

FAILURE MODES AND EFFECTS ANALYSIS/CRITICAL ITEMS LIST

FMEA Number:	OSS-MS-DTO-003	Originator:	G. Hall/OSS	Project:	ISS, IPT # 5
Part Name:	Micro Scoop	LRU/ORU Part #:	SEG33106330-301	Quantity:	2
Part #:	SEG33106330-301	LRU/ORU Part Name:	Micro Scoop	System:	EVA
ASC Control #:	SPCL	Drawing/Ref Designator:		Subsystem:	Tools
Zone/Location:	Payload Bay	Effectivity/Affect Stage:	STS-80 DTO		

CRITICALITY

Critical Items:	No	Success Paths:	3
Criticality Category:	LR/S	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		
REDUNDANCY SCREENS			
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 Micro Fixtures	
Failure Mode Code: N/A	
Failure Mode:	Micro Scoop inadvertently separates from ORU.
Cause:	Piece part failure, contamination, 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/Orbiter

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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:	06/01/96	Waiver Number:	N/A