

UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)									DATE June 2001		
BUDGET ACTIVITY 04 - Demonstration and Validation				PE NUMBER AND TITLE 0603421F GLOBAL POSITIONING SYSTEM					PROJECT 4993		
COST (\$ in Thousands)		FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
4993	GPS BLOCK III	0	0	78,358	100,575	185,119	188,838	227,900	224,516	Continuing	TBD
	Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0	0

NOTE: This administration has not addressed FY 2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

(U) **A. Mission Description**
 The NAVSTAR Global Positioning System (GPS) is a space-based radio positioning, navigation, and time (PNT) distribution system. This Program Element (PE) funds the Research and Development (R&D) for the GPS Block III. This includes, but is not limited to advanced concept development, systems engineering and analysis, satellite systems development, the study of augmentation systems with the potential of hosting the GPS PNT system on multi-mission service satellite platforms [such as the Global Multi-Mission Service Platform (GMSP)], control systems development, user equipment interfaces, training simulators, Integrated Logistics Support (ILS) products, and developmental test resources.

Funds will support future engineering studies and analyses, architectural engineering studies, trade studies, development, test and evaluation efforts, and mission operations in support of upgrades and product improvements for military and civil applications of user equipment necessary to support efforts to protect U.S. military and allies' use of GPS.

GPS Modernization Stewardship funds efforts which are of a national scale, joint civil-military in nature, and benefit two or more agencies.

(U) **FY 2000 (\$ in Thousands)**
 (U) \$0 No Activity--Work performed in PE 0305165F
 (U) \$0 Total

(U) **FY 2001 (\$ in Thousands)**
 (U) \$0 No Activity--Work performed in PE 0305165F
 (U) \$0 Total

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<p>(U) <u>A. Mission Description Continued</u></p> <p>(U) <u>FY 2002 (\$ in Thousands)</u></p> <p>(U) \$4,700 GPS Modernization Stewardship</p> <p>(U) \$10,758 JPO Support for GPS III/Modernization</p> <p>(U) \$62,900 GPS III Development</p> <p>(U) \$78,358 Total</p> <p>(U) <u>B. Budget Activity Justification</u></p> <p>This program is Budget Activity 4 - Concept & Technology Development because it is a pre-milestone effort</p> <p>(U) <u>C. Program Change Summary (\$ in Thousands)</u></p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;"></th> <th style="text-align: center;"><u>FY 2000</u></th> <th style="text-align: center;"><u>FY 2001</u></th> <th style="text-align: center;"><u>FY 2002</u></th> <th style="text-align: center;"><u>Total Cost</u></th> </tr> </thead> <tbody> <tr> <td>(U) Previous President's Budget (FY 2001 PBR)</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> <tr> <td>(U) Appropriated Value</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td></td> <td style="text-align: center;">0</td> </tr> <tr> <td>(U) Adjustments to Appropriated Value</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td> a. Congressional/General Reductions</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td></td> <td style="text-align: center;">0</td> </tr> <tr> <td> b. Small Business Innovative Research</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td></td> <td style="text-align: center;">0</td> </tr> <tr> <td> c. Omnibus or Other Above Threshold Reprogram</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td></td> <td style="text-align: center;">0</td> </tr> <tr> <td> d. Below Threshold Reprogram</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td></td> <td style="text-align: center;">0</td> </tr> <tr> <td> e. Rescissions</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td></td> <td style="text-align: center;">0</td> </tr> <tr> <td>(U) Adjustments to Budget Years Since FY 2001 PBR</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">78,358</td> <td style="text-align: center;">0</td> </tr> <tr> <td>(U) Current Budget Submit/FY 2002 PBR</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">78,358</td> <td style="text-align: center;">TBD</td> </tr> </tbody> </table> <p>(U) <u>Significant Program Changes:</u> RDT&E funds for GPS III transferred from PE 0305165F starting in FY02.</p>				<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>Total Cost</u>	(U) Previous President's Budget (FY 2001 PBR)	0	0	0	0	(U) Appropriated Value	0	0		0	(U) Adjustments to Appropriated Value					a. Congressional/General Reductions	0	0		0	b. Small Business Innovative Research	0	0		0	c. Omnibus or Other Above Threshold Reprogram	0	0		0	d. Below Threshold Reprogram	0	0		0	e. Rescissions	0	0		0	(U) Adjustments to Budget Years Since FY 2001 PBR	0	0	78,358	0	(U) Current Budget Submit/FY 2002 PBR	0	0	78,358	TBD
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(U) D. Other Program Funding Summary (\$ in Thousands)											
	<u>FY 2000</u>	<u>FY 2001</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>Cost to</u>	<u>Total Cost</u>	
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>		
(U) AF RDT&E	0	0	0	0	0	0	0	0	0	0	
(U) Related RDT&E:											
(U) PE 0305165F NAVSTAR GPS (Space & Ground)	106,849	258,592	186,459	206,960	72,760	60,135	59,667	51,003	Continuing	TBD	
(U) Other APPN None											
(U) E. Acquisition Strategy											
In Nov 00, GPS III Source Selection awarded one-year contracts to Boeing and Lockheed Martin at \$16M each. Both companies shall complete a trade study in conjunction with development of System Architecture Requirements Definition (SARD). Contract Award for Component Advanced Development expected in FY02 with System Development and Demonstration phase scheduled to begin in FY04. Efforts accomplished prior to FY02 are included in PE 0305165F. The GPS JPO anticipates issuing an RFP to conduct a 'Full and Open Competition' with award planned to two qualified bidders. The Production and Deployment phase is expected to begin in FY07. If approved, GPS III functionality to host multi-mission platforms will be studied with new concept exploration efforts as well.											
(U) F. Schedule Profile											
				<u>FY 2000</u>			<u>FY 2001</u>			<u>FY 2002</u>	
				1	2	3	4	1	2	3	4
(U) System Architecture & Requirements Development								*			
(U) GPS III Defense Acquisition Executive (DAE) Review									X		
(U) Component Advanced Development Contract Awards										X	

