USA Ground Operations CIL Sheet

Critical Item: Valve, Ball   **Criticality Category:** 1S
NASA Part No: None   **Total Quantity:** 2
Mfg/Part No: Jamesbury / 530S-31-2236MT
System: Facility Water System

Find No.	Qty	Area	PMN	Baseline	Drawing / Sheet
A114420 (V-45)	1	Pad-B	K60-0045-01	007.00	79K40019 / 19
A114426 (V-44)	1	Pad-B	K60-0045-01	007.00	79K40019 / 19

Function:

Controls firex deluge water supply to the spray nozzles protecting the hyper valve sled area on side 2 and on side 4 of the RSS at the 107' level.

Failure Mode No. Failure Mode	Failure Cause Failure Effect	Detection Method Time to Effect	Crit Cat
09SY03B-002.012 Fail Closed	Corrosion, contamination, or failure of internal piece part. Loss of firex water supply to the spray nozzles protecting the hyper valve sled area on side 2 and on side 4 of the RSS at the 107' level. Possible loss of life and/or vehicle during a hazardous condition.	Valve position switch Immediate	1S

ACCEPTANCE RATIONALE

Design:
- Rated working pressure 740 psig.
- Actual working pressure 240 psig.
- Rated temperature (degrees Farenheight) -20 to 100.
- Actual temperature is abient pad temperature.

Test:
- OMI M2067 requires cycling of FSS/RSS water valves to verify proper operation.
- OMRSD, File VI requires verification of the operational function of the water valve in all modes of operatio semiannually and at replacement.

Inspection:
- OMI 6045 requires the inspection of the firex valves for signs of corrosion and/or contamination.

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 failure data was found on this component in the critical failure mode.

- The GIDEP failure data interchange was researched and no failure 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.