

CRITICAL ITEMS LIST (CIL)

SYSTEM:	Thermal Protection System	FUNCTIONAL CRIT:	1
SUBSYSTEM:	Components	PHASE(S):	b
REV & DATE:	J, 12-19-97	HAZARD REF:	1.02
DCN & DATE:			
ANALYSTS:	B. Burkes/R. Lauto		

FAILURE MODE: Loss of SLA Material

FAILURE EFFECT: b) Loss of mission and vehicle/crew due to debris impacting orbiter in critical areas.

TIME TO EFFECT: Seconds

FAILURE CAUSE(S):  
 A: Material Deficiency  
 B: Process Deficiency

REDUNDANCY SCREENS: Not Applicable

FUNCTIONAL DESCRIPTION: This ablative material provides protection for the LO2 feedline and GH2 pressline fairings from high aerodynamic heating during ascent.

<u>FMEA ITEM</u> <u>CODE(S)</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY</u>	<u>EFFECTIVITY</u>
5.8.23.1	B0971028427	Fairing Assy, LO2 Feedline	1	LWT-54 & Up

REMARKS:

CRITICAL ITEMS LIST (CIL)  
CONTINUATION SHEET

SYSTEM: Thermal Protection System  
SUBSYSTEM: Components  
PNEA ITEM CODE(S): 5.8.23.1

REV & DATE: J, 12-19-97  
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RATIONALE FOR RETENTION

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STP1506, 1509, 1510, 3001 and 3003 are applicable to these PNEA Item Codes. See Page 1 for Retention Rationale specified by these STP's. The following additional Retention Rationale is also applicable to these PNEA Item Codes:

DESIGN:

No additional Rationale for Retention is applicable.

TEST:

The LD2 Feedline Fairing SLA Applications are certified. Reference HCS's MMC-ET-TX08-L-T018 and T505. Refer to the HCS(s) for effectivity data applicable to specific part numbers and material type.

INSPECTION:

No additional Rationale for Retention is applicable.

FAILURE HISTORY:

Current data on test failures, unexplained anomalies and other failures experienced during ground processing activity can be found in the PRACA data base.