

USA Ground Operations CIL Sheet

Critical Item: Switch
NASA Part No: None
Mfg/Part No: Crouse Hinds / EDSC31272-S349-S634-S602-GB
System: Facility Water System

Criticality Category: 1S
Total Quantity: 1

Find No.	Qty	Area	PMN	Baseline	Drawing / Sheet
6373S19	1	Pad-B	U72-1193-01	007.00	79K40021 / 76

Function:

Provides local capability to close all RSS water valves and power down sub-busses used to provide latching power to parallel relays that open specific RSS water valves.

Failure Mode No. Failure Mode	Failure Cause Failure Effect	Detection Method Time to Effect	Crit Cat
09SY03B-002.026 Fail closed	Corrosion, contamination, or failure of internal piece part. Unable to open any RSS water valve and provide firex water. Possible loss of life and/or vehicle in the event of a hazardous condition.	C-1 console sneak circuit indication Immediate	1S

ACCEPTANCE RATIONALE**Design:**

- Contained in factory sealed explosion proof enclosure that is Class I, Division I, Group B approved.

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. (Note: Water valve operational function verification ensures valve opens which also verifies switch has not failed.)

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.