

## FAILURE MODES AND EFFECTS ANALYSIS/CRITICAL ITEMS LIST

FMEA Number:	OSS-MCS-DTO-003	Originator:	G. Hall/OSS	Project:	ISS. IPT N° 5
Part Name:	MCF Scoop	LRU/ORU Part #:	SEG33107677-301	Quantity:	2
Part #:	SEG33107677-301	LRU/ORU Part Name:	MCF Scoop	System:	EVA
LSC Control #	SPCM	Drawing/Ref Designator:		Subsystem:	Tools
Zone/Location:	Payload Bay	Effectivity/Affect Stage:	STS-80 DTO		

### CRITICALITY

Critical Item:	No		Success Paths:	3
Criticality Category:	1R/3		Success Path Remaining:	2
End Item Name:	N/A			
End Item Functional:	N/A			
End Item Capability:	N/A			
End Item Failure Tolerance:	N/A			
<b>REDUNDANCY SCREENS</b>				
A. C/O Prelaunch:	Pass			
B. Detection Flight Crew:	N/A			
C. Loss of Redundancy from Single Cause:	Pass			

Function: (End item and ORU/LRU)	
Tool used by an EVA crewmember to aid in the handling and translation of ORUs with MCFs	
Failure Mode Code:	N/A
Failure Mode:	MCF Scoop inadvertently separates from ORU
Cause:	Spring Failure
Remaining Paths:	1. Second Actuator Spring 2. Collet Spring
Effect/Mission Phase:	EVA
Corrective Action:	Attach redundant tool.

### FAILURE EFFECTS-

End Item/LRU/ORU/Assembly:	Fails to restrain ORU
Subsystem/Next Assembly/Interface:	Mass not restrained
System/End Item/Mission:	N/A
Crew/Vehicle:	Potential injury/damage if mass is released and impacts crewmember or equipment.

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### HAZARD INFORMATION:

Hazard:	Yes	No	X
Hazard Organization Code:	N/A		
Hazard Number:	N/A		
Time to Effect:	Minutes		
Time to Detect:	Seconds		
Time to Correct:	Minutes		
Failure Detection/Flight	Visual		

### REMARKS:

### RATIONALE FOR ACCEPTABILITY

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

Prepared By: G. Hall/OSS

Revision: B

Date: 06/07/96

Waiver Number: N/A