Threat Representation – System Threat Assessment Example

Example 1 – Sea Shark

1.3.4 System Threat Assessment

The System Threat Assessment Report (STAR) contains the Defense Intelligence Agency-validated threat to the Sea Shark weapon systems and was validated in 2013. This threat assessment also considered fleet procedures for air defense at sea.

Threats of most interest for evaluation during operational testing of the Sea Shark are:

- Anti-Ship Cruise Missiles
- Infrared or laser-guided rockets and munitions
- Airborne fighters and bombers
- GPS jammers
- Cyber security exploitation

Example 2 - Dakota

1.3.4 System Threat Assessment

The Dakota Threat Assessment Report (STAR) prepared by the Intelligence Division, U.S. Army Aviation and Missile Command, contains the Defense Intelligence Agency-validated threat to Dakota. The Dakota STAR was validated in April of 2010. This threat assessment also considered Analysis of Alternatives, the Dakota Operational Mission Summary/Mission Profile, and FM 3-04.126, Attack Reconnaissance Helicopter Operations.

Threats of most interest for evaluation during operational and live fire testing of the Dakota helicopter are:

- Man-Portable Air Defense Systems
- Laser-guided munitions
- Laser Designators
- Ballistic weapons including rifles, machine guns, rocket propelled grenades, and tank rounds
- Forward echelon mobile radar air defense systems
- GPS jammers
- Cyber security exploitation

Targets of most interest to operational and live fire testing of the Dakota helicopter are:

- Ground forces (infantry, artillery, armor, command and control headquarters)

- Armored vehicles (tank and armored personnel carriers)

- Wheeled vehicles

- Fast boat formations at sea

- Unmanned aircraft

Example 3 – F-35 Joint Strike Fighter (JSF)

1.3.4 System Threat Assessment

The System Threat Assessment Report (STAR) for the F-35 Joint Strike Fighter contains the Defense Intelligence Agency-validated threat to the JSF weapon systems and was validated in 2013.

Threats of highest interest for evaluation during operational and live fire testing of the JSF are:

- Fighter Aircraft

- Radar-guided and infrared-guided air-to-air missiles s

- Mobile and fixed site radar surface-to-air missile (SAM) systems

- Radar, communications, and GPS jammers

- Cyber security exploitation

Targets of most interest to operational and live fire testing of the F-35 JSF are:

- Mobile and fixed site SAM systems

- Fighter aircraft

- Armored vehicles (tank and armored personnel carriers)

- Bunkers

- Buildings

Example 4 – AC-130J

1.3.4 System Threat Assessment

The AC-130J System Threat Assessment Report (STAR) contains the Defense Intelligence Agency-validated threat to the AC-130J weapon systems and was validated in 2013. This threat assessment also considered the Integrated Technical Evaluation and Analysis of Multiple Sources (ITEAMS) and the Joint Country Operating Force Assessment (JCOFA).

Threats of most interest for evaluation during operational and live fire testing of the AC-130J are:

- Air-to-Air infrared or laser-guided munitions

- Mobile and fixed site radar air defense systems
- GPS jammers
- Cyber security exploitation

Example 5 – Generic Air-to-Air Missile (GAAM)

1.3.4 System Threat Assessment

The GAAM System Threat Assessment Report (STAR) contains the Defense Intelligence Agency-validated threat and was published in XXXX.

Threats of most interest for evaluation during operational and live fire testing of the GAAM are:

- Modern stealthy fighters
- Modern DRFM electronic attack
- GPS jammers
- Infrared flares.