USA Ground Operations CIL Sheet DEC 15 1999

Critical Item: Fuse, 10 Amp
Criticality Category: 1S
NASA Part No: None
Total Quantity: 8
Mfg/Part No: Amp Trap / ATDR 10
System: FSS Electrical Passenger Elevators

Find No.	Qty	Area	PMN	Baseline	Drawing / Sheet
F13	1	Pad-A	K60-0597-01	420.00	E835004E /
F13	1	Pad-A	K60-0597-02	420.00	E835004E /
F13	1	Pad-B	K60-0597-06	420.00	E828803D /
F13	1	Pad-B	K60-0597-07	420.00	E828803D /
F4	1	Pad-A	K60-0597-01	420.00	E835004E /
F4	1	Pad-A	K60-0597-02	420.00	E835004E /
F4	1	Pad-B	K60-0597-06	420.00	E828803D /
F4	1	Pad-B	K60-0597-07	420.00	E828803D /

Function:

Provide overcurrent protection to Brake Circuit.

Failure Mode No. Failure Mode	Failure Cause Failure Effect	Detection Method Time to Effect	Crit Cat
09FY018-001.273 Premature operation	Internal piece part failure. Possible loss of car mobility and/or failure of door operation. Loss of elevator function would prevent / delay ingress of rescue personnel during Flight Crew /Red Crew/Close-Out Crew rescue operations. Possible entrapment of personnel during hazardous fuel spill or fire.	Loss of car mobility. Immediate	1S

ACCEPTANCE RATIONALE

Design:

- This fuse is typical equipment used in industry for the intended application.
- The design of the FSS elevator systems are consistent with ASME A17.1 (1994) Safety Code For Elevators And Escalators.

Test:

- The State of Florida requires bi-annual elevator inspection and certification.
- Annual testing and certification of elevators is performed per ANSI/ASME A17.1.
- OMRSD File VI requires that the FSS elevators are functionally tested (Ref. OMI S0007VL2) at T-8 hours.
- The Pad Close-out Crew performs additional functional check-out at T-25 Minutes.

Inspection:

- OMI Q3018 requires inspection and functional test after each launch.
- OMI Q6009 requires monthly inspection of Pad Electrical Passenger Elevators.

Failure History:

- Failures have been experienced with the elevator systems, however they have been attributed to burn-in type causes which do not represent current elevator operation. Critical failure modes identified are not represented in the burn-in type failures experienced.

- 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

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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.