

Document N^o 18901-70131B
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Failure Modes and Effects Analysis/Critical Items List

FMEA No:	OSS-ST876-03	Originator:	G. Hall	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

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 inadvertently opens during EVA

Cause: Hook latch fails unlatched

Remaining Paths: 1. Second spring failure Effect/Mission Phase: EVA while docked-
 2. Third spring failure
 3. Fourth spring failure
 4. Paddles depressed and lever actuated
 5. Use Safer to return to Orbiter. When undocked, orbiter pickup becomes additional path
 Note: The two lock springs and two lever springs must fail and the paddles depressed and lever actuated to cause inadvertent opening of hook

Corrective Action: None

-Failure Effects-

End Item: Loss of safety restraint for EVA crewmember

Interface: N/A

Mission: N/A

Crew/Vehicle Possible loss of crewmember due to separation from Orbiter

Hazard Information:

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

Hazard Number:

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Failure Modes and Effects Analysis/Critical Items List

FMEA No:	OSS-ST576-03	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:	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:	02/26/96
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