

Failure Modes and Effects Analysis/Critical Items List

FMEA No: OSS-ST576-18	Originator: G. Hall	Project: STS-76 DTO 871
Part Name: Webbing	ORU Part # SED33107201-301	Quantity: 1
Part #: 9650	ORU Part Name: Safety Tether Assy	System: EVA
Drawing: SED33107201	Subsystem: N/A	Effectivity: STS-76

Criticality:

Critical Item?	Yes	<u>X</u>	No
Criticality Category		<u>1R/2</u>	

Redundancy Screens:

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

Function: Provides interface between the crewmember and the safety tether assy
 Failure Mode: Webbing fails
 Cause: Damage by friction or sharp object
 Remaining Paths: Use Safer to return to Orbiter. Effect/Mission Phase: EVA while docked.
 When undocked, pickup by Orbiter becomes additional path.
 Corrective Action: None

-Failure Effects-

End Item: Loss of safety restraint for EVA crewmember
 Interface: None
 Mission: N/A
 Crew/Vehicle: Possible loss of crewmember due to separation from Orbiter

Hazard Information:

Hazard:	Yes	No	<u>X</u>
Hazard Organization Code:		N/A	
Hazard Number:		N/A	

3

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 Page A-37

Failure Modes and Effects Analysis/Critical Items List

FMEA No: OSS-ST376-18	Originator: G. Hall/OSS	Project: STS-76 DTO 671
Part Name: Webbing	ORU Part # SED33107201-301	Quantity: 1
Part #: 9650	ORU Part Name: Safety Tether Assy	System: EVA
Drawing: SED33107101	Subsystem: N/A	Effectivity: STS-76
Time to Effect: Immediate		
Time to Detect: Immediate		
Time to Correct: Minutes		
Failure Detection/Flight: Visual		

Remarks:

-Retention Rationale-

- (A) Design: Designed per GDRD, ISC 26626A requirements
- (B) Test: Certification per CARD for CSTA/STA ISC 33433
- (C) Inspection: Flight hardware inspections at OSS, PDA, and PIA for proper operation. Inspection by crewmember prior to use
- (D) Failure History: None
- (E) Operational Use: NOTE: ORU will be used in a critical application.

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

13