

Failure Modes and Effects Analysis/Critical Items List

FMEA No:	OSS-ST576-10	Originator:	G. Hall	Project:	STS-76 DTO 671
Part Name:	Universal Foot Restraint	ORU Part #	SED33107063-301	Quantity:	2
Part #:	SED33107063-301	ORU Part Name:	Universal Foot Restraint	System:	EVA
Drawing:	SED33107072	Subsystem:	N/A	Effectivity:	STS-76

Criticality:

Critical Item?	Yes	No	X
Criticality Category	<u>1R/3</u>		

Redundancy Screens:

- A - Pass
- B - Pass
- C - Pass

Function: Provides foot restraint for working EVA crewmember
 Failure Mode: Boot stuck in UFR
 Cause: Contamination, mechanical failure

Remaining Paths: 1) Remove UFR from sprocket. Return to pressurized area.
 2) Remove heel retainer, remove boot
 3) Adjust toe bar, remove boot.
 Effect/Mission Phase: EVA
 Corrective Action: None

-Failure Effects-

End Item: Foot restraint inoperable
 Interface: None
 Mission: N/A
 Crew/Vehicle: Crewmember entrapped by foot restraint

Hazard Information:

Hazard:	Yes	No	X
Hazard Organization Code:	N/A		
Hazard Number:	N/A		

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FMEA No:	OSS-ST576-10	Originator:	G. Hall/OSS	Project:	STS-76 DTO 671
Part Name:	Universal Foot Restraint	ORU Part #	SED33107063-301	Quantity:	4
Part #:	SED33107063-301	ORU Part Name:	Universal Foot Restraint	System:	EVA
Drawing:	SED33107063	Subsystem:	N/A	Effectivity:	STS-76

Time to Effect: N/A
 Time to Detect: N/A
 Time to Correct: N/A
 Failure Detection/Flight: N/A

Remarks:

-Retention Rationale-

- (A) Design: N/A
- (B) Test: N/A
- (C) Inspection: N/A
- (D) Failure History: N/A
- (E) Operational Use: N/A

Prepared By:	G. Hall/OSS	Revision:	B	Date:	02/26/96
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