

5050234HV
 Attachment 2
 Sheet 12 of 14
 OCT 27 1998

SAA09SY13L0-001

USA Ground Operations CIL Sheet

Critical Item: Pressure Regulator
 NASA Part No: None
 Mfg/Part No: Watts Regulator Company / Series 223
 System: Potable Water System

Criticality Category: 1S
 Total Quantity: 3

Find No.	Qty	Area	PMN	Baseline	Drawing / Sheet
AS20752	1	MLP-1	KB1-2921	427.01	80K56359 / 2
AS20752	1	MLP-2	KB1-2922	427.01	80K56359 / 3
AS20752	1	MLP-3	KB1-2923	427.01	80K56359 / 4

Function:

Regulates water pressure to safety facilities on the MLP when the MLP is mated to the Pad, VAB, or Parksite East potable water system.

Failure Mode No. Failure Mode	Failure Cause Failure Effect	Detection Method Time to Effect	Crit Cat.
09SY13L0-001.001	Structural failure or corrosion	Visual	1S
Regulates low	Inadequate water supply pressure to the MLP fire sprinkler heads. Possible loss of life in the event of fire.	Immediate	

ACCEPTANCE RATIONALE

Design:

- Designed to ANSI requirements.
- Body material: Bronze
- Maximum inlet pressure: Rated: 300 psig Actual: 185 +/- 5 psig
- Reduced pressure range: Rated: 25-75 psig Actual: 50 +/- 5 psig

Test:

- Semiannual performance of OMI M2087 tests the capability of the system to provide water flow at prescribed pressure and verifies operation of the eyewash fountains and safety showers.
- OMRSD File VI requires verification of proper operation semi-annually and at component replacement.

Inspection:

- Semiannual visual inspection for corrosion is performed per OMI M2087.

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.