Technology Service Corporation

Operational Test & Evaluation Support
Air & Missile Command (AMCOM)

Technology Service Corporation (TSC) is actively supporting the U.S. Army Aviation & Missile Command (AMCOM) at Redstone Arsenal in Huntsville, AL thru a Morgan (Standley) contract with operational test and evaluation (T&E) of the ATIRCM / CMWS (Advanced Threat Infrared Countermeasures) / Common Missile Warning System) deployed on rotary-wing aircraft such as the AH-64 Apache.

ATIRCM / CMWS

The CMWS detects, tracks, and declares missile threats, then hands them off to the ATIRCM system, which fine tracks and jams the missile with laser-based Directional Infrared Countermeasures (DIRCM). TSC fields and operates the SMEOS UV stimulator system to simulate threat surface-to-air missile (SAM) signatures to the CMWS. Starting in 2008 TSC will also support T&E of the ATIRCM system, and will be deploying and operating a radiometric detector array for monitoring the ATIRCM jam (laser) beam.

OUR TEST & EVALUATION ROLE

Currently, TSC fields, operates, troubleshoots, upgrades, stores and maintains the varied test equipment that includes two SMEOS units, a Mallina, four IR/UV radiometer suites, IR and UV calibration sources, two multi-band IR radiometers, meteorology systems, ozone meters, RF remote links, and other related equipment and instrumentation. The actual equipment is stored and maintained at TSC's Huntsville office (TSC Phase IV Systems).

Apache AH-64

TSC supports SMEOS testing performed primarily at Ft. Rucker (High Falls) in southern Alabama, with some testing performed at Eglin AFB. TSC also supports static and live-fire missile testing, with static testing performed at Redstone Arsenal and live-fire testing performed at Tonopah Test Range (TTR), Nevada, and White Sands Missile Range (WSMR), New Mexico.

TSC recently developed a Data Acquisition Unit (DAU) for the Mallina UV stimulator that records Mallina witness sensor data along with video camera data. The witness sensor and video data are time-stamped with GPS (UTC) time. The DAU provides a quick-look data capability and facilities data packaging.

TSC is also researching a radiometric detector array capability for T&E of the ATIRCM system. The array will consist of multi-channel detector boxes that monitor IR bands I, II, and IV simultaneously to measure the jam beam pointing accuracy, irradiance, spectral bands, and waveform fidelity, similar to the ISTAR system developed for the Naval Air Warfare Center (NAWC), China Lake.

CONTACT INFORMATION

For more information please contact Randy van Daalen Wetters (*rvdw@tsc.com*) or Eric Wilen (*eric.wilen@tsc.com*) at (310) 954-2200, or visit www.tsc.com.