

**USA Ground Operations CIL Sheet**

AUG 23 1999

**Critical Item:** Valve, Ball  
**NASA Part No:** None  
**Mfg/Part No:** Jamesbury / 5300-31-2236MT  
**System:** Facility Water System

**Criticality Category:** 1S  
**Total Quantity:** 2

Find No.	Qty	Area	PMN	Baseline	Drawing / Sheet
A114447 (V-47)	1	Pad-A	K60-0045	007.00	79K06011 / 17
A115038 (V-46)	1	Pad-A	K60-0045	007.00	79K06011 / 17

**Function:**

Controls water flow to the firex/deluge spray nozzles in the associated area.

Failure Mode No. Failure Mode	Failure Cause Failure Effect	Detection Method Time to Effect	Crit Cat
09SY03A-001.017  Fail closed	Corrosion, contamination, or failure of internal piece part.  Loss of water flow to the firex/deluge spray nozzles in the associated area. Possible loss of life and/or vehicle during a hazardous condition.	Valve position switch  Immediate	1S

**ACCEPTANCE RATIONALE**

**Design:**

- Complies with ANSI class 300 flanged ball valves.
- 316 stainless steel.
- Rated working pressure 675 psig.
- Actual working pressure 220 psig.
- Rated temperature (degrees Fahrenheit) -20 to 195.
- Actual temperature is ambient 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 operation 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.