
FAILURE MODE EFFECTS ANALYSIS/CRITICAL ITEMS LIST

FMEA NUMBER: PRD-FM06

ORIGINATOR: JSC

PROJECT: GFE - SHUTTLE

PART NAME: Ratchet Shaft Assy

PART NUMBER: 10163-20006-01

QUANTITY: 1

LRU PART NUMBER: 10163-10063-03

LRU PART NAME: PRD

SYSTEM: EVA Tools

DRAWING:

SUBSYSTEM: PRD

EFFECTIVITY: STS-70

CRITICAL ITEM? NO

CRITICALITY:

CRITICALITY CATEGORY 1R/3

REDUNDANCY SCREEN:

A - PASS

B - PASS

C - PASS

FUNCTION: Winds up adjustable strap to secure payload, RMS or PLB doors.

FAILURE MODE: Jams or binds under tension.**CAUSE:** Contamination.**FAILURE DETECTION:** N/A**REMAINING PATHS:** Spare PRD**EFFECT/MISSION PHASE:** EVACORRECTIVE ACTION:

Use spare PRD to relieve tension, and then remove failed PRD.

-FAILURE EFFECTS-**END ITEM:** Unable to ratchet in strap.**INTERFACE:** Unable to securely restrain RMS, payload or PLB doors.**MISSION:** None.**CREW/VEHICLE :** Possible vehicle damage from unsecured payload. Loss of vehicle if PLB doors can't be closed.HAZARD INFORMATION:**HAZARD:** YES NO X**HAZARD ORGANIZATION CODE:****HAZARD NUMBER:****TIME TO EFFECT:** Immediate**TIME TO DETECT:** Immediate**TIME TO CORRECT:** Minutes

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FAILURE DETECTION/FLIGHT: Visual, tactile

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: C. L. Hartman

REVISION:

DATE: 05/24/95

WAIVER NUMBER: