

Document No: 18901-70131R  
 Release Date: 10/30/95  
 Revision Date: 02/26/96  
 Page A-30

Failure Modes and Effects Analysis/Critical Items List

FMEA No: OSS-ST576-15	Originator: G. Hall	Project: STS-76 DTO 671
Part Name: Hook, Small	ORU Part #: SED33107201-301	Quantity: 1
Part #: SED33108377-301	ORU Part Name: Safety Tether Assy	System: EVA
Drawing: SED33108377	Subsystem: N/A	Effectivity: STS-76

Criticality:

Critical Item? Yes \_\_\_\_\_ No X  
 Criticality Category 1R/3

Redundancy Screens:

A - Pass  
 B - Pass  
 C - Pass

Function: Provides interface between the EVA crewmember (EMU D-ring) and Safety Tether Assy

Failure Mode: Hook fails to open

Cause: Hook latch fails unlatched

Remaining Paths: 1. Open large safety tether hook  
 2. Cut safety tether webbing  
 3. Cut safety tether cord. 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 X  
 Hazard Organization Code: N/A  
 Hazard Number: N/A

Document N<sup>o</sup> 18901-70131B  
 Release Date 10/30/95  
 Revision Date 02/26/96  
 Page A-31

Failure Modes and Effects Analysis/Critical Items List

FMEA No: OSS-ST576-15	Originator: G. Hall/OSS	Project: STS-76 DTO 671
Part Name: Hook, Small	ORU Part # SED33107201-301	Quantity: 1
Part #: SED33108377-301	ORU Part Name: Safety Tether Assy	System: EVA
Drawing: SED33108377	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	Revised: B	Date: 02/26/96
--------------------------	------------	----------------