	RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)										June 2001		
	ET ACTIVITY Operational System Development	PE NUMBER AND TITLE 0207136F Manned Destructive Suppression									PROJECT 4595		
	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		
4595	F-16 HARM Targeting System (HTS)	3,188	14,535	22,239	23,947	14,669	9,680	7,876	0	Continuing	TBD		
	Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0	0		

Note: FY03-FY07 budget numbers do not reflect DoD's strategic review results.

(U) A. Mission Description

The overall Manned Destructive Suppression (MDS) program funds the development, procurement, and sustainment of the Air Force's lethal Suppression of Enemy Air Defenses (SEAD) capability. The program provides F-16 Block 50/52 aircraft with the ability to employ the AN/ASQ-213 HARM Targeting System (HTS). F-16 HTS is the only currently programmed reactive SEAD capability and enables targeting the HARM missile in the most lethal 'range known' mode. This RDT&E effort continues HTS preplanned product improvement (P3I). In FY00 the HTS P3I program began development of the HTS Revision 7 (R7) upgrade. In FY01 work has started to develop HTS engineering changes needed to permit the F-16 to carry both an HTS pod and an advanced targeting pod (TGP). These HTS improvements represent the Air Force's near-term solution (until replaced by JSF or some alternate undefined system) for Destruction of Enemy Air Defenses (DEAD) mission. R7/alternate/dual carriage will allow targeting of the Joint Standoff Weapon (JSOW) and potentially targeting of other precision guided munitions (PGMs) needed to destroy fixed and mobile enemy air defense system elements. R7 derived coordinates of threat emitters will be available to all Joint Forces via Link-16.

(U) <u>FY 2000 (\$ in Thousands)</u>

(U) \$3,060 Initiate HTS R7 Geolocation Upgrade Program Definition study & Risk Reduction (PDRR)

(U) \$128 Continue Mission Support

(U) \$3,188 Total

(U) FY 2001 (\$ in Thousands)

(U) \$1,534 Complete HTS R7 Geolocation Upgrade Program Definition study & Risk Reduction (PDRR)

(U) \$12,010 Continue R7 Geolocation Upgrade Development (Includes HTS/TGP Dual Carriage)

(U) \$30 Initiate R7 Upgrade Test and Evaluation Support

(U) \$961 Continue Mission Support

(U) \$14,535 Total

The following net transactions are not reflected in the FY01 program total: BTR= -380K and SBIR= -469K. These transactions are not reflected in other sections of the RDocs where an FY01 total is shown.

Project 4595 Page 1 of 5 Pages Exhibit R-2 (PE 0207136F)

	date Jun	June 2001			
BUDGET ACTIVITY 07 - Operatio	nal System Development	PE NUMBER AND TITLE 0207136F Manned	uppression	PROJECT 4595	
U) A. Mission	Description Continued				
(U) FY 2002 (\$ (U) \$20,628 (U) \$100 (U) \$1,511 (U) \$22,239	in Thousands) Continue R7 Geolocation Upgrade Development Continue R7 Upgrade Test and Evaluation Support Continue Mission Support Total				
	Activity Justification n Budget Activity 7 - Operational System Development because em.	it supports preplanned produc	t improvements and	l upgrade development	of F-16 HTS, a
(U) <u>C. Progran</u>	n Change Summary (\$ in Thousands)				
(U) Appropriate (U) Adjustment a. Congress	s to Appropriated Value ional/General Reductions	FY 2000 3,363 3,402	FY 2001 14,670 14,670 -103	<u>FY 2002</u> 22,113	<u>Total Co</u> TBI
c. Omnibus d. Below Tl	siness Innovative Research or Other Above Threshold Reprogram hreshold Reprogram	-180			
	ons s to Budget Years Since FY 2001 PBR dget Submit/FY 2002 PBR	-13 3,188	-32 14,535	126 22,239	TBI
	Program Changes: ant program changes from the FY 2001 PBR to the FY 2002 PB	R.			
Project 4595	Pa	ge 2 of 5 Pages		Exhibit R-2	2 (PE 0207136F)

	RDT&E BUDGET	June 2001										
	GET ACTIVITY • Operational System Developn		NUMBER AND 07136F 1		ession	ргојест 4595						
(U)	FY 2000	<u>FY 2000</u> <u>FY 2001</u> <u>FY 2002</u> <u>I</u>								FY 2007 Estimate	Cost to Complete	
(U)	AF RDT&E Other APPN HTS Aircraft Procurement (BP11)AF PE 0207136F				10,537	9,971	8,488	971	Continuing			
(U)	HTS Aircraft Procurement (BP19)AF PE 0207136F	13,528				20,289			Continuing			
(U)	E. Acquisition Strategy The HTS program objective is to develop precision geolocation capability that significantly improves speed and accuracy of emitter targeting solutions on F-16 Block 50/52 aircraft. Precision geolocation capability will permit targeting of PGMs such as JSOW, in addition to the HARM missile, against mobile and fixed sites. The objective will be accomplished through study, risk reduction, and a System Development and Demonstration (SDD) effort leading to significant upgrades and increases in the F-16's and Joint Forces' real-time Destruction of Enemy Air Defenses (DEAD) capabilities.											
(U)	F. Schedule Profile				EX. 2000		EV 2	001		EV 2002		
				1 2		4 1	<u>FY 2</u> 2	3 4	1	FY 2002 2 3 4		
(U) (U) (U)	R6 Upgrade Development Complete R7 PDRR Contract Award R6 Initial Fielding**			k	*							
(U) (U)	R6 Fielding Complete R6 Lot 2 Pod Deliveries Complete (16 Po	· ·							X	X		
• ` ′	R6 Lot 3 Pod Deliveries Complete (13 Po R6 Lot 4 Contract Award R7 SDD Contract Award	ods)					*			X		
(U)	R6 Lot 4 Pod Deliveries (31 Pods) * = Completed Event X = Planned E ** Start of R6 Fielding slipped from FY99		his slip also	cause delay i	n R6 Pod Pro	duction deliv	veries for nev	w buy Lots 2	and 3.	X		
Р	roject 4595			Page 3 of	5 Pages				Exhibit R-	Exhibit R-2 (PE 0207136F)		

	RDT&E PRO	DATE	DATE June 2001								
	SET ACTIVITY Operational System	n Developme		er and title 36F Manne	ed Destruc	ression	ression				
(U)	A. Project Cost Breakdov	vn (\$ in Thousand	ds)								
(U)	HTS R7 Program Definitio	n study and Risk l	Reduction (PD	RR)				<u>2000</u> ,060	<u>FY 20</u>		FY 2002
(U)	R7 Geolocation Dev (Inclu	•	,					,000	12,0		20,628
(U)	Test & Evaluation Support		ar carrage)							30	100
(U)	Mission Support							128		61	1,511
(U)	Total							,188	14,5		22,239
(U)	B. Budget Acquisition His	tory and Plannin	g Information	ı (\$ in Thousand	<u>ls</u>)						
(U)	Performing Organizations	<u>s:</u>									
	Contractor or	Contract									
	Government	Method/Type	Award or	<u>Performing</u>	Project						
	Performing	or Funding	Obligation	<u>Activity</u>	<u>Office</u>	Total Prior	Budget	<u>Budget</u>	<u>Budget</u>	Budget to	<u>Total</u>
	<u>Activity</u>	<u>Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>	to FY 2000	FY 2000	FY 2001	FY 2002	Complete	<u>Program</u>
	Product Development Orga	<u>nizations</u>									
	Raytheon Systems Co.	SS/Various	Various	63,404	63,404	6,808	3,060	13,544	20,628	Continuing	TBD
	Raytheon Systems Co.	SS/CPAF	Feb 96	31,331	31,331	31,331					31,331
	AFMSS	SS/CPIF	Various	1,885	1,885	1,885					1,885
	Lockheed/Ft Worth	SS/FFP	Various	2,400	2,400	2,400					2,400
	Support and Management C	<u>Organizations</u>									
	Prog. Mgt. and Mission	Various	Various			3,983	128	961	1,511	Continuing	TBD
	Support										
	Test and Evaluation Organi										
	Eglin	PO	Various			2,175					2,175
	Edwards	PO	Various			4,394		30	100	Continuing	
	Light Defender		Various			922					922
P	roject 4595			Pag	ge 4 of 5 Pag	ges			Exhil	oit R-3 (PE	0207136F)

RDT&E P	ROGRAM ELEN	REAKDO	WN (R-3))	DATE June 2001				
BUDGET ACTIVITY 07 - Operational Sys		R AND TITLE 6F Manne	PROJECT 4595						
Item Description Product Development Not Applicable Support and Managen Not Applicable Test and Evaluation P	Contract Method/Type A or Funding O Yehicle D Property ment Property	 <u>Delivery</u> <u>Date</u>		Total Prior to FY 2000	Budget FY 2000	Budget FY 2001	Budget FY 2002	Budget to Complete	<u>Total</u> <u>Program</u>
Not Applicable Subtotals Subtotal Product Development and I Subtotal Test and Eval Total Project	Management			Total Prior to FY 2000 42,424 3,983 7,491 53,898	Budget FY 2000 3,060 128 3,188	Budget FY 2001 13,544 961 30 14,535	Budget FY 2002 20,628 1,511 100 22,239	Budget to Complete TBD TBD TBD TBD TBD	Total Program TBD TBD TBD TBD
Project 4595			Page 5 of 5 Page	es			Exhib	it R-3 (PE 02)	07136F)