

S050234HV
 Attachment 2
 Sheet 9 of 14
 OCT 27 1998

USA Ground Operations CIL Sheet

SAAD9SY138-001
 Rev. B

Critical Item: Check valve
 NASA Part No: None
 Mfg/Part No: Walworth / 5344F
 System: Facility Potable Water System

Criticality Category: 1S
 Total Quantity: 1

Find No.	Qty Area	PMN	Baseline	Drawing / Sheet
A505851	1 Pad-8	K60-0620	427.01	79K40000 / 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
09SY138-001.010 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	1S

ACCEPTANCE RATIONALE

Design:

- Rated pressure: 300 psig
- Actual pressure: 150 psig
- Body material: Cast carbon steel
- Stem: CR13 (13% Chromium Steel)
- Disc: N1-CV (Monel Steel)
- Seat: CR-13 (13% Chromium Steel)
- Design: Swing check
- The cleanliness requirements of potable water preclude contamination

Test:

- System premission validation (OMI M2072) 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.