

<b>ARMY RDT&amp;E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)</b>							<b>February 2003</b>			
BUDGET ACTIVITY <b>5 - System Development and Demonstration</b>				PE NUMBER AND TITLE <b>0604778A - Positioning Systems Development (SPACE)</b>				PROJECT <b>168</b>		
COST (In Thousands)	FY 2002 Actual	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total Cost
168      NAVSTAR GPS EQUIP	0	0	1574	2065	2254	0	0	0	0	8220
<p><b><u>A. Mission Description and Budget Item Justification:</u></b> 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 USAF develops GPS User Equipment (PE 35164F) at the GPS Joint Program Office (JPO) with Army 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 will be used to increase the functionality and performance of GPS receivers.</p> <p>This is a Legacy-to-Objective capability supporting all axes of the Army Transformation Campaign.</p> <p>FY04/FY05 funding provides for the development, demonstration and transition of Urban Situational Awareness elements. These elements will allow the Defense Advanced GPS Receiver (DAGR) to provide more secure and more reliable position and navigation data for the Objective Force.</p>										
<b><u>Accomplishments/Planned Program</u></b>						<b>FY 2002</b>	<b>FY 2003</b>	<b>FY 2004</b>	<b>FY 2005</b>	
Leverage, demonstrate, and transition of Urban Situational Awareness improvements and solutions into Defense Advanced GPS Receiver (DAGR) functionality.						0	0	1574	2065	
Totals						0	0	1574	2065	

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(SPACE)**

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<u><b>B. Program Change Summary</b></u>	FY 2002	FY 2003	FY 2004	FY 2005
Previous President's Budget (FY 2003)	0	0	0	0
Current Budget (FY 2004/2005 PB)	0	0	1574	2065
Total Adjustments	0	0	1574	2065
Congressional program reductions				
Congressional rescissions				
Congressional increases				
Reprogrammings				
SBIR/STTR Transfer				
Adjustments to Budget Years			1574	2065

### Change Summary Explanation:

FY-04 +\$1.6M Funds realigned to support Army Unique GPS Requirements for Urban Situational Awareness efforts.

FY-05 +\$2.1M Funds realigned to support Army Unique GPS Requirements for Urban Situational Awareness efforts.

<u><b>C. Other Program Funding Summary</b></u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>To Compl</u>	<u>Total Cost</u>
K47800, Other Procurement, Army, NAVSTAR GPS DAGR	19661	26767	44290	39616	42334	37919	25019	26969	264000	526575

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<p><b><u>D. Acquisition Strategy:</u></b> Leverage commercial technology investments and Research, Development, and Engineering Center (RDEC) initiatives that will improve and enhance DAGR functionality 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 selected DAGR contractor to transition software data into the desired platform. This contractor is being selected on a competitive basis.</p>		

ARMY RDT&E COST ANALYSIS(R-3)									February 2003			
BUDGET ACTIVITY <b>5 - System Development and Demonstration</b>					PE NUMBER AND TITLE <b>0604778A - Positioning Systems Development (SPACE)</b>					PROJECT <b>168</b>		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Develop P-Code algorithms to support Urban Situational Awareness	MIPR	RDEC, Fort Monmouth, NJ	0	0		300	1Q	300	1Q	Continue	600	0
b . Integrate P-Code algorithms into DAGR product line	TBS	TBS	0	0		874	1Q	1765	1Q	0	2639	0
Subtotal:			0	0		1174		2065		Continue	3239	0
II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Field/integrate new capabilities			0	0		0		0		0	0	0
Subtotal:			0	0		0		0		0	0	0

<b>ARMY RDT&amp;E COST ANALYSIS(R-3)</b>									<b>February 2003</b>			
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III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Test/integrate new capabilities	MIPR	RDEC, Fort Monmouth, NJ	0	0		400	2Q	0		0	400	0
Subtotal:			0	0		400		0		0	400	0
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:			0	0		0		0		0	0	0
Project Total Cost:			0	0		1574		2065		Continue	3639	0

Schedule Profile Detail (R-4a Exhibit)							February 2003	
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<u>Schedule Detail</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
Adapt commercial technology			3Q					
Demonstrate concept interface			3Q					
Qualification/Reliability Test			3-4Q					
Develop prototype				3Q				
Demonstrate prototype				4Q				
System Integration					2Q			