

FAILURE MODES AND EFFECTS ANALYSIS/CRITICAL ITEMS LIST

FMEA Number:	OSS-CDH-DTO-003	Originator:	G. Hall/OSS	Project:	ISS IPT N° 5
Part Name:	Common D-Handle	LRU/ORU Part #:	SEG33107678-301	Quantity:	1
Part #:	SEG33107678-301	LRU/ORU Part Name:	Common D-Handle	System:	EVA
LSC Control #	TBD	Drawing/Ref Designator:		Subsystem:	Tools
Zone/Location:	Payload Bay	Effectivity/Affect Stage:	SSTS-80 DTO		

CRITICALITY

Critical Item:	No	Success Paths:	3
Criticality Category:	1R/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. C/O Prelaunch: Pass
 B. Detection Flight Crew: Pass
 C. Loss of Redundancy from Single Cause: N/A

Function: (End item and ORU/LRU)

Tool used by an EVA crewmember in conjunction with a Micro Scoop or MCF Scoop to aid in the handling and translation of ORUs.

Failure Mode Code: N/A

Failure Mode: D-handle inadvertently separates from MCF or Micro Scoop

Cause: Spring Failure

Remaining Paths: 1. Detent spring in slides
 2. Slide lock
 NOTE: Failure mode requires two spring failures and slide lock failure. Effect/Mission Phase: EVA

Corrective Action: Handle ORU using Micro or MCF Scoop.

FAILURE EFFECTS

End Item:LRU/ORU/Assembly: Fails to restrain Scoop/ORU.
 Subsystem/Next Assembly/Interface: Mass not restrained.
 System:End Item/Mission: None
 Crew/Vehicle: Potential injury/damage if control of mass is not maintained using tool and it impacts crewmember or Orbit

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HAZARD INFORMATION:

Hazard:	Yes	_____ No _____	_____ X _____
Hazard Organization Code:	N/A		
Hazard Number:	N/A		
Time to Effect:	Minutes		
Time to Detect:	Seconds		
Time to Correct:	Minutes		
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. Hall/OSS

Revision: B

Date: 06/01/94

Waiver Number: N/A