
FAILURE MODE EFFECTS ANALYSIS/CRITICAL ITEMS LIST

FMEA NUMBER: PRD-FM09

ORIGINATOR: JSC

PROJECT: GFE - SHUTTLE

PART NAME: Ratchet Handle Assy
 LRU PART NUMBER: 10163-10063-03
 DRAWING:

PART NUMBER: 10163-20014-05/06
 LRU PART NAME: PRD
 SUBSYSTEM: PRD

QUANTITY: 1
 SYSTEM: EVA Tools
 EFFECTIVIT: STS-70

CRITICALITY:

CRITICAL ITEM? NO

CRITICALITY CATEGORY 1R/3REDUNDANCY SCREEN:

A - PASS
 B - PASS
 C - PASS

 FUNCTION: Actuates ratchet gear to tighten strap.

FAILURE MODE: Jams or binds under tension.

CAUSE: Contamination.

FAILURE DETECTION: N/A

REMAINING PATHS: Spare PRD

EFFECT/MISSION PHASE: EVA

CORRECTIVE 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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DRAWING:

SUBSYSTEM: PRD

EFFECTIVIT: STS-70

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:
