

Failure Modes and Effects Analysis/Critical Items List:

FMEA No:	OSS-ST576-05	Originator:	G. Hall	Project:	STS-76 DTO 671
Part Name:	Webbing	ORU Part #	SED59128383-301	Quantity:	4
Part #:	9550	ORU Part Name:	Common Waist Tether Assy	System:	EVA
Drawing:	SED59128383	Subsystem:	N/A	Effectivity:	STS-76

Criticality:

Critical Item?	Yes	<u>X</u>	No	<u> </u>
Criticality Category		<u>1R/2</u>		<u> </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, orbiter pickup 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	<u> </u>	No	<u>X</u>
Hazard Organization Code:	N/A			
Hazard Number:	N/A			

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Failure Modes and Effects Analysis/Critical Items List

FMECA No:	OSS-ST576-05	Originator:	G. Hall/OSS	Project:	STS-76 DTO 671
Part Name:	Webbing	ORU Part #	SED39128385-301	Quantity:	4
Part #:	9650	ORU Part Name:	Common Waist Tether Assy	System:	EVA
Drawing:	SED39128383	Subsystem:	N/A	Effectivity:	575-75
Time to Effect:	Immediate				
Time to Detect:	Immediate				
Time to Correct:	Minutes				
Failure Detection/Flight:	Visual				

Remarks:

-Retention Rationale-

- (A) Design: Designed per GDRD, JSC 26626A requirements
- (B) Test: Certification per CARD for CWTA JSC 33434
- (C) Inspection: Flight hardware inspections at OSS, PDA, and PEA 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.

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