CRITICAL ITEMS LIST (CIL)

SYSTEM:	Thermal Protection System	FUNCTIONAL CRIT:	1
SUBSYSTEM:	Components	PHASE(S):	b
REV & DATE:	J, 12-19-97	HAZARD REF:	T.02
DCN & DATE:			
ANALYSTS:	B. Burkes/R. Lauto		

FAILURE MODE: Loss of SOFI 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 SOFI insulates the ET/SRB cable fairings to prevent prelaunch ice formation.

FMEA ITEM CODE(S)	PART NO.	PART NAME	QTY	EFFECTIVITY
5.8.36.1	80971009442	Fairing, ET/SRB Aft, Foam Appl	2	LWT-54 & Up
	80971029440	TPS Closeout Offsite (Views R & S)	1	LWT-54 thru 63
	80971029440	TPS Closeout Offsite (Views BF, BG, & BL)	1	LWT-64 & Up

REMARKS: The aft ET/SRB TPS applications are grouped as the failure mode, causes and effects are the same.

SYSTEM:	Thermal Protection System	REV & DATE:	J, 12-19-97
SUBSYSTEM:	Components	DCN & DATE:	
FMEA ITEM CODE(S):	5.8.36.1		

RATIONALE FOR RETENTION

STP1513, 1518, 1532, 1536 and 6014 are applicable to this FMEA Item Code. See Page 1 for Retention Rationale specified by these STP's. The following additional Retention Rationale is also applicable to this FMEA Item Code:

DESIGN:

No additional Rationale for Retention is applicable.

TEST:

The Aft ET/SRB TPS Applications are certified. Reference MCS's MMC-ET-TMCS-L-T019, T022, T503, T504 and T507. Refer to the MCS(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.