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**FAILURE MODE EFFECTS ANALYSIS/CRITICAL ITEMS LIST**


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FMEA NUMBER: EC-PORT1-2      ORIGINATOR:      ISC      PROJECT:EDFT-03

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PART NAME: LATCH ASSY	LRU/ORU PART NUMBER: SED39126403-301	QUANTITY: 3
PART NUMBER: SED39126433-301	LRU/ORU PART NAME: PIT-PIT UT. BOX	SYSTEM: GFE
LSC CONTROL NO: N/A	DRAWING/REF DESIGNATOR: SEE P/N	SUBSYSTEM: EVA
ZONE/LOCATION: PORT 1	EFFECTIVITY/AFFECT STAGE: STS-72	

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CRITICALITY:

CRITICAL ITEM: No      SUCCESS PATHS: 3  
 CRITICALITY CATEGORY: IR/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:

- A/1. C/O PRELAUNCH: Pass
  2. C/O ON ORBIT: N/A for NSTS
  - B/3. DETECTION FLIGHT CREW: Pass
  4. DETECTION GROUND CREW: N/A
  - C/5. LOSS OF REDUNDANCY FROM SINGLE CAUSE: Pass
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FUNCTION: Three latches prevent primary utility box door assy from opening. Door hinge and locking door strut provided support when door is opened.

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FAILURE MODE CODE: N/A for NSTS

FAILURE MODE: Unable to rotate latch to closed position.

CAUSE: Contamination, galling, wear, piece part failure.

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REMAINING PATHS: 1-2      EFFECT/MISSION PHASE: EVA

1-The other 2 latches and door hinge bolts.

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CORRECTIVE ACTION: Close remaining two latches or remove door.

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-FAILURE EFFECTS-

END ITEM/LRU/ORU/ASSEMBLY: Unable to close one latch securing utility box door.

SUBSYSTEM/NEXT ASSEMBLY/INTERFACE: N/A.

SYSTEM/END ITEM/MISSION: None.

CREW/VEHICLE : None for single failure, remaining latches can prevent door from opening during deorbit/landing. Possible loose equipment in PLB may damage vehicle.

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**FAILURE MODE EFFECTS ANALYSIS/CRITICAL ITEMS LIST**


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FMEA NUMBER: EC-PORT1-2      ORIGINATOR:      JSC      PROJECT: EDFT-03

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PART NAME: LATCH ASSY	LRU/ORU PART NUMBER: SED39126403-301	QUANTITY: 3
PART NUMBER: SED39126433-301	LRU/ORU PART NAME: FIT-FIT UT BOX	SYSTEM: GFE
LSC CONTROL NO: N/A	DRAWING/REF DESIGNATOR: SEE P/N	SUBSYSTEM: EVA
ZONE/LOCATION: PORT 1	EFFECTIVITY/AFFECT STAGE: STS-72	

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**HAZARD INFORMATION:**

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HAZARD: N/A

HAZARD ORGANIZATION CODE: N/A

HAZARD NUMBER: N/A

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TIME TO EFFECT: Hours

TIME TO DETECT: Seconds

TIME TO CORRECT: Immediate

FAILURE DETECTION/FLIGHT: Visual

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**REMARKS:**

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**-RATIONALE FOR ACCEPTABILITY-**

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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

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PREPARED BY: G. Wright

REVISION:

DATE: 8/10/95

WAIVER NUMBER:

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