-21212-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1516
 ITEM: FUSE, 10A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[P]	[P]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/29/88
 ASSESSMENT ID: COMTRK-1517
 NASA FMEA #: 05-6PG-21216-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1517
 ITEM: DIODE

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/29/88
 ASSESSMENT ID: COMTRK-1518
 NASA FMEA #: 05-6PG-21216-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1518
 ITEM: DIODE

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/11/88
 ASSESSMENT ID: COMTRK-1519
 NASA FMEA #: 05-6PG-21200-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1519
 ITEM: SWITCH, 4-POLE, 3-POS, S16

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/11/88
 ASSESSMENT ID: COMTRK-1520
 NASA FMEA #: 05-6PG-21200-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1520
 ITEM: SWITCH, 4-POLE, 3-POS, S16

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/12/88
 ASSESSMENT ID: COMTRK-1522
 NASA FMEA #: 6PG-21201-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1522
 ITEM: DIODE, A16CR2

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[F]	[F]	[P]	[X]
COMPARE	[/]	[N]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 AGREE WITH FMEA SCREEN A, B ASSIGNMENTS.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/12/88
 ASSESSMENT ID: COMTRK-1523
 NASA FMEA #: 05-6PG-21201-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1523
 ITEM: DIODE, A16CR1

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[F]	[F]	[P]	[X] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

IOA ANALYSIS INCORRECT - AGREE WITH FMEA.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/12/88
 ASSESSMENT ID: COMTRK-1524
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1524
 ITEM: DIODE, A16CR2

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[F]	[F]	[P]	[X] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:
 IOA ANALYSIS INCORRECT - AGREE WITH FMEA.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/11/88
 ASSESSMENT ID: COMTRK-1525
 NASA FMEA #: 05-6PG-21202-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1525
 ITEM: FUSE, 1AMP, A2F8

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NASA FIALURE MODE: OPEN; INADVERTENT CIRCUIT.
 IOA FAILURE MODE: FAILS OPEN.
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/12/88
 ASSESSMENT ID: COMTRK-1526
 NASA FMEA #: 05-6PG-21201-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1526
 ITEM: FUSE, 1AMP, A2F15

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/11/88
 ASSESSMENT ID: COMTRK-1528
 NASA FMEA #: 05-6PG-21203-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1528
 ITEM: HYBRID DRIVER, TYPE I, A18(J4-45)

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NASA FAILURE MODE; FAILS OPEN.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/11/88
 ASSESSMENT ID: COMTRK-1529
 NASA FMEA #: 05-6PG-21203-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1529
 ITEM: HYBRID DRIVER, TYPE I, A17(J4-45)

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NASA FAILURE MODE: FAILS OPEN; INADVERTENT OUTPUT.
 IOA FAILURE MODE: INADVERTENT OUTPUT.
 NO DIFFERENCES.

REPORT DATE 03/18/88

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APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/11/88
 ASSESSMENT ID: COMTRK-1530
 NASA FMEA #: 05-6PG-21203-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1530
 ITEM: HYBRID DRIVER, TYPE I, A18(J4-45)

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NASA FAILURE MODE: FAILS OPEN; INADVERTENT OUTPUT.
 IOA FAILURE MODE: INADVERTENT OUTPUT.
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/11/88
 ASSESSMENT ID: COMTRK-1531
 NASA FMEA #: 05-6PG-21204-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1531
 ITEM: RESISTOR, 1.2K OHM, 2W, A14R3

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NASA FAILURE MODE: OPEN CIRCUIT; FAIL OPEN CIRCUIT.
 IOA FAILURE MODE: FAILS OPEN.
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/11/88
 ASSESSMENT ID: COMTRK-1532
 NASA FMEA #: 05-6PG-21204-1

NASA DATA: []
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1532
 ITEM: RESISTOR, 1.2K OHM, 2W, A14R4

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NASA FAILURE MODE: OPEN CIRCUIT; FAIL OPEN CIRCUIT.
 IOA FAILURE MODE: FAILS OPEN.
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/11/88
 ASSESSMENT ID: COMTRK-1534
 NASA FMEA #: 05-6PG-21205-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1534
 ITEM: HYBRID DRIVER, TYPE III, A18(J5-P)

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NASA FAILURE MODE: LOSS OF OUTPUT; OPEN IN CIRCUIT.
 IOA FAILURE MODE: LOSS OF OUTPUT.
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/11/88
 ASSESSMENT ID: COMTRK-1536
 NASA FMEA #: 05-6PG-21205-2
 NASA DATA:
 BASELINE []
 NEW [X]
 SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1536
 ITEM: HYBRID DRIVER, TYPE III, A18(J5-P)
 LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NASA FAILURE MODE: INADVERTENT OUTPUT; DRIVER CANNOT BE TURNED OFF.
 IOA FAILURE MODE: INADVERTENT OUTPUT.
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/12/88
 ASSESSMENT ID: COMTRK-1538
 NASA FMEA #: 05-6PG-21211-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1538
 ITEM: HYBRID DRIVER, TYPE III, A18(J5-T)

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/12/88
 ASSESSMENT ID: COMTRK-1540
 NASA FMEA #: 05-6PG-21211-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1540
 ITEM: HYBRID DRIVER, TYPE III, A18(J5-T)

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[P]	[P]	[] *
IOA	[3 /2R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 AGREE WITH FMEA SCREEN B ASSIGNMENT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/12/88
ASSESSMENT ID: COMTRK-1542
NASA FMEA #: 05-6PG-21212-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
MDAC ID: 1542
ITEM: HYBRID DRIVER, TYPE III, A18(J5-D)

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[P]	[P]	[] *
IOA	[3 /2R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
AGREE WITH FMEA SCREEN B ASSIGNMENT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/12/88
ASSESSMENT ID: COMTRK-1543
NASA FMEA #: 05-6PG-21212-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
MDAC ID: 1543
ITEM: HYBRID DRIVER, TYPE III, A17(J5-D)

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/12/88
 ASSESSMENT ID: COMTRK-1544
 NASA FMEA #: 05-6PG-21212-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1544
 ITEM: HYBRID DRIVER, TYPE III, A18(J5-D)

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/12/88
 ASSESSMENT ID: COMTRK-1545
 NASA FMEA #: 05-6PG-21213-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1545
 ITEM: DIODE, A17CR

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/12/88
 ASSESSMENT ID: COMTRK-1546
 NASA FMEA #: 05-6PG-21213-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1546
 ITEM: DIODE, A18CR

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/12/88
 ASSESSMENT ID: COMTRK-1547
 NASA FMEA #: 05-6PG-21213-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1547
 ITEM: DIODE, A17CR

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 AGREE WITH FMEA SCREEN B ASSIGNMENT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/18/88
 ASSESSMENT ID: COMTRK-1548
 NASA FMEA #: 05-6PG-21213-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1548
 ITEM: DIODE, A18CR

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 AGREE WITH FMEA SCREEN B ASSIGNMENT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/12/88	NASA DATA:
ASSESSMENT ID: COMTRK-1549	BASELINE []
NASA FMEA #: 05-6PG-21214-1	NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1549
 ITEM: RESISTOR, 1.2K OHM, 2W, A15R1

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC		REDUNDANCY SCREENS				CIL ITEM
		A	B	C			
NASA	[3 /2R]	[P]	[NA]	[P]	[]	*	
IOA	[3 /2R]	[P]	[NA]	[P]	[]		
COMPARE	[/]	[]	[]	[]	[]		

RECOMMENDATIONS: (If different from NASA)

[/]	[]	[]	[]	[]	[]
					(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE	[]
INADEQUATE	[]

REMARKS:
NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/18/88
 ASSESSMENT ID: COMTRK-1550
 NASA FMEA #: 05-6PG-21214-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1550
 ITEM: RESISTOR, 1.2K OHM, 2W, A15R2

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/12/88
ASSESSMENT ID: COMTRK-1551
NASA FMEA #: 05-6PG-21215-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
MDAC ID: 1551
ITEM: SWITCH, 4-POLE, 3-POS, A2S10

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/12/88
 ASSESSMENT ID: COMTRK-1552
 NASA FMEA #: 05-6PG-21215-2

NASA DATA: -----
 BASELINE [] -----
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1552
 ITEM: SWITCH, 4-POLE, 3-POS, A2S10

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/12/88
 ASSESSMENT ID: COMTRK-1553
 NASA FMEA #: 05-6PG-21215-3

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1553
 ITEM: SWITCH, 4-POLE, 3-POS, A2S10

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/18/88
 ASSESSMENT ID: COMTRK-1554
 NASA FMEA #: 05-6PG-21216-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1554
 ITEM: DIODE, A18CR11

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/18/88
 ASSESSMENT ID: COMTRK-1555
 NASA FMEA #: 05-6PG-21216-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1555
 ITEM: DIODE, A18CR12

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[F]	[F]	[P]	[]
COMPARE	[/]	[N]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

IOA 1555 SHOULD BE IDENTICAL WITH IOA 1554, WHICH IS CORRECT.
 AGREE WITH NASA FMEA SCREEN A, B, ASSIGNMENTS.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/18/88
 ASSESSMENT ID: COMTRK-1556
 NASA FMEA #: 05-6PG-21216-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1556
 ITEM: DIODE, A18CR11

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[F]	[F]	[P]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

AGREE WITH FMEA ASSIGNMENTS FOR CRITICALITY AND SCREENS A AND B.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/18/88
 ASSESSMENT ID: COMTRK-1557
 NASA FMEA #: 05-6PG-21216-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1557
 ITEM: DIODE, A18CR12

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[F]	[F]	[P]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

AGREE WITH FMEA ASSIGNMENTS FOR CRITICALITY AND SCREENS A AND B.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/18/88
 ASSESSMENT ID: COMTRK-1558
 NASA FMEA #: 05-6PG-21217-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1558
 ITEM: FUSE, 1AMP, A2F6

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/18/88
 ASSESSMENT ID: COMTRK-1559
 NASA FMEA #: 05-6PG-21217-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1559
 ITEM: FUSE, 1AMP, A2F13

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/08/88
 ASSESSMENT ID: COMTRK-1560
 NASA FMEA #: 05-6PG-21221-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1560
 ITEM: REMOTE POWER CONTROLLER, 20 AMP, RPC35

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/08/88
 ASSESSMENT ID: COMTRK-1561
 NASA FMEA #: 05-6PG-21221-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1561
 ITEM: REMOTE POWER CONTROLLER, 20 AMP, RPC44

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY		REDUNDANCY SCREENS			CIL ITEM
	FLIGHT		A	B	C	
	HDW/FUNC					
NASA	[3	/2R]	[P]	[NA]	[P]	[] *
IOA	[3	/2R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/12/88
 ASSESSMENT ID: COMTRK-1562
 NASA FMEA #: 05-6PG-21221-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1562
 ITEM: REMOTE POWER CONTROLLER, 20 AMP, RPC35

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/12/88
 ASSESSMENT ID: COMTRK-1563
 NASA FMEA #: 05-6PG-21221-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1563
 ITEM: REMOTE POWER CONTROLLER, 20 AMP, RPC44

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/12/88
ASSESSMENT ID: COMTRK-1564
NASA FMEA #: 05-6PG-21223-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
MDAC ID: 1564
ITEM: HYBRID DRIVER, TYPE II, A17(J4-127)

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/12/88	NASA DATA:
ASSESSMENT ID: COMTRK-1565	BASELINE []
NASA FMEA #: 05-6PG-21223-1	NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
MDAC ID: 1565
ITEM: HYBRID DRIVER, TYPE II, A18(J4-127)

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []

(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

	ADEQUATE	[]
	INADEQUATE	[]

REMARKS:
NO DIFFERENCES.

C-3

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/08/88
 ASSESSMENT ID: COMTRK-1566
 NASA FMEA #: 05-6PG-21223-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1566
 ITEM: HYBRID DRIVER, TYPE II, A17(J4-127)

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/08/88 NASA DATA:
 ASSESSMENT ID: COMTRK-1567 BASELINE []
 NASA FMEA #: 05-6PG-21223-2 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1567
 ITEM: HYBRID DRIVER, TYPE II, A18(J4-127)

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/]	[]	[]	[]	[]	[]
-----------	-------	-------	-------	-------	-------

(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE	[]
INADEQUATE	[]

REMARKS:

NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/08/88
 ASSESSMENT ID: COMTRK-1568
 NASA FMEA #: 05-6PG-21224-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1568
 ITEM: FUSE, 1 AMP, A2F31

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/08/88
 ASSESSMENT ID: COMTRK-1569
 NASA FMEA #: 05-6PG-21224-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1569
 ITEM: FUSE, 1AMP, A2F11

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/12/88
 ASSESSMENT ID: COMTRK-1570
 NASA FMEA #: 05-6PG-21225-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1570
 ITEM: SWITCH, 4-POLE, 3-POS, A3S12

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/12/88
 ASSESSMENT ID: COMTRK-1571
 NASA FMEA #: 05-6PG-21225-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1571
 ITEM: SWITCH, 4-POLE, 3-POS, A3S12

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
		NASA [3 /2R]	[P]	[NA]	
IOA [3 /2R]	[P]	[NA]	[P]	[]	
COMPARE [/]	[]	[]	[]	[]	

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/08/88
 ASSESSMENT ID: COMTRK-1572
 NASA FMEA #: 05-6PG-21226-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1572
 ITEM: HYBRID DRIVER, TYPE I, A17(J4-49)

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/08/88
 ASSESSMENT ID: COMTRK-1573
 NASA FMEA #: 05-6PG-21226-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1573
 ITEM: HYBRID DRIVER, TYPE I, A18(J4-49)

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
		NASA [3 /2R]	[P]	[NA]	
IOA [3 /2R]	[P]	[NA]	[P]	[]	
COMPARE [/]	[]	[]	[]	[]	

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/12/88
 ASSESSMENT ID: COMTRK-1574
 NASA FMEA #: 05-6PG-21226-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1574
 ITEM: HYBRID DRIVER, TYPE I, A17(J4-49)

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/12/88
 ASSESSMENT ID: COMTRK-1575
 NASA FMEA #: 05-6PG-21226-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1575
 ITEM: HYBRID DRIVER, TYPE I, A18(J4-49)

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/08/88
 ASSESSMENT ID: COMTRK-1576
 NASA FMEA #: 05-6PG-21227-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1576
 ITEM: SWITCH, 2-POLE, 3-POS, A2S11

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/08/88
 ASSESSMENT ID: COMTRK-1577
 NASA FMEA #: 05-6PG-21227-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1577
 ITEM: SWITCH, 2-POLE, 3-POS, A2S11

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/08/88
ASSESSMENT ID: COMTRK-1578
NASA FMEA #: 05-6PG-21228-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
MDAC ID: 1578
ITEM: DIODE, A18CR13

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY	REDUNDANCY SCREENS			CIL
	FLIGHT HDW/FUNC	A	B	C	ITEM
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]
RECOMMENDATIONS:	(If different from NASA)				
	[/]	[]	[]	[]	[] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/12/88
 ASSESSMENT ID: COMTRK-1579
 NASA FMEA #: 05-6PG-21228-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1579
 ITEM: DIODE, A18CR14

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/12/88
 ASSESSMENT ID: COMTRK-1580
 NASA FMEA #: 05-6PG-21228-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1580
 ITEM: DIODE, A18CR15

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/12/88
 ASSESSMENT ID: COMTRK-1581
 NASA FMEA #: 05-6PG-21228-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1581
 ITEM: DIODE, A16CR16

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/15/88
 ASSESSMENT ID: COMTRK-1582
 NASA FMEA #: 05-6PG-21228-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1582
 ITEM: DIODE, A18CR13

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[F]	[F]	[P]	[X] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

AGREE WITH FMEA ASSIGNMENTS FOR CRITICALITY AND FOR SCREENS A AND B.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/15/88
 ASSESSMENT ID: COMTRK-1583
 NASA FMEA #: 05-6PG-21228-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1583
 ITEM: DIODE, A18CR14

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[F]	[P]	[X] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

AGREE WITH FMEA ASSIGNMENTS FOR CRITICALITY AND FOR SCREENS A AND B.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/15/88
 ASSESSMENT ID: COMTRK-1584
 NASA FMEA #: 05-6PG-21228-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1584
 ITEM: DIODE, A18CR15

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[F]	[F]	[P]	[X] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

AGREE WITH FMEA ASSIGNMENTS FOR CRITICALITY AND FOR SCREENS A AND B.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/15/88
 ASSESSMENT ID: COMTRK-1585
 NASA FMEA #: 05-6PG-21228-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1585
 ITEM: DIODE, A18CR16

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[F]	[F]	[P]	[X] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

AGREE WITH FMEA ASSIGNMENTS FOR CRITICALITY AND FOR SCREENS A AND B.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/15/88
 ASSESSMENT ID: COMTRK-1586
 NASA FMEA #: 05-6PG-21229-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1586
 ITEM: FUSE, 1AMP, A2F7

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/15/88
 ASSESSMENT ID: COMTRK-1587
 NASA FMEA #: 05-6PG-21229-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1587
 ITEM: FUSE, 1AMP, A2F14

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/15/88
 ASSESSMENT ID: COMTRK-1588
 NASA FMEA #: 05-6PG-21230-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1588
 ITEM: RESISTOR, 1.2K OHM, 2-W, A15R3

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/15/88 NASA DATA:
ASSESSMENT ID: COMTRK-1589 BASELINE []
NASA FMEA #: 05-6PG-21230-1 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
MDAC ID: 1589
ITEM: RESISTOR, 1.2K OHM, 2-W, A15R4

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/11/88
 ASSESSMENT ID: COMTRK-1590
 NASA FMEA #: 05-6PG-23501-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1590
 ITEM: HYBRID DRIVER, TYPE III, A17(J4-117)

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NASA FAILURE MODE: LOSS OF OUTPUT; FAILS OPEN CIRCUIT.
 IOA FAILURE MODE: LOSS OF OUTPUT.
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/11/88
 ASSESSMENT ID: COMTRK-1592
 NASA FMEA #: 05-6PG-23501-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1592
 ITEM: HYBRID DRIVER, TYPE III, A17(J4-117)

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /3] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NASA FAILURE MODE: INADVERTENT OUTPUT; DRIVER CANNOT BE TURNED OFF.
 IOA FAILURE MODE: INADVERTENT OUTPUT.
 EFFECTS ARE POWER CONSUMPTION, . NOT MISSION OF CREW/VEHICLE CRITICAL.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/11/88
 ASSESSMENT ID: COMTRK-1594
 NASA FMEA #: 05-6PG-23502-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1594
 ITEM: FUSE, 5 AMP, A17(J4-117)

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NASA FAILURE MODE; FAIL OPEN.
 IOA FAILURE MODE; FAIL OPEN.
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/11/88
 ASSESSMENT ID: COMTRK-1595
 NASA FMEA #: 05-6PG-23502-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1595
 ITEM: FUSE, 5 AMP, A18(J4-117)

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NASA FAILURE MODE; FAIL OPEN.
 IOA FAILURE MODE; FAIL OPEN.
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/15/88
 ASSESSMENT ID: COMTRK-1596
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1596
 ITEM: SWITCH, 2-POLE, 3-POS, A2S5

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/11/88
 ASSESSMENT ID: COMTRK-1598
 NASA FMEA #: 05-6PG-23529-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1598
 ITEM: DIODE, A19CR1

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NASA FAILURE MODE: OPEN; DIODE FAILS OPEN.
 IOA FAILURE MODE: FAILS OPEN.
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/11/88
ASSESSMENT ID: COMTRK-1599
NASA FMEA #: 05-6PG-23529-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
MDAC ID: 1599
ITEM: DIODE, A19CR2

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NASA FAILURE MODE: OPEN; DIODE FAILS OPEN.
IOA FAILURE MODE: FAILS OPEN.
NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/11/88
 ASSESSMENT ID: COMTRK-1600
 NASA FMEA #: 05-6PG-23529-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1600
 ITEM: DIODE, A19CR1

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[F]	[F]	[P]	[X] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

SHORTED DIODES CANNOT BE DETECTED IN TURNAROUND OR IN FLIGHT - FAILS SCREENS A AND B. AGREE WITH CRITICALITY ASSIGNMENT AND WITH SCREEN A AND B ASSIGNMENTS.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/11/88
 ASSESSMENT ID: COMTRK-1601
 NASA FMEA #: 05-6PG-23529-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1601
 ITEM: DIODE, CR2A19

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[F]	[F]	[P]	[X] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

SHORTED DIODES CANNOT BE DETECTED IN TURNAROUND OR IN FLIGHT -
 FAILS SCREENS A AND B. AGREE WITH CRITICALITY ASSIGNMENT AND
 WITH SCREEN A AND B ASSIGNMENTS.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/15/88
 ASSESSMENT ID: COMTRK-1602
 NASA FMEA #: 05-6PG-23530-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1602
 ITEM: RESISTOR, 1.2K OHM, 2W, A19R1

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/15/88
ASSESSMENT ID: COMTRK-1603
NASA FMEA #: 05-6PG-23530-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
MDAC ID: 1603
ITEM: RESISTOR, 1.2K OHM, 2W, A19R2

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/15/88
 ASSESSMENT ID: COMTRK-1604
 NASA FMEA #: 05-6PG-23531-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1604
 ITEM: FUSE, 1AMP, A2F5

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/15/88
 ASSESSMENT ID: COMTRK-1605
 NASA FMEA #: 05-6PG-23531-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 1605
 ITEM: FUSE, 1AMP, A2F12

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/09/88
 ASSESSMENT ID: COMTRK-1606
 NASA FMEA #: 05-6PG-21507-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1606
 ITEM: FUSE, 1A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/09/88
 ASSESSMENT ID: COMTRK-1608
 NASA FMEA #: 05-6PG-21502-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1608
 ITEM: RESISTOR, 1.2K

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/09/88
 ASSESSMENT ID: COMTRK-1610
 NASA FMEA #: 05-6PG-21500-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1610
 ITEM: DIODE

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/09/88
 ASSESSMENT ID: COMTRK-1612
 NASA FMEA #: 05-6PG-21500-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1612
 ITEM: DIODE

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/09/88
 ASSESSMENT ID: COMTRK-1614
 NASA FMEA #: 05-6PG-21815-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1614
 ITEM: RESISTOR, 1.2K

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/09/88
 ASSESSMENT ID: COMTRK-1615
 NASA FMEA #: 05-6PG-21815-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1615
 ITEM: RESISTOR, 1.2K

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/09/88
 ASSESSMENT ID: COMTRK-1616
 NASA FMEA #: 05-6PG-21825-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1616
 ITEM: RPC

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[P]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/09/88
 ASSESSMENT ID: COMTRK-1617
 NASA FMEA #: 05-6PG-21825-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1617
 ITEM: RPC

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/09/88
 ASSESSMENT ID: COMTRK-1618
 NASA FMEA #: 05-6PG-21825-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1618
 ITEM: RPC

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[P]	[P]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/09/88
 ASSESSMENT ID: COMTRK-1619
 NASA FMEA #: 05-6PG-21825-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1619
 ITEM: RPC

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/09/88
 ASSESSMENT ID: COMTRK-1620
 NASA FMEA #: 05-6PG-21825-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1620
 ITEM: RPC

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[P]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/09/88
 ASSESSMENT ID: COMTRK-1621
 NASA FMEA #: 05-6PG-21825-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1621
 ITEM: RPC

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/09/88
 ASSESSMENT ID: COMTRK-1622
 NASA FMEA #: 05-6PG-21825-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1622
 ITEM: RPC

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[P]	[P]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[] --
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/09/88
 ASSESSMENT ID: COMTRK-1623
 NASA FMEA #: 05-6PG-21825-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1623
 ITEM: RPC

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/09/88
 ASSESSMENT ID: COMTRK-1624
 NASA FMEA #: 05-6PG-21835-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1624
 ITEM: DIODE

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[P]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/09/88
 ASSESSMENT ID: COMTRK-1625
 NASA FMEA #: 05-6PG-21835-1

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1625
 ITEM: DIODE

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/09/88
 ASSESSMENT ID: COMTRK-1626
 NASA FMEA #: 05-6PG-21835-1

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1626
 ITEM: DIODE

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[P]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/09/88
 ASSESSMENT ID: COMTRK-1627
 NASA FMEA #: 05-6PG-21835-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1627
 ITEM: DIODE

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[P]	[P]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/09/88
 ASSESSMENT ID: COMTRK-1628
 NASA FMEA #: 05-6PG-21835-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1628
 ITEM: DIODE(S)

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/09/88
 ASSESSMENT ID: COMTRK-1629
 NASA FMEA #: 05-6PG-21509-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1629
 ITEM: FUSE, 3A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/09/88
 ASSESSMENT ID: COMTRK-1630
 NASA FMEA #: 05-6PG-21509-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1630
 ITEM: FUSE, 3A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/09/88
 ASSESSMENT ID: COMTRK-1631
 NASA FMEA #: 05-6PG-21503-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1631
 ITEM: FUSE

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NO DIFFERENCES. FUSES ARE INTERNAL TO ARI DRIVERS.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/09/88
 ASSESSMENT ID: COMTRK-1632
 NASA FMEA #: 05-6PG-21503-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1632
 ITEM: FUSE

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NO DIFFERENCES. FUSES ARE INTERNAL TO ARI DRIVERS.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/09/88
ASSESSMENT ID: COMTRK-1633
NASA FMEA #: 05-6PG-21505-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
MDAC ID: 1633
ITEM: DRIVER

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NO DIFFERENCES. FUSES ARE INTERNAL TO ARI DRIVERS.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/09/88
 ASSESSMENT ID: COMTRK-1634
 NASA FMEA #: 05-6PG-21505-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1634
 ITEM: DRIVER

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NO DIFFERENCES. FUSES ARE INTERNAL TO ARI DRIVERS.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/09/88
 ASSESSMENT ID: COMTRK-1635
 NASA FMEA #: 05-6PG-21503-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1635
 ITEM: DRIVER

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NO DIFFERENCES. FUSES ARE INTERNAL TO ARI DRIVERS.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/09/88
 ASSESSMENT ID: COMTRK-1636
 NASA FMEA #: 05-6PG-21503-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1636
 ITEM: DRIVER

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NO DIFFERENCES. FUSES ARE INTERNAL TO ARI DRIVERS.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/17/88
 ASSESSMENT ID: COMTRK-1637
 NASA FMEA #: 05-6PH-24803-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1637
 ITEM: DIODE

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NO DIFFERENCES. FUSES ARE INTERNAL TO ARI DRIVERS.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/17/88
 ASSESSMENT ID: COMTRK-1638
 NASA FMEA #: 05-6PH-24803-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1638
 ITEM: DIODE

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NO DIFFERENCES. FUSES ARE INTERNAL TO ARI DRIVERS.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/17/88
ASSESSMENT ID: COMTRK-1639
NASA FMEA #: 05-2G-21543-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
MDAC ID: 1639
ITEM: DIODE

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO DIFFERENCES. FUSES ARE INTERNAL TO ARI DRIVERS.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/17/88
 ASSESSMENT ID: COMTRK-1640
 NASA FMEA #: 05-2G-21543-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1640
 ITEM: DIODE

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NO DIFFERENCES. FUSES ARE INTERNAL TO ARI DRIVERS.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/17/88
 ASSESSMENT ID: COMTRK-1641
 NASA FMEA #: 05-2G-21543-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1641
 ITEM: DIODE

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NO DIFFERENCES. FUSES ARE INTERNAL TO ARI DRIVERS.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/17/88
 ASSESSMENT ID: COMTRK-1642
 NASA FMEA #: 05-2G-21543-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1642
 ITEM: DIODE

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NO DIFFERENCES. FUSES ARE INTERNAL TO ARI DRIVERS.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88
 ASSESSMENT ID: COMTRK-1643
 NASA FMEA #: 05-2G-21541-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1643
 ITEM: DIODE

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/N]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NO DISAGREEMENT WITH 3/2R CRITICALITY. IOA CONSIDERED ABSOLUTE
 WORST CASE OF LOSING STATE VECTOR UPDATES DUE TO MULTIPLE
 FAILURES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88
 ASSESSMENT ID: COMTRK-1644
 NASA FMEA #: 05-2G-21541-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1644
 ITEM: DIODE

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[]
COMPARE	[/N]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NO DISAGREEMENT WITH 3/2R CRITICALITY. IOA CONSIDERED ABSOLUTE WORST CASE OF LOSING STATE VECTOR UPDATES DUE TO MULTIPLE FAILURES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88
 ASSESSMENT ID: COMTRK-1645
 NASA FMEA #: 05-2G-21541-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1645
 ITEM: DIODE

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/N]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NO DISAGREEMENT WITH 3/2R CRITICALITY. IOA CONSIDERED ABSOLUTE WORST CASE OF LOSING STATE VECTOR UPDATES DUE TO MULTIPLE FAILURES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88
 ASSESSMENT ID: COMTRK-1646
 NASA FMEA #: 05-2G-21541-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1646
 ITEM: DIODE

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[]
COMPARE	[/N]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NO DISAGREEMENT WITH 3/2R CRITICALITY. IOA CONSIDERED ABSOLUTE
 WORST CASE OF LOSING STATE VECTOR UPDATES DUE TO MULTIPLE
 FAILURES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88 NASA DATA:
 ASSESSMENT ID: COMTRK-1647 BASELINE []
 NASA FMEA #: 05-2G-21541-1 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1647
 ITEM: DIODE

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY	REDUNDANCY SCREENS			CIL ITEM
	FLIGHT HDW/FUNC	A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/N]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DISAGREEMENT WITH 3/2R CRITICALITY. IOA CONSIDERED ABSOLUTE
 WORST CASE OF LOSING STATE VECTOR UPDATES DUE TO MULTIPLE
 FAILURES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88
 ASSESSMENT ID: COMTRK-1648
 NASA FMEA #: 05-2G-21541-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1648
 ITEM: DIODE

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[]
COMPARE	[/N]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NO DISAGREEMENT WITH 3/2R CRITICALITY. IOA CONSIDERED ABSOLUTE WORST CASE OF LOSING STATE VECTOR UPDATES DUE TO MULTIPLE FAILURES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88	NASA DATA:
ASSESSMENT ID: COMTRK-1649	BASELINE []
NASA FMEA #: 05-2G-21541-1	NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
MDAC ID: 1649
ITEM: DIODE

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC		REDUNDANCY SCREENS				CIL ITEM
		A	B	C			
NASA	[3 /2R]	[P]	[NA]	[P]		[] *	
IOA	[3 /1R]	[P]	[P]	[P]		[]	
COMPARE	[/N]	[]	[N]	[]		[]	

RECOMMENDATIONS: (If different from NASA)

[/]	[]	[]	[]	[]	[]	(ADD/DELETE)
-------------	--------	--------	--------	--------	--------	--------------

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE	[]
INADEQUATE	[]

REMARKS:

NO DISAGREEMENT WITH 3/2R CRITICALITY. IOA CONSIDERED ABSOLUTE WORST CASE OF LOSING STATE VECTOR UPDATES DUE TO MULTIPLE FAILURES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88
 ASSESSMENT ID: COMTRK-1650
 NASA FMEA #: 05-2G-21541-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1650
 ITEM: DIODE

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[]
COMPARE	[/N]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NO DISAGREEMENT WITH 3/2R CRITICALITY. IOA CONSIDERED ABSOLUTE WORST CASE OF LOSING STATE VECTOR UPDATES DUE TO MULTIPLE FAILURES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88
 ASSESSMENT ID: COMTRK-1651
 NASA FMEA #: 05-2G-21541-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1651
 ITEM: DIODE

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/N]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NO DISAGREEMENT WITH 3/2R CRITICALITY. IOA CONSIDERED ABSOLUTE WORST CASE OF LOSING STATE VECTOR UPDATES DUE TO MULTIPLE FAILURES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88
 ASSESSMENT ID: COMTRK-1652
 NASA FMEA #: 05-2G-21541-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1652
 ITEM: DIODE

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[]
COMPARE	[/N]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NO DISAGREEMENT WITH 3/2R CRITICALITY. IOA CONSIDERED ABSOLUTE
 WORST CASE OF LOSING STATE VECTOR UPDATES DUE TO MULTIPLE
 FAILURES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88
 ASSESSMENT ID: COMTRK-1653
 NASA FMEA #: 05-2G-21541-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1653
 ITEM: DIODE

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/N]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DISAGREEMENT WITH 3/2R CRITICALITY. IOA CONSIDERED ABSOLUTE
 WORST CASE OF LOSING STATE VECTOR UPDATES DUE TO MULTIPLE
 FAILURES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88
 ASSESSMENT ID: COMTRK-1654
 NASA FMEA #: 05-2G-21541-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1654
 ITEM: DIODE

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[]
COMPARE	[/N]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NO DISAGREEMENT WITH 3/2R CRITICALITY. IOA CONSIDERED ABSOLUTE WORST CASE OF LOSING STATE VECTOR UPDATES DUE TO MULTIPLE FAILURES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88
 ASSESSMENT ID: COMTRK-1655
 NASA FMEA #: 05-2G-21544-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1655
 ITEM: DIODE

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/N]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NO DISAGREEMENT WITH 3/2R CRITICALITY. IOA CONSIDERED ABSOLUTE WORST CASE OF LOSING STATE VECTOR UPDATES DUE TO MULTIPLE FAILURES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88
 ASSESSMENT ID: COMTRK-1656
 NASA FMEA #: 05-2G-21544-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1656
 ITEM: DIODE

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[]
COMPARE	[/N]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NO DISAGREEMENT WITH 3/2R CRITICALITY. IOA CONSIDERED ABSOLUTE WORST CASE OF LOSING STATE VECTOR UPDATES DUE TO MULTIPLE FAILURES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88
 ASSESSMENT ID: COMTRK-1657
 NASA FMEA #: 05-2G-21544-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1657
 ITEM: DIODE

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/N]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NO DISAGREEMENT WITH 3/2R CRITICALITY. IOA CONSIDERED ABSOLUTE WORST CASE OF LOSING STATE VECTOR UPDATES DUE TO MULTIPLE FAILURES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88
 ASSESSMENT ID: COMTRK-1658
 NASA FMEA #: 05-2G-21544-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1658
 ITEM: DIODE

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[]
COMPARE	[/N]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NO DISAGREEMENT WITH 3/2R CRITICALITY. IOA CONSIDERED ABSOLUTE WORST CASE OF LOSING STATE VECTOR UPDATES DUE TO MULTIPLE FAILURES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88
 ASSESSMENT ID: COMTRK-1659
 NASA FMEA #: 05-2G-21544-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1659
 ITEM: DIODE

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/N]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NO DISAGREEMENT WITH 3/2R CRITICALITY. IOA CONSIDERED ABSOLUTE WORST CASE OF LOSING STATE VECTOR UPDATES DUE TO MULTIPLE FAILURES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88
 ASSESSMENT ID: COMTRK-1660
 NASA FMEA #: 05-2G-21544-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1660
 ITEM: DIODE

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[]
COMPARE	[/N]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NO DISAGREEMENT WITH 3/2R CRITICALITY. IOA CONSIDERED ABSOLUTE WORST CASE OF LOSING STATE VECTOR UPDATES DUE TO MULTIPLE FAILURES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88	NASA DATA:
ASSESSMENT ID: COMTRK-1661	BASELINE []
NASA FMEA #: 05-2G-21544-1	NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
MDAC ID: 1661
ITEM: DIODE

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/N]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/]	[]	[]	[]	[]	(ADD/DELETE)
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* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE	[]
INADEQUATE	[]

REMARKS:

NO DISAGREEMENT WITH 3/2R CRITICALITY. IOA CONSIDERED ABSOLUTE WORST CASE OF LOSING STATE VECTOR UPDATES DUE TO MULTIPLE FAILURES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88
 ASSESSMENT ID: COMTRK-1662
 NASA FMEA #: 05-2G-21544-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1662
 ITEM: DIODE

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[]
COMPARE	[/N]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NO DISAGREEMENT WITH 3/2R CRITICALITY. IOA CONSIDERED ABSOLUTE
 WORST CASE OF LOSING STATE VECTOR UPDATES DUE TO MULTIPLE
 FAILURES.

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APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88
 ASSESSMENT ID: COMTRK-1663
 NASA FMEA #: 05-2G-21841-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1663
 ITEM: DIODE

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88
 ASSESSMENT ID: COMTRK-1664
 NASA FMEA #: 05-2G-21841-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1664
 ITEM: DIODE

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88
 ASSESSMENT ID: COMTRK-1665
 NASA FMEA #: 05-2G-21841-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1665
 ITEM: DIODE

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88
 ASSESSMENT ID: COMTRK-1666
 NASA FMEA #: 05-2G-21841-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 1666
 ITEM: DIODE

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/11/88
ASSESSMENT ID: COMTRK-2001
NASA FMEA #: 05-2G-21000-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM & TRACK
MDAC ID: 2001
ITEM: S-BAND FM TRANSMITTER

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NASA FAILURE MODE: LOSS OF OUTPUT.
IOA FAILURE MODE: LOSS OF OUTPUT.
NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/11/88
 ASSESSMENT ID: COMTRK-2002
 NASA FMEA #: NONE

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM & TRACK
 MDAC ID: 2002
 ITEM: S-BAND FM TRANSMITTER

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NO DIRECT FMEA COUNTERPART. CLOSES IS FMEA FOR "LOSS OF OUTPUT."
 NOT A CRITICAL ITEM.

**APPENDIX C
ASSESSMENT WORKSHEET**

ASSESSMENT DATE: 2/11/88 NASA DATA:
 ASSESSMENT ID: COMTRK-2003 BASELINE []
 NASA FMEA #: 05-2G-23522-1 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 2003
 ITEM: S-BAND FM RF TRANSFER SWITCH

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NASA FAILURE MODE: OPEN OR SHORT TO GROUND.
 IOA FAILURE MODE: FAIL TO OPEN/CLOSE; FAIL TO SWITCH.
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/11/88
 ASSESSMENT ID: COMTRK-2004
 NASA FMEA #: 05-2G-23522-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 2004
 ITEM: S-BAND FM RF TRANSFER SWITCH

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NASA FAILURE MODE: RF SWITCH JAM.
 IOA FAILURE MODE: FAIL MID-TRAVEL, PHYSICAL BINDING/JAMMING.
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/11/88
 ASSESSMENT ID: COMTRK-2006
 NASA FMEA #: 05-2G-23522-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 2006
 ITEM: S-BAND HEMI ANTENNA SWITCH ASSEMBLY

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/11/88
 ASSESSMENT ID: COMTRK-2007
 NASA FMEA #: NONE

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 2007
 ITEM: FM (HEMI) RF SWITCH ELECTRONICS

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

ELECTRONICS FOR HEMI ANTENNA CONTROL IS REFERRED TO IN NASA FMEA 05-2G-23500-1, BUT THAT FMEA REALLY ONLY DEALS WITH THE QUADS (FOR S-BAND PM), AND IS ASSIGNED CRITICALITY 2R, WITH NO MENTION OF A LESSER CRITICALITY FOR THE HEMI CONTROLS. SHOULD BE DOCUMENTED EVEN THOUGH NOT CRITICAL TO MISSION OR CREW/VEHICLE.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/11/88
 ASSESSMENT ID: COMTRK-2008
 NASA FMEA #: 05-2G-22900-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 2008
 ITEM: S-BAND HEMI ANTENNA

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NASA FAILURE MODE: LOSS OF OUTPUT.
 IOA FAILURE MODE: OPEN (ELECTRICAL), LOSS OF OUTPUT, SHORT.
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/11/88
 ASSESSMENT ID: COMTRK-2009
 NASA FMEA #: 05-2G-22900-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 2009
 ITEM: S-BAND HEMI ANTENNA

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

CLOSEST COUNTERPART IS FMEA 05-2G-22900-1.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/11/88
 ASSESSMENT ID: COMTRK-2010
 NASA FMEA #: 05-2G-21050-1

NASA DATA: []
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 2010
 ITEM: S-BAND FM POWER SWITCH

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NASA FAILURE MODE: FAILS TO TRANSFER, OPEN CIRCUIT, SWITCH JAM.
 IOA FAILURE MODE: FAILS MID-TRAVEL, PHYSICAL BINDING/JAMMING,
 FAIL TO SWITCH.
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/11/88
 ASSESSMENT ID: COMTRK-2011
 NASA FMEA #: 05-2G-21050-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 2011
 ITEM: S-BAND FM POWER SWITCH

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NASA FAILURE MODE: SHORT TO GROUND.
 IOA FAILURE MODE: SHORTED.
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/11/88
 ASSESSMENT ID: COMTRK-2012
 NASA FMEA #: 05-6PH-24810-1

NASA DATA: -----
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 2012
 ITEM: S-BAND FM SYSTEM PANEL/COMMAND GCIL SWITCH

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NASA FAILURE MODE: FAILS SHORTED CASE TO GROUND.
 IOA FAILURE MODE: SHORTED.
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/11/88 NASA DATA:
ASSESSMENT ID: COMTRK-2013 BASELINE []
NASA FMEA #: 05-2G-21110-1 NEW [X]

SUBSYSTEM: COMM & TRACK
MDAC ID: 2013
ITEM: S-BAND FM SYSTEM DATA SOURCE SELECTOR

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NASA FAILURE MODE: LOSS OF OUTPUT.
IOA FAILURE MODE: ALL CREDIBLE MODES.
NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/12/88
 ASSESSMENT ID: COMTRK-2013A
 NASA FMEA #: 05-2G-21110-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 2013
 ITEM: S-BAND FM SYSTEM DATA SOURCE SELECTOR

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/12/88
 ASSESSMENT ID: COMTRK-2013B
 NASA FMEA #: 05-2G-21110-3

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 2013
 ITEM: S-BAND FM SYSTEM DATA SOURCE SELECTOR

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/11/88
 ASSESSMENT ID: COMTRK-2014
 NASA FMEA #: 05-2G-21110-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 2014
 ITEM: S-BAND FM SIGNAL PROCESSOR

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NASA FAILURE MODE: LOSS OF OUTPUT.
 IOA FAILURE MODE: ALL CREDIBLE MODES.
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/11/88
 ASSESSMENT ID: COMTRK-2501
 NASA FMEA #: 05-6PG-21001-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 2501
 ITEM: HYBRID DRIVER, TYPE III

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NASA FAILURE MODE: LOSS OF OUTPUT, OPEN CIRCUIT.
 IOA FAILURE MODE: LOSS OF OUTPUT, OPEN CIRCUIT.
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/11/88
 ASSESSMENT ID: COMTRK-2502
 NASA FMEA #: 05-6PG-21001-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 2502
 ITEM: HYBRID DRIVER, TYPE III

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NASA FAILURE MODE: LOSS OF OUTPUT, OPEN CIRCUIT.
 IOA FAILURE MODE: LOSS OF OUTPUT, OPEN CIRCUIT.
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/11/88
 ASSESSMENT ID: COMTRK-2503
 NASA FMEA #: 05-6PG-21001-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 2503
 ITEM: HYBRID DRIVER, TYPE III

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NASA FAILURE MODE: INADVERTENT OUTPUT, FAILED SHORTED.
 IOA FAILURE MODE: FAILED SHORTED, INADVERTENT OUTPUT.
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/11/88
 ASSESSMENT ID: COMTRK-2504
 NASA FMEA #: 05-6PG-21001-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 2504
 ITEM: HYBRID DRIVER, TYPE III

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NASA FAILURE MODE: INADVERTENT OUTPUT, FAILED SHORTED.
 IOA FAILURE MODE: FAILED SHORTED, INADVERTENT OUTPUT.
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/11/88
 ASSESSMENT ID: COMTRK-2505
 NASA FMEA #: 05-6PG-21002-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 2505
 ITEM: FUSE, 3 AMP

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NASA FAILURE MODE: FAILS OPEN.
 IOA FAILURE MODE: FAILS OPEN.
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/11/88
 ASSESSMENT ID: COMTRK-2506
 NASA FMEA #: 05-6PG-21002-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 2506
 ITEM: FUSE, 3 AMP

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NASA FAILURE MODE: FAILS OPEN.
 IOA FAILURE MODE: FAILS OPEN.
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/11/88
 ASSESSMENT ID: COMTRK-2507
 NASA FMEA #: 05-6PG-21050-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 2507
 ITEM: SWITCH, 4-POLE, 3-POS, S3

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NASA FAILURE MODE: FAILS TO TRANSFER, OPEN CIRCUIT, SWITCH JAM.
 IOA FAILURE MODE: FAILS OPEN, FAILS TO TRANSFER.
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/11/88
 ASSESSMENT ID: COMTRK-2508
 NASA FMEA #: 05-6PG-21050-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 2508
 ITEM: SWITCH, 4-POLE, 3-POS, S3

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NASA FAILURE MODE: SHORT TO GROUND.
 IOA FAILURE MODE: FAILED SHORTED TO GROUND.
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/11/88
 ASSESSMENT ID: COMTRK-2509
 NASA FMEA #: 05-6PG-21050-3

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 2509
 ITEM: SWITCH, 4-POLE, 3-POS, S3

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NASA FAILURE MODE: CONTACT TO CONTACT SHORT.
 IOA FAILURE MODE: FAILED SHORTED CONTACT TO CONTACT, INADVERTENT
 OPERATION.
 NO DIFFERENCES.

**APPENDIX C
ASSESSMENT WORKSHEET**

ASSESSMENT DATE: 2/11/88 NASA DATA:
 ASSESSMENT ID: COMTRK-2510 BASELINE []
 NASA FMEA #: 05-6PG-21051-1 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 2510
 ITEM: RESISTOR, 1.2K OHM, 2W, A2R8

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NASA FAILURE MODE: OPEN CIRCUIT.
 IOA FAILURE MODE: FAILS OPEN.
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/11/88
ASSESSMENT ID: COMTRK-2511
NASA FMEA #: 05-6PG-21051-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
MDAC ID: 2511
ITEM: RESISTOR, 1.2K OHM, 2W, A2R9

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NASA FAILURE MODE: OPEN CIRCUIT.
IOA FAILURE MODE: FAILS OPEN.
NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/11/88
 ASSESSMENT ID: COMTRK-2512
 NASA FMEA #: 05-6PG-21051-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 2512
 ITEM: RESISTOR, 1.2K OHM, 2W, A2R10

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NASA FAILURE MODE: OPEN CIRCUIT.
 IOA FAILURE MODE: FAILS OPEN.
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/11/88
 ASSESSMENT ID: COMTRK-2513
 NASA FMEA #: 05-6PG-21051-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: C&T/EPD&C/S-BAND
 MDAC ID: 2513
 ITEM: RESISTOR, 1.2K OHM, 2W, A2R11

LEAD ANALYST: W.W. ROBINSON

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NASA FAILURE MODE: OPEN CIRCUIT.
 IOA FAILURE MODE: FAILS OPEN.
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/03/88
 ASSESSMENT ID: COMTRK-3001
 NASA FMEA #: 05-2J-25500-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 3001
 ITEM: PAYLOAD ANTENNA

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 / 2]	[]	[]	[]	[X] *
IOA	[2 / 2]	[]	[]	[]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/02/88
 ASSESSMENT ID: COMTRK-3002
 NASA FMEA #: NONE

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM & TRACK
 MDAC ID: 3002
 ITEM: PAYLOAD RF TRANSFER SWITCH

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[NA]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /2R] [P] [NA] [P] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NO NASA FMEA FOR THIS PARTICULAR FAILURE MODE. IT IS SPECIFIC TO THE TWO INDIVIDUAL RF SWITCH LINKS WHICH ARE INDEPENDENT AND IN THAT SENSE REDUNDANT. REFER TO IOA 3002. FAILURE MODE SHOULD ADDED FOR COMPLETENESS.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/02/88
 ASSESSMENT ID: COMTRK-3003
 NASA FMEA #: 05-2J-23600-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 3003
 ITEM: PAYLOAD RF TRANSFER SWITCH

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 / 2]	[]	[]	[]	[X] *
IOA	[2 / 2]	[]	[]	[]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

IOA 3003 COVERS FAILURE TO SWITCH, FAILS MID-TRAVEL, ETC.
 (EQUIVALENT TO OPEN). NASA FMEA 05-2J-23600-1 COVERS BOTH OPE
 AND SHORT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/02/88
 ASSESSMENT ID: COMTRK-3004
 NASA FMEA #: 05-2J-23600-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 3004
 ITEM: PAYLOAD RF TRANSFER SWITCH

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 / 2]	[]	[]	[]	[X] *
IOA	[2 / 2]	[]	[]	[]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

IOA 3004 COVERS ELECTRICAL SHORT, NASA FMEA COVERS BOTH SHORT AND OPEN.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/02/88
 ASSESSMENT ID: COMTRK-3005
 NASA FMEA #: 05-2J-21300-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 3005
 ITEM: PAYLOAD INTERROGATOR FORWARD LINK

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

AGREE WITH NASA FMEA SCREEN B ASSIGNMENT. IOA 3005 PERTAINS TO FORWARD LINK ONLY, NASA FMEA COVERS LOSS OF OUTPUT FOR BOTH FORWARD AND RETURN LINKS.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/02/88
 ASSESSMENT ID: COMTRK-3007
 NASA FMEA #: 05-2J-21300-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 3007
 ITEM: PAYLOAD INTERROGATOR FORWARD LINK

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NO DIRECT NASA COUNTERPART FMEA, BUT EXTREME CASE COULD
 CORRESPOND TO FMEA 05-2J-21300-1. AGREE WITH FMEA SCREEN B
 ASSIGNMENT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/02/88
 ASSESSMENT ID: COMTRK-3008
 NASA FMEA #: 05-2J-21300-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 3008
 ITEM: PAYLOAD INTERROGATOR RETURN LINK

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

IOA 3008 PERTAINS TO FORWARD LINK ONLY, NASA FMEA COVERS LOSS OF OUTPUT FOR BOTH FORWARD AND RETURN LINKS. AGREE WITH NASA FMEA SCREEN B ASSIGNMENT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/03/88
 ASSESSMENT ID: COMTRK-3011
 NASA FMEA #: 05-2J-21600-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 3011
 ITEM: PAYLOAD SIGNAL PROCESSOR FORWARD LINK

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

AGREE WITH FMEA SCREEN B ASSIGNMENT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/09/88
 ASSESSMENT ID: COMTRK-3012
 NASA FMEA #: 05-2J-21600-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 3012
 ITEM: PAYLOAD SIGNAL PROCESSOR FORWARD LINK

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY		REDUNDANCY SCREENS			CIL ITEM
	FLIGHT		A	B	C	
	HDW/FUNC					
NASA	[3	/2R]	[P]	[NA]	[P]	[] *
IOA	[3	/2R]	[P]	[P]	[P]	[]
COMPARE	[/]		[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

AGREE WITH FMEA SCREEN B ASSIGNMENT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/09/88
 ASSESSMENT ID: COMTRK-3013
 NASA FMEA #: 05-2J-21600-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 3013
 ITEM: PAYLOAD SIGNAL PROCESSOR RETURN LINK

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

AGREE WITH FMEA SCREEN B ASSIGNMENT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/03/88
 ASSESSMENT ID: COMTRK-3016
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 3016
 ITEM: S-BAND PAYLOAD SYSTEM SELECT SWITCH, S13

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/03/88
 ASSESSMENT ID: COMTRK-3017
 NASA FMEA #: 05-2J-213013-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 3017
 ITEM: S-BAND PAYLOAD SYSTEM SELECT SWITCH, S13

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 / 2]	[]	[]	[]	[X] *
IOA	[2 / 2]	[]	[]	[]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/03/88
 ASSESSMENT ID: COMTRK-3018
 NASA FMEA #: 05-2J-213014-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 3018
 ITEM: S-BAND PL PI/PSP POWER SWITCH, S14

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[]	[NA]	[]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/03/88
 ASSESSMENT ID: COMTRK-3019
 NASA FMEA #: 05-2J-213014-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 3019
 ITEM: S-BAND PL PI/PSP POWER SWITCH, S14

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 / 2]	[]	[]	[]	[X] *
IOA	[2 / 2]	[]	[]	[]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/03/88
ASSESSMENT ID: COMTRK-3020
NASA FMEA #: 05-6PJ-236002-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM & TRACK
MDAC ID: 3020
ITEM: S-BAND PL ANTENNA POLARIZATION SWITCH,S2

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
AGREE WITH FMEA SCREEN B ASSIGNMENT.

**APPENDIX C
ASSESSMENT WORKSHEET**

ASSESSMENT DATE: 2/03/88
 ASSESSMENT ID: COMTRK-3021
 NASA FMEA #: 05-6PJ-236002-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 3021
 ITEM: S-BAND PL ANTENNA POLARIZATION SWITCH, S2

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 / 2]	[]	[]	[]	[X] *
IOA	[2 / 2]	[]	[]	[]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/03/88
 ASSESSMENT ID: COMTRK-3022
 NASA FMEA #: 05-2J-21304-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 3022
 ITEM: PI TRANSMITTER RF PWR LEVEL SELECT SWITCH, S4

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/03/88
 ASSESSMENT ID: COMTRK-3023
 NASA FMEA #: 05-2J-21304-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 3023
 ITEM: PI TRANSMITTER RF PWR LEVEL SELECT SWITCH, S4

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 / 2]	[]	[]	[]	[X] *
IOA	[2 / 2]	[]	[]	[]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

**APPENDIX C
ASSESSMENT WORKSHEET**

ASSESSMENT DATE: 2/03/88 NASA DATA:
 ASSESSMENT ID: COMTRK-3024 BASELINE []
 NASA FMEA #: 05-2J-21309-1 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 3024
 ITEM: PL SYSTEM XMTR MODULATION ON/OFF SWITCH, S9

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

**APPENDIX C
ASSESSMENT WORKSHEET**

ASSESSMENT DATE: 2/03/88
 ASSESSMENT ID: COMTRK-3025
 NASA FMEA #: 05-2J-21309-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 3025
 ITEM: PL SYSTEM XMTR MODULATION ON/OFF SWITCH, S9

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 / 2]	[]	[]	[]	[X] *
IOA	[2 / 2]	[]	[]	[]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/03/88
 ASSESSMENT ID: COMTRK-3026
 NASA FMEA #: 05-2J-21308-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 3026
 ITEM: S-BAND PL FREQUENCY SWEEP ON/OFF SWITCH, S8

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/03/88
 ASSESSMENT ID: COMTRK-3027
 NASA FMEA #: 05-2J-21308-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 3027
 ITEM: S-BAND FREQUENCY SWEEP ON/OFF SWITCH, S8

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 / 2]	[]	[]	[]	[X] *
IOA	[2 / 2]	[]	[]	[]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/03/88
ASSESSMENT ID: COMTRK-3028
NASA FMEA #: 05-2J-21615-1
NASA DATA:
BASELINE []
NEW [X]
SUBSYSTEM: COMM & TRACK
MDAC ID: 3028
ITEM: S-BAND PL PSP COMMAND OUTPUT SELECTOR SWITCH,
S15
LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[P]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

] ADEQUATE []
INADEQUATE []

REMARKS:
NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/03/88
 ASSESSMENT ID: COMTRK-3029
 NASA FMEA #: 05-2J-21615-2

NASA DATA: []
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 3029
 ITEM: S-BAND PL PSP COMMAND OUTPUT SELECTOR SWITCH,
 S15

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 / 2]	[]	[]	[]	[X] *
IOA	[2 / 2]	[]	[]	[]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/03/88
 ASSESSMENT ID: COMTRK-3030
 NASA FMEA #: 05-2J-21307-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 3030
 ITEM: S-BAND PL SYSTEM PI RF CHANNEL SELECT SWITCHES,
 S7

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/03/88
 ASSESSMENT ID: COMTRK-3031
 NASA FMEA #: 05-2J-21307-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 3031
 ITEM: S-BAND PL SYSTEM PI RF CHANNEL SELECT SWITCHES

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/29/88
 ASSESSMENT ID: COMTRK-3501
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 3501
 ITEM: FUSE, 3A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY	REDUNDANCY	SCREENS			CIL
	FLIGHT		A	B	C	ITEM
	HDW/FUNC					
NASA	[/]	[]	[]	[]	[]	[] *
IOA	[3 / 2R]	[P]	[F]	[P]	[P]	[]
COMPARE	[N / N]	[N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

N/A. SEE MDAC ID 3509.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/29/88
 ASSESSMENT ID: COMTRK-3502
 NASA FMEA #: 05-6PJ-213015-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 3502
 ITEM: FUSE, 1A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/29/88
 ASSESSMENT ID: COMTRK-3503
 NASA FMEA #: 05-6PJ-213015-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 3503
 ITEM: FUSE, 1A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/29/88
 ASSESSMENT ID: COMTRK-3504
 NASA FMEA #: 05-6PJ-213016-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 3504
 ITEM: FUSE, 1A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/29/88
 ASSESSMENT ID: COMTRK-3505
 NASA FMEA #: 05-6PJ-213016-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 3505
 ITEM: FUSE, 1A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/29/88
 ASSESSMENT ID: COMTRK-3506
 NASA FMEA #: 05-6PJ-213020-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 3506
 ITEM: FUSE, 10A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/29/88
 ASSESSMENT ID: COMTRK-3507
 NASA FMEA #: 05-6PJ-213020-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 3507
 ITEM: FUSE, 10A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/29/88
 ASSESSMENT ID: COMTRK-3508
 NASA FMEA #: 05-6PJ-213019-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 3508
 ITEM: FUSE, 3A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY	REDUNDANCY SCREENS			CIL ITEM
	FLIGHT HDW/FUNC	A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/29/88
 ASSESSMENT ID: COMTRK-3509
 NASA FMEA #: 05-6PJ-213019-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 3509
 ITEM: FUSE, 3A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/03/88
 ASSESSMENT ID: COMTRK-3510
 NASA FMEA #: 05-6PJ-236005-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 3510
 ITEM: FUSE, 10A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/03/88
 ASSESSMENT ID: COMTRK-3511
 NASA FMEA #: 05-6PJ-236005-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 3511
 ITEM: FUSE, 10A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/03/88
 ASSESSMENT ID: COMTRK-3512
 NASA FMEA #: 05-6PJ-236005-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 3512
 ITEM: FUSE, 10A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/03/88
 ASSESSMENT ID: COMTRK-3513
 NASA FMEA #: 05-6PJ-236005-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 3513
 ITEM: FUSE, 10A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/03/88
 ASSESSMENT ID: COMTRK-3514
 NASA FMEA #: 05-6PJ-236006-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 3514
 ITEM: DIODE

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/03/88 NASA DATA:
 ASSESSMENT ID: COMTRK-3515 BASELINE []
 NASA FMEA #: 05-6PJ-236006-1 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 3515
 ITEM: DIODE

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
		NASA	[3 / 2R]	[P]	
IOA	[3 / 2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/03/88
 ASSESSMENT ID: COMTRK-3516
 NASA FMEA #: 05-6PJ-236006-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 3516
 ITEM: DIODE

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/03/88
 ASSESSMENT ID: COMTRK-3517
 NASA FMEA #: 05-6PJ-236006-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 3517
 ITEM: DIODE

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/03/88
 ASSESSMENT ID: COMTRK-3518
 NASA FMEA #: 05-6PJ-213018-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 3518
 ITEM: FUSE, 3A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/03/88
 ASSESSMENT ID: COMTRK-3519
 NASA FMEA #: 05-6PJ-213018-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 3519
 ITEM: FUSE, 3A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/03/88
 ASSESSMENT ID: COMTRK-3520
 NASA FMEA #: 05-6PJ-213021-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 3520
 ITEM: DRIVER

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/03/88
 ASSESSMENT ID: COMTRK-3521
 NASA FMEA #: 05-6PJ-213021-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 3521
 ITEM: DRIVER

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/29/88
 ASSESSMENT ID: COMTRK-3522
 NASA FMEA #: 05-6PJ-213020-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 3522
 ITEM: DRIVER

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/29/88
 ASSESSMENT ID: COMTRK-3523
 NASA FMEA #: 05-6PJ-213020-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 3523
 ITEM: DRIVER

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/29/88
 ASSESSMENT ID: COMTRK-3524
 NASA FMEA #: 05-6PJ-236005-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 3524
 ITEM: DRIVER

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/29/88
 ASSESSMENT ID: COMTRK-3525
 NASA FMEA #: 05-6PJ-236005-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 3525
 ITEM: DRIVER

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/29/88
 ASSESSMENT ID: COMTRK-3526
 NASA FMEA #: 05-6PJ-236005-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 3526
 ITEM: DRIVER

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/29/88
 ASSESSMENT ID: COMTRK-3527
 NASA FMEA #: 05-6PJ-236005-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 3527
 ITEM: DRIVER

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-4001
 NASA FMEA #: 05-2R-5100-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4001
 ITEM: KU BD EA-1 (INTERFACE AND CONTROL UNIT)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[3 /1R] [P] [P] [P] [D]
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

ANALYSIS ONLY COVERED COMM FUNCTION. WHEN INCLUDING BOTH RADAR AND COMM FUNCTIONS CRITICALITY IS IN AGREEMENT. RADAR FUNCTION COVERED UNDER SEPARATE FMEA, 7000 SERIES.

**APPENDIX C
ASSESSMENT WORKSHEET**

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-4001A
 NASA FMEA #: 05-2R-5100-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4001
 ITEM: KU BD EA-1 (INTERFACE AND CONTROL UNIT)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

CRITICALITIES ARE IN AGREEMENT. STOWED ANTENNA WOULD RESULT IN LOSS OF KUCOMM OUTPUT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-4002
 NASA FMEA #: 05-2R-5200-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4002
 ITEM: KU BD EA-2 (RADAR SIGNAL PROCESSOR)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 / 2]	[]	[]	[]	[X] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[3 / 3] [] [] [] [D]
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE [X]

REMARKS:

ANALYSIS ONLY COVERED COMM FUNCTION. WHEN INCLUDING BOTH RADAR AND COMM FUNCTIONS CRITICALITY IS IN AGREEMENT. RADAR FUNCTION COVERED UNDER SEPARATE FMEA, 7000 SERIES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-4003
 NASA FMEA #: 05-2R-5400-1

NASA DATA: []
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4003
 ITEM: KU BD SPA (SIGNAL PROCESSOR ASSY)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 / 2]	[]	[]	[]	[X] *
IOA	[3 / 1R]	[P]	[P]	[P]	[]
COMPARE	[N / N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[3 / 1R] [P] [P] [P] [D]
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE [X]

REMARKS:

ANALYSIS ONLY COVERED COMM FUNCTION. WHEN INCLUDING BOTH RADAR AND COMM FUNCTIONS CRITICALITY IS IN AGREEMENT. RADAR FUNCTION COVERED UNDER SEPARATE FMEA, 7000 SERIES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-4003A
 NASA FMEA #: 05-2R-5400-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4003
 ITEM: KU BD SPA (SIGNAL PROCESSOR ASSY)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
		NASA [2 /1R]	[P]	[P]	
IOA [3 /1R]	[P]	[P]	[P]	[]	
COMPARE [N /]	[]	[]	[]	[N]	

RECOMMENDATIONS: (If different from NASA)

[3 /1R] [P] [P] [P] [D]
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE [X]

REMARKS:

ANALYSIS ONLY COVERED COMM FUNCTION. WHEN INCLUDING BOTH RADAR
 AND COMM FUNCTIONS CRITICALITY IS IN AGREEMENT. RADAR FUNCTION
 COVERED UNDER SEPARATE FMEA, 7000 SERIES.

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APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
ASSESSMENT ID: COMTRK-4004
NASA FMEA #:

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 4004
ITEM: NSP (NETWORK SIGNAL PROCESSOR)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /1R] [P] [P] [P] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA KUCOMM FMEA. NSP IS CRITICAL COMPONENT TO KUCOMM FUNCTION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
ASSESSMENT ID: COMTRK-4005
NASA FMEA #: 05-2R-5300-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 4005
ITEM: KU BD DEA (DEPLOYED ELECTRONIC ASSY)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[3 /1R] [P] [P] [P] [D]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE [X]

REMARKS:

ANALYSIS ONLY COVERED COMM FUNCTION. WHEN INCLUDING BOTH RADAR AND COMM FUNCTIONS CRITICALITY IS IN AGREEMENT. RADAR FUNCTION COVERED UNDER SEPARATE FMEA, 7000 SERIES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-4005A
 NASA FMEA #: 05-2R-5300-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4005
 ITEM: KU BD DEA (DEPLOYED ELECTRONIC ASSY)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:
 CRITICALITIES IN AGREEMENT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88	NASA DATA:
ASSESSMENT ID: COMTRK-4005B	BASELINE []
NASA FMEA #: 05-2R-5300-3	NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 4005
ITEM: KU BD DEA (DEPLOYED ELECTRONIC ASSY)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY	REDUNDANCY SCREENS			CIL
	FLIGHT				ITEM
	HDW/FUNC	A	B	C	
NASA	[2 /2]	[]	[]	[]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[3 /1R]	[P]	[P]	[P]	[D] (ADD/DELETE)
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* CIL RETENTION RATIONALE: (If applicable)

	ADEQUATE []
	INADEQUATE [X]

REMARKS:
ANALYSIS ONLY COVERED COMM FUNCTION. WHEN INCLUDING BOTH RADAR AND COMM FUNCTIONS CRITICALITY IS IN AGREEMENT. RADAR FUNCTION COVERED UNDER SEPARATE FMEA, 7000 SERIES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
ASSESSMENT ID: COMTRK-4006
NASA FMEA #: 05-2R-5300-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 4006
ITEM: KU BD DEA (DEPLOYED ELECTRONIC ASSY)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[3 /1R] [P] [P] [P] [D]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE [X]

REMARKS:

ANALYSIS ONLY COVERED COMM FUNCTION. WHEN INCLUDING BOTH RADAR
AND COMM FUNCTIONS CRITICALITY IS IN AGREEMENT. RADAR FUNCTION
COVERED UNDER SEPARATE FMEA, 7000 SERIES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88 NASA DATA:
ASSESSMENT ID: COMTRK-4007 BASELINE []
NASA FMEA #: 05-2R-5300-1 NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 4007
ITEM: KU BD DMA (DEPLOYED MECHANICAL ASSY)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[3 /1R] [P] [P] [P] [D]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE [X]

REMARKS:

ANALYSIS ONLY COVERED COMM FUNCTION. WHEN INCLUDING BOTH RADAR AND COMM FUNCTIONS CRITICALITY IS IN AGREEMENT. RADAR FUNCTION COVERED UNDER SEPARATE FMEA, 7000 SERIES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
ASSESSMENT ID: COMTRK-4008
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 4008
ITEM: KU BD DMA (DEPLOYED MECHANICAL ASSY)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /1R] [P] [P] [P] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA KUCOMM FMEA. FAILURE TO START/STOP WOULD CAUSE LOSS KUCOMM FUNCTION RESULTING IN LOSS OF OUTPUT. MIGHT CONSIDER ADDING FOR COMPLETENESS.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE:	3/03/88	NASA DATA:	
ASSESSMENT ID:	COMTRK-4009	BASELINE	[]
NASA FMEA #:	05-2R-5300-1	NEW	[X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 4009
ITEM: KU BD DMA (DEPLOYED MECHANICAL ASSY)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[3 /1R]	[P]	[P]	[P]	[D]
				(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE	[]
INADEQUATE	[X]

REMARKS:

ANALYSIS ONLY COVERED COMM FUNCTION. WHEN INCLUDING BOTH RADAR AND COMM FUNCTIONS CRITICALITY IS IN AGREEMENT. RADAR FUNCTION COVERED UNDER SEPARATE FMEA, 7000 SERIES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88 NASA DATA:
ASSESSMENT ID: COMTRK-4010 BASELINE []
NASA FMEA #: 05-2R-5300-4 NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 4010
ITEM: KU BD DMA (DEPLOYED MECHANICAL ASSY)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[3 /1R] [P] [P] [P] [D]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE [X]

REMARKS:

ANALYSIS ONLY COVERED COMM FUNCTION. WHEN INCLUDING BOTH RADAR AND COMM FUNCTIONS CRITICALITY IS IN AGREEMENT. RADAR FUNCTION COVERED UNDER SEPARATE FMEA, 7000 SERIES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88 NASA DATA:
ASSESSMENT ID: COMTRK-4011 BASELINE []
NASA FMEA #: 05-2R-5100-1 NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 4011
ITEM: KU BD COMM UP/FORWARD LINK MODE 1

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[3 /1R] [P] [P] [P] [D]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE [X]

REMARKS:

ANALYSIS ONLY COVERED COMM FUNCTION. WHEN INCLUDING BOTH RADAR AND COMM FUNCTIONS CRITICALITY IS IN AGREEMENT. RADAR FUNCTION COVERED UNDER SEPARATE FMEA, 7000 SERIES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-4011A
 NASA FMEA #: 05-2R-5100-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4011
 ITEM: KU BD COMM UP/FORWARD LINK MODE 1

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

CRITICALITIES IN AGREEMENT. BOOM STOW WOULD RESULT IN LOSS OF KU-BAND FUNCTION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88 NASA DATA:
 ASSESSMENT ID: COMTRK-4012 BASELINE []
 NASA FMEA #: 05-2R-5100-1 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4012
 ITEM: KU BD COMM UP/FORWARD LINK MODE 1

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[3 /1R] [P] [P] [P] [D]
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE [X]

REMARKS:
 ANALYSIS ONLY COVERED COMM FUNCTION. WHEN INCLUDING BOTH RADAR
 AND COMM FUNCTIONS CRITICALITY IS IN AGREEMENT. RADAR FUNCTION
 COVERED UNDER SEPARATE FMEA, 7000 SERIES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-4012A
 NASA FMEA #: 05-2R-5100-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4012
 ITEM: KU BD COMM UP/FORWARD LINK MODE 1

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

CRITICALITIES IN AGREEMENT. BOOM STOW WOULD RESULT IN LOSS OF KU-BAND FUNCTION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-4013
 NASA FMEA #: 05-2R-5100-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4013
 ITEM: KU BD COMM UP/FORWARD LINK MODE 1

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[3 /1R] [P] [P] [P] [D]
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE [X]

REMARKS:

ANALYSIS ONLY COVERED COMM FUNCTION. WHEN INCLUDING BOTH RADAR AND COMM FUNCTIONS CRITICALITY IS IN AGREEMENT. RADAR FUNCTION COVERED UNDER SEPARATE FMEA, 7000 SERIES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-4013A
 NASA FMEA #: 05-2R-5100-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4013
 ITEM: KU BD COMM UP/FORWARD LINK MODE 1

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

CRITICALITIES IN AGREEMENT. BOOM STOW WOULD RESULT IN LOSS OF KU-BAND FUNCTION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
ASSESSMENT ID: COMTRK-4014A
NASA FMEA #: 05-2R-5100-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 4014
ITEM: KU BD COMM UP/FORWARD LINK MODE 2

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

CRITICALITIES IN AGREEMENT. BOOM STOW WOULD RESULT IN LOSS OF
KU-BAND FUNCTION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
ASSESSMENT ID: COMTRK-4014
NASA FMEA #: 05-2R-5100-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 4014
ITEM: KU BD COMM UP/FORWARD LINK MODE 2

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[3 /1R] [P] [P] [P] [D]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE [X]

REMARKS:

ANALYSIS ONLY COVERED COMM FUNCTION. WHEN INCLUDING BOTH RADAR AND COMM FUNCTIONS CRITICALITY IS IN AGREEMENT. RADAR FUNCTION COVERED UNDER SEPARATE FMEA, 7000 SERIES.

**APPENDIX C
ASSESSMENT WORKSHEET**

ASSESSMENT DATE: 3/03/88 NASA DATA:
 ASSESSMENT ID: COMTRK-4015 BASELINE []
 NASA FMEA #: 05-2R-5100-1 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4015
 ITEM: KU BD COMM UP/FORWARD LINK MODE 2

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[3 /1R] [P] [P] [P] [D]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE [X]

REMARKS:

ANALYSIS ONLY COVERED COMM FUNCTION. WHEN INCLUDING BOTH RADAR AND COMM FUNCTIONS CRITICALITY IS IN AGREEMENT. RADAR FUNCTION COVERED UNDER SEPARATE FMEA, 7000 SERIES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-4015A
 NASA FMEA #: 05-2R-5100-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4015
 ITEM: KU BD COMM UP/FORWARD LINK MODE 2

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

CRITICALITIES IN AGREEMENT. BOOM STOW WOULD RESULT IN LOSS OF KU-BAND FUNCTION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
ASSESSMENT ID: COMTRK-4016A
NASA FMEA #: 05-2R-5100-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 4016
ITEM: KU BD COMM UP/FORWARD LINK MODE 2

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

CRITICALITIES IN AGREEMENT. BOOM STOW WOULD RESULT IN LOSS OF KU-BAND FUNCTION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-4016
 NASA FMEA #: 05-2R-5100-1

NASA DATA: -----
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4016
 ITEM: KU BD COMM UP/FORWARD LINK MODE 2

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[3 /1R] [P] [P] [P] [D]
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE [X]

REMARKS:

ANALYSIS ONLY COVERED COMM FUNCTION. WHEN INCLUDING BOTH RADAR AND COMM FUNCTIONS CRITICALITY IS IN AGREEMENT. RADAR FUNCTION COVERED UNDER SEPARATE FMEA, 7000 SERIES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
ASSESSMENT ID: COMTRK-4017
NASA FMEA #: 05-2R-5100-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 4017
ITEM: KU BD COMM DOWN/RETURN LINK MODE 1

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[3 /1R] [P] [P] [P] [D]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE [X]

REMARKS:

ANALYSIS ONLY COVERED COMM FUNCTION. WHEN INCLUDING BOTH RADAR AND COMM FUNCTIONS CRITICALITY IS IN AGREEMENT. RADAR FUNCTION COVERED UNDER SEPARATE FMEA, 7000 SERIES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-4017A
 NASA FMEA #: 05-2R-5100-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4017
 ITEM: KU BD COMM DOWN/RETURN LINK MODE 1

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

CRITICALITIES IN AGREEMENT. BOOM STOW WOULD RESULT IN LOSS OF KU-BAND FUNCTION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
ASSESSMENT ID: COMTRK-4018A
NASA FMEA #: 05-2R-5100-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 4018
ITEM: KU BD COMM DOWN/RETURN LINK MODE 1 CHANNEL1

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

CRITICALITIES IN AGREEMENT. BOOM STOW WOULD RESULT IN LOSS OF
KU-BAND FUNCTION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-4018
 NASA FMEA #: 05-2R-5100-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4018
 ITEM: KU BD COMM DOWN/RETURN LINK MODE 1 CHANNEL1

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[3 /1R] [P] [P] [P] [D]
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

ANALYSIS ONLY COVERED COMM FUNCTION. WHEN INCLUDING BOTH RADAR AND COMM FUNCTIONS CRITICALITY IS IN AGREEMENT. RADAR FUNCTION COVERED UNDER SEPARATE FMEA, 7000 SERIES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-4019
 NASA FMEA #: 05-2R-5100-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4019
 ITEM: KU BD COMM DOWN/RETURN LINK MODE 1 CHANNEL 2

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[3 /1R] [P] [P] [P] [D]
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE [X]

REMARKS:

ANALYSIS ONLY COVERED COMM FUNCTION. WHEN INCLUDING BOTH RADAR AND COMM FUNCTIONS CRITICALITY IS IN AGREEMENT. RADAR FUNCTION COVERED UNDER SEPARATE FMEA, 7000 SERIES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-4019A
 NASA FMEA #: 05-2R-5100-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4019
 ITEM: KU BD COMM DOWN/RETURN LINK MODE 1 CHANNEL 2

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[]	[X] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/N]	[]	[]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

CRITICALITIES IN AGREEMENT. BOOM STOW WOULD RESULT IN LOSS OF KU-BAND FUNCTION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-4020A
 NASA FMEA #: 05-2R-5100-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4020
 ITEM: KU BD COMM DOWN/RETURN LINK MODE 1 CHANNEL 3

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:
 CRITICALITIES IN AGREEMENT. BOOM STOW WOULD RESULT IN LOSS OF
 KU-BAND FUNCTION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-4020
 NASA FMEA #: 05-2R-5100-1

NASA DATA: []
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4020
 ITEM: KU BD COMM DOWN/RETURN LINK MODE 1 CHANNEL 3

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[3 /1R] [P] [P] [P] [D]
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE [X]

REMARKS:

ANALYSIS ONLY COVERED COMM FUNCTION. WHEN INCLUDING BOTH RADAR AND COMM FUNCTIONS CRITICALITY IS IN AGREEMENT. RADAR FUNCTION COVERED UNDER SEPARATE FMEA, 7000 SERIES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88	NASA DATA:
ASSESSMENT ID: COMTRK-4021	BASELINE []
NASA FMEA #: 05-2R-5100-1	NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 4021
ITEM: KU BD COMM DOWN/RETURN LINK MODE 2

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[3 /1R] [P] [P] [P] [D]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE [X]

REMARKS:

ANALYSIS ONLY COVERED COMM FUNCTION. WHEN INCLUDING BOTH RADAR AND COMM FUNCTIONS CRITICALITY IS IN AGREEMENT. RADAR FUNCTION COVERED UNDER SEPARATE FMEA, 7000 SERIES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
ASSESSMENT ID: COMTRK-4021A
NASA FMEA #: 05-2R-5100-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 4021
ITEM: KU BD COMM DOWN/RETURN LINK MODE 2

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

CRITICALITIES IN AGREEMENT. BOOM STOW WOULD RESULT IN LOSS OF
KU-BAND FUNCTION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-4022A
 NASA FMEA #: 05-2R-5100-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4022
 ITEM: KU BD COMM DOWN/RETURN LINK MODE 2 CHANNEL 1

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

CRITICALITIES IN AGREEMENT. BOOM STOW WOULD RESULT IN LOSS OF KU-BAND FUNCTION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-4022
 NASA FMEA #: 05-2R-5100-1

NASA DATA: []
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4022
 ITEM: KU BD COMM DOWN/RETURN LINK MODE 2 CHANNEL 1

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[3 /1R] [P] [P] [P] [D]
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE [X]

REMARKS:

ANALYSIS ONLY COVERED COMM FUNCTION. WHEN INCLUDING BOTH RADAR AND COMM FUNCTIONS CRITICALITY IS IN AGREEMENT. RADAR FUNCTION COVERED UNDER SEPARATE FMEA, 7000 SERIES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-4023
 NASA FMEA #: 05-2R-5100-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4023
 ITEM: KU BD COMM DOWN/RETURN LINK MODE 2 CHANNEL 2

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[3 /1R] [P] [P] [P] [D]
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE [X]

REMARKS:
 ANALYSIS ONLY COVERED COMM FUNCTION. WHEN INCLUDING BOTH RADAR AND COMM FUNCTIONS CRITICALITY IS IN AGREEMENT. RADAR FUNCTION COVERED UNDER SEPARATE FMEA, 7000 SERIES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-4023A
 NASA FMEA #: 05-2R-5100-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4023
 ITEM: KU BD COMM DOWN/RETURN LINK MODE 2 CHANNEL 2

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:
 CRITICALITIES IN AGREEMENT. BOOM STOW WOULD RESULT IN LOSS OF
 KU-BAND FUNCTION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88 NASA DATA:
 ASSESSMENT ID: COMTRK-4024A BASELINE []
 NASA FMEA #: 05-2R-5100-2 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4024
 ITEM: KU BD COMM DOWN/RETURN LINK MODE 2 CHANNEL 3

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:
 CRITICALITIES IN AGREEMENT. BOOM STOW WOULD RESULT IN LOSS OF
 KU-BAND FUNCTION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-4024
 NASA FMEA #: 05-2R-5100-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4024
 ITEM: KU BD COMM DOWN/RETURN LINK MODE 2 CHANNEL 3

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[3 /1R] [P] [P] [P] [D]
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE [X]

REMARKS:

ANALYSIS ONLY COVERED COMM FUNCTION. WHEN INCLUDING BOTH RADAR AND COMM FUNCTIONS CRITICALITY IS IN AGREEMENT. RADAR FUNCTION COVERED UNDER SEPARATE FMEA, 7000 SERIES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-4025
 NASA FMEA #: 05-2R-5112-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4025
 ITEM: KU A PWR SW (REF NAVAIDS RR)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /2]	[]	[]	[]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[3 /1R] [] [] [] [D]
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE [X]

REMARKS:

ANALYSIS ONLY COVERED COMM FUNCTION. WHEN INCLUDING BOTH RADAR
 AND COMM FUNCTIONS CRITICALITY IS IN AGREEMENT. RADAR FUNCTION
 COVERED UNDER SEPARATE FMEA, 7000 SERIES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-4026
 NASA FMEA #: 05-2R-5112-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4026
 ITEM: KU A PWR SW (REF NAVAIDS RR)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[3 /1R] [P] [P] [P] [D]
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE [X]

REMARKS:

ANALYSIS ONLY COVERED COMM FUNCTION. WHEN INCLUDING BOTH RADAR AND COMM FUNCTIONS CRITICALITY IS IN AGREEMENT. RADAR FUNCTION COVERED UNDER SEPARATE FMEA, 7000 SERIES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-4027
 NASA FMEA #: 05-2R-5113-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4027
 ITEM: KU A MODE SW (REF NAV AIDS RR)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 / 2]	[]	[]	[]	[X] *
IOA	[3 / 1R]	[P]	[P]	[P]	[]
COMPARE	[N / N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[3 / 1R] [P] [P] [P] [D]
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE [X]

REMARKS:

ANALYSIS ONLY COVERED COMM FUNCTION. WHEN INCLUDING BOTH RADAR AND COMM FUNCTIONS CRITICALITY IS IN AGREEMENT. RADAR FUNCTION COVERED UNDER SEPARATE FMEA, 7000 SERIES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-4028
 NASA FMEA #: 05-2R-5113-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4028
 ITEM: KU A MODE SW (REF NAVAIDS RR)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[3 /1R] [P] [P] [P] [D]
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE [X]

REMARKS:

ANALYSIS ONLY COVERED COMM FUNCTION. WHEN INCLUDING BOTH RADAR AND COMM FUNCTIONS CRITICALITY IS IN AGREEMENT. RADAR FUNCTION COVERED UNDER SEPARATE FMEA, 7000 SERIES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-4029
 NASA FMEA #: 05-2R-5411-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4029
 ITEM: KU BD SIG PROC HDR SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:
 AGREE.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-4030
 NASA FMEA #: 05-2R-5411-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4030
 ITEM: KU BD SIG PROC HDR SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:
 AGREE.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-4031
 NASA FMEA #: 05-2R-5412-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4031
 ITEM: KU BD SIG PROC LDR SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[P]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:
 AGREE.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-4032
 NASA FMEA #: 05-2R-5412-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4032
 ITEM: KU BD SIG PROC LDR SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:
 AGREE.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
ASSESSMENT ID: COMTRK-4033
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 4033
ITEM: NSP GCIL UPLINK DATA SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /1R] [P] [P] [P] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA KUCOMM FMEA. FAILURE TO SW COULD RESULT IN LOSS OF KUCOMM CAPABILITY. LOSS OF ALL CAPABILITY TO PROVIDE STATE VECTOR UPDATE COULD RESULT IN LOSS OF VEHICLE AND CREW. MIGHT ADD FMEA FOR COMPLETENESS.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
ASSESSMENT ID: COMTRK-4034
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 4034
ITEM: NSP GCIL UPLINK DATA SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /1R] [P] [P] [P] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA KUCOMM FMEA. FAILURE TO SW COULD RESULT IN LOSS OF KUCOMM CAPABILITY. LOSS OF ALL CAPABILITY TO PROVIDE STATE VECTOR UPDATE COULD RESULT IN LOSS OF VEHICLE AND CREW. MIGHT ADD FMEA FOR COMPLETENESS.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88 NASA DATA:
ASSESSMENT ID: COMTRK-4035 BASELINE []
NASA FMEA #: 05-2R-5107-1 NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 4035
ITEM: KU BD A ANT STEERING SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 / 2]	[]	[]	[]	[X] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[3 / 3] [] [] [] [D]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE [X]

REMARKS:

FAILURE TO SWITCH WOULD PREVENT SELECTION OF OPTIMUM ANTENNA
STEERING MODE. NOT CRITICAL FUNCTION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-4035A
 NASA FMEA #: 05-2R-5107-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4035
 ITEM: KU BD A ANT STEERING SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 / 2]	[]	[]	[]	[X] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[3 / 3] [] [] [] [D]
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE [X]

REMARKS:

FAILURE TO SWITCH WOULD PREVENT SELECTION OF OPTIMUM ANTENNA
 STEERING MODE. NOT CRITICAL FUNCTION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-4036
 NASA FMEA #: 05-2R-5107-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4036
 ITEM: KU BD A ANT STEERING SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 / 2]	[]	[]	[]	[X] *
IOA	[3 / 1R]	[P]	[P]	[P]	[]
COMPARE	[N / N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[3 / 1R] [P] [P] [P] [D]
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE [X]

REMARKS:

OPEN/SHORT FAILURE COULD RESULT IN LOSS OF KU COMM. ANALYSIS ONLY COVERED COMM FUNCTION. WHEN INCLUDING BOTH RADAR AND COMM FUNCTIONS CRITICALITY IS IN AGREEMENT. RADAR FUNCTION COVERED UNDER SEPARATE FMEA, 7000 SERIES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-4037
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4037
 ITEM: KU BD ANT DEPLOY/STOW SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /1R] [P] [P] [P] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NO COUNTERPART NASA KUCOMM FMEA. SHOULD BE COVERED IN NASA FMEA.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
ASSESSMENT ID: COMTRK-4038
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 4038
ITEM: KU BD ANT DEPLOY/STOW SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /1R] [P] [P] [P] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA KUCOMM FMEA. SHOULD BE COVERED IN NASA FMEA.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-4039
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4039
 ITEM: KU BD ANT DIRECT STOW SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /1R] [P] [P] [P] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NO COUNTERPART NASA KUCOMM FMEA. SHOULD BE COVERED IN NASA FMEA.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
ASSESSMENT ID: COMTRK-4040
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 4040
ITEM: KU BD ANT DIRECT STOW SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /1R] [P] [P] [P] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA KUCOMM FMEA. SHOULD BE COVERED IN NASA FMEA.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
ASSESSMENT ID: COMTRK-4041
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 4041
ITEM: KU BD ANT A PYRO ARM/SAFE SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[1 / 1]	[]	[]	[]	[X]
COMPARE	[N / N]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[1 / 1] [] [] [] [A]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA KUCOMM FMEA. SHOULD BE COVERED IN NASA FMEA.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-4042
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4042
 ITEM: KU BD ANT A PYRO ARM/SAFE SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[1 / 1]	[]	[]	[]	[X]
COMPARE	[N / N]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[1 / 1] [] [] [] [A]
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NO COUNTERPART NASA KUCOMM FMEA. SHOULD BE COVERED IN NASA FMEA.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-4043
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4043
 ITEM: KU BD ANT A PYRO JETT/SAFE SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[1 / 1]	[]	[]	[]	[X]
COMPARE	[N / N]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[1 / 1] [] [] [] [A]
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NO COUNTERPART NASA KUCOMM FMEA. SHOULD BE COVERED IN NASA FMEA.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-4044
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4044
 ITEM: KU BD ANT A PYRO JETT/SAFE SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[1 / 1]	[]	[]	[]	[X]
COMPARE	[N / N]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[1 / 1] [] [] [] [A]
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NO COUNTERPART NASA KUCOMM FMEA. SHOULD BE COVERED IN NASA FMEA.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
ASSESSMENT ID: COMTRK-4045
NASA FMEA #: 05-6PH-24825-3

NASA DATA:
BASELINE [X]
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 4045
ITEM: KU BD CONTROL SW (CMD/PNL)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

FAILURE TO TRANSFER. NOT CRITICAL FUNCTION. OPEN CIRCUIT CAUSES LOSS OF KU-BAND SYSTEM FUNCTION AND THEREFORE CRITICAL AS INDICATED.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-4046
 NASA FMEA #: 05-6PH-24825-1

NASA DATA:
 BASELINE [X]
 NEW []

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4046
 ITEM: KU BD CONTROL SW (CMD/PNL)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:
 CRITICALITIES IN AGREEMENT. SHORT COULD CAUSE LOSS OF GCIL
 FUNCTION AND CONTROL OF KU-BAND SYSTEM.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-4046A
 NASA FMEA #: 05-6PH-24825-2

NASA DATA:
 BASELINE [X]
 NEW []

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4046
 ITEM: KU BD CONTROL SW (CMD/PNL)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

CRITICALITIES IN AGREEMENT. SHORT COULD CAUSE LOSS OF GCIL
 FUNCTION AND CONTROL OF KU-BAND SYSTEM.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-4047
 NASA FMEA #: 05-2R-5415

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4047
 ITEM: TEXT AND GRAPHICS HARDCOPIER

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

CRITICALITIES IN AGREEMENT. NASA FAILURE MODES COVER ALL TEXT AND GRAPHICS SYSTEM LEVEL AND SWITCH LEVEL FAILURES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-4048
 NASA FMEA #: 05-2R-5415

NASA DATA: _____
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4048
 ITEM: TEXT AND GRAPHICS HARDCOPIER

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

CRITICALITIES IN AGREEMENT. NASA FAILURE MODES COVER ALL TEXT AND GRAPHICS SYSTEM LEVEL AND SWITCH LEVEL FAILURES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
ASSESSMENT ID: COMTRK-4049
NASA FMEA #: 05-2R-5415

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 4049
ITEM: TEXT AND GRAPHICS HARDCOPIER

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

CRITICALITIES IN AGREEMENT. NASA FAILURE MODES COVER ALL TEXT AND GRAPHICS SYSTEM LEVEL AND SWITCH LEVEL FAILURES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-4050
 NASA FMEA #: 05-2R-5415

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4050
 ITEM: TEXT AND GRAPHICS MASTER PWR SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

CRITICALITIES IN AGREEMENT. NASA FAILURE MODES COVER ALL TEXT AND GRAPHICS SYSTEM LEVEL AND SWITCH LEVEL FAILURES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-4051
 NASA FMEA #: 05-2R-5415

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4051
 ITEM: TEXT AND GRAPHICS MASTER PWR SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 CRITICALITIES IN AGREEMENT. NASA FAILURE MODES COVER ALL TEXT
 AND GRAPHICS SYSTEM LEVEL AND SWITCH LEVEL FAILURES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-4052
 NASA FMEA #: 05-2R-5415

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4052
 ITEM: TEXT AND GRAPHICS PAPER ADVANCE SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

CRITICALITIES IN AGREEMENT. NASA FAILURE MODES COVER ALL TEXT AND GRAPHICS SYSTEM LEVEL AND SWITCH LEVEL FAILURES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
ASSESSMENT ID: COMTRK-4053
NASA FMEA #: 05-2R-5415

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 4053
ITEM: TEXT AND GRAPHICS PAPER ADVANCE SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:
CRITICALITIES IN AGREEMENT. NASA FAILURE MODES COVER ALL TEXT
AND GRAPHICS SYSTEM LEVEL AND SWITCH LEVEL FAILURES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-4054
 NASA FMEA #: 05-2R-5415

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4054
 ITEM: TEXT AND GRAPHICS LAMP TEST SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

CRITICALITIES IN AGREEMENT. NASA FAILURE MODES COVER ALL TEXT AND GRAPHICS SYSTEM LEVEL AND SWITCH LEVEL FAILURES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-4055
 NASA FMEA #: 05-2R-5415

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4055
 ITEM: TEXT AND GRAPHICS LAMP TEST SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY		REDUNDANCY SCREENS			CIL ITEM
	FLIGHT HDW/FUNC		A	B	C	
NASA	[3 / 3]		[]	[]	[]	[] *
IOA	[3 / 3]		[]	[]	[]	[]
COMPARE	[/]		[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:
 CRITICALITIES IN AGREEMENT. NASA FAILURE MODES COVER ALL TEXT
 AND GRAPHICS SYSTEM LEVEL AND SWITCH LEVEL FAILURES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-4056
 NASA FMEA #: 05-2R-5415

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4056
 ITEM: TEXT AND GRAPHICS BRIGHTNESS CONTROL

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

CRITICALITIES IN AGREEMENT. NASA FAILURE MODES COVER ALL TEXT AND GRAPHICS SYSTEM LEVEL AND SWITCH LEVEL FAILURES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-4057
 NASA FMEA #: 05-2R-5415

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4057
 ITEM: TEXT AND GRAPHICS BRIGHTNESS CONTROL

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
		NASA [3 /3]	[]	[]	
IOA [3 /3]	[]	[]	[]	[]	
COMPARE [/]	[]	[]	[]	[]	

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

CRITICALITIES IN AGREEMENT. NASA FAILURE MODES COVER ALL TEXT AND GRAPHICS SYSTEM LEVEL AND SWITCH LEVEL FAILURES.

**APPENDIX C
ASSESSMENT WORKSHEET**

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-4058
 NASA FMEA #: 05-2R-5415

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4058
 ITEM: TEXT AND GRAPHICS GAMMA CONTROL

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
		NASA [3 / 3]	[]	[]	
IOA [3 / 3]	[]	[]	[]	[]	
COMPARE [/]	[]	[]	[]	[]	

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:
 CRITICALITIES IN AGREEMENT. NASA FAILURE MODES COVER ALL TEXT AND GRAPHICS SYSTEM LEVEL AND SWITCH LEVEL FAILURES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88 NASA DATA:
 ASSESSMENT ID: COMTRK-4059 BASELINE []
 NASA FMEA #: 05-2R-5415 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4059
 ITEM: TEXT AND GRAPHICS GAMMA CONTROL

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

CRITICALITIES IN AGREEMENT. NASA FAILURE MODES COVER ALL TEXT
 AND GRAPHICS SYSTEM LEVEL AND SWITCH LEVEL FAILURES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-4060
 NASA FMEA #: 05-2R-5415

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 4060
 ITEM: TEXT AND GRAPHICS CONTRAST CONTROL

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

CRITICALITIES IN AGREEMENT. NASA FAILURE MODES COVER ALL TEXT AND GRAPHICS SYSTEM LEVEL AND SWITCH LEVEL FAILURES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
ASSESSMENT ID: COMTRK-4061
NASA FMEA #: 05-2R-5415

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 4061
ITEM: TEXT AND GRAPHICS CONTRAST CONTROL

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

CRITICALITIES IN AGREEMENT. NASA FAILURE MODES COVER ALL TEXT
AND GRAPHICS SYSTEM LEVEL AND SWITCH LEVEL FAILURES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/28/88
 ASSESSMENT ID: COMTRK-4501
 NASA FMEA #: 05-6PR-54050-1

NASA DATA: []
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 4501
 ITEM: CIRCUIT BREAKER, 5A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 / 2]	[P]	[P]	[P]	[X] *
IOA	[3 / 1R]	[P]	[P]	[P]	[X]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NO DISAGREEMENT. IOA ASSESSMENT AGREES WITH 2/2 BUT ANALYSIS WAS EXTENDED TO CONSIDER ABSOLUTE WORST CASE OF LOSING STATE VECTOR UPDATES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/28/88
 ASSESSMENT ID: COMTRK-4502
 NASA FMEA #: 05-6PR-54050-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 4502
 ITEM: CIRCUIT BREAKER, 5A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/28/88
 ASSESSMENT ID: COMTRK-4503
 NASA FMEA #: 05-6PR-51050-1
 NASA DATA:
 BASELINE []
 NEW [X]
 SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 4503
 ITEM: CIRCUIT BREAKER, 15A
 LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)
 [/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)
 ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/28/88
 ASSESSMENT ID: COMTRK-4504
 NASA FMEA #: 05-6PR-51050-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 4504
 ITEM: CIRCUIT BREAKER, 15A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/28/88
 ASSESSMENT ID: COMTRK-4505
 NASA FMEA #: 05-6PR-53024-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 4505
 ITEM: CIRCUIT BREAKER, 7.5A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 / 2]	[]	[]	[]	[X] *
IOA	[2 / 2]	[]	[]	[]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/28/88
 ASSESSMENT ID: COMTRK-4506
 NASA FMEA #: 05-6PR-53024-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 4506
 ITEM: CIRCUIT BREAKER, 7.5A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /3] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

ITEM DOES NOT APPEAR ON CIL, ALTHOUGH RATED AS 1R/3. NO REDUNDANCY FOR CB24 APPLYING HEATER POWER. A FAILED CLOSED CONDITION WOULD REPRESENT THE NORMAL ON-ORBIT CONDITION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/28/88
 ASSESSMENT ID: COMTRK-4507
 NASA FMEA #: 05-6PR-53025-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 4507
 ITEM: CIRCUIT BREAKER, 3A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/28/88	NASA DATA:
ASSESSMENT ID: COMTRK-4508	BASELINE []
NASA FMEA #: 05-6PR-51053-1	NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
MDAC ID: 4508
ITEM: RPC, 10A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY	SCREENS	CIL ITEM	
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /2]	[]	[]	[]	[X]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

NO DISAGREEMENT. ONE ANALYSIS EXTENDED FARTHER.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/28/88
 ASSESSMENT ID: COMTRK-4509
 NASA FMEA #: 05-6PR-51053-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 4509
 ITEM: RPC, 10A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/28/88
 ASSESSMENT ID: COMTRK-4510
 NASA FMEA #: 05-6PR-51051-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 4510
 ITEM: FUSE, 3A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 / 2]	[P]	[P]	[P]	[X] *
IOA	[3 / 2R]	[P]	[P]	[P]	[X]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

NO DIFFERENCES. IOA ASSESSMENT AGREES WITH 2/2 BUT ANALYSIS WAS EXTENDED TO CONSIDER ABSOLUTE WORST CASE OF LOSING STATE VECTOR UPDATES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/28/88
 ASSESSMENT ID: COMTRK-4511
 NASA FMEA #: 05-6PR-51052-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 4511
 ITEM: FUSE, 3A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[3 /2R]	[P]	[F]	[P]	[X]
COMPARE	[N /N]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:
 NO DISAGREEMENT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/28/88
 ASSESSMENT ID: COMTRK-4512
 NASA FMEA #: 05-6PR-53055-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 4512
 ITEM: FUSE, 3A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /2]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

NO DISAGREEMENT WITH THE MORE CRITICAL ANALYSIS.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/28/88
 ASSESSMENT ID: COMTRK-4513
 NASA FMEA #: 05-6PR-53067-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 4513
 ITEM: FUSE, 3A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 / 2]	[]	[]	[]	[X] *
IOA	[2 / 2]	[]	[]	[]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88
 ASSESSMENT ID: COMTRK-4514
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 4514
 ITEM: CIRCUIT BREAKER, 3A

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[F]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [F] [P] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO CORRESPONDING FMEA IN FMEA/CIL PACKET.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88
 ASSESSMENT ID: COMTRK-4515
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 4515
 ITEM: CIRCUIT BREAKER, 3A (PYRO JETT SYS A/B)

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /3] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO CORRESPONDING FMEA IN FMEA/CIL PACKET.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/28/88
 ASSESSMENT ID: COMTRK-4516
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 4516
 ITEM: CIRCUIT BREAKER, 3A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[F]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

N/A. SEE KU-BAND JETTISON SYSTEM.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/28/88
 ASSESSMENT ID: COMTRK-4517
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 4517
 ITEM: CIRCUIT BREAKER, 3A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

N/A. SEE KU-BAND JETTISON SYSTEM.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/28/88
 ASSESSMENT ID: COMTRK-4518
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 4518
 ITEM: CIRCUIT BREAKER, 3A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

N/A. SEE KU-BAND JETTISON SYSTEM.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/28/88
 ASSESSMENT ID: COMTRK-4519
 NASA FMEA #:

NASA DATA: []
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 4519
 ITEM: CIRCUIT BREAKER, 3A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

N/A. SEE KU-BAND JETTISON SYSTEM.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/28/88
 ASSESSMENT ID: COMTRK-4520
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 4520
 ITEM: CIRCUIT BREAKER, 3A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

N/A. SEE KU-BAND JETTISON SYSTEM.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/28/88
 ASSESSMENT ID: COMTRK-4521
 NASA FMEA #:

NASA DATA: _____
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 4521
 ITEM: CIRCUIT BREAKER, 3A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

N/A. SEE KU-BAND JETTISON SYSTEM.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/28/88
 ASSESSMENT ID: COMTRK-4522
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 4522
 ITEM: RPC, 5A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

N/A. SEE KU-BAND JETTISON SYSTEM.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/28/88
 ASSESSMENT ID: COMTRK-4523
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 4523
 ITEM: RPC, 5A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

N/A. SEE KU-BAND JETTISON SYSTEM.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/28/88
 ASSESSMENT ID: COMTRK-4524
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 4524
 ITEM: RPC, 5A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 N/A. SEE KU-BAND JETTISON SYSTEM.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/28/88
 ASSESSMENT ID: COMTRK-4525
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 4525
 ITEM: RPC, 5A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

N/A. SEE KU-BAND JETTISON SYSTEM.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/28/88
 ASSESSMENT ID: COMTRK-4526
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 4526
 ITEM: FUSE, 1A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

N/A. SEE KU-BAND JETTISON SYSTEM.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/28/88
 ASSESSMENT ID: COMTRK-4527
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 4527
 ITEM: FUSE, 1A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

N/A. SEE KU-BAND JETTISON SYSTEM.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/28/88
ASSESSMENT ID: COMTRK-4528
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
MDAC ID: 4528
ITEM: FUSE, 1A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

N/A. SEE KU-BAND JETTISON SYSTEM.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/28/88
 ASSESSMENT ID: COMTRK-4529
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 4529
 ITEM: FUSE, 1A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

N/A. SEE KU-BAND JETTISON SYSTEM.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/28/88
 ASSESSMENT ID: COMTRK-4530
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 4530
 ITEM: FUSE, 1A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

N/A. SEE KU-BAND JETTISON SYSTEM.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/28/88
 ASSESSMENT ID: COMTRK-4531
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 4531
 ITEM: FUSE, 1A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY			REDUNDANCY SCREENS			CIL ITEM
	FLIGHT HDW/FUNC	A	B	C			
NASA	[/]	[]	[]	[]	[]	[]	*
IOA	[3 / 3]	[]	[]	[]	[]	[]	
COMPARE	[N / N]	[]	[]	[]	[]	[]	

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

N/A. SEE KU-BAND JETTISON SYSTEM.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/28/88
 ASSESSMENT ID: COMTRK-4532
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 4532
 ITEM: FUSE, 1A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

N/A. SEE KU-BAND JETTISON SYSTEM.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/28/88
 ASSESSMENT ID: COMTRK-4533
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 4533
 ITEM: FUSE, 1A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

N/A. SEE KU-BAND JETTISON SYSTEM.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/28/88
 ASSESSMENT ID: COMTRK-4534
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 4534
 ITEM: FUSE, 1A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 N/A. SEE KU-BAND JETTISON SYSTEM.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/28/88
 ASSESSMENT ID: COMTRK-4535
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 4535
 ITEM: FUSE, 1A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

N/A. SEE KU-BAND JETTISON SYSTEM.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/28/88
 ASSESSMENT ID: COMTRK-4536
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 4536
 ITEM: FUSE, 1A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

N/A. SEE KU-BAND JETTISON SYSTEM.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/28/88
 ASSESSMENT ID: COMTRK-4537
 NASA FMEA #:

NASA DATA: _____
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 4537
 ITEM: FUSE, 1A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 2R]	[P]	[F]	[P]	[]
COMPARE	[N / N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

N/A. SEE KU-BAND JETTISON SYSTEM.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/28/88
 ASSESSMENT ID: COMTRK-4538
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 4538
 ITEM: FUSE, 1A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[]*
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

N/A. SEE KU-BAND JETTISON SYSTEM.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/28/88
 ASSESSMENT ID: COMTRK-4539
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 4539
 ITEM: FUSE, 1A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

N/A. SEE KU-BAND JETTISON SYSTEM.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/28/88
 ASSESSMENT ID: COMTRK-4540
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 4540
 ITEM: FUSE, 1A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

N/A. SEE KU-BAND JETTISON SYSTEM.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/28/88
 ASSESSMENT ID: COMTRK-4541
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 4541
 ITEM: FUSE, 1A

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

N/A. SEE KU-BAND JETTISON SYSTEM.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/28/88
ASSESSMENT ID: COMTRK-4542
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
MDAC ID: 4542
ITEM: RESISTOR, 1.2K

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

N/A. SEE KU-BAND JETTISON SYSTEM.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/28/88
ASSESSMENT ID: COMTRK-4543
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
MDAC ID: 4543
ITEM: RESISTOR, 1.2K

LEAD ANALYST: E.S. DALEY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

N/A. SEE KU-BAND JETTISON SYSTEM.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/01/88
 ASSESSMENT ID: COMTRK-5002
 NASA FMEA #: 05-2B-23401-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 5002
 ITEM: UHF AIRLOCK ANTENNA

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[P]	[P]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NASA FMEA UPGRADES AIRLOCK ANTENNA TO 3/2R BECAUSE OF PRE-EVA CHECKOUT OF EVA COMM BETWEEN ORBITER AND EVA CREWMEMBERS. AGREE WITH NASA FMEA.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/15/88
ASSESSMENT ID: COMTRK-5003
NASA FMEA #: 05-2B-22100-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM & TRACK
MDAC ID: 5003
ITEM: UHF EVA/ATC TRANCEIVER

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 / 2]	[]	[]	[]	[X] *
IOA	[2 / 2]	[]	[]	[]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)
[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)
ADEQUATE [X]
INADEQUATE []

REMARKS:
NO DIFFERENCES. (THE ASSOCIATED IOA ANALYSIS DEALS ONLY WITH EVA
OPS - FLIGHT OPS COVERED IN IOA 5004. THE SINGLE NASA FMEA
COVERS BOTH EVA AND FLIGHT OPS.)

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/15/88
 ASSESSMENT ID: COMTRK-5004
 NASA FMEA #: 05-2B-22100-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 5004
 ITEM: UHF EVA/ATC TRANSCEIVER

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

NASA FMEA ASSIGNS CRIT 2/1R FOR FLIGHT OPS BECAUSE OF POSSIBLE KU-BAND SIG PROCESSOR FAILURE THAT COULD DISABLE BOTH NSP's, LEAVING UHF AS ONLY PATH FOR STATE VECTOR UPDATE. AGREE WITH NASA CRIT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/15/88	NASA DATA:
ASSESSMENT ID: COMTRK-5004A	BASELINE []
NASA FMEA #: 05-2B-22100-2	NEW [X]

SUBSYSTEM: COMM & TRACK
MDAC ID: 5004
ITEM: UHF EVA/ATC TRANSCEIVER

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/]	[]	[]	[]	[]
				(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE	[X]
INADEQUATE	[]

REMARKS:

NASA FMEA ASSIGNS CRIT 2/1R FOR FLIGHT OPS BECAUSE OF POSSIBLE KU-BAND SIG PROCESSOR FAILURE THAT COULD DISABLE BOTH NSP's, LEAVING UHF AS ONLY PATH FOR STATE VECTOR UPDATE. AGREE WITH NASA CRIT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/15/88
 ASSESSMENT ID: COMTRK-5005
 NASA FMEA #: 05-2B-22100-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 5005
 ITEM: UHF EVA/ATC TRANSCEIVER

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 / 2]	[]	[]	[]	[X] *
IOA	[2 / 2]	[]	[]	[]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/15/88
 ASSESSMENT ID: COMTRK-5006
 NASA FMEA #: 05-2B-22100-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 5006
 ITEM: UHF EVA/ATC TRANSCEIVER

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

NASA FMEA ASSIGNS 2/1R BECAUSE OF POTENTIAL KU-BAND SIG PROCESSOR FAILURE THAT COULD DISABLE BOTH NSP's, LEAVING ONLY UHF FOR STATE VECTOR UPDATES. AGREE WITH NASA FMEA.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/15/88
 ASSESSMENT ID: COMTRK-5006A
 NASA FMEA #: 05-2B-22100-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 5006
 ITEM: UHF EVA/ATC TRANSCEIVER

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

NASA FMEA ASSIGNS 2/1R BECAUSE OF POTENTIAL KU-BAND SIG PROCESSOR FAILURE THAT COULD DISABLE BOTH NSP's, LEAVING ONLY UHF FOR STATE VECTOR UPDATES. AGREE WITH NASA FMEA.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/15/88 NASA DATA:
ASSESSMENT ID: COMTRK-5007 BASELINE []
NASA FMEA #: 05-2B-22104-1 NEW [X]

SUBSYSTEM: COMM & TRACK
MDAC ID: 5007
ITEM: UHF SIMPLEX PA PWR SWITCH

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

NASA FMEA ASSIGNS CRIT 2/1R BECAUSE OF POSSIBLE KU-BAND SIG
PROCESSOR FAILURE THAT COULD DISABLE BOTH NSP's, LEAVING ONLY UHF
FOR STATE VECTOR UPDATE. AGREE WITH NASA FMEA.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/01/88
 ASSESSMENT ID: COMTRK-5008
 NASA FMEA #: 05-2B-22104-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 5008
 ITEM: UHF SIMPLEX PWR SWITCH

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NO DIFFERENCES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/15/88
ASSESSMENT ID: COMTRK-5009
NASA FMEA #: 05-2B-22104-3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM & TRACK
MDAC ID: 5009
ITEM: UHF SIMPLEX POWER SWITCH

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

NASA FMEA ASSIGNS CRIT 2/1R BECAUSE OF POSSIBLE KU-BAND SIG
PROCESSOR FAILURE THAT COULD CAUSE LOSS OF BOTH NSP's, LEAVING
ONLY UHF FOR STATE VECTOR UPDATE. AGREE WITH NASA FMEA.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/01/88
 ASSESSMENT ID: COMTRK-5010
 NASA FMEA #: 05-2B-22104-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 5010
 ITEM: UHF SIMPLEX POWER SWITCH

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /3]	[]	[]	[]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[3 /1R] [P] [F] [P] [A]
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

CONTACT-TO-CONTACT BRIDGING SHORT HOLDING A FAILED PA IN THE UHF
 RF TRANSMIT CIRCUIT COULD PREVENT UHF USE FOR ATC/LANDING OPS.
 FAILS SCREEN B BECAUSE FAILURE WOULD NOT BE DETECTABLE.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/01/88 NASA DATA:
ASSESSMENT ID: COMTRK-5011 BASELINE []
NASA FMEA #: NONE NEW [X]

SUBSYSTEM: COMM & TRACK
MDAC ID: 5011
ITEM: UHF SIMPLEX POWER SWITCH

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA 5011 PERTAINS TO THE SWITCH CONTACTS GIVING TELEMETRY INDICATION. SOME SWITCH FAILURES COULD KILL TELEMETRY MEASUREMENT, OTHERS COULD GIVE FALSE SIGNAL. NOT CRITICAL, BUT FAILURE MODE SHOULD BE COVERED FOR COMPLETENESS.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/15/88
 ASSESSMENT ID: COMTRK-5012
 NASA FMEA #: 05-2B-22103-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 5012
 ITEM: UHF XMIT FREQUENCY SELECT SWITCH

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[]	[]	[]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [P] [P] [P] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NASA FMEA ASSIGNS CRIT 3/1R FOR AIR-TO-GROUND FUNCTION AND 2/2 FOR EVA. AGREE WITH BOTH (SEE IOA COMTRK 5013 FOR IOA EVA CASE). SINGLE NASA FMEA, AND NO SCREEN ENTRIES BECAUSE OF NASA DUAL CRIT. NASA FMEA DOES NOT ASSIGN SCREEN RATINGS.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/15/88 NASA DATA:
ASSESSMENT ID: COMTRK-5013 BASELINE []
NASA FMEA #: 05-2B-22103-2 NEW [X]

SUBSYSTEM: COMM & TRACK
MDAC ID: 5013
ITEM: UHF XMIT FREQUENCY SELECT SWITCH

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 / 2]	[]	[]	[X]	[X] *
IOA	[2 / 2]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

NASA FMEA ASSIGNS CRIT 2/2 FOR EVA AND 3/1R (BUT NO SCREENS) FOR AIR-TO-GROUND FUNCTION. AGREE WITH BOTH (SEE IOA COMTRK-5012 FOR IOA AIR-TO-GROUND CASE), EXCEPT SCREENS SHOULD COVERED IN FMEA DISCUSSION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/15/88	NASA DATA:
ASSESSMENT ID: COMTRK-5014	BASELINE []
NASA FMEA #: 05-2B-22103-3	NEW [X]

SUBSYSTEM: COMM & TRACK
MDAC ID: 5014
ITEM: UHF XMIT FREQUENCY SELECT SWITCH

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC		REDUNDANCY SCREENS			
		A	B	C	CIL ITEM	
NASA	[2 / 2]	[]	[]	[]	[X] *	
IOA	[3 / 3]	[]	[]	[]	[]	
COMPARE	[N / N]	[]	[]	[]	[N]	

RECOMMENDATIONS: (If different from NASA)

[/]	[]	[]	[]	[] (ADD/DELETE)
-------------	--------	--------	--------	------------------------

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE	[X]
INADEQUATE	[]

REMARKS:

IF SHORT CAUSED BOTH TRANSMITTERS TO OPERATE ORBITER COULD NOT RECEIVED ON 296.8 AND 259.7 MHZ, SO WOULD LOSE CAPABILITY FOR FULL EVA OPS. AGREE WITH NASA FMEA.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/15/88
 ASSESSMENT ID: COMTRK-5501
 NASA FMEA #: 05-6PB-22107-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 5501
 ITEM: CIRCUIT BREAKER, UHF, MNA

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

NASA FMEA ASSIGNS CRIT 2/1R FOR AIR-TO-GROUND FUNCTION BECAUSE A POSSIBLE KU-BAND SIG PROCESSOR FAILURE COULD DISABLE BOTH NSP's, LEAVING ONLY UHF FOR STATE VECTOR UPDATES. AGREE WITH NASA FMEA.

**APPENDIX C
ASSESSMENT WORKSHEET**

ASSESSMENT DATE: 1/15/88
 ASSESSMENT ID: COMTRK-5502
 NASA FMEA #: 05-6PB-22107-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM & TRACK
 MDAC ID: 5502
 ITEM: CIRCUIT BREAKER, UHF, MNC

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[P]	[P]	[X] *
IOA	[3 /2R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [F] [] [A]
 (ADD/DELETE)

*** CIL RETENTION RATIONALE:** (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

BOTH CIRCUIT BREAKERS (CB13, CB18) ARE NORMALLY CLOSED. ONE
 (CB18) COULD FAIL OPEN AND CONDITION WOULD NOT BE DETECTED IN
 FLIGHT BECAUSE OTHER (CB13) WOULD BE PROVIDING POWER TO BOTH XCVR
 AND TO PA, SO FAILS SCREEN B. IOA 5502 COVERS EVA OPS;
 IOA 5503 COVERS FLIGHT OPS VOICE COMM WITH GROUND.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE:	1/15/88	NASA DATA:
ASSESSMENT ID:	COMTRK-5503	BASELINE []
NASA FMEA #:	05-6PB-22107-2	NEW [X]

SUBSYSTEM: COMM & TRACK
MDAC ID: 5503
ITEM: CIRCUIT BREAKER, UHF, MNC

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[P]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/N]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/]	[]	[F]	[]	[A]
				(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE	[X]
INADEQUATE	[]

REMARKS:

BOTH CIRCUIT BREAKERS (CB13, CB18) ARE NORMALLY CLOSED. ONE (CB18) COULD FAIL OPEN AND CONDITION WOULD NOT BE DETECTED IN FLIGHT BECAUSE OTHER (CB13) WOULD BE PROVIDING POWER TO BOTH XCVR AND TO PA, SO FAILS SCREEN B. IOA 5502 COVERS EVA OPS; IOA 5503 COVERS FLIGHT OPS VOICE COMM WITH GROUND.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/08/88
 ASSESSMENT ID: COMTRK-6001
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 6001
 ITEM: A/G 1 & 2 CHANNEL SWITCH

LEAD ANALYST: C.G. TATOSIAN

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/08/88
 ASSESSMENT ID: COMTRK-6002
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 6002
 ITEM: A/G 1 & 2 CHANNEL SWITCH

LEAD ANALYST: C.G. TATOSIAN

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/08/88
 ASSESSMENT ID: COMTRK-6003
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 6003
 ITEM: A/G 1 & 2 CHANNEL SWITCH

LEAD ANALYST: C.G. TATOSIAN

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/08/88
 ASSESSMENT ID: COMTRK-6004
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 6004
 ITEM: A/A CHANNEL SWITCH

LEAD ANALYST: C.G. TATOSIAN

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/08/88
 ASSESSMENT ID: COMTRK-6005
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 6005
 ITEM: A/A CHANNEL SWITCH

LEAD ANALYST: C.G. TATOSIAN

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/08/88
 ASSESSMENT ID: COMTRK-6006
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 6006
 ITEM: A/A CHANNEL SWITCH

LEAD ANALYST: C.G. TATOSIAN

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/08/88
 ASSESSMENT ID: COMTRK-6007
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 6007
 ITEM: ICOM A & B SWITCH

LEAD ANALYST: C.G. TATOSIAN

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/08/88
 ASSESSMENT ID: COMTRK-6008
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 6008
 ITEM: ICOM A & B SWITCH

LEAD ANALYST: C.G. TATOSIAN

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/08/88
 ASSESSMENT ID: COMTRK-6009
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 6009
 ITEM: ICOM A & B SWITCH

LEAD ANALYST: C.G. TATOSIAN

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/08/88
 ASSESSMENT ID: COMTRK-6010
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 6010
 ITEM: TACAN ID SWITCH

LEAD ANALYST: C.G. TATOSIAN

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/08/88
 ASSESSMENT ID: COMTRK-6011
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 6011
 ITEM: TACAN ID SWITCH

LEAD ANALYST: C.G. TATOSIAN

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/08/88
 ASSESSMENT ID: COMTRK-6012
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 6012
 ITEM: TACAN ID ENABLE SWITCH

LEAD ANALYST: C.G. TATOSIAN

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/08/88
 ASSESSMENT ID: COMTRK-6013
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 6013
 ITEM: TACAN ID ENABLE SWITCH

LEAD ANALYST: C.G. TATOSIAN

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/08/88
 ASSESSMENT ID: COMTRK-6014
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 6014
 ITEM: PAGE SWITCH

LEAD ANALYST: C.G. TATOSIAN

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/08/88
 ASSESSMENT ID: COMTRK-6015
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 6015
 ITEM: PAGE SWITCH

LEAD ANALYST: C.G. TATOSIAN

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/08/88
 ASSESSMENT ID: COMTRK-6016
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 6016
 ITEM: PAGE SWITCH

LEAD ANALYST: C.G. TATOSIAN

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/08/88
 ASSESSMENT ID: COMTRK-6017
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 6017
 ITEM: MASTER VOLUME CONTROL

LEAD ANALYST: C.G. TATOSIAN

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/08/88
 ASSESSMENT ID: COMTRK-6018
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 6018
 ITEM: VOX SENSITIVITY CONTROL

LEAD ANALYST: C.G. TATOSIAN

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/08/88
 ASSESSMENT ID: COMTRK-6019
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 6019
 ITEM: BUS VOLUME CONTROL

LEAD ANALYST: C.G. TATOSIAN

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/08/88
 ASSESSMENT ID: COMTRK-6020
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 6020
 ITEM: BUS VOLUME CONTROL

LEAD ANALYST: C.G. TATOSIAN

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/08/88
 ASSESSMENT ID: COMTRK-6021
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 6021
 ITEM: AUDIO MODE SWITCH

LEAD ANALYST: C.G. TATOSIAN

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7001
 NASA FMEA #: 05-2C-22201-1

NASA DATA:
 BASELINE [X]
 NEW []

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7001
 ITEM: TACAN

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

CRITICALITIES ARE IN AGREEMENT. LOSS OF OUTPUT, FREQUENCY CHANGE AND NO DATA ARE SYNONYMOUS FAILURES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7001A
 NASA FMEA #: 05-2C-22201-3

NASA DATA:
 BASELINE [X]
 NEW []

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7001
 ITEM: TACAN

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

CRITICALITIES ARE IN AGREEMENT. LOSS OF OUTPUT, FREQUENCY CHANGE AND NO DATA ARE SYNONYMOUS FAILURES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7002
 NASA FMEA #: 05-2C-22200-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7002
 ITEM: TACAN

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

AGREE. BASED ON INABILITY TO DETECT ERRONEOUS DATA AFTER SECOND FAILURE.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7003
 NASA FMEA #: 05-2C-22200-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7003
 ITEM: TACAN

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:
 AGREE.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7004
 NASA FMEA #: 05-2C-22200-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7004
 ITEM: MODE SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

CRITICALITIES ARE IN AGREEMENT. FAILURE TO SWITCH AND JAMMED ARE NEAR SYNONYMOUS FAILURES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7005
 NASA FMEA #: 05-2C-22202-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7005
 ITEM: MODE SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

CRITICALITIES ARE IN AGREEMENT. OPEN/SHORT TO GROUND FAILURES
 RESULT IN LOSS OF DATA.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7005A
 NASA FMEA #: 05-2C-22202-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7005
 ITEM: MODE SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

CRITICALITIES ARE IN AGREEMENT. OPEN/SHORT TO GROUND FAILURES
 RESULT IN LOSS OF DATA.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7005B
 NASA FMEA #: 05-2C-22212-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7005
 ITEM: MODE SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

CRITICALITIES ARE IN AGREEMENT. OPEN/SHORT TO GROUND FAILURES
 RESULT IN LOSS OF DATA.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7005C
 NASA FMEA #: 05-2C-22212-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7005
 ITEM: MODE SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:
 CRITICALITIES ARE IN AGREEMENT. OPEN/SHORT TO GROUND FAILURES
 RESULT IN LOSS OF DATA.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7006
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7006
 ITEM: ANTENNA SELECT SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /1R] [P] [P] [P] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NO COUNTERPART NASA NAVAIDS FMEA. FAILURE TO SWITCH IS A CREDIBLE FAILURE THAT SHOULD BE CONSIDERED FOR NASA FMEAs.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7007
 NASA FMEA #: 05-2C-22214-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7007
 ITEM: ANTENNA SELECT SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /3]	[]	[]	[]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

AGREE. OPEN FAILURE REVERTS TO AUTO ANTENNA SELECTION MODE.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7007A
 NASA FMEA #: 05-2C-22214-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7007
 ITEM: ANTENNA SELECT SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

SHORT TO GROUND FAILURE MODE CRITICALITIES ARE IN AGREEMENT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7008
 NASA FMEA #: 05-2C-22204-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7008
 ITEM: CHANNEL SELECT SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (if applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:
 CRITICALITIES ARE IN AGREEMENT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7008A
 NASA FMEA #: 05-2C-22204-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7008
 ITEM: CHANNEL SELECT SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:
 CRITICALITIES ARE IN AGREEMENT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7009
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7009
 ITEM: CHANNEL SELECT SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /1R] [P] [P] [P] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NO COUNTERPART NASA NAVAIDS FMEA. FAILURE TO SWITCH IS A CREDIBLE FAILURE THAT SHOULD BE CONSIDERED FOR NASA FMEAs.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7010
 NASA FMEA #: 05-2F-22400-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7010
 ITEM: MSBLS

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:
 CRITICALITIES ARE IN AGREEMENT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7010A
 NASA FMEA #: 05-2F-22500-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7010
 ITEM: MSBLS

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:
 CRITICALITIES ARE IN AGREEMENT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7011
 NASA FMEA #: 05-2F-22500-1

NASA DATA: []
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7011
 ITEM: MSBLS RF ASSEMBLY

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:
 CRITICALITIES ARE IN AGREEMENT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
ASSESSMENT ID: COMTRK-7012
NASA FMEA #: 05-2F-22500-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 7012
ITEM: MSBLS RF ASSEMBLY

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:
CRITICALITIES ARE IN AGREEMENT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7013
 NASA FMEA #: 05-2F-22400-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7013
 ITEM: MSBLS TRACKER/DECODER

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:
 CRITICALITIES ARE IN AGREEMENT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88	NASA DATA:
ASSESSMENT ID: COMTRK-7014	BASELINE []
NASA FMEA #: 05-2F-22400-2	NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 7014
ITEM: MSBLS TRACKER/DECODER

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY	SCREENS	CIL ITEM	
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/]	[]	[]	[]	[]	[] (ADD/DELETE)
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* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE	[X]
INADEQUATE	[]

REMARKS:
AGREE.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7015
 NASA FMEA #: 05-2F-22401-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7015
 ITEM: MLS POWER SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

CRITICALITIES ARE IN AGREEMENT. FAILURE TO CLOSE AND FAILED OPEN
 RESULT IN LOSS OF DATA FAILURES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7016
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7016
 ITEM: MLS POWER SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /1R] [P] [P] [P] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

FAILURE TO REMAIN CLOSED IS A CREDIBLE FAILURE WITH SAME
 CRITICALITY AS FAIL OPEN.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7017
 NASA FMEA #: 05-6PF-22401-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7017
 ITEM: MLS POWER SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:
 CRITICALITIES ARE IN AGREEMENT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7018
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7018
 ITEM: MLS CHANNEL SELECT SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	* []
IOA	[3 /1R]	[P]	[P]	[P]	
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /1R] [P] [P] [P] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

FAILURE TO SWITCH IS A CREDIBLE FAILURE THAT SHOULD BE CONSIDERED FOR NASA FMEA.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7019
 NASA FMEA #: 05-2F-22403-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7019
 ITEM: MLS CHANNEL SELECT SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

CRITICALITIES ARE IN AGREEMENT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7020
 NASA FMEA #: 05-2D-22700-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7020
 ITEM: RADAR ALTIMETER

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:
 AGREE.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7020A
 NASA FMEA #: 05-2D-22700-3

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7020
 ITEM: RADAR ALTIMETER

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:
 AGREE.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7021
 NASA FMEA #: 05-2D-22700-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7021
 ITEM: RADAR ALTIMETER

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[1 /1]	[]	[]	[]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

AGREE; CONSIDERING THAT INFORMATION MAY NOT BE VERIFIABLE.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7021A
 NASA FMEA #: 05-2D-22700-4

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7021
 ITEM: RADAR ALTIMETER

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[1 /1]	[]	[]	[]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

AGREE; CONSIDERING THAT INFORMATION MAY NOT BE VERIFIABLE.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7022
 NASA FMEA #: 05-2D-22700-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7022
 ITEM: RADAR ALTIMETER

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[1 / 1]	[]	[]	[]	[X] *
IOA	[3 / 1R]	[P]	[P]	[P]	[]
COMPARE	[N / N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

AGREE; CONSIDERING THAT INFORMATION MAY NOT BE VERIFIABLE.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7022A
 NASA FMEA #: 05-2D-22700-4

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7022
 ITEM: RADAR ALTIMETER

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[1 /1]	[]	[]	[]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

AGREE; CONSIDERING THAT INFORMATION MAY NOT BE VERIFIABLE.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7023
 NASA FMEA #: 05-6PD-22701-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7023
 ITEM: RA PWR SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

AGREE. FAILURE TO CLOSE AND ELECTRICAL OPEN BOTH RESULT IN LOSS OF DATA.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7024
 NASA FMEA #: 05-6PD-22701-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7024
 ITEM: RA PWR SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:
 AGREE.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7025
 NASA FMEA #: 05-6PD-22701-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7025
 ITEM: RA PWR SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:
 AGREE.

C-7

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7026
 NASA FMEA #: 05-2R-5100-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7026
 ITEM: RENDEZVOUS RADAR

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /2]	[]	[]	[]	[X]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

ANALYSIS ONLY COVERED KU-BAND RADAR FUNCTION. WHEN BOTH RADAR AND COMM FUNCTIONS ARE COMBINED, CRITICALITY IS IN AGREEMENT. KUCOMM FUNCTIONS COVERED UNDER SEPARATE FMEA, 4000 SERIES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7026A
 NASA FMEA #: 05-2R-5100-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7026
 ITEM: RENDEZVOUS RADAR

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[2 /2]	[]	[]	[]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /2] [] [] [] [A]
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE [X]

REMARKS:

ANALYSIS ONLY COVERED KU-BAND RADAR FUNCTION. WHEN BOTH RADAR AND COMM FUNCTIONS ARE COMBINED, CRITICALITY IS IN AGREEMENT. KUCOMM FUNCTIONS COVERED UNDER SEPARATE FMEA, 4000 SERIES. STOWED ANTENNA CAUSES LOSS OF KUB-BAND RR FUNCTION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7027
 NASA FMEA #: 05-2R-5100-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7027
 ITEM: RENDEZVOUS RADAR

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /2]	[]	[]	[]	[X]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

ANALYSIS ONLY COVERED KU-BAND RADAR FUNCTION. WHEN BOTH RADAR AND COMM FUNCTIONS ARE COMBINED, CRITICALITY IS IN AGREEMENT. KUCOMM FUNCTIONS COVERED UNDER SEPARATE FMEA, 4000 SERIES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7028
 NASA FMEA #: 05-2R-5100-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7028
 ITEM: RR EA-1 (INTERFACE AND CONTROL UNIT) [REF KU COMM]

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /2]	[]	[]	[]	[X]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

ANALYSIS ONLY COVERED KU-BAND RADAR FUNCTION. WHEN BOTH RADAR AND COMM FUNCTIONS ARE COMBINED, CRITICALITY IS IN AGREEMENT. KUCOMM FUNCTIONS COVERED UNDER SEPARATE FMEA, 4000 SERIES.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88	NASA DATA:
ASSESSMENT ID: COMTRK-7028A	BASELINE []
NASA FMEA #: 05-2R-5100-2	NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7028
 ITEM: RR EA-1 (INTERFACE AND CONTROL UNIT) [REF KU
 COMM]

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[2 /2]	[]	[]	[]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /2]	[]	[]	[]	[A] (ADD/DELETE)
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* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE	[]
INADEQUATE	[X]

REMARKS:

ANALYSIS ONLY COVERED KU-BAND RADAR FUNCTION. WHEN BOTH RADAR
 AND COMM FUNCTIONS ARE COMBINED, CRITICALITY IS IN AGREEMENT.
 KUCOMM FUNCTIONS COVERED UNDER SEPARATE FMEA, 4000 SERIES.
 STOWED ANTENNA CAUSES LOSS OF KU-BAND RR FUNCTION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7029
 NASA FMEA #: 05-2R-5200-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7029
 ITEM: RR EA-2 (RADAR SIGNAL PROCESSOR)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 / 2]	[]	[]	[]	[X] *
IOA	[2 / 2]	[]	[]	[]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:
 CRITICALITIES IN AGREEMENT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
ASSESSMENT ID: COMTRK-7030
NASA FMEA #: 05-2R-5300-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 7030
ITEM: RR DEA (DEPLOYED ELECTRONIC ASSY) [REF KU COMM]

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /2]	[]	[]	[]	[X]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

ANALYSIS ONLY COVERED KU-BAND RADAR FUNCTION. WHEN BOTH RADAR AND COMM FUNCTIONS ARE COMBINED, CRITICALITY IS IN AGREEMENT. KUCOMM FUNCTIONS COVERED UNDER SEPARATE FMEA, 4000 SERIES. STOWED ANTENNA CAUSES LOSS OF KUB-BAND RR FUNCTION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7030A
 NASA FMEA #: 05-2R-5300-5
 NASA DATA: BASELINE []
 NEW [X]
 SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7030
 ITEM: RR DEA (DEPLOYED ELECTRONIC ASSY) [REF KU COMM]
 LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 / 2]	[]	[]	[]	[X] *
IOA	[2 / 2]	[]	[]	[]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:
 CRITICALITIES IN AGREEMENT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88 NASA DATA:
 ASSESSMENT ID: COMTRK-7031 BASELINE []
 NASA FMEA #: 05-2R-5300-1 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7031
 ITEM: RR DEA (DEPLOYED ELECTRONIC ASSY) [REF KU COMM]

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /2]	[]	[]	[]	[X]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

ANALYSIS ONLY COVERED KU-BAND RADAR FUNCTION. WHEN BOTH RADAR AND COMM FUNCTIONS ARE COMBINED, CRITICALITY IS IN AGREEMENT. KUCOMM FUNCTIONS COVERED UNDER SEPARATE FMEA, 4000 SERIES. STOWED ANTENNA CAUSES LOSS OF KUB-BAND RR FUNCTION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7032
 NASA FMEA #: 05-2R-5300-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7032
 ITEM: RR DMA (DEPLOYED MECHANICAL ASSY) [REF KU COMM]

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /2]	[]	[]	[]	[X]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

ANALYSIS ONLY COVERED KU-BAND RADAR FUNCTION. WHEN BOTH RADAR AND COMM FUNCTIONS ARE COMBINED, CRITICALITY IS IN AGREEMENT. KUCOMM FUNCTIONS COVERED UNDER SEPARATE FMEA, 4000 SERIES. STOWED ANTENNA CAUSES LOSS OF KUB-BAND RR FUNCTION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88	NASA DATA:	
ASSESSMENT ID: COMTRK-7033	BASELINE []	
NASA FMEA #: 05-2R-5300-4	NEW [X]	
SUBSYSTEM: COMM AND TRACK		
MDAC ID: 7033		
ITEM: RR DMA (DEPLOYED MECHANICAL ASSY) [REF KU COMM]		
LEAD ANALYST: W.C. LONG		

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA [2 /1R]		[P]	[P]	[P]	[X] *
IOA [2 /2]		[]	[]	[]	[X]
COMPARE [/N]		[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/]	[]	[]	[]	[]	(ADD/DELETE)
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* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE	[X]
INADEQUATE	[]

REMARKS:
ANALYSIS ONLY COVERED KU-BAND RADAR FUNCTION. WHEN BOTH RADAR
AND COMM FUNCTIONS ARE COMBINED, CRITICALITY IS IN AGREEMENT.
KUCOMM FUNCTIONS COVERED UNDER SEPARATE FMEA, 4000 SERIES.
STOWED ANTENNA CAUSES LOSS OF KUB-BAND RR FUNCTION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7034
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7034
 ITEM: RR DMA (DEPLOYED MECHANICAL ASSY) [REF KU COMM]
 LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 / 2]	[]	[]	[]	[X]
COMPARE	[N / N]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 / 2] [] [] [] [A]
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NO COUNTERPART NASA KU-BAND RADAR FMEA. FAILURE TO START/STOP
 COULD RESULT IN LOSS OF RADAR FUNCTION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7036
 NASA FMEA #: 05-2R-5112-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7036
 ITEM: KU-BAND POWER SWITCH (REF KU-BAND COMM)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 / 2]	[]	[]	[]	[X] *
IOA	[2 / 2]	[]	[]	[]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

CRITICALITIES IN AGREEMENT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7037
 NASA FMEA #: 05-2R-5112-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7037
 ITEM: KU-BAND POWER SWITCH (REF KU-BAND COMM)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /2]	[]	[]	[]	[X]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

ANALYSIS ONLY COVERED KU-BAND RADAR FUNCTION. WHEN BOTH RADAR AND COMM FUNCTIONS ARE COMBINED, CRITICALITY IS IN AGREEMENT. KUCOMM FUNCTIONS COVERED UNDER SEPARATE FMEA, 4000 SERIES. STOWED ANTENNA CAUSES LOSS OF KUB-BAND RR FUNCTION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7038
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7038
 ITEM: KU-BAND POWER SWITCH (REF KU-BAND COMM)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 / 2]	[]	[]	[]	[X]
COMPARE	[N / N]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 / 2] [] [] [] [A]
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NO COUNTERPART NASA KU-BAND RADAR FMEA. FAILURE TO REMAIN CLOSED
 COULD RESULT IN LOSS OF KU-BAND SYSTEM. LOSS OF RADAR WOULD
 RESULT IN LOSS OF MISSION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7040
 NASA FMEA #: 05-2R-5113-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7040
 ITEM: KU A MODE SWITCH (REF KU-BAND COMM)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /2]	[]	[]	[]	[X]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

ANALYSIS ONLY COVERED KU-BAND RADAR FUNCTION. WHEN BOTH RADAR AND COMM FUNCTIONS ARE COMBINED, CRITICALITY IS IN AGREEMENT. KUCOMM FUNCTIONS COVERED UNDER SEPARATE FMEA, 4000 SERIES. STOWED ANTENNA CAUSES LOSS OF KUB-BAND RR FUNCTION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7041
 NASA FMEA #: 05-2R-5107-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7041
 ITEM: KU BD A ANT STEERING SW (REF KU BD COMM)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 / 2]	[]	[]	[]	[X] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

FAILURE TO SWITCH WOULD PREVENT SELECTION OF OPTIMUM ANTENNA
 STEERING MODE. NOT CRITICAL FUNCTION. OPEN/SHORT COULD RESULT
 IN LOSS OF RADAR FUNCTION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7042
 NASA FMEA #: 05-2R-5214-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7042
 ITEM: RADAR OUTPUT SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 / 2]	[]	[]	[]	[] *
IOA	[2 / 2]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:
 CRITICALITIES IN AGREEMENT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7043
 NASA FMEA #: 05-2R-5214-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7043
 ITEM: RADAR OUTPUT SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /2]	[]	[]	[]	[X]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

ANALYSIS ONLY COVERED KU-BAND RADAR FUNCTION. WHEN BOTH RADAR AND COMM FUNCTIONS ARE COMBINED, CRITICALITY IS IN AGREEMENT. KUCOMM FUNCTIONS COVERED UNDER SEPARATE FMEA, 4000 SERIES. STOWED ANTENNA CAUSES LOSS OF KUB-BAND RR FUNCTION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7044
 NASA FMEA #: 05-2R-5104-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7044
 ITEM: SLEW AZIMUTH CONTROL SWITCH (REF KU-BAND COMM)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[2 /2]	[]	[]	[]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /2] [] [] [] [A]
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE [X]

REMARKS:

ANALYSIS ONLY COVERED KU-BAND RADAR FUNCTION. WHEN BOTH RADAR AND COMM FUNCTIONS ARE COMBINED, CRITICALITY IS IN AGREEMENT. KUCOMM FUNCTIONS COVERED UNDER SEPARATE FMEA, 4000 SERIES. STOWED ANTENNA CAUSES LOSS OF KUB-BAND RR FUNCTION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7047
 NASA FMEA #: 05-2R-5104-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7047
 ITEM: SLEW ELEV CONTROL SWITCH(REF KU-BAND COMM)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 / 2]	[]	[]	[]	[X] *
IOA	[2 / 2]	[]	[]	[]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:
 CRITICALITIES AGREE.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7048
 NASA FMEA #: 05-2R-5105-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7048
 ITEM: SLEW RATE CONTROL SWITCH (REF KU-BAND COMM)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

FAILURE TO TRANSFER OR SHORTED CONTACTS WOULD ONLY PREVENT SLEW RATE SELECTION. NOT CRITICAL. OPEN COULD CAUSE LOSS OF KU-BAND FUNCTION RESULTING IN CRITICALITY DENOTED.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7050
 NASA FMEA #: 05-2R-5108-1

NASA DATA:

 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7050
 ITEM: ANT SEARCH SELECT SWITCH (REF KU-BAND COMM)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[P]	[P]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

ERROR MADE ON IOA ASSESSMENT. SHOULD BE 2/2. ONLY WORST CASE
 CONDITION ANALYZED.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
ASSESSMENT ID: COMTRK-7050A
NASA FMEA #: 05-2R-5108-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 7050
ITEM: ANT SEARCH SELECT SWITCH (REF KU-BAND COMM)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

ERROR MADE ON IOA ASSESSMENT. SHOULD BE 2/2. ONLY WORST CASE
CONDITION ANALYZED.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7501A
 NASA FMEA #: 05-6PC-22206-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7501
 ITEM: CIRCUIT BREAKER, 3A (31V73A4CB58, 61 & 64)

LEAD ANALYST: H.J. LOWERY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 1R]	[P]	[P]	[P]	[]
COMPARE	[/ N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

AGREE. ANALYSIS COVERED WORST CASE FAILED OPEN CONDITION.
 FAILED CLOSED WOULD ALLOW FOR NORMAL OPERATION WITH FUSE
 PROTECTION STILL AVAILABLE.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7503
 NASA FMEA #: 05-6PF-22402-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7503
 ITEM: CIRCUIT BREAKER, 5A (33V73A14CB25, A15CB24 & A16CB18)

LEAD ANALYST: H.J. LOWERY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:
 CRITICALITIES ARE IN AGREEMENT.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7503A
 NASA FMEA #: 05-6PF-22402-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7503
 ITEM: CIRCUIT BREAKER, 5A (33V73A14CB25, A15CB24 & A16CB18)

LEAD ANALYST: H.J. LOWERY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 1R]	[P]	[P]	[P]	[]
COMPARE	[/ N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

AGREE. ANALYSIS COVERED WORST CASE "FAILED OPEN" CONDITION.
 FAILED CLOSED WOULD ALLOW FOR NORMAL OPERATION WITH MLS PWR SW
 AVAILABLE FOR ON/OFF CONTROL.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7504
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7504
 ITEM: ISOLATION RESISTOR, (33V73A8A5R1, A6R1 & A7R1)

LEAD ANALYST: H.J. LOWERY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /1R] [P] [P] [P] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NO COUNTERPART NASA FMEA. SHORT TO GROUND FAILURE SHOULD BE CONSIDERED DUE TO THESE RESISTORS BEING LOCATED ON LOAD SIDE OF SWITCHES RATHER THAN BUS SIDE. BUSES NOT PROTECTED FROM SW SHORTS TO GROUND.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
 ASSESSMENT ID: COMTRK-7506
 NASA FMEA #: 05-6PD-22702-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 7506
 ITEM: CIRCUIT BREAKER, 3A(33V73A14CB24 & A15CB23)

LEAD ANALYST: H.J. LOWERY

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

AGREE WHEN MSBLS OR BAROMETRIC ALTIMETER ACCURACIES ARE NOT ADEQUATE OR AVAILABLE.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/04/88
 ASSESSMENT ID: COMTRK-8001
 NASA FMEA #: 1.2.2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 8001
 ITEM: VIDEO SWITCHING UNIT

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /2]	[]	[]	[]	[X] *
IOA	[2 /1R]	[P]	[p]	[P]	[X]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

LOSS OF VCU COULD RESULT IN LOSS OF CCTV AND MISSION. LOSS OF ALL CAPAB
 WINDOW VIEWING, EVA AND COAS FOR CREW USUAL INSPECTION AND RMS JETTISON

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/04/88
 ASSESSMENT ID: COMTRK-8001A
 NASA FMEA #: 1.2.18

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 8001
 ITEM: VIDEO SWITCHING UNIT

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /2]	[]	[]	[]	[X] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

LOSS OF VCU COULD RESULT IN LOSS OF CCTV AND MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW USUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/04/88
 ASSESSMENT ID: COMTRK-8001B
 NASA FMEA #: 1.2.21

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 8001
 ITEM: VIDEO SWITCHING UNIT

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 / 2]	[]	[]	[]	[X] *
IOA	[2 / 1R]	[P]	[P]	[P]	[X]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[2 / 1R] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

LOSS OF VCU COULD RESULT IN LOSS OF CCTV AND MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW USUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/04/88
 ASSESSMENT ID: COMTRK-8001C
 NASA FMEA #: 1.2.22

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 8001
 ITEM: VIDEO SWITCHING UNIT

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /2]	[]	[]	[]	[X] *
IOA	[2 /1R]	[P]	[p]	[p]	[X]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

LOSS OF VCU COULD RESULT IN LOSS OF CCTV AND MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW USUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/04/88
 ASSESSMENT ID: COMTRK-8001D
 NASA FMEA #: 1.2.23

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 8001
 ITEM: VIDEO SWITCHING UNIT

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 / 2]	[]	[]	[]	[X] *
IOA	[2 / 1R]	[P]	[p]	[p]	[X]
COMPARE	[/ N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[2 / 1R] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

LOSS OF VCU COULD RESULT IN LOSS OF CCTV AND MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW USUAL INSPECTION AND RMS JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/04/88
 ASSESSMENT ID: COMTRK-8001E
 NASA FMEA #: 1.2.1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 8001
 ITEM: VIDEO SWITCHING UNIT

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[P]	[P]	[] *
IOA	[2 /1R]	[P]	[p]	[p]	[X]
COMPARE	[N /N]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

LOSS OF OUTPUT COVERS ALL VSU FUNCTIONS. ONLY THE WORST CASE
 FUNCTION WAS ANALYSED.
 WINDOW VIEWING, EVA AND COAS FOR CREW USUAL INSPECTION AND RMS
 JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
 ASSESSMENT ID: COMTRK-8001F
 NASA FMEA #: 1.2.3

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 8001
 ITEM: VIDEO SWITCHING UNIT

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[2 / 1R]	[P]	[p]	[p]	[X]
COMPARE	[N / N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

LOSS OF OUTPUT COVERS ALL VSU FUNCTIONS. ONLY THE WORST CASE
 FUNCTION WAS ANALYSED.
 WINDOW VIEWING, EVA AND COAS FOR CREW USUAL INSPECTION AND RMS
 JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
 ASSESSMENT ID: COMTRK-8001G
 NASA FMEA #: 1.2.4

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 8001
 ITEM: VIDEO SWITCHING UNIT

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /3]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[p]	[p]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

LOSS OF OUTPUT COVERS ALL VSU FUNCTIONS. ONLY THE WORST CASE
 FUNCTION WAS ANALYSED.
 WINDOW VIEWING, EVA AND COAS FOR CREW USUAL INSPECTION AND RMS
 JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
 ASSESSMENT ID: COMTRK-8001H
 NASA FMEA #: 1.2.5

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 8001
 ITEM: VIDEO SWITCHING UNIT

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[2 / 1R]	[P]	[p]	[p]	[X]
COMPARE	[N / N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

LOSS OF OUTPUT COVERS ALL VSU FUNCTIONS. ONLY THE WORST CASE
 FUNCTION WAS ANALYSED.
 WINDOW VIEWING, EVA AND COAS FOR CREW USUAL INSPECTION AND RMS
 JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
 ASSESSMENT ID: COMTRK-8001I
 NASA FMEA #: 1.2.6

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 8001
 ITEM: VIDEO SWITCHING UNIT

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /3]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[p]	[p]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[. /] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

LOSS OF OUTPUT COVERS ALL VSU FUNCTIONS. ONLY THE WORST CASE
 FUNCTION WAS ANALYSED.
 WINDOW VIEWING, EVA AND COAS FOR CREW USUAL INSPECTION AND RMS
 JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
 ASSESSMENT ID: COMTRK-8001J
 NASA FMEA #: 1.2.7

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 8001
 ITEM: VIDEO SWITCHING UNIT

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[2 / 1R]	[P]	[p]	[p]	[X]
COMPARE	[N / N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

LOSS OF OUTPUT COVERS ALL VSU FUNCTIONS. ONLY THE WORST CASE
 FUNCTION WAS ANALYSED.
 WINDOW VIEWING, EVA AND COAS FOR CREW USUAL INSPECTION AND RMS
 JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
 ASSESSMENT ID: COMTRK-8001K
 NASA FMEA #: 1.2.8

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 8001
 ITEM: VIDEO SWITCHING UNIT

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[2 / 1R]	[P]	[p]	[p]	[X]
COMPARE	[N / N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

LOSS OF OUTPUT COVERS ALL VSU FUNCTIONS. ONLY THE WORST CASE
 FUNCTION WAS ANALYSED.
 WINDOW VIEWING, EVA AND COAS FOR CREW USUAL INSPECTION AND RMS
 JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
 ASSESSMENT ID: COMTRK-8001L
 NASA FMEA #: 1.2.9

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 8001
 ITEM: VIDEO SWITCHING UNIT

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[2 / 1R]	[P]	[p]	[p]	[X]
COMPARE	[N / N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

LOSS OF OUTPUT COVERS ALL VSU FUNCTIONS. ONLY THE WORST CASE
 FUNCTION WAS ANALYSED.
 WINDOW VIEWING, EVA AND COAS FOR CREW USUAL INSPECTION AND RMS
 JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
 ASSESSMENT ID: COMTRK-8001M
 NASA FMEA #: 1.2.10

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 8001
 ITEM: VIDEO SWITCHING UNIT

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[2 / 1R]	[P]	[p]	[p]	[X]
COMPARE	[N / N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

LOSS OF OUTPUT COVERS ALL VSU FUNCTIONS. ONLY THE WORST CASE
 FUNCTION WAS ANALYSED.
 WINDOW VIEWING, EVA AND COAS FOR CREW USUAL INSPECTION AND RMS
 JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
 ASSESSMENT ID: COMTRK-8001N
 NASA FMEA #: 1.2.11

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 8001
 ITEM: VIDEO SWITCHING UNIT

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[2 / 1R]	[P]	[P]	[P]	[X]
COMPARE	[N / N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

LOSS OF OUTPUT COVERS ALL VSU FUNCTIONS. ONLY THE WORST CASE
 FUNCTION WAS ANALYSED.
 WINDOW VIEWING, EVA AND COAS FOR CREW USUAL INSPECTION AND RMS
 JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
 ASSESSMENT ID: COMTRK-80010
 NASA FMEA #: 1.2.12

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 8001
 ITEM: VIDEO SWITCHING UNIT

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[2 / 1R]	[P]	[p]	[P]	[X]
COMPARE	[N / N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

LOSS OF OUTPUT COVERS ALL VSU FUNCTIONS. ONLY THE WORST CASE
 FUNCTION WAS ANALYSED.
 WINDOW VIEWING, EVA AND COAS FOR CREW USUAL INSPECTION AND RMS
 JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
 ASSESSMENT ID: COMTRK-8001P
 NASA FMEA #: 1.2.13

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 8001
 ITEM: VIDEO SWITCHING UNIT

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[2 / 1R]	[P]	[p]	[p]	[X]
COMPARE	[N / N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

LOSS OF OUTPUT COVERS ALL VSU FUNCTIONS. ONLY THE WORST CASE
 FUNCTION WAS ANALYSED.
 WINDOW VIEWING, EVA AND COAS FOR CREW USUAL INSPECTION AND RMS
 JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
 ASSESSMENT ID: COMTRK-8001Q
 NASA FMEA #: 1.2.14

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 8001
 ITEM: VIDEO SWITCHING UNIT

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /3]	[]	[]	[]	[X] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

LOSS OF OUTPUT COVERS ALL VSU FUNCTIONS. ONLY THE WORST CASE
 FUNCTION WAS ANALYSED.
 WINDOW VIEWING, EVA AND COAS FOR CREW USUAL INSPECTION AND RMS
 JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
 ASSESSMENT ID: COMTRK-8001R
 NASA FMEA #: 1.2.15

NASA DATA: []
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 8001
 ITEM: VIDEO SWITCHING UNIT

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[2 / 1R]	[P]	[p]	[p]	[X]
COMPARE	[N / N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

LOSS OF OUTPUT COVERS ALL VSU FUNCTIONS. ONLY THE WORST CASE
 FUNCTION WAS ANALYSED.
 WINDOW VIEWING, EVA AND COAS FOR CREW USUAL INSPECTION AND RMS
 JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
 ASSESSMENT ID: COMTRK-8001S
 NASA FMEA #: 1.2.16

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 8001
 ITEM: VIDEO SWITCHING UNIT

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /3]	[]	[]	[]	[X] *
IOA	[2 /1R]	[P]	[p]	[p]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

LOSS OF OUTPUT COVERS ALL VSU FUNCTIONS. ONLY THE WORST CASE
 FUNCTION WAS ANALYSED.
 WINDOW VIEWING, EVA AND COAS FOR CREW USUAL INSPECTION AND RMS
 JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
 ASSESSMENT ID: COMTRK-8001T
 NASA FMEA #: 1.2.17

NASA DATA: []
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 8001
 ITEM: VIDEO SWITCHING UNIT

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /3]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[p]	[p]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

LOSS OF OUTPUT COVERS ALL VSU FUNCTIONS. ONLY THE WORST CASE
 FUNCTION WAS ANALYSED.
 WINDOW VIEWING, EVA AND COAS FOR CREW USUAL INSPECTION AND RMS
 JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
 ASSESSMENT ID: COMTRK-8001U
 NASA FMEA #: 1.2.19

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 8001
 ITEM: VIDEO SWITCHING UNIT

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[2 / 1R]	[P]	[p]	[p]	[X]
COMPARE	[N / N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

LOSS OF OUTPUT COVERS ALL VSU FUNCTIONS. ONLY THE WORST CASE
 FUNCTION WAS ANALYSED.
 WINDOW VIEWING, EVA AND COAS FOR CREW USUAL INSPECTION AND RMS
 JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
 ASSESSMENT ID: COMTRK-8001V
 NASA FMEA #: 1.2.20

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 8001
 ITEM: VIDEO SWITCHING UNIT

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[2 / 1R]	[P]	[p]	[p]	[X]
COMPARE	[N / N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

LOSS OF OUTPUT COVERS ALL VSU FUNCTIONS. ONLY THE WORST CASE
 FUNCTION WAS ANALYSED.
 WINDOW VIEWING, EVA AND COAS FOR CREW USUAL INSPECTION AND RMS
 JETTISON TO ALLOW P/L BAY DOOR CLOSURE. WORST CASE CONDITION.

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
 ASSESSMENT ID: COMTRK-8002
 NASA FMEA #: 1.2.2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 8002
 ITEM: VIDEO SWITCHING UNIT

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /2]	[]	[]	[]	[X] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [P] [P] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

LOSS OF VCU COULD RESULT IN LOSS OF CCTV AND MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXISTS VIA CREW

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
 ASSESSMENT ID: COMTRK-8002A
 NASA FMEA #: 1.2.18

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 8002
 ITEM: VIDEO SWITCHING UNIT

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /2]	[]	[]	[]	[X] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [P] [P] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

LOSS OF VCU COULD RESULT IN LOSS OF CCTV AND MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXISTS VIA CREW

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
 ASSESSMENT ID: COMTRK-8002B
 NASA FMEA #: 1.2.21

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 8002
 ITEM: VIDEO SWITCHING UNIT

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /2]	[]	[]	[]	[X] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [P] [P] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

LOSS OF VCU COULD RESULT IN LOSS OF CCTV AND MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXISTS VIA CREW

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
 ASSESSMENT ID: COMTRK-8002C
 NASA FMEA #: 1.2.22

NASA DATA: _____
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 8002
 ITEM: VIDEO SWITCHING UNIT

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /2]	[]	[]	[]	[X] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [P] [P] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

LOSS OF VCU COULD RESULT IN LOSS OF CCTV AND MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXISTS VIA CREW

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
 ASSESSMENT ID: COMTRK-8002D
 NASA FMEA #: 1.2.23

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 8002
 ITEM: VIDEO SWITCHING UNIT

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /2]	[]	[]	[]	[X] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [P] [P] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

LOSS OF VCU COULD RESULT IN LOSS OF CCTV AND MISSION. LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTION COULD PREVENT RMS STOW AND MONITORING P/L BAY DOOR LATCHES RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW. UNLIKE CCTV REDUNDANCY EXISTS VIA CREW

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
 ASSESSMENT ID: COMTRK-8002E
 NASA FMEA #: 1.2.1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 8002
 ITEM: VIDEO SWITCHING UNIT

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[P]	[P]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

FAILS TO SWITCH RESULTS IN LOSS OF OUTPUT. LOSS OF OUTPUT COVERS ALL VSU FUNCTIONS. ONLY THE WORST CASE FUNCTION WAS ANALYSED.

