

TEST DIRECTORATE (TD) TARGETS DIVISION



The Test Directorate supports operational missile defense weapon systems with development, integration and execution of flight and ground test programs

The Test Directorate within the U.S. Army Space and Missile Defense Command Technical Center offers technology and value-driven capabilities for testing and evaluation to support the development and operational testing of integrated missile defense weapon systems. The directorate provides end-to-end flight test planning, design, development, integration and test execution, as well as flexible launch platforms and unique low-cost target solutions. The vision of the Test Directorate is to provide integrated missile defense testing solutions through a diverse supplier base, and tailored development strategies focused on meeting requirements on time and at an economical cost to the user – the warfighter.

- Full Service: Planning, coordination and execution of flight and ground tests.
- Tailored Solutions: Launch platforms
- Cost Saving Options: Economical targets
- Payloads Custom re-entry vehicles: lethality-driven payloads, threat representative, full suite of instrumentation
- Data Collection: Ultra-high data rate telemetry on mobile platforms
- Data Analysis: Trajectory, range safety, and link margin analyses and post-test data analysis at fidelity customized to the requirement



The Targets Division, part of the U.S. Army Space and Missile Defense Command Technical Center Test Directorate, develops assets and executes test and evaluation, or T&E, programs responsive to the needs of U.S. and allied warfighters.

END-TO-END SERVICE AND PROGRAM CONTROL

The Targets team members address all aspects of flight and ground testing, from initial test concept development through intensive planning, acquisition, test execution and mission wrap. Team engineers, analysts and range technicians work all aspects of the effort, providing a unified experience for the customer. In addition to relying upon range and system under test infrastructure, the team fields mobile flight and ground test telemetry and instrumentation units, effectively reducing logistics costs for division customers while providing independent and validated performance data sources.

INNOVATION

The Test Directorate provides solutions to address limitations in T&E capabilities. This division brings customer requirements to fruition, improving the testing regime of systems for the warfighter.

25K Transportable Target Launcher (25K TTL)

The division developed two launchers capable of launching 25,000-pound maximum static load rockets. The design is supportive of launching an array of existing and future concept rockets. These configurable rail launchers are over-road and C-17 and C-5 transportable, thus providing worldwide deployment capability. Their transportability allows unique launch positioning of test articles facilitating unique kinematic geometries. This pair of launchers enables simultaneous launches and provides new dynamics for testing a system's performance.

Economical Targets (ET-2)

The Economical Target-2 is an unguided, low-cost, spin stabilized target designed to provide a cost-effective alternative to expensive high-fidelity test articles. The ET-2 can serve as an effective low-cost sensor characterization article. This approach leverages existing in-production rocket motors.

ZOMBIE TARGETS

The Test Directorate has developed a suite of threat representative, low-cost, short-range ballistic missile targets for use in missile defense testing.

The Zombie targets use state-of-the-art, proven flight-qualified components, which reduce the development time and cost. These targets allow USASMDC customers, like Patriot PAC-3, to conduct cost-effective flight testing for both developmental testing and operational testing. The suite includes 4-meter (Sabre Zombie) and 6-meter (Pathfinder Zombie) single stage configurations and a 6-meter two-stage configuration (Black Dagger/Booster Zombie Target).

DATACOLLECTION: TELEMETRY/OPTICS/INFRARED

The division offers resource support for test events including transportable telemetry stations operable from unimproved sites. These can be operated stand alone or integrated with range or other systems. The division's mobile telemetry is capable of supporting very high data rate with the ultra-low bit error-rates required for reliable hit point detection data capture.

DATA ANALYSIS: 6-DOF, TRAJECTORY, PRE/POST TEST

The division performs trajectory, range safety, and link margin analyses as well as post-test data analysis at fidelity customized to the requirements.

From planning, development, instrumentation, launch services, data collection and data analysis, the division's goal is to provide full service to Operational Weapon System Development and Testing through rigorous event-driven processes, lowered cost and custom requirements-based engineering.



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