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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Air Force	Date: March 2014
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Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0207136F / <i>Manned Destructive Suppression</i>
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COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	-	13.362	11.022	14.831	-	14.831	14.959	15.040	15.334	15.626	Continuing	Continuing
674595: <i>F-16 HARM Targeting System</i>	-	13.362	11.022	14.831	-	14.831	14.959	15.040	15.334	15.626	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

The Manned Destructive Suppression (MDS) program element 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 and Block 40/42 aircraft with the ability to employ the AN/ASQ-213 Pod. With the introduction of HTS Revision 7 (HTS R7) in 2007, the AN/ASQ-213 Pod now has a precision geo-location capability to target Precision Guided Munitions (PGMs) to destroy fixed and mobile enemy air defense elements. Additionally, by relocating the AN/ASQ-213 HTS R7 Pod to the aircraft's left inlet hard point, the F-16 can simultaneously carry the HTS R7 Pod and an Advanced Targeting Pod (ATP). HTS R7 fielding is complete and represents the Air Force's near-term solution for reactive time critical targeting for DEAD until this mission can be transferred to F-35 or a yet to be defined system. HTS R7 derived precision targeting data can be provided to all Joint Forces via Link-16. This effort continues preplanned product improvements (P3I) for the HTS and applies technologies similar to those demonstrated in the Advanced Tactical Targeting Technologies (AT3) program and HTS R7 development.

This program is in Budget Activity 7, Operational System Development because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.

B. Program Change Summary (\$ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	13.683	13.138	15.017	-	15.017
Current President's Budget	13.362	11.022	14.831	-	14.831
Total Adjustments	-0.321	-2.116	-0.186	-	-0.186
• Congressional General Reductions	-0.018	-			
• Congressional Directed Reductions	-	-2.116			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.303	-			
• Other Adjustments	-	-	-0.186	-	-0.186

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Change Summary Explanation FY14: reduced -\$2.116 for Congressional Program decrease.				
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2013	FY 2014	FY 2015
Title: P3I R7 Software Upgrade (SWUP) Description: P3I R7 Software Upgrade (SWUP) FY 2013 Accomplishments: HTS R7.8 SWUP development continued from risk reduction and program definition to software development and preparation for flight testing. Studies continued on risk reduction efforts for future P3I phase(s). Mission support, i.e., program management for administrative and technical support activities continued. The major thrusts of this year were R7.8 SWUP design and code activities and planning for subsequent flight testing. FY 2014 Plans: HTS R7.8 SWUP development continues in software development and start of initial flight testing. Studies continue on risk reduction efforts for future P3I phase(s). Mission support, i.e., program management for administrative and technical support continue. The major thrusts of this year is R7.8 SWUP design, code and testing preparation for the first initial flight testing. FY 2015 Plans: HTS R7.8 SWUP development continues in software development and baseline flight testing, test data analysis, software fixes, and release of updated software for iterative flight testing. Studies continue on risk reduction efforts for future P3I phase(s). Mission support, i.e., program management for administrative and technical support continues. The major thrusts of this year are R7.8 SWUP baseline flight testing and preparation for formal development flight testing.		10.574	9.887	12.048
Title: Flight Test Description: Flight Test FY 2013 Accomplishments: Government flight test operations continued to include test planning, and risk mitigation plans to address scarcity of resources; i.e., aircraft and ranges. This funding also included test data analysis support and baselining of requirements from actual test data results during HTS SWUP R7.7 flight tests. FY 2014 Plans: Government flight test operations completes planning phase and enters into initial flight testing of R7.8 SWUP software capabilities. This funding also include test data analysis support and baselining of requirements from actual test data results during initial flight testing. Ground testing such as anechoic chamber testing will be conducted, as needed. The test organization		1.900	0.500	1.983

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C. Accomplishments/Planned Programs (\$ in Millions)								FY 2013	FY 2014	FY 2015	
will conduct each mission to include F-16 test aircraft operations, threat ranges and associated support, air re-fueling, and range control support. Post-mission flight test support for each mission is planned. FY 2015 Plans: Government flight test operations enter baseline flight testing of R7.8 SWUP software capabilities. This funding also includes test data analysis support and baselining requirements from actual test data results during flight testing. Ground testing such as anechoic chamber testing will be conducted, as needed. The test organization will conduct each mission to include F-16 test aircraft operations, threat/test ranges and associated support, air re-fueling, and range control support. Post-mission support for each mission is planned.											
Title: Mission Planning Description: Joint Mission Planning System (JMPS) (Formerly Air Force Mission Support System (AFMSS)) FY 2013 Accomplishments: Continued mission planning in conjunction with HTS R7.8 software upgrade. This effort began planning to address deficiencies, additional engineering software releases and forward fielding. FY 2014 Plans: Continue mission planning in conjunction with HTS R7.8 software upgrade. This effort will include development and testing of candidate upgrades and initial engineering releases in support of fielding. FY 2015 Plans: Continue mission planning is conjunction with HTS R7.8 software upgrade. This effort will include continued development and testing of candidate upgrades and incremental engineering releases in support of fielding.								0.888	0.635	0.800	
Accomplishments/Planned Programs Subtotals								13.362	11.022	14.831	
D. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u> <u>Base</u>	<u>FY 2015</u> <u>OCO</u>	<u>FY 2015</u> <u>Total</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• No other investment funding: <i>N/A</i>	-	-	-	-	-	-	-	-	-	-	-
Remarks											
E. Acquisition Strategy The HTS R7 improvement strategy includes accomplishment of risk reduction studies and selection of appropriate contracting strategies for P3I and upgrade of HTS inventory.											

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<u>F. Performance Metrics</u> Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.		

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Exhibit R-4, RDT&E Schedule Profile: PB 2015 Air Force

Date: March 2014

Appropriation/Budget Activity
3600 / 7

R-1 Program Element (Number/Name)
PE 0207136F / Manned Destructive
Suppression

Project (Number/Name)
674595 / F-16 HARM Targeting System

HTS Development Program Schedule

