

Directed Energy Warfare Office

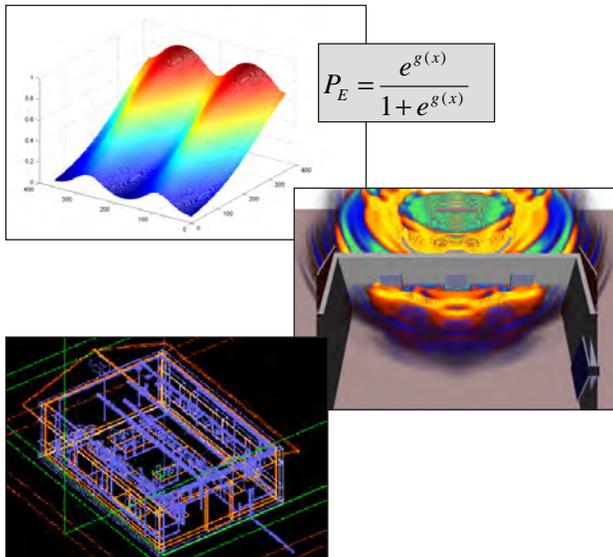
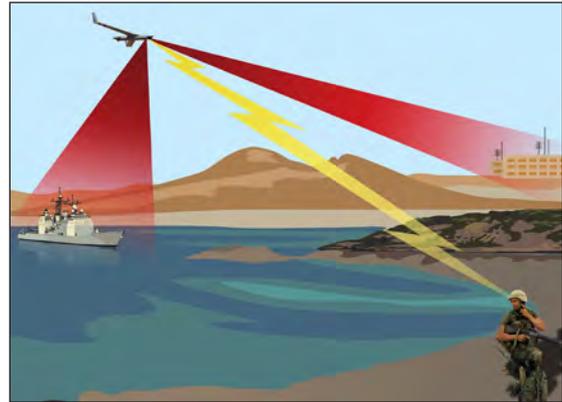
High Power Microwave



NAVAL SURFACE WARFARE CENTER • DAHLGREN DIVISION

Background

High Power Microwave (HPM) offers a unique warfighting capability for non-lethal, non-kinetic missions. HPM systems are capable of engaging multiple targets, re-attack, and dramatically reduced collateral damage and reconstruction costs. This capability opens targets for which no engagement option currently exists. Potential mission sets for HPM include disruption of communications networks, infrastructure, and sensors. The Directed Energy Warfare Office (DEWO) has demonstrated effectiveness against a wide variety of electronic systems across multiple source technologies. A Military Utility Assessment (MUA) was successfully completed in 2007 for one concept.



DEWO Assets

- Maginot' Open Air Test Site (MOATS), industrial, vehicle and vessel targets
- State of the art RF diagnostics
- Gigahertz Transverse ElectroMagnetic (GTEM) cell, small automated reverberation chamber, X-Ray, and other forensic tools
- Modeling & Simulation tools
- RF source, antenna, and electromagnetic propagation into complex structures



Focus

DEWO has numerous projects engaged in both system research and development as well as lethality and weapon effectiveness assessments of developing technologies against a wide variety of electronic targets.

Current Efforts

- Non-Lethal vehicle and vessel stopping
- Brassboard Radio Frequency Vehicle Stopper (RFVS) pre-replaced electric vehicle stopper system development
- Demonstration of unique wideband, high power Radio Frequency (RF) source
- Electromagnetic susceptibility studies of various electronic systems

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