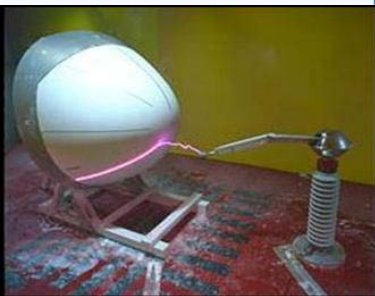


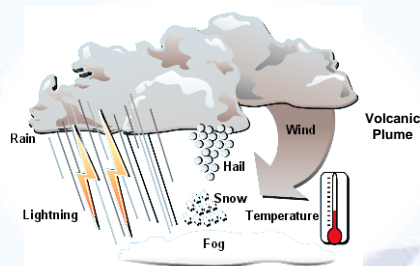
Environmental Effects

fast facts



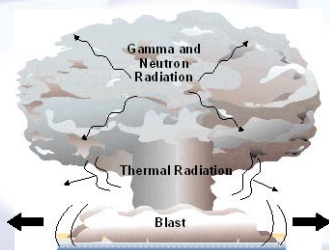
Teledyne Solutions, Incorporated's (TSI's) **Environmental Effects Team** evaluates the effects of environments on systems and subsystems. Environmental areas include natural, nuclear, induced, and Electromagnetic (EM) Environmental Effects (E3), such as:

- Rain, lightning, and seismic events
- Nuclear and natural space environments
- Electromagnetic Interference/Compatibility (EMI/EMC)
- Radio Frequency (RF) Spectrum Management
- RF Safety
- RF Weapons

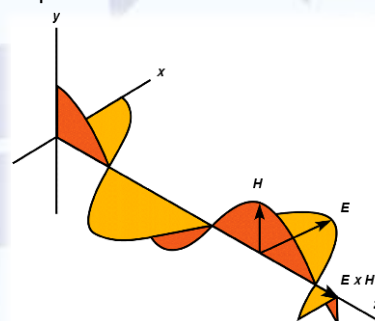


TSI is on contract to provide assistance to Program Offices in implementing EM hardening technologies. For the PM Tactical Operations Center (TOC), we supported testing of EMI suppression concepts to quantify effects on TOC emissions and energy coupling to TOC radio antennas.

TSI Environmental Effects Team Members serve as Program Office technical representatives on Survivability Working Groups, Integrated Product Teams, and Spectrum Management Working Groups. Additionally, we provide engineering support to EM Environmental Effects (E3) Requirements Boards and Program Managers.



TSI's personnel have current, extensive Spectrum Management experience in radio, radar, and telemetry applications and in the preparation and coordination of DD form 1494 (Application for Equipment Frequency Allocation) for radar and radio equipment. We are also trained in the use of SPECTRUM XXI, the Spectrum Management software used by DoD and other Federal agencies to manage the EM spectrum.



Our Environmental Effects Team provides a full range of support:

- Generate/tailor/validate requirements
- Flow-down requirements
- Develop design guidelines
- Perform EMI and link margin analyses
- Develop/modify/validate designs
- Prepare/use standards
- Plan, monitor, and support testing
- Develop/review Design Parameters Reports
- Develop/review plans (control, survivability, life-cycle hardness).

TSI has provided environmental effects services for a variety of military systems, including armored vehicles, tactical command posts, missiles, radars, launchers, and fixed facilities.

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