

FAILURE MODES AND EFFECTS ANALYSIS

REFERENCE DESIGNATOR:
NAME/QUANTITY:
DRAWING REFERENCE:

ODS
LEVER (OPERATING HANDLE)
LOCKING PARTS (1)
REQD 127260

PROJECT:
LRU NAME/QUANTITY:
LRU PART NUMBER:

ODS CONTINGENCY HARDWARE
ODS CLAMP ASSY (1)
REQD 127245

SUBSYSTEM: EVA Tools
EFFECTIVITY: ALL ORBITERS

FAILURE MODE NUMBER ODSL-9	1R/3	FAILURE EFFECT	FAILURE DETECTION METHOD
FUNCTION The ODS Clamp will be used to hold the two halves of the Space Shuttle/Mir docking module when the bolts holding their flanges are being removed by EVA crewmembers.		END ITEM Lever (operating handle) separates from clamp assembly.	FLIGHT Visual
FAILURE MODE AND CAUSE MODE Failure of lever (operating handle) latch mechanism while releasing clamp. CAUSE(S) 1. Locking mechanism fails. 2. Structural - Ground ruled out.		MISSION None	GROUND Pre-Installation Acceptance Test and/or GET
REUNDANCY SCREENS A - Pass B - Pass C - Pass		CREW / VEHICLE Collision of lever (operating handle) with crew member and/or vehicle.	CORRECTIVE ACTION Crew Training - Crew will be located at a safe distance from the clamp during remote activation of the clamp.
REMAINING PATHS None		INTERFACE None	REMARKS None.
MISSION PHASE	CORRECTIVE ACTION TIMES		
	TIME TO EFFECT	TIME TO CORRECT	
EVA	N/A	N/A	

A-10

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