

USA Ground Operations CIL Sheet

AUG 23 1999

Critical Item: Valve, Butterfly

Criticality Category: 1S

NASA Part No: None

Total Quantity: 2

Mfg/Part No: McGanna, Inc. / 6 L300-CS-R-S5/R258/SP2

System: Facility Water System

Find No.	Qty	Area	PMN	Baseline	Drawing / Sheet
A114288 (V-57)	1	Pad-A	K60-0053	007.00	79K06011 / 6
A114306 (V-61)	1	Pad-A	K61-2342	007.00	79K06011 / 6

**Function:**

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

Failure Mode No. Failure Mode	Failure Cause Failure Effect	Detection Method Time to Effect	Crit Cat
09SY03A-001.016  Fail closed	Corrosion, contamination, or failure of internal piece part.  Loss of water flow to the fire/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:**

- Rated working pressure 575 psig.
- Actual working pressure 220 psig.
- Rated temperature (degrees Fahrenheit) -20 to 195.
- Actual temperature ambient pad temperature.

**Test:**

- OMI M208B requires cycling of perimeter area water valves to verify proper operation.
- OMRSD, File VI requires verification of the operational function of the water valves in all modes of operation annually and at replacement.

**Inspection:**

- OMI 6045 requires the inspection of the fire 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.