

FAILURE MODE EFFECTS ANALYSIS/CRITICAL ITEMS LIST

FMEA NUMBER: EC-PORT2-6 ORIGINATOR: JSC PROJECT:EDFT-03

PART NAME: OGLA LRU/ORU PART NUMBER: SED59126406-301 QUANTITY: 1
 PART NUMBER: SED39125406-301 LRU/ORU PART NAME: CABLE CADDY ASSY. SYSTEM: GFE
 LSC CONTROL NO: N/A DRAWING/REF DESIGNATOR: SEE P/N SUBSYSTEM: EVA
 ZONE/LOCATION: PORT 2 EFFECTIVITY/AFFECT STAGE: STS-72

CRITICALITY:

CRITICAL ITEM: No SUCCESS PATHS: 3
 CRITICALITY CATEGORY: 1R/3 SUCCESS PATH REMAINING: 2

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

REDUNDANCY SCREENS:

- A1. C/O PRELAUNCH: Pass
2. C/O ON ORBIT: N/A for NSTS
- B/3. DETECTION FLIGHT CREW: Pass
4. DETECTION GROUND CREW:
- C/5. LOSS OF REDUNDANCY FROM SINGLE CAUSE: Pass

FUNCTION: The ORU latch is the mechanism provided to allow removal and installation of an ORU onto an ORU grid. ORU grids, on STS-72, are located on the TERA and Port bay 2 FSE.

FAILURE MODE CODE: N/A for NSTS

FAILURE MODE: Latch handle inadvertently opens.

CAUSE: Contamination, piece part failure, wear.

REMAINING PATHS:

EFFECT/ MISSION PHASE: Launch/
EVA

Latch handle lock and pip pin on handle lock.

CORRECTIVE ACTION: None. Latch handle lock (redundant springs) and pip pin on handle lock will prevent the handle from opening.

-FAILURE EFFECTS-

END ITEM/LRU/ORU/ASSEMBLY: Latch mechanism will release ORU grid after multiple failures.

SUBSYSTEM/NEXT ASSEMBLY/INTERFACE: N/A

SYSTEM/END ITEM/MISSION: None

CREW/VEHICLE: If latch lock fails(3 failures) and the handle rotates to the open position, the OGLA/Cable Caddy will be free of its restraint. ORU release in PLB will result in significant vehicle damage.

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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: immediate

FAILURE DETECTION/FLIGHT Visual

REMARKS:

-RATIONALE FOR ACCEPTABILITY-

(A) DESIGN: N/A

(B) TEST: N/A

(C) INSPECTION:
N/A

(D) FAILURE HISTORY: N/A

(E) OPERATIONAL USE:
N/A

(F) MAINTAINABILITY: N/A

PREPARED BY: G. Wright

REVISION:

DATE: 8/10/95

WAIVER NUMBER: