USA Ground Operations CIL Sheet

Critical Item: Circuit Breaker
Criticality Category: 1S
NASA Part No: None
Total Quantity: 1
Mfg/Part No: General Electric / TJK636F500
System: 60 Hertz Low Voltage Power System

Find No.	Qty	Area	PMN	Baseline	Drawing / Sheet
Panel PC/ CB-3	1	Pad-B	K61-1663	353.25	39K6150023 / 101

Function:

Provides circuit overload protection for Panel PC-1, PC-2, MLP, and flame trench cells purge fan motors.

Failure Mode No. Failure Mode	Failure Cause Failure Effect	Detection Method Time to Effect	Crit Cat
09ELB2-001.002 Premature Trip	Internal piece part structural failure Loss of power to PC-1, PC-2 and remote-air-intake pressurization fans. Loss of temperature and humidity control in the PCR. Loss of cooling air to critical electronic equipment. Loss of PCR, PTCR and MLP hazardous purge. Failure could allow loss of life and vehicle during hazardous conditions.	HVAC monitored by CCS Variable w/ ambient temp/ humidity	1S

ACCEPTANCE RATIONALE

Design:

- Rated: 600A Estimated Load: 240 Amps Trip Set: 500
- Environment is normal for application.
- Circuit breaker is used throughout industry.
- Draw-out Type Breaker

Test:

- OMRSD File VI requires Time/Current trip tests and insulation resistance test performed prior to installation and after a fault per NETA-MTS.

Inspection:

- OMRSD File VI requires inspection and maintenance prior to installation and after a fault per NETA-MTS.

Failure History:

- Current data on test failures, unexplained anomalies, and other failures experienced during ground processing activities can be found in the PRACA database. The PRACA database was researched and no data was found on this component in the critical failure mode.

Operational Use:

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