Technology Service Corporation

Infrared/Ultraviolet Background Monitoring System (IRUVBMS)

Technology Service Corporation (TSC) is developing an Infrared (IR) and Ultraviolet (UV) Background Monitoring System for automated, real-time detection of RAM (Radar Absorbing Material) heating hazards and anomalous background sources in anechoic chambers. (An anechoic chamber is an enclosed space designed to absorb radiation and create a free-field environment for testing.) TSC's system is based on IR and UV video cameras positioned in the Benefield Anechoic Facility (BAF) that are integrated with a common IRUVBMS controller. The controller will perform real-time processing of camera video data, and report and display hazard and source locations to the operator. The IRUVBMS will significantly enhance operation of the BAF test facility from a safety and reliability standpoint.

Benefield Anechoic Facility

The BAF is a state-of-the-art installed system test facility (ISTF) at Edwards Air Force Base, California. It is systematically upgrading capabilities to include IR, electro-optical, and high-power RF system testing. The BAF currently has a requirement to monitor the potential hazard of RAM heating and ignition during the use of high-power RF test sets, to monitor the IR and UV background environments for unwanted, anomalous sources, and to verify operation of IR and UV point sources operated at the BAF. TSC's IRUVBMS will meet all these requirements.

WHY TSC?

The IR/UV Background Monitoring System represents only one of the company capabilities in the development and integration of real-time computer-controlled infrared/ultraviolet simulator and monitoring systems.

- Extensive modeling and simulation experience of real-time imagery utilizing specialized computer hardware and related components, including systems analysis, requirements definition, modeling and simulation, and technology assessment.
- IR/UV sensors and stimulators experience with advanced missile warning and Directional Infrared Countermeasures (DIRCM) systems including TADIRCM, ATIRCM, LAIRCM, and SOCOM DIRCM.
- Over 30 years of experience in a broad spectrum of IR/UV and radar design.

CONTACT INFORMATION

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