

# F-15SA Hazard Worksheet

Note: This hazard is deleted. The analysis now indicates that no hazard exists.

Replaced with SA49-14f

**Hazard #** SA42-07

**Last Update:** 5/23/2022

**Effectivity:** Production BCU3

**Software:** No

**Component/Function/Task**

New and unique electronic equipment for F-15SA  
MIDS JTRS  
DEWS (Blanker Wiring)

**MIL-STD:** 882D

**Hazard Description**

EMI-induced effects from new equipment for F-15SA could induce spurious Electronic Flight Control System (EFCS) and/or Terrain Following commands.

**Hazard Cause**

Undesired EM emissions and susceptibility.

**Hazard Effect**

Potential ground impact and loss of aircraft if at low altitude.

**Phase:** FLIGHT

**Initial Risk:**      **HAZ CLASS:** I - Catastrophic      **HAZ PROB:** E - Improbable      **RISK:** 12

**Hazard Action:**

1. Ensure all new and unique electronic equipment is qualified to F-15 EMI requirements.
2. Apply F-15 standard wire bundle shielding practices to new F-15SA wire bundles.
3. Conduct EMI Safety Of Flight testing on flight test aircraft to ensure EMI compatibility at the aircraft.

**Current Risk:**      **HAZ CLASS:** I - Catastrophic      **HAZ PROB:** E - Improbable      **RISK:** 12

**Final Risk:**      **HAZ CLASS:** I - Catastrophic      **HAZ PROB:** E - Improbable      **RISK:** 12

**Hazard Status:** Eliminated

**Remarks:**

**Action 2:** Completed, Boeing uses its F-15 standard wire bundle shielding practices for the F-15SA.

Severity: Based on extreme EMI effects on the EFCS and/or Terrain Following system while at low altitude with no time for aircrew reaction.

Probability: Based on EMI qualification and testing ensuring that EMI emissions and susceptibility are controlled. There are no mishaps of this nature in USAF F-15 mishap history.

**References:**

1) N/A

**Linked Hazards:** QA49-01

**Revision History:**

- 05/23/2022: Hazard Initiation