

3050234HV
Attachment 2
Sheet 6 of 14
OCT 27 1998

USA Ground Operations CIL Sheet

SAA08SY13-001
Rev. C

Critical Item: Check valve
NASA Part No: None
Mfg/Part No: ITT Grinnell / Fig. #6340A
System: Facility Potable Water System

Criticality Category: 15
Total Quantity: 1

Find No.	Qty	Area	PMN	Baseline	Drawing / Sheet
A505851	1	Pad-A	K60-0619	427.01	79K16270 / 5

Function:

Prevents backflow of freeze protection water into tank T-4.

Failure Mode No. Failure Mode	Failure Cause Failure Effect	Detection Method Time to Effect	Crit Cat
09SY13-001.066 Fails closed	Structural failure or corrosion Loss of potable water supply from tank T-4 resulting in loss of water supply to MLP interface. Possible loss of life during hazardous condition.	Visual Immediate	15

ACCEPTANCE RATIONALE

Design:

- Rated pressure: 500 psig
- Actual pressure setting: 165 +/- 5 psig
- Body material: Cast iron ASTM A-128 Class B
- Bonnet material: Cast iron ASTM A-128 Class B
- Disc: Cast Bronze ASTM B-62
- Seat: Cast Bronze ASTM B-62
- Design: Swing check
- The cleanliness requirements of potable water preclude contamination

Test:

- System premission validation (OMI M2043) requires all eyewashes and safety showers to be checked for proper pressure and operation.
- OMRSD File VI requires verification of proper operation semi-annually and at component replacement.

Inspection:

- OMI M6009 requires the inspection of the system components for evidence of housing leakage and structural integrity semiannually.

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.