Radar Systems and Equipment

Tobyhanna Army Depot (TYAD) is the U.S. Army Center of Industrial and Technical Excellence (CITE) for Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance (C4ISR), Electronics, Avionics and Missile Guidance and Control. TYAD is the U.S. Air Force Technology Repair Center for Command, Control, Communications, Computers and Intelligence and Tactical Missiles.

CAPABILITIES

With decades of experience and advanced technology, TYAD performs overhaul, repair, test, modification, conversion, technical assembly and installation as well as worldwide mobile depot maintenance, technical assistance and fielding of critical Air Defense, Air Traffic Control, Range Threat, Counterfire, Ground Surveillance, Airborne, Shipborne radars and sensor systems for the U.S. Army, Air Force, Marine Corps, Navy and Foreign Military Sales customers.

From legacy systems to Active Phase Array systems, TYAD supports the major radar components to include the antenna, transmitter, receiver and power supply.

TYAD's Integrated Antenna and Radar Range Campus provides sophisticated test capabilities for radar systems with 12 distinct radar test sites. The multiple test pads, specialized support facilities and equipment include: Anechoic Chambers; Near Field and Far Field Ranges; Tower Track Testing Facility; Live Fire Test Simulator; 77–foot Protective Radome; Modified Munson Road Shake and Vibration Testing; Elevated Temperature Burn Facility; and Rain Immersion Testing Facility. TYAD's advanced automated test equipment verifies analog and digital circuit cards, Radio Frequency (RF) and Microwave components, modules, and sub-systems and testing from L band to Ku band.

TYAD has received Shingo Prizes for Excellence in Manufacturing for the AN/TPS-75 Air Defense Radar, AN/TPQ-36 Firefinder Radar System and AN/MST-T1(V) Miniature Multiple Threat Emitter as well as the Army Chief of Staff Award for Maintenance Excellence Award for the AN/TPQ-36 and 37 Firefinder and AN/TPQ-48 Lightweight Counter Mortar Radars.

SPECIALIZED FACILITIES AND EQUIPMENT

TYAD radar capabilities support all military frequencies and missions. Some major systems supported include:

- AN/TPQ-36/37 Firefinder Radar Systems
- AN/TPQ-46 Firefinder Radar System
- AN/TPS-75 Air Defense Radar
- AN/TPN-19 Landing Control Central
- AN/TPQ-48 Lightweight Counter Mortar Radar
- AN/GPN-22 Radar Set
- AN/MPN-14K Radar Set
- AN/MST-T1A Multiple Threat Emitter System
- AN/MST-T1(V) Miniature Multiple Threat Emitter
- AN/TPS-59 Air Defense Radar
- AN/TPS-63B Air Defense Radar
- AN/MPS-T1 Band Simulator
- AN/VPQ-1 Tactical Radar Threat Generator
- AN/MSQ-T43 Multiple Threat Emitter
- AN/TPT-T1(V) Unmanned Threat Emitter
- AN/TSQ-T10 Joint Threat Emitter
- AN/TSW-7A Air Traffic Controller