SAA09FT01-016

SEP 11 1995

B/L: 306.03
SYS: Up-Right XL-19C Adjustable Height Mobile Access Stand

Critical Item: Diode (1 Item Total)

Find Number: D4

Criticality Category: 2

SAA No:	09FT01-016	**System/Area:**	Up-Right XL-19C Adjustable Height Mobile Access Stand/ VAB and RPSF
NASA Part No:	None	**PMN/ Name:**	A77-1214-02 Up-Right XL-19C Adjustable Height Mobile Access Stand
Mfg/ Part No:	Up-Right 29825-002	**Drawing/ Sheet No:**	63350 3 of 7

Function: Enables motor start relay CR1 to provide hydraulic power for forward drive function when forward coil is activated. Prevents power to forward coil when reverse or up is commanded.

Critical Failure Mode/Failure Mode No: Fails Short/09FT01-016.006

Failure Cause: Fatigue,Internal Structural Failure

Failure Effect: Power to forward drive coil or up coil can be activated when reverse is commanded. Possible contact with flight hardware could cause loss (damage) to a vehicle system. Detection method is visual. Time to effect is immediate.

ACCEPTANCE RATIONALE

Design:

- Component rated for 3 Amps at 400 volts and system operates at 24 volts and 1.5 Amps
- Electrical system has a 15 Amp fuse to protect against overcurrent.
- In accordance with ANSI A92.6, American National Standard for Self Propelled Elevating Work Platforms.

Test:

- File VI requires that an operational check of all modes, including forward and reverse drive functions, prior to operational use in close proximity to flight hardware.

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An operational check of all modes, including forward and reverse drive functions, are performed monthly in OMI B6231.

spection:

- Visual inspection wear and missing or loose hardware is performed semiannually per OMI B6231.
- Visual inspection of the mobile access stand for damage or corrosion is performed monthly per OMI B6231.
- Visual inspection for defects, such as loose connections and damaged cables, is performed prior to operational use per OMI T5002.

ailure 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.

perational Use:

- Correcting Action:

  Joystick to Neutral, Deadman Switch, or E-Stop

- Timeframe:

  Seconds

Attachment
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