

SAA09SYW7-001  
B/L: 03.00  
Hyd. Leak  
Detectors

FEB 08 1998  
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Critical Item: Fuse, 3A (17 Items per pad)

Find Number: F1 thru F17

Criticality Category: 1S

SAA No: 09SYW7-001

System/Area: Fixed Hydrogen Leak  
Detection at H.P. GH2  
Facility, Pad 39 A/B

NASA  
Part No: N/A

PMN/  
Name: Fuse, 3A, Red Pin

Mfg/ Bussman  
Part No: AG3

Drawing/ 79K09200  
Sheet No: 92

Function: Provide overload protection for 28V DC input power for hydrogen leak detectors.

Critical Failure Mode/Failure Mode No: Premature open/09SYW7-001.002

Failure Causes: Internal piece part failure

Failure Effect: Loss of power to hydrogen leak detectors. System may fail to detect a hydrogen leak which could result in a fire and/or explosion with loss of life.

#### Acceptance Rationale

Design: These are standard off the shelf, commercial components which have been chosen for this application. The fuses are rated at 3 amp capacity, system requirement are 350 mA maximum.

Test: 79K11321 requires system to be calibrated semi-annually.

File VI requires a system test be performed prior to each mission. (OMI M3020)

Inspection: Inspection and preventative maintenance is performed on the hydrogen leak detector system quarterly. (OMI-V3541)

WORKSHEET 5122-012  
900104hsM3-1012

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Fuse, 3A (Continued)

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Failure History:

- o The PRACA database was queried and no failure data was retrieved against this component.
- o The GIDEP failure data interchange system has been researched and no failures of this component were found.

Operational Use:

- o Correcting Action:

There is no action which can be taken to mitigate the failure effect.

- o Timeframe:

Since no correcting action is available, timeframe does not apply.