

SAA09HSLD1-001
REV. C

O/L: 320.10, 320.20
SYS: Orbiter
Postlanding
Booms and
GSE Trans-
porter Trailers

Critical Item: Circuit Breaker (1/PPU Trailer, 3 Total)
Find Number: NA
Criticality Category: 15

MAR 24 1993

SAA No: 09HSLD1-001/C

System/Area: Orbiter Postlanding Booms and
GSE Transporter Trailers/
SLF, SLS-1, SLS-2

NASA Part No: NA

PMN/ Name: A70-0844/Orbiter Postlanding
PPU Transporter Trailer

Mfg/ Part No: ITE/
KM3-B800

Drawing/ Sheet No: 79K09855/
19

Function: Provides circuit overload protection and controls power to the PPU.

Critical Failure Mode/Failure Mode No: Premature Trip/09HSLD1-001.004

Failure Cause: Internal Structural Failure

Failure Effect: Loss of power to the PPU. Loss of conditioned air flow to the Orbiter. Unable to delocalize and evacuate hazardous gases in the event of a leak within the Orbiter. Possible fire or explosion.

Possible loss of life and/or vehicle in the event of a hazardous condition.

Time to effect: Immediate.

Detection method: Shutdown of PPU.

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ACCEPTANCE RATIONALE

Design:

Rated	Trip Set	Estimated Maximum Operating Load
800 Amp	800 Amp	625 Amp

Test:

- The OMRSD File VI requires time/current trip test and insulation resistance test performed prior to installation and after fault (ref. GP1002, Maintenance Test Criteria for Circuit Breakers).

Inspection:

- OMRSD File VI requires inspection and maintenance per GP1002. Operations will verify status of breaker prior to use (Postlanding Ops OMI).

Failure History:

- The PRACA database was researched and no failure data was found on this component in the critical failure mode.
- The SIDEP failure data interchange system was researched and no failure data was found on this component in the critical failure mode.

Operational Use:

- Correcting Action:
There is no action which can be taken to mitigate the failure effect.
- Timeframe:
Since no correcting action is available, timeframe does not apply.

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