PE NUMBER: 0603421F PE TITLE: GLOBAL POSITIONING SYSTEM

	Ex	hibit R-2, F	RDT&E Bi	idget Item	Justificat	ion			DATE	February 2	2005
	GET ACTIVITY Advanced Component Developmer	nt and Proto	ypes (ACD	&Ρ)		BER AND TITLE		NG SYSTEN			
	Cost (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Cost to	Total
	· · · · · ·	Actual	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Complete	
0.01	Total Program Element (PE) Cost	0.000	39.913	87.364	236.635	485.892	772.513	903.394	831.076	Continuing	T
99:	3 GPS BLOCK III A. Mission Description and Budget It	0.000	39.913	87.364	236.635	485.892	772.513	903.394	831.076	Continuing	T
	Research and Development (R&D) for engineering and analysis, satellite system simulators, Integrated Logistics Support Funds will support engineering studies a efforts, and mission operations in support and allies' use of GPS.	ms developme t (ILS) produc and analyses, a	nt, the study of ts, and develo architectural e	of augmentatic pmental test r ngineering stu	on systems, co esources. idies, trade stu	ntrol segment idies, systems	development engineering,	, user equipmo system develo	opment, test a	training nd evaluation	tary
T	This program is Budget Activity 4 - Ad B. Program Change Summary (\$ in N	-	onent Develop	oment and Pro	totypes becau	se it is a Phase	e A (Concept	Development)).		
)	<u>b. Frogram Change Summary (5 m N</u>	<u>(IIIIIOIIS)</u>				FY 200)4	FY 2005	FY	2006	FY 200'
J)	Previous President's Budget					0.0		40.568		0.023	291.03
	Current PBR/President's Budget					0.00	00	39.913	8	7.364	236.63
J)	Total Adjustments					0.00	00	-0.655			
J)	Congressional Program Reductions							-0.655			
	Congressional Rescissions										
	Congressional Increases										
	Reprogrammings										
T	SBIR/STTR Transfer Significant Program Changes:										
)	The GPS III program has been restructure provide the opportunity to evaluate incr incrementally satisfy near-term warfigh architectures that take advantage of sma (SDR) in FY07.	emental satisfater requirement	action of GPS its. This appr	III requireme oach is intend	ents. This app ed to be comp	roach could de liant with FY	eliver a subset 05 authorizati	of mission-cr	ritical improve hat directs the	ements before evaluation of	FY13 to various
				R-1 Shopping L	<u>ist - Item No. 41</u> 619	-1 of 41-6				Exhibit R-2 (P	E 0603421

		Exhibi	t R-2a, R	DT&E	Project .	Justificati	on			DATE	February 2	2005
	GET ACTIVITY Advanced Component Develo	pment and I	Prototypes	s (ACD&	:P)			E L POSITION		ROJECT NUMBE 993 GPS BLC		
	Cost (\$ in Millions)	FY 20		2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Cost to	Total
10.0	· · ·	Actu		mate	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Complete	
499	3 GPS BLOCK III Quantity of RDT&E Articles	(0.000	<u>39.913</u> 0	<u>87.364</u> 0					4 831.076 0 0	<u> </u>	TBD
	A. Mission Description and Bud		,	0	0		0	0	I	0 0		
	Navstar Global Positioning System Research and Development (R&E engineering and analysis, satellite simulators, Integrated Logistics S Funds will support engineering st efforts, and mission operations in and allies' use of GPS. This program is Budget Activity	D) for GPS Blo systems deve upport (ILS) p udies and anal support of up	ock III Spac lopment, the products, and yses, archite grades and p	e and Co e study of d develop ectural en product ir	ontrol Segma f augmentat omental test ngineering s nprovement	ents. This inc ion systems, o resources. tudies, trade s ts for military	ludes, but is n control segmen tudies, system and civil appl	ot limited to, a nt developmen as engineering, ications neces	ndvanced con t, user equip system dev sary to supp	ncept developm ment interfaces elopment, test a port efforts to pro	ent, systems , training nd evaluation	
(U) (U) (U) (U)	B. Accomplishments/Planned P Continue Program Support for Gl Continue GPS III/Modernization Total Cost	PS III/Modern	ization					<u>FY 20</u> 0.0 0.0 0.0	00 00	<u>FY 2005</u> 3.473 36.440 39.913	<u>FY 2006</u> 4.200 83.164 87.364	<u>FY 2007</u> 4.664 231.971 236.635
(U)	C. Other Program Funding Sun	<u>nmary (\$ in N</u>	<u>(illions)</u>									
		<u>FY 2004</u> <u>Actual</u>	<u>FY 2005</u> <u>Estimate</u>			FY 2007 Estimate	<u>FY 2008</u> Estimate	<u>FY 2009</u> Estimate	<u>FY 2010</u> Estimate	<u>FY 2011</u> <u>Estimate</u>	<u>Cost to</u> <u>Complete</u>	<u>Total Cost</u>
(U)	AF RDT&E PE 0305165F Navstar GPS (Space & Ground), R-191 Other APPN	142.198	147.037	18	8.301	131.624	106.993	78.502	58.638	38.044	Continuing	TBD
	Operations and Maintenance (PE 0305165F, BA 1 - Operating Forces, SAG 13D)	50.161	62.340	7	0.129	81.821	85.643	86.607	91.435	101.338	Continuing	TBD
(U)	Missile Procurement (PE 0305165F, BA 5-Space and Other Support, P-22, 23)	252.318	327.583	31	8.086	301.489	264.989	147.317	167.080	531.467	Continuing	TBD
(U)	Other Procurement (PE	12.495	7.774	- 1	3.637	12.275	5.650	6.232	11.005	69.017	Continuing	TBD
Pro	ject 4993			R	R-1 Shopping	List - Item No.	41-2 of 41-6				Exhibit R-2a (P	E 0603421F)
						620						,

Exhibit R-	-2a, RDT&E Project	t Justification		DATE February 2005
BUDGET ACTIVITY 04 Advanced Component Development and Prot	otypes (ACD&P)	PE NUMBER AND TITLE 0603421F GLOBAL POSITIONING SYSTEM		CT NUMBER AND TITLE GPS BLOCK III
 U) C. Other Program Funding Summary (\$ in Millie 0305165F, BP 83-Electronics and Telecommunications Equipment, WSC 836790, P-70 and WSC 836730; BP 86 - Spares & Repair Parts WSC 86190A, P-62) U) D. Acquisition Strategy On 15 Sep 03, the USecAF signed an Acquisition I GPS III. Two Phase A contracts were awarded in . Review (SRR), culminating in a Key Decision Point the completion of a System Design Review (SDR) award prior to KDP-B in order to minimize budget exploration/risk reduction activities will evaluate the system of the complexition of the completion of a System Design Review (SDR) award prior to KDP-B in order to minimize budget exploration/risk reduction activities will evaluate the system of the complexition activities will evaluate the system of the complexition of the complexition activities will evaluate the system of the complexition of the complexition activities will evaluate the system of the complexition of the complexition activities will evaluate the system of the complexition of the complexition activities will evaluate the system of the complexition of the complexition activities will evaluate the system of the complexities will evaluate the system of the complexities	Decision Memorandum dir Jan 04 to Lockheed-Martin nt-B (KDP-B) by 3QFY05 prior to KDP-B. To comp and schedule impacts. Th	recting the GPS JPO to re-initiate Phase A activitie a and Boeing, with direction to mature the GPS III . In Dec 04, the National Security Space Acquisiti oly with this policy, the program will now conduct are winning contractor will then conduct SDR in 2Q	program th on Policy v RFP release FY07, and	rough Systems Requirements vas updated, which now requires e, source selection and contract KDP-B in 3QFY07. Concept
Project 4993	R-1 Shoppin	ng List - Item No. 41-3 of 41-6		Exhibit R-2a (PE 060342

	Exhib	it R-3, RD	T&E Proj	ect Co	st Ana	lysis					DATE		ary 200)5
BUDGET ACTIVITY 04 Advanced Component Develop	ment and	Prototypes	s (ACD&P)		060	IUMBER A 3421F G STEM		POSITIC	ONING			I EDIC IBER AND T LOCK III		5
U) <u>Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract</u> <u>Method &</u> <u>Type</u>	Performing Activity & Location	<u>Total</u> <u>Prior to FY</u> <u>2004</u> <u>Cost</u>	<u>FY 2004</u> <u>Cost</u>	FY 2004 Award Date	<u>FY 2005</u> <u>Cost</u>	FY 2005 Award Date	<u>FY 2006</u> <u>Cost</u>	FY 2006 Award Date	<u>FY 2007</u> <u>Cost</u>	FY 2007 Award Date	<u>Cost to</u> Complete	<u>Total Cost</u>	<u>Targe</u> <u>Value o</u> <u>Contra</u>
U) <u>Product Development</u> Concept Defn and Risk Reduction													0.000	
Boeing	FPLOE	Seal Beach, CA	3.234	0.000		0.000		0.000		0.000		0.000	3.234	
Lockheed Martin	FPLOE	King of Prussia, PA	3.290	0.000		0.000		0.000		0.000		0.000	3.290	
Spectrum Astro Phase A Continuation Contracts	FPLOE	Gilbert, AZ	3.234	0.000		0.000		0.000		0.000		0.000	3.234 0.000	
Boeing	CPIF	Seal Beach, CA	12.774	0.000		5.600	Dec-04	0.000		0.000		0.000	18.374	20.81
Lockheed Martin	CPIF	King of Prussia, PA	12.774	0.000		5.600	Dec-04	0.000		0.000		0.000	18.374	20.81
Anticipated Phase A(SDR) Contract	CPIF	TBD	57.637	0.000		0.000		38.217	Jun-06	156.079	Nov-06	Continuing	TBD	
GPS III/Modernization System Engineering	Various	Various	0.000	0.000		25.240	Dec-04	44.947		75.892	Nov-06	Continuing	TBD	
& Technical Support Subtotal Product Development Remarks:			92.943	0.000		36.440		83.164		231.971		Continuing	TBD	41.63
U) Support JPO Support for GPS III / Modernization GPS Modernization Stewardship Subtotal Support Remarks: GPS Modernizati	Various Various ion Stewardsh	Various Various ip transferred to	10.107 9.200 19.307 PE 0306165F st	0.000 0.000 0.000 arting in FY	704	3.473 0.000 3.473	Nov-04	4.200 0.000 4.200	Nov-05	4.664 0.000 4.664	Nov-06	Continuing Continuing Continuing	TBD TBD TBD	0.00
 <u>Test & Evaluation</u> Subtotal Test & Evaluation 			0.000	0.000		0.000		0.000		0.000		0.000	0.000 0.000	0.0
Remarks: U) <u>Management</u>			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.00
Subtotal Management Remarks:			0.000	0.000		0.000		0.000		0.000		0.000	$0.000 \\ 0.000$	0.00
U) Total Cost			112.250	0.000		39.913		87.364		236.635		Continuing	TBD	41.63
Project 4993			R-1 S	hopping Li		o. 41-4 of 4	11-6					Exhibi	t R-3 (PE 06	603421F)
					622 L ASSIF									

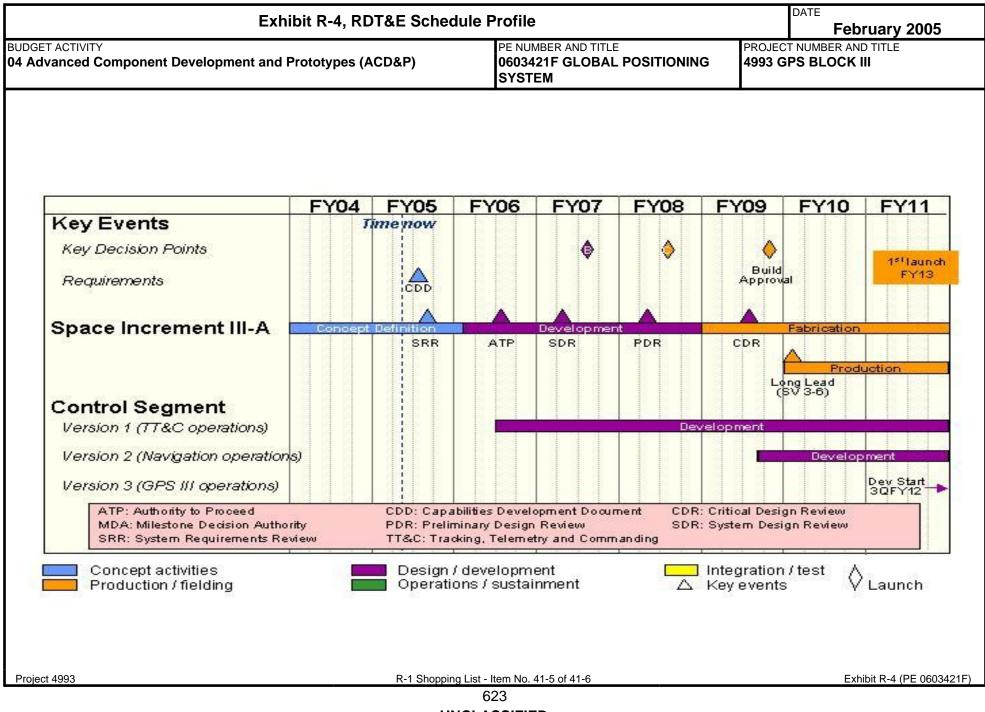


Exhibit R-4a, RDT&E Schedule	DATE Febru	ary 2005		
BUDGET ACTIVITY 04 Advanced Component Development and Prototypes (ACD&P)	PE NUMBER AND TITLE 0603421F GLOBAL PO SYSTEM	OSITIONING	PROJECT NUMBER AND T 4993 GPS BLOCK III	ITLE
(U) <u>Schedule Profile</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Phase A Contract Award	2Q			
(U) Joint Requirements Oversight Council (JROC) Capabilities Development		3Q		
Document (CDD)				
(U) System Requirements Review (SRR)		3Q		
(U) Acquisition Strategy Panel (ASP)		4Q		
(U) Phase A System Development Review (SDR) Request for Proposal (RFP) Released			1Q	
(U) Phase A (SDR) Contract Award (Jun 06)			3Q	
(U) SDR				2Q
(U) Key Decision Point (KDP)-B				3Q