

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)
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	PROJECT DE97
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COST (In Thousands)	FY 1997 Actual	FY 1998 Estimate	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	Cost to Complete	Total Cost
DE97 DoD High Energy Laser Systems Test Facility (HELSTF)	29227	28965	15022	15086	15150	15192	15281	Continuing	Continuing

A. Mission Description and Budget Item Justification - Project DE97 DoD High Energy Laser Systems Test Facility (HELSTF): The HELSTF provides a broad based high energy laser (HEL) RDTE capability at White Sands Missile Range, NM in support of Tri-Service HEL research and development and damage, vulnerability, and lethality laser testing. The HELSTF's laser development support capabilities include a certified laser test range, a fully integrated laser support facility, an extensive array of fully instrumented test sites and the Sea Lite Beam Director (SLBD). This multiple use facility supports testing of laser effects for targets ranging from scaled laboratory up through full scale flying target tests. Test facility support operations are required for general research and development; therefore, this PE is appropriate for inclusion in Budget Activity 6.

FY 1997 Accomplishments:

•	23509	Performed required site operations and maintenance activities to maintain laser system testing infrastructure in support of NAUTILUS, Air Force Airborne Laser Program and other Space-based Laser programs.
•	5718	Initiated the Solid State Laser Demonstration Program.
Total	29227	

FY 1998 Planned Program:

•	14147	Perform Operation and Maintenance and base operations support functions in support of the Army, Department of Defense and other agencies conducting high energy laser systems concept development studies and test and evaluation on candidate high energy laser weapons systems (Tactical High Energy Laser, Free Electron Laser, Air Force Airborne Laser, and other space-based laser programs).
•	9461	Conduct field testing of the THEL Advanced Concept Technology Demonstrator.
•	4668	Continue the Solid State Laser Demonstration Program. Complete single module device & beam distortion correction. Manufacture & Integrate the 3 module device. Complete testing of Army Pointer Tracker (APT) Backup Primary Mirror. Perform dynamic target tracking with APT.
•	689	Small Business Innovative Research/Small Business Technology Transfer Programs.
Total	28965	

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FY 1999 Planned Program:

- 9976 Perform Operation and Maintenance and base operations support functions in support of the Army, Department of Defense and other agencies conducting high energy laser systems concept development studies and test and evaluation on candidate high energy laser weapons systems (Tactical High Energy Laser, Free Electron Laser, Air Force Airborne Laser, and other space-based laser programs).
- 5046 Operations, maintenance and upgrades on organic high energy lasers and associated optical trains. Support ballistic missile defense signature data collection efforts.

Total 15022

B. Project Change Summary

	<u>FY 1997</u>	<u>FY 1998</u>	<u>FY 1999</u>
FY 1998/1999 President's Budget	29974	14952	14976
Appropriated Value	30667	29952	
Adjustments to Appropriated Value	-1440	-987	
FY 1999 President's Budget	29227	28965	15022

Change Summary Explanation: Funding: FY 1998 increase (+13973); due to a (+15000) Congressional increase and (-987) undistributed Congressional reductions.