

NON-CIL 1R ITEMS

SYSTEM: Electrical
SUBSYSTEM: L02 Level System

REV & DATE: J, 12-19-97

DCN & DATE:

Per NSTS 22206, certain failure modes of the following items in subsystem 3.1 (L02 Level System) meet the criteria to be designated "Non-CIL 1R". Rationale for Retention is not required.

FMEA Item Codes: 3.1.2.2, 3.1.3.2, 3.1.4.2, 3.1.5.2, 3.1.6.2, 3.1.7.3, 3.1.8.3, 3.1.9.3 and 3.1.10.3.

CRITICAL ITEMS LIST (CIL)

SYSTEM: Electrical
 SUBSYSTEM: L02 Level System
 REV & DATE: J, 12-19-97
 DCN & DATE:
 ANALYSTS: R. Lunden/A. Oser

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

FAILURE MODE: Fails with False Dry Signal
 FAILURE EFFECT: a) Loss of mission and vehicle/crew due to fire/explosion caused by L02 flowing out of vent valve.
 TIME TO EFFECT: Minutes
 FAILURE CAUSE(S): Increase in Circuit Resistance
 REDUNDANCY SCREENS: Screen A: PASS
 Screen B: N/A - Item nonfunctional in flight.
 Screen C: PASS
 FUNCTIONAL DESCRIPTION: Harnesses route the excitation current and return functions between the ET/Orbiter interface and each level sensor.

<u>FMEA ITEM CODE(S)</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY</u>	<u>EFFECTIVITY</u>
3.1.7.3	80931003704-479 (326W01 P1/Splices)	Harnesses	1	LWT-54 & Up
3.1.8.3	80931003704-430 (327W01 P1/P2/P3) -490	Harnesses	1	LWT-54 thru 56
3.1.9.3	80933003704-380 (314W02 J1/J2/J3/J4) -550	Harnesses	1	LWT-54 thru 88
3.1.10.3	80931003704-420 (305W01 P2/P4/J23/J33) -520	Harnesses	1	LWT-54 thru 88

REMARKS: These harnesses are grouped as the failure mode, cause and effects are the same. Items meet criteria for Non-CIL 1R. Rationale for Retention is not required.