S050234HV
Attachment 2
Sheet 11 of 14
OCT 27 1998

USA Ground Operations CIL Sheet

SAA09SY13B-001
Rev. B

Critical Item: Relief valve
NASA Part No: None
Mfg/Part No: Fluid Mechanics Valve Co. / 151302-2110
System: Facility Potable Water System

Criticality Category: 1S
Total Quantity: 1

Find No.	Qty	Area	PMN	Baseline	Drawing / Sheet
A37561	1	Pad-B	K60-0620	427.01	79K4000 / 5

Function:

Provides capability to pressure from Tank T-4 if it exceeds 300 psi.

Failure Mode No. Failure Mode	Failure Cause Failure Effect	Detection Method Time to Effect	Crit Cat
09SY13B-001 019	Structural failure or corrosion	Visual	1S
Fails open	Excessive bleeding off of tank pressure, resulting in low system pressure. Loss of water supply to MLP interface. Possible loss of life during hazardous condition.	Immediate	

ACCEPTANCE RATIONALE

Design:

- Rated pressure: 100-2500 psig
- Actual pressure: 300 psig
- Valve style: Cast bonnet, screwed construction
- Maximum orifice diameter: 0.375 inches
- Valve material: Stainless steel 316
- Seat material: Teflon
- Hood style: No lift lever

Test:

- System premission validation (OMI M2072) requires verification of proper tank T-4 pressure, and safety facilities flow tested for adequate pressure.

- OMRSD File VI requires verification of proper operation semi-annually and at component replacement.

Inspection:

- OMI M6009 visually inspects A37561 relief valve for corrosion or any other anomalies during semiannual inspection.

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:

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