

Failure Modes and Effects Analysis/Critical Items List

FMEA No:	OSS-ST576-02	Originator:	G. Hall	Project:	STS-76 DTO 67:
Part Name:	Hook, Large	ORU Part #	SED39128383-301	Quantity:	4
Part #:	SED39128378-301	ORU Part Name:	Common Waist Tether Assy	System:	EVA
Drawing:	SED39128373	Subsystem:	N/A	Effectivity:	STS-76

Criticality:

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

Redundancy Screens:

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

Function: Provides interface between the EVA Crewmember (EMU D-Ring) and the Safety Tether Assy.

Failure Mode: Hook fails to open

Cause: Hook latch fails latched

Remaining Paths: 1. Open small waist tether hook
 2. Open common safety tether hook
 3. Cut waist tether webbing
 4. Cut tether cable

Effect/Mission Phase: EVA

Corrective Action: None

-Failure Effects-

End Item: Tether assembly inoperable

Interface: None

Mission: None

Crew/Vehicle: Crewmember remains tethered outside orbiter

Hazard Information:

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

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Failure Modes and Effects Analysis/Critical Items List

FMEA No:	OSS-ST576-02	Originator:	G. Hall/OSS	Project:	STS-76 DTO 671
Part Name:	Hook, Large	ORU Part #	SED39128383-301	Quantity:	4
Part #:	SED39128378-301	ORU Part Name:	Common Waist Tether Assy	System:	EVA
Drawing:	SED39128378	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:	02/26/95
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