

USA Ground Operations CIL Sheet

Critical Item: Freeway
NASA Part No: None
Mfg/Part No: Simpact / Freeway 4000
System: Shuttle Data Center

Criticality Category: 1
Total Quantity: 4

Find No.	Qty	Area	PMN	Baseline	Drawing / Sheet
M03A11	1	LCC	L72-6010	091.10	80K06003 / 8
M03A17	1	LCC	L72-6010	091.10	80K06003 / 8
M03A23	1	LCC	L72-6010	091.10	80K06003 / 8
M03A29	1	LCC	L72-6010	091.10	80K06003 / 8

Function:

LPS interface for performing retrievals from a CCMS firing room set.

Failure Mode No. Failure Mode	Failure Cause Failure Effect	Detection Method Time to Effect	Crit Cat
09IT09-010.006 Corruption of data	Electrical failure / product defect / software error Possible presentation of invalid data upon user retrieval. Making a critical decision based on invalid data could result in loss of life/vehicle.	None Seconds	1

ACCEPTANCE RATIONALE**Design:**

- The equipment is designed to industry standards.
- UL, CSA, FCC, and CE approved.
- Utilizes multiple layers of error checking to detect corrupt data packets. Reference document number 84K06007, Shuttle Data Center (SDC) DCR White Paper, for additional SDC network communication attributes and features.

Test:

- Validation testing performed prior to operational use.

Inspection:

- There are no inspections performed.

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.