
FAILURE MODE EFFECTS ANALYSIS/CRITICAL ITEMS LIST

MEA NUMBER: HMLA-1	ORIGINATOR: JSC	PROJECT: GFE Orbiter
PART NAME: Thermostat	LRU PART NUMBER: SED39126030-301	QUANTITY: 4 per LRU
PART NUMBER: OO-SS-SCORP160FSHT	LRU PART NAME: EMU Helmet Light Assembly	SYSTEM: DTO 671
DRAWING: SED39126041	SUBSYSTEM: NA	EFFECTIVITY: STS-69

CRITICALITY:CRITICAL ITEM? YES NO CRITICALITY CATEGORY: 1R3**REDUNDANCY SCREENS:**

A - PASS
 B - PASS
 C - PASS

FUNCTION: Opens circuit to prevent battery temperature from exceeding 160° F

FAILURE MODE: Thermostat fails to open

CAUSE: Defective piece part

FAILURE DETECTION: None

REMAINING PATHS: Secondary thermostat will open circuit EFFECT/MISSION PHASE: EVA

CORRECTIVE ACTION: None

-FAILURE EFFECTS-

END ITEM: Upon failure of first thermostat, none.

Upon failure of second thermostat, none. However, if a condition subsequently arises causing overheating, venting of battery electrolyte may occur.

INTERFACE: None

MISSION: None. Other lights available (i.e. other side of EMU Light Assy., second crew member's EMU Light Assy., or payload bay lights.)

CREW/VEHICLE: None

FAILURE MODE EFFECTS ANALYSIS CRITICAL ITEMS LIST

EA NUMBER: EMLA-1	ORIGINATOR: JSC	PROJECT: GFE Orbiter
RT NAME: Thermostat	LRU PART NUMBER: SED39126030-301	QUANTITY: 4 per LRU
RT NUMBER: OO-SS-SCORP160 FSH	LRU PART NAME: EMU Helmet Light Assembly	SYSTEM: D70671
DRAWING: SED39126030	SUBSYSTEM: N/A	EFFECTIVITY: STS-59

HAZARD INFORMATION:

HAZARD: YES _____ NO X

HAZARD ORGANIZATION CODE: N/A

HAZARD NUMBER: N/A

TIME TO EFFECT: N/A

TIME TO DEFECT: N/A

TIME TO CORRECT: N/A

REMARKS: None

-RETENTION RATIONALE-

A) DESIGN: N/A

B) TEST: N/A

C) INSPECTION: N/A

D) FAILURE HISTORY: N/A

E) OPERATIONAL USE: N/A

PREPARED BY: J. Holt

REVISION:

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