The Joint Threat Emitter offers “True” Warfighter Training for the combat aircrews and provides a modern, reactive battlespace war environment, designed to help train military personnel to identify and effectively counter enemy missile or artillery threats. A multi-threat, high-fidelity simulator with realistic effective radiated power levels, the JTE simulates both single and double digit Surface-to-Air and Anti-Aircraft Artillery radar systems and accurately trains combat aircrews to defeat or avoid Integrated Air Defense Systems (IADS) around the world in a war-like training environment.

What is a Joint Threat Emitter (JTE)?

- JTE is a mobile air defense threat simulator that enables aircrews to train in threat environments matching actual combat conditions.
- Each JTE can simulate up to six threat systems and multiple JTEs can be integrated and controlled in a coordinated manner to simulate hostile Integrated Air Defense Systems (IADS).

Joint Threat Emitter Offers:

- Capability to Train as You Fight
- Multi-Threat Training from a single System
- Fully Integrated IADS command and control emulation
- Reactivity to aircraft maneuvers and ECM
- Complete Debriefing Capability
- IFF Tracking System (Multi-Player)
- Superior Reliability & Capability
- Integrated Logistical Support (ILS)
- Spiral upgrade capability

The JTE Mission

- Simulate Electronic Combat Signals Produced by Surface to Air Missile (SAM) and Anti-Aircraft Artillery (AAA) Threats
- Provide Realistic Electronic Warfare Training for Pilots and Aircrews
- Assess Performance of Aircraft Radar Warning Receiver (RWR) and Electronic Countermeasure (ECM) Systems
- Replace Antiquated and High Maintenance Threat Emitter Systems with modern, more capable state-of-the-art JTE Systems

JTE Components

The JTE is composed of three subsystems – a Threat Emitter Unit (TEU), Command and Control Unit (C2U) and a Remote Power Unit (RPU).

- Threat Emitter Unit (TEU)
  - TEU is designed to utilize several full Effective Radiated Power (ERP) kits that are interchangeable. Any kit can emulate up to six threats at full ERP.
A Wide Band Kit is also available which emulates the EW threats across the spectrum needed by test and training ranges when less than full ERP is suitable.

**Command and Control Unit (C2U)**
- Controls up to 12 different threat emitter units and serves as the overall system command and control center.
- Can be deployed in two configurations: fixed within a range control center or mobile within a trailer mounted S-280 shelter.
- In the mobile configuration, an Identification Friend or Foe (IFF) tracking subsystem is added to provide for autonomous tracking of all players on the training range.

**Remote Power Unit (RPU)**
- In remote locations, when commercial power is unavailable, the RPU provides AC power for the TEU and C2U.

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**Realistic Training for the Warfighter**

- Provides Multiple Realistic Threat Systems
- Superior Fidelity
- Real Time Kill Notification (High Fidelity Models)
- Full Reactivity
- Autonomous Operation

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**Advanced Threat Emulation Capabilities**

- **Threat Generation**
  - Emulate actual threat RF parameters
  - Reprogrammable for new threats
  - Multiple Threats from one pedestal for training flexibility
  - Emitter kit capability supports fast reconfiguration and future threats
- **Threat Reactivity**
  - Removes shortfall known as “Death Ray”
  - JTE simulates operator & equipment reactivity for: ECM, Terrain blockage, Aircraft maneuvers, Expendables
- **Range Types**
  - Large Force Exercise Ranges
  - Primary Training Ranges
  - Test & Evaluation Ranges
- **Tracking Sources**
  - ACMI (podded, non-podded aircraft)
  - FAA, ATC, and Military Radar Data
  - IFF Tracking Option
- **Training Scenarios**
  - “Train-as-you-Fight” IADS scenarios
  - Duplication of simple or complex enemy air defense systems
  - Real Time Kill Removal and Notification/Rebirth
- **Feedback and Debriefing**
  - Video and ECM recorded during mission
  - Compatible with ADDS-based debrief systems
- **Mobility and Deployment**
  - Packaging allows rapid relocation of JTE subsystems
- **Sustainability**
  - 24/7 Integrated Logistics Support (ILS)

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