DEC 1 1995

B/L: 094.00
SYS: Compressed Air
For Firex Diesel

| Critical Item: | Water Trap/separator (1 Item Total) |
| Find Number: | WS-3 |
| Criticality Category: | 1S |

| SAA No: | 09GS08-004 | System/Area: | Compressed Air for Firex Diesel Start |
| NASA Part No: | None | PMN/ Name: | K61-3414/Compressed Air for Firex Diesel Start |
| Mfg/ Part No: | SPIRAX SARCO/ FA-150 | Drawing/ Sheet No: | 80K50638/8 |

Function: Remove/separate water from the compressed air system.

Critical Failure Mode/Failure Mode No: Fail open/09GS08-004 003

Failure Cause: Structural failure or contamination

Failure Effect: Loss of Firex Diesel Start capability. This failure could cause loss of life, vehicle and/or loss (damage) of a vehicle system if coupled with a fire/hazardous condition. Failure is detected by low pressure indication at the CCS console. Time to effect is immediate.

## ACCEPTANCE RATIONALE

Design:

- Component is an off the shelf item.

- Component has cast iron body, stainless steel float, head seat and mechanism.

- When closed, condensate level is maintained above the main valve seat and acts as a seal to prevent loss of air.

Test:

- OMRS File VI requires annual performance of a functional test.

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**Inspection:**

- The following procedure is performed weekly per PMI M-24.

    - Drain condensate from traps and receivers.

- The following procedures are performed annually per PMI M-24.

    - Disassemble, clean and reassemble trap.

    - Verify proper operation.

**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:

    Notify personnel to take immediate action to close trap.

- Timeframe:

    One hour maximum