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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2017 Air Force **Date:** February 2016

<b>Appropriation/Budget Activity</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 0207325F I <i>Joint Air-to-Surface Standoff Missile (JASSM)</i>
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COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
Total Program Element	1,133.364	12.414	9.793	30.002	0.000	30.002	20.297	25.971	4.499	4.579	30.375	1,271.294
674515: <i>Joint Air-to-Surface Standoff Missile (JASSM)</i>	929.148	7.418	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	936.566
675356: <i>JASSM Extended Range (JASSM-ER)</i>	204.216	4.996	9.793	30.002	0.000	30.002	20.297	25.971	4.499	4.579	30.375	334.728

**Program MDAP/MAIS Code:** 555

**A. Mission Description and Budget Item Justification**

The Joint Air-to-Surface Standoff Missile (JASSM) program provides a long range, conventional air-to-surface, autonomous, precision-guided, low-observable, standoff cruise missile compatible with fighter and bomber aircraft able to attack a variety of fixed or relocatable targets. There are two variants of the JASSM missile; JASSM baseline and JASSM Extended Range (JASSM-ER). The requirement for JASSM baseline is given in the JASSM Operational Requirements Document (ORD) dated 20 Jan 2004, and the JASSM-ER requirement is given in JASSM-ER Capability Development Document (CDD) dated 16 Apr 2010. Both JASSM missiles have improved reliability, separate milestone decision points and separate projects within a single Program Element. Aircraft integration of JASSM baseline is complete on the B-52H, F-16 (Block 50), B-1, B-2, and F-15E. Objective aircraft include the F-16 (Block 40) and F-35. Aircraft integration of JASSM-ER is complete on the B-1B. Objective aircraft are the B-52H, F16C/D (Block 50/52), B-2, F-16C/D (Blocks 25-42), F-15E, and F-35.

The FY2017 funding request was reduced by  $-\$0.658$  million to account for the availability of prior year execution balances.

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.

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<b>Appropriation/Budget Activity</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 0207325F <i>I Joint Air-to-Surface Standoff Missile (JASSM)</i>
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<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Previous President's Budget	12.897	12.793	0.000	0.000	0.000
Current President's Budget	12.414	9.793	30.002	0.000	30.002
Total Adjustments	-0.483	-3.000	30.002	0.000	30.002
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	-3.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	-0.483	0.000			
• Other Adjustments	0.000	0.000	30.002	0.000	30.002

**Change Summary Explanation**

FY16 Congressional reduction of -\$3M for forward financing  
 FY17 cost data updated to include M-Code funding.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2017 Air Force										<b>Date:</b> February 2016		
<b>Appropriation/Budget Activity</b> 3600 / 7					<b>R-1 Program Element (Number/Name)</b> PE 0207325F / Joint Air-to-Surface Standoff Missile (JASSM)				<b>Project (Number/Name)</b> 674515 / Joint Air-to-Surface Standoff Missile (JASSM)			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
674515: Joint Air-to-Surface Standoff Missile (JASSM)	929.148	7.418	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	936.566
Quantity of RDT&E Articles	81	-	-	-	-	-	-	-	-	-		

**A. Mission Description and Budget Item Justification**

The Joint Air-to-Surface Standoff Missile (JASSM) program provides a long range, conventional air-to-surface, autonomous, precision-guided, low-observable, standoff cruise missile compatible with fighter and bomber aircraft able to attack a variety of fixed or relocatable targets. This project develops the baseline JASSM missile. The requirement for JASSM baseline is given in the JASSM Operational Requirements Document (ORD), dated 20 Jan 2004. Aircraft integration of the baseline JASSM is complete on the B-52H, F-16 (Block 50), B-1, B-2, and F-15E. Objective aircraft include the F-16 (Block 40) and F-35. The government is buying the JASSM system based on a contractor-developed, government-approved System Performance Specification (SPS), this SPS is on contract. The contractor assumes total system performance responsibility (TSPR) for Lots 1-6 as defined in the SPS; for Lot 7 and beyond, the government has approval authority of Class I configuration changes. This project also develops improvements to the JASSM and JASSM-ER fuze, including the development of the Electronic Safe and Arm Fuze (ESAF). Since the cancelation of the Common Telemetry Instrumentation Kit (C-TIK) the program has transitioned to the Intelligent Telemetry Instrumentation Kit (ITIK). The ITIK is partially executed under this project and will be used for JASSM baseline and JASSM-ER. The program is also evaluating vulnerability enhancements, Diminishing Manufacturing Sources Material Shortages (DMSMS), and several obsolescence issues. FY15 is the last year the JASSM program will execute under the baseline RDT&E (674515) project. The RDT&E program transitions to JASSM-ER only in FY16.

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

	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
<b>Title:</b> JASSM Electronic Safe and Armed Fuze (ESAF) - Common to JASSM baseline and JASSM-ER (cost shared by both projects)	0.343	0.000	0.000	0.000	0.000
<b>Description:</b> ESAF will resolve obsolescence issues and replace the current fuze. ESAF will be implemented in both JASSM and JASSM-ER.					
<b>FY 2015 Accomplishments:</b> Supports development of prototype efforts.					
<b>FY 2016 Plans:</b> N/A					
<b>FY 2017 Base Plans:</b> N/A					
<b>FY 2017 OCO Plans:</b>					

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2017 Air Force		<b>Date:</b> February 2016
<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0207325F / Joint Air-to-Surface Standoff Missile (JASSM)	<b>Project (Number/Name)</b> 674515 / Joint Air-to-Surface Standoff Missile (JASSM)

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
N/A					
<p><b>Title:</b> JASSM Intelligent Telemetry Instrumentation Kit (I-TIK)</p> <p><b>Description:</b> ITIK replaces the current TIK used during flight testing. Since the ITIK is common to both JASSM and JASSM-ER, it will be partially executed under this project.</p> <p><b>FY 2015 Accomplishments:</b> Awarded ITIK contract for development, design, and qualification testing.</p> <p><b>FY 2016 Plans:</b> N/A</p> <p><b>FY 2017 Base Plans:</b> N/A</p> <p><b>FY 2017 OCO Plans:</b> N/A</p>	5.142	0.000	0.000	0.000	0.000
<p><b>Title:</b> Other Development</p> <p><b>Description:</b> Development efforts, evaluations (study analysis), Diminishing Manufacturing Sources Material Shortages (DMSMS), and obsolescence issues.</p> <p><b>FY 2015 Accomplishments:</b> Developed/evaluated obsolescence plan addressing JASSM's directing activities (Inertial Measurement Unit, Missile control Unit, anti-jam/anti-spoofing system). Awarded contracts for the M-code mandated investigation study, Aviation and Missile Research Development and Engineering Center (AMRDEC)/Manual Programming Adapter (MPA), and the Flight Termination System (FTS) battery Qualification.</p> <p><b>FY 2016 Plans:</b> N/A</p> <p><b>FY 2017 Base Plans:</b> N/A</p> <p><b>FY 2017 OCO Plans:</b> N/A</p>	1.933	0.000	0.000	0.000	0.000
<b>Accomplishments/Planned Programs Subtotals</b>	7.418	0.000	0.000	0.000	0.000

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2017 Air Force		<b>Date:</b> February 2016
<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0207325F / Joint Air-to-Surface Standoff Missile (JASSM)	<b>Project (Number/Name)</b> 674515 / Joint Air-to-Surface Standoff Missile (JASSM)

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

<u>Line Item</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>			<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Cost To</u>	
			<u>Base</u>	<u>OCO</u>	<u>Total</u>					<u>Complete</u>	<u>Total Cost</u>
• MPAF: BA02 Line Item # 654515: JASSM	139.481	73.582	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1,857.906

**Remarks**

FY16 is the last year of JASSM baseline procurement. Only JASSM-ER will be procured beginning in FY17.

**D. Acquisition Strategy**

EMD was awarded through full and open competition. Subsequent contracts have been awarded through sole source. Currently, ESAF is a Cost Plus Fixed Fee (CPFF) contract and ITIK is a Cost Plus Fixed Fee (CPFF) contract.

**E. Performance Metrics**

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-3, RDT&E Project Cost Analysis: PB 2017 Air Force												Date: February 2016				
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)								
3600 / 7				PE 0207325F / Joint Air-to-Surface Standoff Missile (JASSM)				674515 / Joint Air-to-Surface Standoff Missile (JASSM)								
<b>Product Development (\$ in Millions)</b>				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Other development, reliability, Component upgrades, CTIK, and DMS/Obsolescence issues.	Various	Lockheed Martin : Orlando, FL	716.050	1.933	Sep 2015	0.000		0.000		0.000		0.000	0.000	717.983	717.983	
Intelligent Telemetry Instrumentation Kit (ITIK)	SS/CPFF	Lockheed Martin : Orlando, FL	0.000	5.142	Apr 2015	0.000		0.000		0.000		0.000	0.000	5.142	5.142	
ESAF	SS/CPFF	Lockheed Martin : Orlando, FL	1.316	0.343	Dec 2015	0.000		0.000		0.000		0.000	0.000	1.659	1.659	
<b>Subtotal</b>			717.366	7.418		0.000		0.000		0.000		0.000	0.000	724.784	724.784	
<b>Support (\$ in Millions)</b>				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
<b>Subtotal</b>			-	-		-		-		-		-	-	-	-	
<b>Test and Evaluation (\$ in Millions)</b>				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
96 TW test support, flight test	Various	Test Wing : Eglin, FL	149.552	0.000		0.000		0.000		0.000		0.000	0.000	149.552	149.552	
<b>Subtotal</b>			149.552	0.000		0.000		0.000		0.000		0.000	0.000	149.552	149.552	
<b>Management Services (\$ in Millions)</b>				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Program Management Administration (PMA).	C/Various	PMA : Eglin AFB, FL	62.230	0.000		0.000		0.000		0.000		0.000	0.000	62.230	62.230	



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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2017 Air Force		<b>Date:</b> February 2016
<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0207325F / Joint Air-to-Surface Standoff Missile (JASSM)	<b>Project (Number/Name)</b> 674515 / Joint Air-to-Surface Standoff Missile (JASSM)

	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

ITIK Battery Development and Qualification (Phase 1&2)	[REDACTED]																											
ITIK Integration with JASSM and Test Equipment Development	[REDACTED]																											
ITIK Critical Design Review (CDR)	[REDACTED]																											

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2017 Air Force		<b>Date:</b> February 2016
<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0207325F / <i>Joint Air-to-Surface Standoff Missile (JASSM)</i>	<b>Project (Number/Name)</b> 674515 / <i>Joint Air-to-Surface Standoff Missile (JASSM)</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
ITIK Battery Development and Qualification (Phase 1&2)	1	2016	3	2017
ITIK Integration with JASSM and Test Equipment Development	2	2015	1	2018
ITIK Critical Design Review (CDR)	2	2016	2	2016

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2017 Air Force										<b>Date:</b> February 2016		
<b>Appropriation/Budget Activity</b> 3600 / 7					<b>R-1 Program Element (Number/Name)</b> PE 0207325F / Joint Air-to-Surface Standoff Missile (JASSM)				<b>Project (Number/Name)</b> 675356 / JASSM Extended Range (JASSM-ER)			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
675356: JASSM Extended Range (JASSM-ER)	204.216	4.996	9.793	30.002	0.000	30.002	20.297	25.971	4.499	4.579	30.375	334.728
Quantity of RDT&E Articles	31	-	-	-	-	-	-	-	-	-	-	-

**A. Mission Description and Budget Item Justification**

This project provides a long range (over twice the range of baseline JASSM), conventional air-to-surface, autonomous, precision-guided, low observable, standoff cruise missile compatible with fighter and bomber aircraft. The requirement for JASSM-ER is given in JASSM-ER Capability Development Document (CDD), dated 16 Apr 2010. This project developed the extended range version of the JASSM missile (JASSM-ER). Aircraft integration of JASSM-ER is complete on the B-1B. Objective aircraft are B-52H, F16C/D (Block 50/52), B-2, F-16C/D (Blocks 25-42), F-15E, and F-35. JASSM-ER provides the capability to attack a variety of high value fixed or relocatable targets with precision, through preplanned missions or target-of-opportunity, deeper into enemy territory than JASSM Baseline while minimizing the threat to launch aircraft. The Air Force developed JASSM-ER based on a contractor-developed, government-approved System Performance Specification (SPS). Since the cancellation of the Common Telemetry Instrumentation Kit (C-TIK) the program has transitioned to the Intelligent Telemetry Instrumentation Kit (ITIK). The ITIK will be used for both JASSM baseline and JASSM-ER. The Electronic Safe and Arm Fuze (ESAF) is partially executed under this project since it's common to JASSM baseline and JASSM-ER. The program is also evaluating vulnerability enhancements, Diminishing Manufacturing Sources Material Shortages (DMSMS), several obsolescence issues, as well as developing and integrating a Military Code (M-Code) receiver.

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

	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
<b>Title:</b> JASSM ER Intelligent Telemetry Instrumentation Kit (ITIK) (cost shared by both projects)	0.398	5.021	2.300	0.000	2.300
<b>Description:</b> ITIK replaces the current TIK used during flight testing. Since the ITIK is common to both JASSM and JASSM-ER, it will be partially executed under this project.					
<b>FY 2015 Accomplishments:</b> Conducted ITIK development design work, destruct charge development and battery qualification testing.					
<b>FY 2016 Plans:</b> Continue ITIK development. Award contract to support Critical Design Review (CDR), safety certification, and qualification testing.					
<b>FY 2017 Base Plans:</b> Continue ITIK development. Award contract to support Production Readiness Review (PRR) and testing.					
<b>FY 2017 OCO Plans:</b>					

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2017 Air Force			<b>Date:</b> February 2016		
<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0207325F / Joint Air-to-Surface Standoff Missile (JASSM)	<b>Project (Number/Name)</b> 675356 / JASSM Extended Range (JASSM-ER)			
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
N/A					
<p><b>Title:</b> JASSM ER Electronic Safe and Armed Fuze (ESAF) - Common to JASSM baseline and JASSM-ER (cost shared by both projects)</p> <p><b>Description:</b> ESAF will resolve obsolescence issues and replace the current fuze.</p> <p><b>FY 2015 Accomplishments:</b> ESAF development: Conducted technical demonstration phase leading to critical design review.</p> <p><b>FY 2016 Plans:</b> Award ESAF Engineering and Manufacturing Development (EMD) contract. Complete sled instrumentation kit (SLIK) development. Continue design work, pre-production material, and qualification work.</p> <p><b>FY 2017 Base Plans:</b> Continue ESAF Engineering and Manufacturing Development (EMD) requirements. Award contract to support Production Readiness Review (PRR). Continue design work, pre-production material, and qualification work.</p> <p><b>FY 2017 OCO Plans:</b> N/A</p>	3.247	2.760	1.760	0.000	1.760
<p><b>Title:</b> Military Code (M-Code) receiver</p> <p><b>Description:</b> The development and integration of a GPS receiver capable of receiving a Military Code (M-Code).</p> <p><b>FY 2015 Accomplishments:</b> N/A</p> <p><b>FY 2016 Plans:</b> N/A</p> <p><b>FY 2017 Base Plans:</b> Prototype development/component level testing.</p> <p><b>FY 2017 OCO Plans:</b> N/A</p>	0.000	0.000	24.042	0.000	24.042
<p><b>Title:</b> JASSM ER Other Development</p>	1.301	1.290	1.200	0.000	1.200

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<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0207325F / Joint Air-to-Surface Standoff Missile (JASSM)	<b>Project (Number/Name)</b> 675356 / JASSM Extended Range (JASSM-ER)

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
<p><b>Description:</b> Development efforts, evaluations (study analysis), survivability enhancements, safety certification, flight testing, Diminishing Manufacturing Sources and Material Shortages (DMSMS), and obsolescence issues.</p> <p><b>FY 2015 Accomplishments:</b> Continued development/evaluations activities addressing JASSM's obsolescence plan directed activities, to include Inertial Measurement Unit (IMU), Missile Control Unit (MCU), anti-jam/anti-spoofing system, warhead, and RCS proof of concept. Conducted study and planning for M-code incorporation in the JASSM missile.</p> <p><b>FY 2016 Plans:</b> Continue development/evaluations activities addressing JASSM's obsolescence plan directed activities: Inertial Measurement Unit (IMU), Missile Control Unit (MCU), anti-jam/anti-spoofing system, Flight Termination System (FTS) battery qualification, warhead, survivability enhancements, and safety certification. Additionally, the program will develop and implement an acquisition strategy to integrate M-Code for improved anti-jam and secure access to military GPS signals.</p> <p><b>FY 2017 Base Plans:</b> Continue development/evaluations activities addressing JASSM's obsolescence plan directed activities: Inertial Measurement Unit (IMU), Missile Control Unit (MCU), anti-jam/anti-spoofing system, and survivability enhancements. Support ground and flight test activity required to verify changed hardware before cutting into production. Additionally, the program will develop and implement an acquisition strategy to integrate M-code for improved anti-jam and secure access to military GPS signals.</p> <p><b>FY 2017 OCO Plans:</b> N/A</p>					
<p><b>Title:</b> JASSM ER Test Support</p> <p><b>Description:</b> Government Test Support for ESAF, ITIK, and M-Code. Includes flight test equipment, targets, test wing and range support, and other ground/flight test support.</p> <p><b>FY 2015 Accomplishments:</b> Conducted ESAF and ITIK test planning activities, to include test equipment, targets, range support, and other ground test support.</p> <p><b>FY 2016 Plans:</b></p>	0.050	0.722	0.700	0.000	0.700

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2017 Air Force		<b>Date:</b> February 2016
<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0207325F / Joint Air-to-Surface Standoff Missile (JASSM)	<b>Project (Number/Name)</b> 675356 / JASSM Extended Range (JASSM-ER)

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Continue ESAF Sled tests (4-8) and cannon tests. Continue ITIK development flight test support to include test equipment, targets, range support, and other ground test support.  <b>FY 2017 Base Plans:</b> Continue ESAF and ITIK development tests. Begin Qual and flight test support to include test equipment, targets, range support, and other ground test support.  <b>FY 2017 OCO Plans:</b> N/A					
<b>Accomplishments/Planned Programs Subtotals</b>	4.996	9.793	30.002	0.000	30.002

<b>C. Other Program Funding Summary (\$ in Millions)</b>											
<u>Line Item</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017 Base</u>	<u>FY 2017 OCO</u>	<u>FY 2017 Total</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• MPAF: BA02 Line Item # JASSM0: JASSM	189.677	351.996	431.645	0.000	431.645	440.489	447.991	455.388	463.462	1,018.172	4,076.212

**Remarks**

**D. Acquisition Strategy**

JASSM-ER is the extended range version of the JASSM baseline missile (currently in full rate production). The initial JASSM-ER development contract, awarded in 2004, was Cost-Plus-Award-Fee. In 2008, the program office awarded a Cost-Plus-Incentive-Fee (CPIF) contract with performance incentives to complete the development effort. Current contract for ESAF is a Cost Plus Fixed Fee (CPFF) contract. The ITIK contract is a Cost Plus Fixed Fee (CPFF) contract.

**E. Performance Metrics**

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-3, RDT&E Project Cost Analysis: PB 2017 Air Force** **Date:** February 2016

<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0207325F / Joint Air-to-Surface Standoff Missile (JASSM)	<b>Project (Number/Name)</b> 675356 / JASSM Extended Range (JASSM-ER)
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<b>Product Development (\$ in Millions)</b>				<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017 Base</b>		<b>FY 2017 OCO</b>		<b>FY 2017 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>			
JASSM-ER Phase I/ II development, Test Missile Procurement (for DT/IT), parts upgrade, software updates, product improvements, CTIK, and obsolescence.	Various	Lockheed Martin : Orlando, FL	136.778	0.000		0.990	Mar 2016	0.900	Mar 2017	0.000		0.900	38.503	177.171	177.171
ITIK	SS/CPFF	Lockheed Martin : Orlando, FL	0.000	0.398	Apr 2015	5.021	Jun 2016	2.300	Jun 2017	0.000		2.300	0.000	7.719	7.719
ESAF	SS/CPFF	Lockheed Martin : Orlando, FL	2.748	3.247	Nov 2015	2.760	Jun 2016	1.760	Jun 2017	0.000		1.760	7.258	17.773	17.823
Military Code (M code) receiver	SS/CPFF	Lockheed Martin : Orlando, FL	0.000	0.900	Sep 2015	0.000		24.042	Jun 2017	0.000		24.042	36.710	61.652	61.652
<b>Subtotal</b>			139.526	4.545		8.771		29.002		0.000		29.002	82.471	264.315	264.365

**Remarks**  
 -Intelligent Telemetry Instrumentation Kit (ITIK)  
 -Common Telemetry Instrumentation Kits (C-TIK)  
 -Electronic Safe and Arm Fuze (ESAF)

<b>Support (\$ in Millions)</b>				<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017 Base</b>		<b>FY 2017 OCO</b>		<b>FY 2017 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>			
<b>Subtotal</b>			-	-		-		-		-		-	-	-	-

<b>Test and Evaluation (\$ in Millions)</b>				<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017 Base</b>		<b>FY 2017 OCO</b>		<b>FY 2017 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>			
Government Test Support. Includes flight test equipment, targets, 96th	Various	96 TW : Eglin AFB, FL	25.962	0.050		0.722	Jun 2016	0.700	Jun 2017	0.000		0.700	2.800	30.234	30.184

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Air Force** **Date:** February 2016

<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0207325F / Joint Air-to-Surface Standoff Missile (JASSM)	<b>Project (Number/Name)</b> 675356 / JASSM Extended Range (JASSM-ER)
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<b>Test and Evaluation (\$ in Millions)</b>				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Test Wing and Range support, and other ground/flight test support as necessary.															
6 IT/6 OT assets	SS/CPAF	Lockheed Martin : Orlando, FL	12.733	0.000		0.000		0.000		0.000		0.000	0.000	12.733	12.733
12 Operational Test (OT) assets	SS/FFP	Lockheed Martin : Orlando, FL	24.643	0.000		0.000		0.000		0.000		0.000	0.000	24.643	24.643
<b>Subtotal</b>			63.338	0.050		0.722		0.700		0.000		0.700	2.800	67.610	67.560

<b>Management Services (\$ in Millions)</b>				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Program Management Administration (PMA). Provides program office oversight of development and upgrade activities.	Various	PMA : Eglin AFB, FL	1.352	0.401	Dec 2015	0.300	Jul 2016	0.300	Jul 2017	0.000		0.300	0.450	2.803	2.803
<b>Subtotal</b>			1.352	0.401		0.300		0.300		0.000		0.300	0.450	2.803	2.803

	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>		204.216	4.996	9.793	30.002	0.000	30.002	85.721	334.728

**Remarks**



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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2017 Air Force		<b>Date:</b> February 2016
<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0207325F / Joint Air-to-Surface Standoff Missile (JASSM)	<b>Project (Number/Name)</b> 675356 / JASSM Extended Range (JASSM-ER)

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
ITIK Battery Development and Qualification (Phase 1&2)	1	2016	3	2017
ITIK Integration with JASSM and Test Equipment Development	2	2015	1	2018
ITIK Critical Design Review (CDR)	2	2016	2	2016
ITIK HERO/EMI and Lot 8 certification	4	2016	3	2017
ITIK Flight Testing	2	2017	2	2017
ESAF Prototyping	1	2016	1	2017
ESAF Engineering and Manufacturing Development (EMD)	2	2017	2	2019
ESAF Cannon Testing	3	2016	3	2016
ESAF Critical Design Review (CDR)	4	2016	4	2016
ESAF Sled Testing	3	2016	3	2016
ESAF Qualification Testing	2	2018	2	2019
ESAF Flight Testing	1	2019	2	2019
ESAF Production Readiness Review (PRR)	4	2018	4	2018
M-Code Study	1	2016	4	2016
M-Code brass board development and testing	3	2016	3	2017
M-Code Prototype development/component level testing	3	2017	3	2018
M-Code Engineering and Manufacturing Development (EMD)	3	2018	4	2020
Diminishing Manufacture Sources and Obsolescence Evaluation/Development	1	2016	4	2021

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