OSD RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

APPROPRIATION/ BUDGET ACTIVITY

RDT&E/ Defense Wide BA# 1

PE NUMBER AND TITLE

0601120D87 - Nation

0601120D8Z - National Defense Education Progam (NDEP)

	0001120D02 National Defense Education Flogum (NDEF)							
	Cost (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
	Total Program Element (PE) Cost	2.106	10.119	19.532	26.075	31.663	52.895	74.396
P120	National Defense Education Act (NDEA)	2.106	10.119	19.532	26.075	31.663	52.895	74.396

A. Mission Description and Budget Item Justification: A. Mission Description and Budget Item Justification: (U) The Department of Defense is confronted with a continuing challenge in educating, training, recruiting, and retaining individuals in certain science, mathematics, and engineering, disciplines that are critical to the national security functions of the Department. The Science, Mathematics and Research for Transformation (SMART) Defense Education Program is a program mandated by Congress in Section 1101 of the National Defense Authorization Act (NDAA) for Fiscal Year 2005 and amended in the National Defense Authorization Act of 2006 that intends to address these needs. SMART will permit current and future scientists, mathematicians, engineers, and technicians to receive scholarships at the associates, undergraduate and graduate levels and gain experience that will develop well rounded individuals that are exceptionally trained and equipped with skills and talents relevant to specific needs identified within the department. Recipients will be required to enter into civilian service for a period of time commensurate with the support they have received.

- (U) The NDAA of 2006 amendment to SMART permits DoD to execute a more comprehensive approach to development of a workforce capable of dealing with demands and challenges in skills and disciplines that, as determined by the Secretary, are critical to the national security functions of the Department of Defense. The amendment establishes a permanent program, rather than a pilot, to increase the development, recruitment, and retention of individuals with knowledge, skills, and abilities in disciplines critical to the Department of Defense; expands the degrees covered by the program to include assistance for study toward an associate's degree; authorizes the Department of Defense to employ recipients of scholarships and fellowships in over-strength positions both while pursuing their studies and for up to two years after completion of their studies; increases the range of allowable expenses for which financial assistance may be provided; and contains flexibilities such that internship opportunities may be incorporated into recipients' programs.
- (U) The need to improve the science, technology, engineering and mathematics (STEM) education at all levels across the nation is immediate. Numerous reports from within the U.S. defense science and engineering community and elsewhere warn of the long-term downward trend in defense relevant science and engineering degrees at all levels awarded to U.S. citizens, whether native-born or naturalized, and the erosion of US competency in math and science at the middle and high school levels. Basic science and mathematics literacy gained in grades K-12 form the foundation of a capable technical workforce. A comprehensive solution to address science and engineering workforce needs requires a comprehensive plan to address science, technology, engineering and mathematics education needs at all levels of education (K-20+). Sustainable change in STEM education arena begins at primary and secondary educations levels with substantial evidence of impact being demonstrated as those graduates make choices relating to postsecondary education and employment tracks. Authority for the DoD to provide education intervention activities is broad and a great many activities are underway across the education spectrum. The NDEP will become a cornerstone effort to catalyze the integration STEM intervention efforts and address needs at the interface between mid and late term education and defense community employment.

B. Program Change Summary	FY 2005	FY 2006	FY 2007
Previous President's Budget (FY 2006)	2.500	10.282	10.270
Current BES/President's Budget (FY 2007)	2.106	10.119	19.532

Date: February 2006

OSD RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit) APPROPRIATION/ BUDGET ACTIVITY RDT&E/ Defense Wide BA# 1 PE NUMBER AND TITLE 0601120D8Z - National Defense Education Progam (NDEP)

Total Adjustments	-0.394	-0.163	9.262
Congressional Program Reductions		-0.163	
Congressional Rescissions			
Congressional Increases			
Reprogrammings	-0.300		
SBIR/STTR Transfer	-0.069		
Other	-0.025		9.262

C. Other Program Funding Summary: Not Applicable.

D. Acquisition Strategy: Not Applicable.

E. Performance Metrics:

	Strategic Goals Supported	 		Actual Performance Metric / Methods of
		Requirement Goal	Measurement	Measurement
07				

Comment: 1. Data will be gathered and analyzed annually to assess program execution including level of interest in the program, level of satisfaction and ability of graduates to meet the expectations of sponsoring services and agencies. Performance of scholars and fellows and placement will be tracked, services and agencies will be queried in order to identify any need for programmatic adjustments in order to maximize program benefits to DoD.

	OSD RDT&E PROJECT JUST	TIFICATION OF THE PROPERTY OF	ON (R2a Ex	khibit)			Date: Febr	uary 2006
			NUMBER AND TITI 0 1120D8Z - N at		t (NDEA)	РРОЈЕСТ Р120		
	Cost (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
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B. Accomplishments/Planned Program:

Accomplishment/Planned Program Title	FY 2005	FY 2006	FY 2007
Science, Mathematics and Research for Transformation (SMART)	2.106	10.119	19.532
EV 2005 Accomplishment:			

FY 2005 Accomplishment:

	UNCLASSIFIED	
OSD RDT&E PROJECT JUSTIFICA	TION (R2a Exhibit)	Date: February 2006
APPROPRIATION/ BUDGET ACTIVITY RDT&E/ Defense Wide BA# 1	PE NUMBER AND TITLE 0601120D8Z - National Defense Education Act (NDEA)	PROJECT P120
ecruiting, and retaining individuals in certain science, mathematics, engineering, a U) Scholarships/Fellowships. Services and Agencies developed and executed the		artment.
upport in skills and disciplines deemed critical to national defense at the associate	p and execute the SMART permanent program inviting applications from the public , undergraduate and graduate degree levels. Recipients will receive a higher level of t for civil service that is commensurate with the support received. Assessment of the	integration into and familiarity with the
kills and disciplines deemed critical to national defense at the associate, undergrad	and execute the SMART program inviting applications from the public and defense eduate and graduate degree levels. The program will be modified as needed based upon the program with the DoD S&T community and its needs and will be required to enter into an program will continue.	on input from the previous year execution
tudent interest and improving teacher capability in science and math education by	ectiveness and offer implications that extend far beyond DoD. The K-12+ STEM integration are expanding programs with evidence of impact in a manner that improves opportunities evidence based catalytic program that provides an exceptional fit with DoD interests of them.	es for partnership with public and private
n a critical mass learning environment) will be added to the SMART program. Co	re funds are provided to a competitively selected institution to educate and train indivompetitively awarded Institutional Scholarships/Fellowships are an important programucture, and other institutional research and development dollars. The program enhannterest to the Department.	nmatic component because they provide
C. Other Program Funding Summary: Not Applicable.		

D. Acquisition Strategy: Not Applicable.

E. Major Performers

OS	Date: February 2006				
APPROPRIATION/ BUDGET ACTIVITY RDT&E/ Defense Wide BA# 1			PE NUMBER AND TITLE 0601120D8Z - National Defense Education Act (NDEA)	PROJECT P120	
Category	Name	Location	Type of Work and Description	Award Date	
Labs	Air Force Office of Scientific Research	Arlington, VA	These funds are provided for the execution of the Science Mat and Research for Transformation (SMART), Pilot Scholarship	hematics Program. 26 APR 2005	