

Failure Modes and Effects Analysis/Critical Items List

FMEA No:	OSS-ST876-04	Originator:	G. Hall	Project:	STS-76 DTC 671
Part Name:	Hook, Small	ORU Part #	SED39128383-301	Quantity:	4
Part #:	SED39128377-301	ORU Part Name:	Common Waist Tether Assy	System:	EVA
Drawing:	SED39128377	Subsystem:	N/A	Effectivity:	STS-76

Criticality:

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

Redundancy Screens:

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

Function: Provides interface between the crewmember and the Safety Tether Assy

Failure Mode: Hook fails to open

Cause: Hook latch fails latched

Remaining Paths: 1. Open large waist tether hook  
 2. Remove 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 Assy inoperable

Interface: None

Mission: N/A

Crew/Vehicle: Crewmember remains tethered outside orbiter

Hazard Information:

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

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FMEA No: OSS-STS76-04	Originator: G. Hall/OSS	Project: STS-76 DTO 671
Part Name: Hook, Small	ORU Part # SED39128383-301	Quantity: 4
Part #: SED39128377-301	ORU Part Name: Common Waist Tether Assy	System: EVA
Drawing: SED39128377	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		

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Remarks:

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-Retention Rationale-

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

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