

# ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

February 2005

BUDGET ACTIVITY <b>5 - System Development and Demonstration</b>				PE NUMBER AND TITLE <b>0604□□□A - Positioning Systems Development (SPACE)</b>					PROJECT <b>16□</b>	
COST (In Thousands)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total Cost
168    NAVSTAR GPS EQUIP	1558	1962	0	0	0	0	0	0	0	3606

**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 Army management and oversight. 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 will be used to identify/support the means to increase the functionality and performance of GPS receivers.

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

No funding in FY06/07

<b>Accomplishments/Planned Program</b>	FY 2004	FY 2005	FY 2006	FY 2007
Leverage, demonstrate, and transition of Urban Situational Awareness improvements and solutions into GPS receivers.	1558	1962	0	0
<b>Totals</b>	<b>1558</b>	<b>1962</b>	<b>0</b>	<b>0</b>

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<u><b>B. Program Change Summary</b></u>	FY 2005	FY 2006	FY 2007
Previous President's Budget (FY 2005)	2048	2233	0
Current Budget (FY 2006/2007 PB)	1962	0	0
Total Adjustments	-86	-2233	0
Net of Program/Database Changes			
Congressional Program Reductions	-86		
Congressional Rescissions			
Congressional Increases			
Reprogrammings			
SBIR/STTR Transfer			
Adjustments to Budget Years		-2233	

FY2006: -\$2233 Funding redirected to higher priority programs.

<u><b>C. Other Program Funding Summary</b></u>	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
K47800, Other Procurement, Army, NAVSTAR GPS	45951	42990	44730	38871	51457	28889	54525	54881	Continue	Continue

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**D. Acquisition Strategy:** Leverage commercial technology investments and Communication and Electronics Research, Development, and Engineering Center (CERDEC) initiatives that will improve and enhance functionality of GPS receivers to include unique Army requirements for time of arrival augmentation, GPS reception in a low signal environment, and providing GPS referenced position data deep inside buildings, tunnels and caves. This leveraging will be accomplished by using the contractor of the affected GPS receiver to transition software data into the desired platform. The DAGR contract was awarded in 2QFY04 on a competitive basis.