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

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MEA NUMBER: EDFT-05-PORT7-1	ORIGINATOR: JSC	PROJECT: DTO 671
PART NAME: OTD LATCH ASSEMBLY	LRU PART NUMBER: SED39128567-401	QUANTITY: 4
PART NUMBER: SED39128598-301, 39128599-301, 39128600-301, 39128601-301	LRU PART NAME: BAY 7 PORT INSTALLATION	SYSTEM: EDFT-05
DRAWING: SEE P/N	SUBSYSTEM: N/A	EFFECTIVITY: STS-80

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**CRITICALITY:**CRITICAL ITEM? YES  NO CRITICALITY CATEGORY: 1R/3**REDUNDANCY SCREENS:**

- A - Pass
  - B - N/A
  - C - Pass
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**FUNCTION:** Four OTD latch assemblies secure the OTD for launch and landing. Each latch assembly is 2-fault tolerant for inadvertent opening (2 redundant springs and a ball detent locking pin).

**FAILURE MODE:** Latch assembly inadvertently opens

**CAUSE:** Spring failure, piece part failure, vibration

**FAILURE DETECTION:** None

**REMAINING PATHS:** Two - Redundant spring in latch assembly, or ball detent lock

**EFFECT/MISSION PHASE:** launch / landing

**CORRECTIVE ACTION:** None

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**-FAILURE EFFECTS-**

**END ITEM:** None for single failure.

**INTERFACE:** N/A

**MISSION:** None

**CREW/VEHICLE:** No effect for any single latch opening at landing. Latches 1 and 3 or latches 1 and 4 or latches 2 and 3 or latches 2 and 4 must be engaged to ensure structural integrity during landing. Loose equipment in the PLB will cause significant vehicle damage.

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**HAZARD INFORMATION:**HAZARD: YES \_\_\_\_\_ NO X

HAZARD ORGANIZATION CODE:

HAZARD NUMBER: N/A

TIME TO EFFECT: Seconds

TIME TO DETECT: None

TIME TO CORRECT: Immediate

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REMARKS:

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**-RETENTION RATIONALE-**

- (A) DESIGN:
- (B) TEST:
- (C) INSPECTION:
- (D) FAILURE HISTORY:
- (E) OPERATIONAL USE

PREPARED BY: Murray Epstein

REVISION:

DATE: 4/15/96