FAILURE MODES AND EFFECTS ANALYSIS

REFERENCE DESIGNATOR: ODSL
NAME/QUANTITY: EXTENSION SPRING (1)
DRAWING REFERENCE: E0960-059-22685

PROJECT: ODS CONTINGENCY HARDWARE
LRU NAME/QUANTITY: ODS CLAMP ASSY (1)
LRU PART NUMBER: SE0361-27245

SUBSYSTEM EFFECTIVITY: EVA Tools ALL ORBITERS

FAILURE MODE NUMBER	CRITICALITY
ODSL-8	1R/3

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.

FAILURE MODE AND CAUSE

MODE

Soft dock assembly fails during clamp release.

CAUSE(S)

Spring fails, releasing locking ball.

REDUNDANCY SCREENS	REMAINING PATHS
A - Pass B - Pass C - Pass	None.

MISSION PHASE	CORRECTIVE ACTION TIMES	
	TIME TO EFFECT	TIME TO CORRECT
EVA	N/A	N/A

FAILURE EFFECT

END ITEM

None

MISSION

None

CREW / VEHICLE

Collision of handle and clamp assembly with crew member and/or orbiter.

INTERFACE

None

FAILURE DETECTION METHOD

FLIGHT

Visual

GROUND

Pre-Installation Acceptance Test and/or CEIT

CORRECTIVE ACTION

Clamp will be tethered during all phases of the operation.

REMARKS

None

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DATE: 5/12/95