

F-15SA Hazard Worksheet

Hazard # SA49-14b

Last Update: 3/15/2024

Effectivity: Production BCU3

Software: No

Component/Function/Task

New and unique electronic equipment for F-15SA
MIDS JTRS

MIL-STD: 882E

Hazard Description

Flight worthiness issues –

- Electrical faults, shorts, overcurrent, overheat, and/or material compatibility issues contribute to internal LRU damage.

Hazard Cause

- 1) Design unable to withstand F-15 operational environment.
- 2) Equipment faults.
- 3) Installation errors.

Hazard Effect

Minor damage to equipment or minor personal injury

Phase: ALL

Initial Risk: **HAZ CLASS:** III - Marginal **HAZ PROB:** D - Remote **RISK:** 14

Hazard Action:

1. Ensure equipment is qualified to F-15 environmental requirements.
2. Ensure TO data provides adequate installation procedures.
3. Provide LRU enclosure that limits propagation to other equipment.

Current Risk: **HAZ CLASS:** III - Marginal **HAZ PROB:** D - Remote **RISK:** 14

Final Risk: **HAZ CLASS:** III - Marginal **HAZ PROB:** D - Remote **RISK:** 14

Hazard Status: Monitor

Remarks:

Action 3: All aircraft LRUs are enclosed in a chassis/cover.

Severity: Based on potential dollar value damage to individual LRUs.

Probability: Qualitative assessment based on USAF F-15 mishap history, where relevant incidents indicate that electronic/electrical issues within an LRU cause damage that is limited to the LRU.

References:

1) MIDS JTRS Qual Assessment.doc

Linked Hazards: MIDS JTRS 601

Revision History:

- 05/23/2022: Hazard Initiation
- 03/15/2024 – Hazard Status updated to MONITOR