

## FAILURE MODES AND EFFECTS ANALYSIS

REFERENCE DESIGNATOR:  
NAME/QUANTITY:  
DRAWING REFERENCE:

ODSL  
SOFT DOCK ASSEMBLY (1)  
SED00127245-041

PROJECT:  
LRU NAME/QUANTITY:  
LRU PART NUMBER:

ODS CONTINGENCY HARDWARE  
ODS CLAMP ASSY (1)  
SED00127245

SUBSYSTEM: EVA Tools  
EFFECTIVITY: ALL ORIGINALS

FAILURE MODE NUMBER ODSL-3	1FV3	FAILURE EFFECT	FAILURE DETECTION METHOD
<b>FUNCTION</b>  The ODS Clamp will be used to hold the two halves of the Space Shuttle/Orbiter docking module when the bolts holding their flanges are being removed by EVA crewmembers.		<b>END ITEM</b>  Can not release clamp from docking module.	<b>FLIGHT</b> Visual
<b>FAILURE MODE AND CAUSE MODE</b>  Unable to release clamp from gusset.		<b>MISSION</b>  None	<b>GROUND</b> Pre-Installation Acceptance Test and/or CEIT
<b>CAUSE(S)</b>  Soft dock assembly fails in the locked position.		<b>CREW / VEHICLE</b>  Damage to Orbiter if clamp comes loose during entry/landing.	<b>CORRECTIVE ACTION</b>  - Close jaws of clamp - Insert lever (operating handle) locking pin - Tighten load relief bolt until secure
<b>REDUNDANCY SCREENS</b>  A - Pass B - Pass C - Pass	<b>REMAINING PATHS</b>  None	<b>INTERFACE</b>  None	<b>REMARKS</b> Possible contingencies: 1. Remove screws to release soft dock mechanism 2. Tether clamp in place during entry
<b>MISSION PHASE</b>	<b>CORRECTIVE ACTION TIMES</b>		
	<b>TIME TO EFFECT</b>	<b>TIME TO CORRECT</b>	
EVA	N/A	N/A	