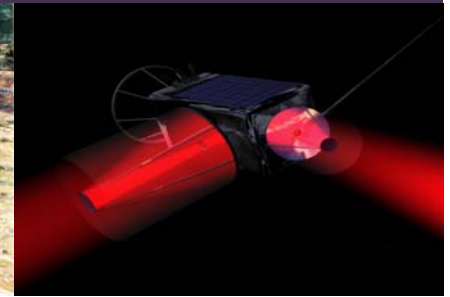
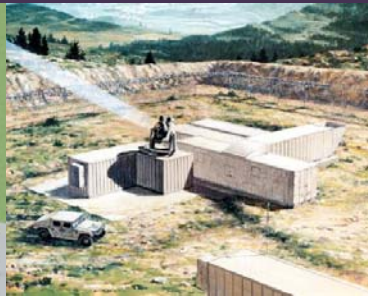
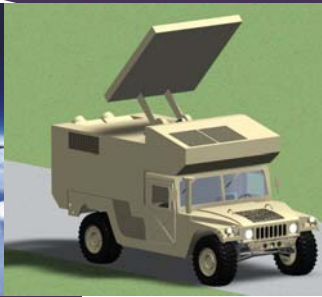




Directed Energy Test Methodologies



DE TM Summary

- Focuses on high energy laser and high power microwave testing
- Provides modified high energy laser and high power microwave system test methodologies
- Provides updated directed energy systems susceptibility test and assessment methodologies
- Includes guidance on Blue system requirements development, Blue-on-Red system test, and Red-on-Blue test
- Serves as a guideline for the test and evaluation community, not policy or doctrine
- Available to request on the DETEC website (www.detecteam.org)

High energy laser (HEL) and high power microwave (HPM) systems, collectively known as directed energy (DE) systems, have emerged as a new class of weapons with distinct properties compared to conventional weapon systems. DE weapon systems have unique components and functions with target effects much different from conventional weapons. Because of these systems' unique characteristics, existing test methodologies need to be updated to permit adequate and thorough DE weapon system testing. Likewise, foreign (Red) DE systems are emerging as threats to U.S. (Blue) military systems. Because of this new threat, susceptibility test and assessment methodologies also must be updated.

In response to these needs, the Central Test and Evaluation Investment Program (CTEIP) developed two documents: an HEL test methodology and an HPM test methodology. Each methodology provides guidance on:

- **Blue system requirements development:** includes pre-test analysis, target response testing, and lethality testing
- **Blue-on-Red system test:** includes general approach, system testing progression, instrumentation and safety considerations
- **Red-on-Blue test:** includes pre-test analysis, standard approach, threat definition, response testing, and Blue system vulnerability assessment

Both documents focus only on the DE-unique aspects of testing and are provided as guidelines, not policy or doctrine.

Visit the DETEC website (www.detecteam.org) to request a copy of the DE Test

