

UNCLASSIFIED

PE NUMBER: 0207136F

PE TITLE: Manned Destructive Suppression

Exhibit R-2, RDT&E Budget Item Justification	DATE February 2007
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Cost (\$ in Millions)	FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	7.229	0.513	0.000	0.000	0.000	0.000	0.000	0.000	0.000	156.797
4595 F-16 Smart Targeting and Identification via Networked Geolocation (STING)	7.229	0.513	0.000	0.000	0.000	0.000	0.000	0.000	0.000	156.797

F-16 Smart Targeting and Identification via Networked Geolocation (STING) is the unofficial name for the HARM Targeting System Release 7 (R7). Because future HTS improvements (Releases R8 and R9) are being considered, use of the STING acronym is being discontinued to avoid confusion.

(U) A. Mission Description and Budget Item Justification

The overall Manned Destructive Suppression (MDS) program funds the development, procurement, and sustainment of the Air Force's Suppression of Enemy Air Defenses (SEAD) and Destruction of Enemy Air Defenses (DEAD) capabilities. The F-16 HARM Targeting System (HTS) is currently the only programmed reactive SEAD capability and enables targeting the HARM missile in its most lethal 'range known' mode. The program provides F-16 Block 50/52 aircraft with the ability to employ the AN/ASQ-213 Pod. This RDT&E effort continues preplanned product improvements (P3I) and applies technologies similar to those demonstrated in the Advanced Tactical Targeting Technologies (AT3) program. In FY00, P3I development of HTS Revision 7 (HTS R7) began to address evolving threats and to incorporate into the AN/ASQ 213 Pod a precision geolocation capability to target Precision Guided Munitions (PGMs). In FY01, the R7 P3I Program Definition and Risk Reduction (PDRR) was completed and the contract was awarded for System Development and Demonstration (SDD). HTS R7 developed changes will also enable the F-16 to carry both an AN/ASQ-213 HTS R7 Pod and an Advanced Targeting Pod (ATP), by relocating HTS R7 pod to the aircraft's left inlet hard point. These improvements represent the Air Force's near-term solution (capability can be transferred to F-35 or a yet defined system) for reactive time critical targeting for the DEAD mission. HTS R7 will target HARM and other PGMs to destroy fixed and mobile enemy air defense elements. HTS R7 precision coordinates will be available to all Joint Forces via Link-16. FY07 continues flight test activities and conducts investigation, studies, and preliminary design activities for future P3I. While the program currently has no RDT&E funding programmed after FY07, future upgrade efforts are being considered to improve system performance and counter evolving threats.

This PE is in Budget Activity 7 - Operational System Development because it supports preplanned product improvements and upgrade development of F-16 HTS (R6), a fielded system, to the HTS R7 configuration.

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(U) B. Program Change Summary (\$ in Millions)

	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Previous President's Budget	9.260	0.513		
(U) Current PBR/President's Budget	7.229	0.513		
(U) Total Adjustments	-2.031	-0.002		
(U) Congressional Program Reductions				
Congressional Rescissions		-0.002		
Congressional Increases				
Reprogrammings	-1.823			
SBIR/STTR Transfer	-0.208			
(U) <u>Significant Program Changes:</u>				

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Cost (\$ in Millions)	FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total
4595 F-16 Smart Targeting and Identification via Networked Geolocation (STING)	7.229	0.513	0.000	0.000	0.000	0.000	0.000	0.000	0.000	156.797
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

(U) **A. Mission Description and Budget Item Justification**

The overall Manned Destructive Suppression (MDS) program funds the development, procurement, and sustainment of the Air Force's Suppression of Enemy Air Defenses (SEAD) and Destruction of Enemy Air Defenses (DEAD) capabilities. The F-16 HARM Targeting System (HTS) is currently the only programmed reactive SEAD capability and enables targeting the HARM missile in its most lethal 'range known' mode. The program provides F-16 Block 50/52 aircraft with the ability to employ the AN/ASQ-213 Pod. This RDT&E effort continues preplanned product improvements (P3I) and applies technologies similar to those demonstrated in the Advanced Tactical Targeting Technologies (AT3) program. In FY00, P3I development of HTS Revision 7 (HTS R7) began to address evolving threats and to incorporate into the AN/ASQ 213 Pod a precision geolocation capability to target Precision Guided Munitions (PGMs). In FY01, the R7 P3I Program Definition and Risk Reduction (PDRR) was completed and the contract was awarded for System Development and Demonstration (SDD). HTS R7 developed changes will also enable the F-16 to carry both an AN/ASQ-213 HTS R7 Pod and an Advanced Targeting Pod (ATP), by relocating HTS R7 pod to the aircraft's left inlet hard point. These improvements represent the Air Force's near-term solution (capability can be transferred to F-35 or a yet defined system) for reactive time critical targeting for the DEAD mission. HTS R7 will target HARM and other PGMs to destroy fixed and mobile enemy air defense elements. HTS R7 precision coordinates will be available to all Joint Forces via Link-16. FY07 continues flight test activities and conducts investigation, studies, and preliminary design activities for future P3I. While the program currently has no RDT&E funding programmed after FY07, future upgrade efforts are being considered to improve system performance and counter evolving threats.

This PE is in Budget Activity 7 - Operational System Development because it supports preplanned product improvements and upgrade development of F-16 HTS (R6), a fielded system, to the HTS R7 configuration.

(U) **B. Accomplishments/Planned Program (\$ in Millions)**

	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Continue HTS R7 Geolocation Upgrade Development/P3I related activities	5.002			
(U) Continue HTS R7 Upgrade Test and Evaluation Support	1.530			
(U) Continue Mission Support	0.697	0.513		
(U) Total Cost	7.229	0.513	0.000	0.000

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(U) **C. Other Program Funding Summary (\$ in Millions)**

	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Complete</u>							
(U) AF RDT&E										
(U) Other APPN										
(U) HTS Aircraft Procurement (BP11) APAF PE 0207136F	20.713	7.262	0.000	0.000						27.975
(U) HTS Aircraft Procurement (BP19) APAF PE 0207136F	16.917	8.634	10.129	10.216						45.896

(U) **D. Acquisition Strategy**

The HTS R7 included accomplishment of risk reduction studies and selection of appropriate contracting strategies for SDD and retrofit of HTS inventory.

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Exhibit R-3, RDT&E Project Cost Analysis

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(U) Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total Prior to FY 2006 Cost</u>	<u>FY 2006 Cost</u>	<u>FY 2006 Award Date</u>	<u>FY 2007 Cost</u>	<u>FY 2007 Award Date</u>	<u>FY 2008 Cost</u>	<u>FY 2008 Award Date</u>	<u>FY 2009 Cost</u>	<u>FY 2009 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>	
(U) <u>Product Development</u>															
Raytheon Systems Co.	SS/Variou s		88.073	5.002									93.075		
Raytheon Systems Co.	SS/CPAF		31.331										31.331		
AFMSS	SS/CPIF		2.674										2.674		
Lockheed/Ft Worth	SS/FFP		2.400										2.400		
Subtotal Product Development			124.478	5.002		0.000		0.000		0.000		0.000	129.480	0.000	
Remarks:	HTS R7 SDD Contract awarded FY01 (on-going through FY07)														
(U) <u>Support</u>															
Mission Support	Various		8.741	0.697		0.513							9.951		
Subtotal Support			8.741	0.697		0.513		0.000		0.000		0.000	9.951	0.000	
Remarks:															
(U) <u>Test & Evaluation</u>															
Eglin	PO		2.175										2.175		
Edwards	PO		12.739	1.530									14.269		
Light Defender			0.922										0.922		
Subtotal Test & Evaluation			15.836	1.530		0.000		0.000		0.000		0.000	17.366	0.000	
Remarks:															
(U) <u>Management</u>															
Subtotal Management			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	
Remarks:															
(U) Total Cost			149.055	7.229		0.513		0.000		0.000		0.000	156.797	0.000	

Exhibit R-4, RDT&E Schedule Profile

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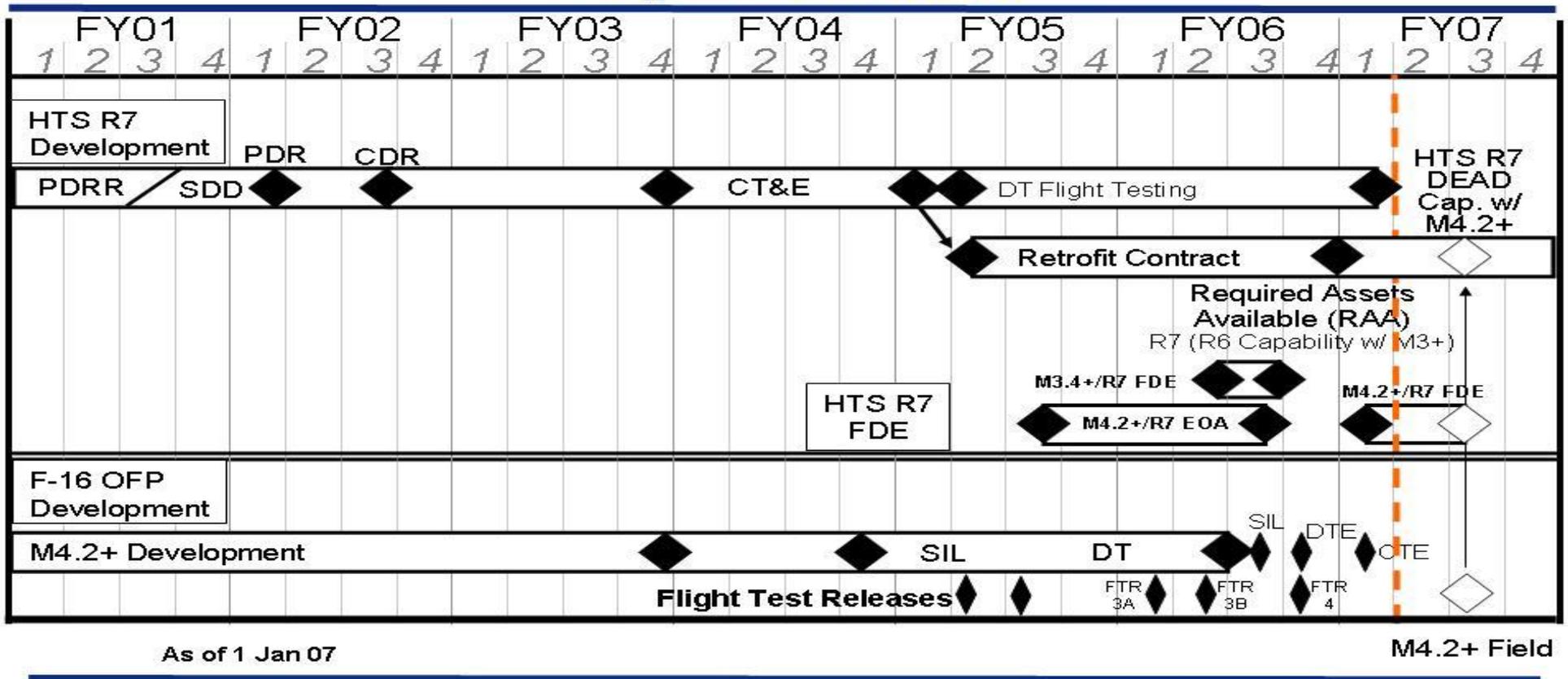
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HTS R7 Development Program Schedule



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Exhibit R-4a, RDT&E Schedule Detail		DATE February 2007
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(U) <u>Schedule Profile</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Retrofit Kit Installation (83 Kits) -- Contract Awarded	1Q			
(U) Retrofit Kits -- Contract Awarded (117 Kits)	2Q			
(U) R7 RAA (R6 Capability w/ F-16 OFP M3+)	4Q			
(U) Retrofit Kit Installation (117 Kits) -- Contract Awarded		1Q		
(U) P3I Study - R7 Follow-on Study -- Contract Award		2Q		
(U) R7 Precision Targeting Capability (w/ F-16 OFP M4+)		3Q		