

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 EXHIBIT)	DATE February 1999
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BUDGET ACTIVITY 7 - Operational System Development	PE NUMBER AND TITLE 0207136F Manned Destructive Suppression	PROJECT 4595
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COST (\$ In Thousands)	FY 1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
4595 F-16 HARM Targeting System (HTS)	11,659	2,392	5,402	1,472	1,470	1,468	1,466	1,465	0	67,370
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0	0

(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 certain F-16 aircraft the capability to carry and employ the AGM-88 High-Speed Anti-Radiation Missile (HARM). The F-16C/Blk 50 has been modified to carry the AN/ASQ-213 HARM Targeting System (HTS) for real-time targeting, and "range known" HARM employment - the missile's most lethal mode. RDT&E effort is focused on making the HTS system more capable in advanced threat environments, incorporating precision targeting capability, reducing support costs and extending service life.

(U) FY 1998 (\$ in Thousands):

- (U) \$6,128 Continued Engineering and Manufacturing Development (EMD) of HTS Upgrade Development
- (U) \$858 Developed HTS Air Force Mission Support System (AFMSS) modifications
- (U) \$4,037 Continued HTS Test and Evaluation
- (U) \$636 Continued Mission Support
- (U) \$11,659 Total

(U) FY 1999 (\$ in Thousands):

- (U) \$307 Complete Development of HTS Air Force Mission Support System (AFMSS) modifications
- (U) \$1,671 Continue HTS Test and Evaluation
- (U) \$409 Continue Mission Support
- (U) \$5 Identified as a Source for SBIR
- (U) \$2,392 Total

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BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT
7 - Operational System Development	0207136F Manned Destructive Suppression	4595
<p>(U) <u>FY 2000 (\$ in Thousands):</u></p> <ul style="list-style-type: none">- (U) \$3,902 Initiate HTS R7 Upgrade Study- (U) \$1,500 Continue Mission Support- (U) \$5,402 Total <p>(U) <u>FY 2001 (\$ in Thousands):</u></p> <ul style="list-style-type: none">- (U) \$1,472 Continue Mission Support- (U) \$1,472 Total <p>(U) B. <u>Budget Activity Justification:</u></p> <p>This PE is in Budget Activity 7 - Operational System Development because it supports upgrade development of F-16 HTS, a fielded system.</p>		
Project 4595	Page 2 of 6 Pages	Exhibit R-2 (PE 0207136F)

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7 - Operational System Development					February 1999					
BUDGET ACTIVITY			PE NUMBER AND TITLE		PROJECT					
7 - Operational System Development			0207136F Manned Destructive Suppression		4595					
(U) C. Program Change Summary (\$ in Thousands)										
	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Total Cost</u>					
(U) Previous President's Budget (FY 1999 PB)	12,259	2,443	0	0	55,278					
(U) Appropriated Value	13,561									
(U) Adjustments to Appropriation										
a. Congressional/General Reductions	-474	-51								
b. SBIR	-568									
c. Omnibus and Other Above Threshold	-288									
Reprogramming										
d. Below Threshold Reprogramming	-572									
(U) Adjustment to Budget Years since FY 1999 PB			5,402	1,472						
(U) Current Budget Submit/FY 2000 President's Budget	11,659	2,392	5,402	1,472	67,370					
Significant Program Changes:										
Funding was added to HARM Targeting System RDT&E effort in FY 2000 to initiate HTS R7 upgrade study and development. Upgrade effort will focus on giving HTS better capability to counter new threats, adding precision targeting capabilities, reducing future support cost and extending system life.										
FY 1999: \$5 Identified as a source for SBIR.										
(U) D. Other Program Funding Summary (\$ in Thousands)										
	<u>FY 1998</u>	<u>FY 1999</u>	<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>To Compl</u>	<u>Total Cost</u>
(U) HTS Aircraft Procurement (BP11)AF PE 0207136F	11,866	5,738								19,679
(U) HTS Aircraft Procurement (BP19)AF PE 0207136F		10,054								26,257

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<p>(U) E. Acquisition Strategy:</p> <p>The HTS program objective is to develop an enhanced HARM Targeting System capability that improves HARM effectiveness on F-16C/Blk 50 aircraft. The objective will be accomplished by EMD efforts that significantly upgrade and increase the aircraft real-time, reactive Suppression of Enemy Air Defenses (SEAD).</p> <p>(U) F. Schedule Profile</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;"></th> <th colspan="4" style="text-align: center;"><u>FY 1998</u></th> <th colspan="4" style="text-align: center;"><u>FY 1999</u></th> <th colspan="4" style="text-align: center;"><u>FY 2000</u></th> <th colspan="4" style="text-align: center;"><u>FY 2001</u></th> </tr> <tr> <th></th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> </tr> </thead> <tbody> <tr> <td>(U) Complete F-16 HTS Upgrade Development</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td>X</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> </tr> <tr> <td>(U) Initiate F-16 HTS R7 Development</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td>X</td> <td></td><td></td><td></td><td></td> </tr> <tr> <td>(U) New Buy Lot 2 Contract Award</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> </tr> <tr> <td>(U) Retrofit Component Prod Contract Award</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> </tr> <tr> <td>(U) Retrofit Installation</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td>X</td><td></td> <td></td><td></td><td>X</td><td></td> <td></td><td></td><td></td><td></td> </tr> <tr> <td>(U) New Buy Lot 1 Pod Deliveries</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> </tr> <tr> <td>(U) New Buy Lot 2 Pod Deliveries</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td>X</td><td>X</td> <td></td><td></td><td></td><td></td> </tr> <tr> <td>(U) New Buy Lot 3 Contract Award</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td>X</td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> </tr> <tr> <td>(U) New Buy Lot 3 Pod Deliveries</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td>X</td><td>X</td> </tr> <tr> <td>(U) R6 Fielding</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td>X</td> <td></td><td></td><td>X</td><td></td> <td></td><td></td><td></td><td></td> </tr> </tbody> </table> <p>* = Completed Event X = Planned Event</p>														<u>FY 1998</u>				<u>FY 1999</u>				<u>FY 2000</u>				<u>FY 2001</u>					1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	(U) Complete F-16 HTS Upgrade Development								X									(U) Initiate F-16 HTS R7 Development												X					(U) New Buy Lot 2 Contract Award																	(U) Retrofit Component Prod Contract Award																	(U) Retrofit Installation							X				X						(U) New Buy Lot 1 Pod Deliveries																	(U) New Buy Lot 2 Pod Deliveries											X	X					(U) New Buy Lot 3 Contract Award							X										(U) New Buy Lot 3 Pod Deliveries															X	X	(U) R6 Fielding								X			X					
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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)										DATE February 1999	
BUDGET ACTIVITY 7 - Operational System Development					PE NUMBER AND TITLE 0207136F Manned Destructive Suppression					PROJECT 4595	
(U) B. <u>Budget Acquisition History and Planning Information (\$ in Thousands)</u>											
Performing Organizations:											
Contractor or Government Performing Activity	Contract Method/Type or Funding Vehicle	Award or Obligation Date	Performing Activity EAC	Project Office EAC	Total Prior to FY 1998	Budget FY 1998	Budget FY 1999	Budget FY 2000	Budget FY 2001	Budget to Complete	Total Program
Identified as a source for SBIR								5			5
<u>Product Development Organizations</u>											
Raytheon/TI Systems	SS/FFP	Various	6,808	6,808	6,808	0	0	3,902	0	0	10,710
Raytheon/TI Systems	SS/CPAF	Feb 96	24,803	24,803	24,803	6,128	0	0	0	0	30,931
AFMSS	SS/CPIF	Various			914	858	307	0	0	0	2,079
Lockheed/Ft Worth	SS/FFP	Various	2,400	2,400	2,400	0	0	0	0	0	2,400
<u>Support and Management Organizations</u>											
Prog. Mgt. and Mission Support	Various	Various			3,314	636	409	1,500	1,472	5,869	13,200
<u>Test and Evaluation Organizations</u>											
Eglin	PO	Various			901	966	595	0	0	0	2,462
Edwards	PO	Various			514	3,071	1,076	0	0	0	4,661
Light Defender		Various			922	0	0	0	0	0	922
Government Furnished Property: Not Applicable.											
Identified as a source for SBIR								5			5
Subtotal Product Development					34,925	6,986	307	3,902	0	0	46,120
Subtotal Support and Management					3,314	636	409	1,500	1,472	5,869	13,200
Subtotal Test and Evaluation					2,337	4,037	1,671	0	0	0	8,045
Total Project					40,576	11,659	2,392	5,402	1,472	5,869	67,370
Project 4595											