

**FAILURE MODE EFFECTS ANALYSIS/CRITICAL ITEMS LIST****FMEA NUMBER: CSD-TB-39****ORIGINATOR: JSC****PROJECT: EDFT-02****PART NAME: MAT****LRU/ORU PART NUMBER: SED39127369****QUANTITY: 1****PART NUMBER: SED39127369-301****LRU/ORU PART NAME: MAT****SYSTEM: DTO 671****LSC CONTROL NO: N/A****DRAWING/REF DESIGNATOR: SEE P/N****SUBSYSTEM: EVA****ZONE/LOCATION: CABIN/PLB****EFFECTIVITY/AFFECT STAGE: STS-69****CRITICALITY:****CRITICAL ITEM: No****SUCCESS PATHS: 3****CRITICALITY CATEGORY: IR/3****SUCCESS PATH REMAINING: 2****REDUNDANCY SCREENS:****A/1. C/O PRELAUNCH: N/A****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: N/A****FUNCTION:** The MAT is a device that will allow a ORU fitted with a "H" fitting to be interfaced with devices (Micro conical Handling Tool) designed to be interfaced to a micro conical fitting.**FAILURE MODE CODE: N/A for NSTS****FAILURE MODE: Unable to remove MAT.****CAUSE: Contamination, galling, piece part defect.****REMAINING PATHS: 2-EVA bolt override or jettison.****EFFECT/ MISSION PHASE: EVA****CORRECTIVE ACTION:** If latch pawl jams closed, override the pawl mechanism through the EVA bolt or MAT and ACU can be jettisoned.**-FAILURE EFFECTS-****END ITEM/LRU/ORU/ASSEMBLY:****Unable to remove MAT from simulated Arm Control Unit.****SUBSYSTEM/NEXT ASSEMBLY/INTERFACE: N/A****SYSTEM/END ITEM/MISSION: Partial loss of DTO objectives.****CREW/VEHICLE :** None for single failure, MAT must be removed or ORU(ACU on STS-69)/MAT jettisoned to ensure equipment is safely configured for landing.

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FMEA NUMBER: CSD-TB-39      ORIGINATOR: JSC      PROJECT: EDFT-02

PART NAME: MAT	LRU/ORU PART NUMBER: SED39127369	QUANTITY: 1
PART NUMBER: SED39127369-301	LRU/ORU PART NAME: MAT	SYSTEM: DTO 671
LSC CONTROL NO: N/A	DRAWING/REF DESIGNATOR: SEE P/N	SUBSYSTEM: EVA
ZONE/LOCATION: CABIN/PLB	EFFECTIVITY/AFFECT STAGE: STS-69	

### HAZARD INFORMATION:

HAZARD: YES:      NO:

HAZARD ORGANIZATION CODE: N/A

HAZARD NUMBER: N/A

TIME TO EFFECT: N/A

TIME TO DETECT: N/A

TIME TO CORRECT: N/A

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: 5/15/95

WAIVER NUMBER