

UNCLASSIFIED

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)								DATE February 1999		
BUDGET ACTIVITY 5 - Engineering and Manufacturing Development				PE NUMBER AND TITLE 0604778A Positioning Systems Development (SPACE)				PROJECT D168		
<i>COST (In Thousands)</i>	FY1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY2004 Estimate	FY2005 Estimate	Cost to Complete	Total Cost
D168 NAVSTAR Global Positioning System (GPS) Equipment	405	377	443	435	0	0	0	1000	0	2660
<p>A. <u>Mission Description and Budget Item Justification:</u> NAVSTAR GPS is the Joint Program Office at LAAFB. The program is composed of three segments: Space, Control and User Equipment. PM GPS fall under the User Equipment segment and procures the majority of user equipment. Project D 168 provides for Army participation in the research and development phases of Army weapon systems requiring POS/NAV capabilities. It provides for the engineering development of several alternatives for integration of GPS receivers into selected systems. These alternatives include, but are not limited to, Embedded/Integrated GPS, Advanced GPS Receivers (AGR), Tactical GPS Anti-Jam Technology (TGAT) and Differential GPS.</p> <p>FY 1998 Accomplishments:</p> <ul style="list-style-type: none"> • 132 Continued improved accuracy and time to fix studies • 122 Continued survivability studies • 151 Exploration of emerging capabilities based on follow-on satellite configuration options <p>Total 405</p> <p>FY 1999 Planned Program:</p> <ul style="list-style-type: none"> • 160 Development of DAGR GUI • 107 Development of GRAM and GPS/INS • 100 Studies on interfacing of GPS with other systems • 10 Small Business Innovation Research/Small Business Technology Transfer (SBIR/STTR) Programs <p>Total 377</p> <p>FY 2000 Planned Program:</p> <ul style="list-style-type: none"> • 230 Continued development of GRAM and GPS/INS • 213 Studies associated with the NAVWAR and GPS modernization programs <p>Total 443</p>										
Project D168			<i>Page 1 of 2 Pages</i>				Exhibit R-2 (PE 0604778A)			

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FY 2001 Planned Program:

- 223 Exploration and development of Pseudolites
 - 212 Studies associated with the NavWar and GPS modernization programs
- Total 435

B. Program Change Summary	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>
Previous President's Budget (FY 1999 PB)	407	379	419	408
Appropriated Value	419			
Adjustments to Appropriated Value				
a. Congressional General Reductions	-12	-2		
b. SBIR / STTR	-11			
c. Omnibus or Other Above Threshold Reduction	-3			
d. Below Threshold Reprogramming	12			
e. Rescissions				
Adjustments to Budget Years Since FY 1999 PB			+24	-27
Current Budget Submit (FY 2000/2001 PB)	405	377	443	435

C. Other Program Funding Summary	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY2002</u>	<u>FY2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>To Complete</u>	<u>Total Cost</u>
K47800, Other Procurement, Army, NAVSTAR GPS	5261	6527	6557	31502	62672	49862	48170	44806	288000	517315

D. Acquisition Strategy: Perform studies and analyses of host vehicles to support development of alternative GPS applications.