

NON-CIL 1R ITEMS

SYSTEM: Electrical

REV & DATE: J, 12-19-97

SUBSYSTEM: Feedthru Receptacles

DCN & DATE:

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Per NSTS 22206, certain failure modes of the following items in subsystem 3.11 (Feedthru Receptacles) meet the criteria to be designated "Non-CIL 1R". Rationale for Retention is not required.

FMEA Item Codes: 3.11.1.3 and 3.11.5.3.

CRITICAL ITEMS LIST (CIL)

SYSTEM: Electrical  
 SUBSYSTEM: LH2 Forward Feedthru Receptacle  
 REV & DATE: J, 12-19-97  
 DCN & DATE:  
 ANALYSTS: J. Kent/A. Oser

FUNCTIONAL CRIT: 1R  
 PHASE(S): a  
 HAZARD REF: E.01

FAILURE MODE: High Resistance (Within False Dry Band)

FAILURE EFFECT: a) Loss of mission and vehicle/crew due to fire/explosion caused by LH2 flowing out of vent valve.

TIME TO EFFECT: Seconds

FAILURE CAUSE(S): Faulty Pin

REDUNDANCY SCREENS: Screen A: PASS  
 Screen B: N/A  
 Screen C: PASS

FUNCTIONAL DESCRIPTION: The cryogenic feedthru connector provides the electrical connection between the temperature and level sensors in the LH2 tank and the external harnesses.

<u>FMEA ITEM CODE(S)</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY</u>	<u>EFFECTIVITY</u>
3.11.5.3	81L2-2 (302A01 J1, J2)	Feedthru Receptacle	1	LWT-54 & Up

REMARKS: Item meets criteria for Non-CIL 1R. Rationale for Retention is not required.