

FAILURE MODE EFFECTS ANALYSIS/CRITICAL ITEMS LIST

FMEA NUMBER: EC-PORT1-5 ORIGINATOR: JSC PROJECT: EDFT-03

PART NAME: CONNECTORS LRU/ORU PART NUMBER: SED39126403-301* QUANTITY: 1 EA.
PART NUMBER: 1F70287, 1F70272 LRU/ORU PART NAME: PIT-PIT UT BOX SYSTEM: GFE
1F70273, 1F70274, 1F70275,
1F70277, 1F70278
LSC CONTROL NO: N/A DRAWING/REF DESIGNATOR: SEE P/N SUBSYSTEM: EVA
ZONE/LOCATION: PORT 1 EFFECTIVITY/AFFECT STAGE: STS-72

CRITICALITY:
CRITICAL ITEM: No SUCCESS PATHS: 4
CRITICALITY CATEGORY: 1R/3 SUCCESS PATH REMAINING: 3

END ITEM NAME: N/A
END ITEM FUNCTIONAL: N/A
END ITEM CAPABILITY: N/A
END ITEM FAILURE TOLERANCE: N/A

REDUNDANCY SCREENS:

A/1. C/O PRELAUNCH: Pass
2. C/O ON ORBIT: N/A for NSTS
B/3. DETECTION FLIGHT CREW: N/A
4. DETECTION GROUND CREW: N/A
C/5. LOSS OF REDUNDANCY FROM SINGLE CAUSE: Pass

FUNCTION: Avionics/Fluid Connectors provide the non-functional (no power or fluids in lines) and structural interface to dummy connector receptacles.

FAILURE MODE CODE: N/A for NSTS

FAILURE MODE: 1) Unable to remate connector 2) Inadvertent release of connector.

CAUSE: Contamination, galling, wear, piece part defect, line stiffness too high.

REMAINING PATHS: 3 EFFECT/ MISSION PHASE:
Opposite connector, line clamps, and door. Launch/Landing, EVA.

CORRECTIVE ACTION: Remaining connector and at least one clamps must be attached.

-FAILURE EFFECTS-

END ITEM/LRU/ORU/ASSEMBLY: 1) Unable to reinstall connector into stowage location 2) A portion of the line is not structurally supported.

SUBSYSTEM/NEXT ASSEMBLY/INTERFACE: N/A

SYSTEM/END ITEM/MISSION: Partial loss of DTO objective.

CREW/VEHICLE : If all means to restrain line are lost, line will be free in PLB. Possible vehicle damage due to loose equipment.

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 PART NUMBER: 1F70287, 1F70272 LRU/ORU PART NAME: FIT-FIT UT BOX SYSTEM: GFE
 1F70273, 1F70274, 1F70275,
 1F70277, 1F70278
 LSC CONTROL NO: N/A DRAWING/REF DESIGNATOR: SEE P/N SUBSYSTEM: EVA
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HAZARD INFORMATION:

HAZARD: N/A

HAZARD ORGANIZATION CODE: N/A

HAZARD NUMBER: N/A

TIME TO EFFECT: Seconds
 TIME TO DETECT: Seconds
 TIME TO CORRECT: Immediately during EVA

REMARKS:

RATIONALE FOR ACCEPTABILITY:

- (A) DESIGN: N/A
- (B) TEST: N/A
- (C) INSPECTION: N/A
- (E) OPERATIONAL USE: N/A
- (F) MAINTAINABILITY: N/A

PREPARED BY: G. Wright

REVISION:

DATE: 8/10/95

WAIVER NUMBER: