

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

May 2009

BUDGET ACTIVITY 5 - System Development and Demonstration		PE NUMBER AND TITLE 0604778A - Positioning Systems Development (SPACE)			
COST (In Thousands)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	Cost to Complete	Total Cost
168 NAVSTAR GPS EQUIP			9446		9446

A. Mission Description and Budget Item Justification: The Navstar Global Positioning System (Navstar GPS) is a passive, space-based, radio positioning and navigation system providing precise, three dimensional position, navigation, velocity and timing information to warfighters. The Navstar GPS program is designated as a DoD Space Program and the United States Air Force (USAF) is the executive agent. The Joint Program Office develops GPS User Equipment (PE 35164F) with direct Army management and participation. NAVSTAR GPS is composed of three segments: Space, Control, and User Equipment. Project 168 provides for initial and sustained participation in the research and development of Army unique requirements that enhance the Position Navigation capabilities of Army weapons systems and platforms. These funds are used to identify/support the means to increase the functionality and performance of GPS receivers in response to the latest enemy threats to GPS.

The Defense Advanced GPS Receiver has been designated a Horizontal Technology Integration (HTI) program and provides essential capabilities to numerous weapon systems and platforms.

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BUDGET ACTIVITY
5 - System Development and Demonstration

PE NUMBER AND TITLE
0604778A - Positioning Systems Development (SPACE)

<u>B. Program Change Summary</u>	FY 2008	FY 2009	FY 2010
Previous President's Budget (FY 2009)			
Current BES/President's Budget (FY 2010)			9446
Total Adjustments			9446
Congressional Program Reductions			
Congressional Rescissions			
Congressional Increases			
Reprogrammings			
SBIR/STTR Transfer			
Adjustments to Budget Years			9446

Change Summary Explanation: Funding - FY 2010: Funding increase to support the Navstar Global Positioning System (Navstar GPS) program.

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The Defense Advanced GPS Receiver has been designated a Horizontal Technology Integration (HTI) program and provides essential capabilities to numerous weapon systems and platforms.

<u>Accomplishments/Planned Program:</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
Transition of a classified capability of the Tactical Assurance GPS Reference (TAGR) system to augment GPS receivers ability to overcome enemy threats. Complete all required tasks for program initiation and achieve Milestone A approval.			9446
Total			9446

<u>B. Other Program Funding Summary</u>	FY 2008	FY 2009	FY 2010	To Compl	Total Cost
K47800, Other Procurement, Army, NAVSTAR GPS	128784	100631	126221	Continuing	Continuing

Comment:

C. Acquisition Strategy Transition commercial technology investments and Communication and Electronics Research, Development, and Engineering Center (CERDEC) classified program initiatives to improve and enhance functionality of GPS receivers to include unique Army requirements for GPS receivers in overcoming current enemy threats to GPS. Complete all required tasks for program initiation and achieve Milestone A approval.

ARMY RDT&E COST ANALYSIS (R3)

May 2009

BUDGET ACTIVITY			PE NUMBER AND TITLE							PROJECT		
5 - System Development and Demonstration			0604778A - Positioning Systems Development (SPACE)							168		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost To Complete	Total Cost	Target Value of Contract
C2 CONOPS Development		Overlook Systems, Vienna, VA						1046	1-3Q		1046	
Performance Specification Development		Penn State ARL, State College, PA						850	1-3Q		850	
Interface ICD Development	MIPR	CERDEC, Aberdeen Proving Ground, MD						850	1-3Q		850	
Integration Analysis/ ICD Capture		Rockwell Collins, Cedar Rapids, IA						1200			1200	
Subtotal:								3946			3946	
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Analysis of Alternatives Support	MIPR	Battle Command Battle Lab, Ft. Gordon, GA						600	1-3Q		600	
Acquisition Plan Development		ARINC, Annapolis, MD						400	1-3Q		400	
Acquisition Document Development		ARINC, Annapolis, MD						1500	1-3Q		1500	
Subtotal:								2500			2500	
III. Test And Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Regression / Delta / CONOPS Testing	MIPR	EPG, Ft. Huachuca, AZ						1400			1400	
Technology Readiness Assessment	MIPR	CERDEC, Aberdeen Proving Ground, MD						800			800	

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May 2009

BUDGET ACTIVITY				PE NUMBER AND TITLE							PROJECT		
5 - System Development and Demonstration				0604778A - Positioning Systems Development (SPACE)							168		
Subtotal:										2200		2200	
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost To Complete	Total Cost	Target Value of Contract	
PMO Support		PM GPS, Aberdeen Proving Ground, MD						800			800		
Subtotal:								800			800		
Project Total Cost:								9446			9446		

Schedule Detail (R4a Exhibit)

May 2009

BUDGET ACTIVITY 5 - System Development and Demonstration		PE NUMBER AND TITLE 0604778A - Positioning Systems Development (SPACE)					PROJECT 168	
<u>Schedule Detail</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>
Initial Capabilities Document (ICD) Preparation - TRADOC	1Q - 4Q	1Q - 4Q	1Q					
Analysis of Alternatives			2Q - 3Q					
Milestone A Preparation			1Q - 4Q					
TAGR System Milestone A			4Q					