

FAILURE MODES AND EFFECTS ANALYSIS

REFERENCE DESIGNATOR:
NAME/QUANTITY:
DRAWING REFERENCE:

ODSL
SOFT DOCK ASSEMBLY (1)
SECTION 127245 311

PROJECT:
APU NAME/QUANTITY:
PART PRINT NUMBER:

ODS CONTINGENCY HARDWARE
ODS CLAMP ASSY (1)
SECTION 127245

SUBSYSTEM EFFECTIVITY
EVA Unit 1
A11 ORBIT 45

| FAILURE MODE NUMBER ODSL-2 | CRITICALITY 1R/3 | FAILURE EFFECT | FAILURE DETECTION METHOD |
|---|---|---|--|
| <p>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.</p> | | <p>END ITEM None</p> <p>MISSION None</p> <p>CREW / VEHICLE Clamp not rigidly secured.</p> <p>INTERFACE None</p> | <p>FLIGHT Visual</p> |
| <p>FAILURE MODE AND CAUSE MODE: Unable to attach clamp to gusset (i.e., soft dock).</p> | | | |
| <p>CAUSE(S) Soft dock assembly fails.</p> | | | <p>CORRECTIVE ACTION</p> <ul style="list-style-type: none"> • Clamp can still be placed over gusset and clamped to flange. • Additional tethering of clamp. |
| <p>REUNDANCY SCREENS A - Pass B - Pass C - Pass</p> | <p>REMAINING PARTS None.</p> | | <p>REMARKS None</p> |
| <p>MISSION PHASE</p> | <p>CORRECTIVE ACTION TIMES</p> | | |
| | <p>TIME TO EFFECT</p> | <p>TIME TO CORRECT</p> | |
| <p>EVA</p> | <p>N/A</p> | <p>N/A</p> | |

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APP-ODS - 2

DATE: 5/12/95