

# UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Air Force									Date: February 2015			
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development					R-1 Program Element (Number/Name) PE 0207325F I Joint Air-to-Surface Standoff Missile (JASSM)							
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
Total Program Element	1,131.136	6.202	12.897	12.793	-	12.793	5.960	5.099	4.459	4.539	36.505	1,219.590
674515: Joint Air-to-Surface Standoff Missile (JASSM)	929.071	3.048	7.424	-	-	-	-	-	-	-	-	939.543
675356: JASSM Extended Range (JASSM-ER)	202.065	3.154	5.473	12.793	-	12.793	5.960	5.099	4.459	4.539	36.505	280.047
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 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. 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 FY2016 funding request was reduced by \$1.821 million to account for the availability of prior 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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Appropriation/Budget Activity		R-1 Program Element (Number/Name)			
3600: Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development		PE 0207325F I Joint Air-to-Surface Standoff Missile (JASSM)			
B. Program Change Summary (\$ in Millions)	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Previous President's Budget	6.373	15.897	14.699	-	14.699
Current President's Budget	6.202	12.897	12.793	-	12.793
Total Adjustments	-0.171	-3.000	-1.906	-	-1.906
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-3.000			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.171	-			
• Other Adjustments	-	-	-1.906	-	-1.906
Change Summary Explanation					
FY15 congressional reduction of \$3M due to forward financing.					
FY16 funding was reduced by \$1.906M to support other Air Force priorities.					

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Air Force										Date: February 2015		
Appropriation/Budget Activity 3600 / 7					R-1 Program Element (Number/Name) PE 0207325F / Joint Air-to-Surface Standoff Missile (JASSM)				Project (Number/Name) 674515 / Joint Air-to-Surface Standoff Missile (JASSM)			
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
674515: Joint Air-to-Surface Standoff Missile (JASSM)	929.071	3.048	7.424	-	-	-	-	-	-	-	-	939.543
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). The Common Telemetry Instrumentation Kit (C-TIK) is partially executed under this project as it is common to JASSM baseline and JASSM-ER. The program is evaluating Diminishing Manufacturing Sources Material Shortages (DMSMS) and several obsolescence issues. FY15 is the last year of JASSM baseline RDT&E and procurement; this program transitions to JASSM-ER only in FY16.

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

	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>
<b>Title:</b> Electronic Safe and Arm Fuze (ESAF) - Common to JASSM baseline and JASSM-ER (cost shared by both projects) <b>Description:</b> ESAF will resolve obsolescence issues, increase reliability and replace the current fuze. ESAF will be implemented in both JASSM baseline and JASSM-ER missiles. <b>FY 2014 Accomplishments:</b> Initiate ESAF development effort. <b>FY 2015 Plans:</b> Continue ESAF development. Technical demonstration phase leading to critical design reviews. <b>FY 2016 Plans:</b> N/A	0.100	1.924	-
<b>Title:</b> Common Telemetry Instrumentation Kit (C-TIK) - Common to JASSM baseline and JASSM-ER (cost shared by both projects)	0.200	3.000	-

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Air Force		Date: February 2015		
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0207325F / Joint Air-to-Surface Standoff Missile (JASSM)	Project (Number/Name) 674515 / Joint Air-to-Surface Standoff Missile (JASSM)		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016
<p><b>Description:</b> C-TIK replaces current TIK used during flight testing and will be common to both JASSM and JASSM-ER. The C-TIK is partially executed under this project as it is common to JASSM baseline and JASSM-ER.</p> <p><b>FY 2014 Accomplishments:</b> Initiated C-TIK design work for the Network Data Acquisition System (NetDAS) qualification.</p> <p><b>FY 2015 Plans:</b> Continue C-TIK design, destruct charge development and battery qualification testing.</p> <p><b>FY 2016 Plans:</b> N/A</p>				
<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 2014 Accomplishments:</b> Efforts are underway to establish an interim TIK to fill the gap between current TIKs and the development of the CTIK. Also efforts for Improvement/Insensitive Munitions.</p> <p><b>FY 2015 Plans:</b> Development/evaluations addressing JASSM's obsolescence plan directed activities (Inertial Measurement Unit, Missile control Unit, anti-jam/anti-spoofing system). Currently, M-code mandated investigation study, and interim TIK development are scheduled.</p> <p><b>FY 2016 Plans:</b> N/A</p>		2.698	2.000	-
<p><b>Title:</b> Test Support</p> <p><b>Description:</b> Government Test Support for ESAF and C-TIK. Includes flight test equipment, targets, Test Wing and Range support, and other ground/flight test support.</p> <p><b>FY 2014 Accomplishments:</b> ESAF (prototype) and C-TIK development flight test support to include test equipment, targets, range support, and other ground test support.</p> <p><b>FY 2015 Plans:</b></p>		0.050	0.500	-

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2016 Air Force										<b>Date:</b> February 2015		
<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 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>
Continue ESAF Sled tests, cannon, and survivability tests. C-TIK/Interim TIK development flight test support to include test equipment, targets, range support, and other ground test support.												
<b>FY 2016 Plans:</b> N/A												
<b>Accomplishments/Planned Programs Subtotals</b>										3.048	7.424	-
<b>C. Other Program Funding Summary (\$ in Millions)</b>												
<b>Line Item</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	
• MPAF: BA02: Line Item # 654515: JASSM	144.532	-	-	-	-	-	-	-	-	-	1,606.416	
• MPAF: BA02 Line Item # JASSM0: JASSM	-	129.944	73.582	-	73.582	-	-	-	-	-	203.526	
<b>Remarks</b> FY15 is the last year of JASSM baseline procurement (and RDT&E). The JASSM program transitions to JASSM-ER only in FY16.												
<b>D. Acquisition Strategy</b> All major contracts within this project have been awarded through full and open competition. The EMD phase option for JASSM baseline was completed using Cost Plus Award Fee (CPAF). Currently, C-TIK is a Cost Plus Fixed Fee (CPFF) contract and ESAF is a CPFF contract.												
<b>E. Performance Metrics</b> 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 2016 Air Force												Date: February 2015			
Appropriation/Budget Activity 3600 / 7						R-1 Program Element (Number/Name) PE 0207325F / Joint Air-to-Surface Standoff Missile (JASSM)				Project (Number/Name) 674515 / Joint Air-to-Surface Standoff Missile (JASSM)					
Product Development (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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, and DMS/ Obsolescence issues.	SS/CPIF	Lockheed Martin : Orlando, FL	714.516	2.698	May 2015	2.000	May 2015	-		-		-	-	719.214	719.214
ESAF	SS/CPIF	Lockheed Martin : Orlando, FL	1.316	0.100	Jun 2015	1.924	Jun 2015	-		-		-	-	3.340	3.340
Common Telemetry Instrumentation Kit (C-TIK)	SS/FFP	Lockheed Martin : Orlando, FL	1.457	0.200	Jun 2015	3.000	Jul 2015	-		-		-	-	4.657	4.657
Subtotal			717.289	2.998		6.924		-		-		-	-	727.211	727.211
Support (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
Subtotal			-	-		-		-		-		-	-	-	-
Test and Evaluation (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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	0.050	Jun 2015	0.500	Jun 2015	-		-		-	-	150.102	150.102
Subtotal			149.552	0.050		0.500		-		-		-	-	150.102	150.102
Management Services (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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	-		-		-		-		-	-	62.230	62.230

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis:</b> PB 2016 Air Force												<b>Date:</b> February 2015		
<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)				

  

Management Services (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program office/mission support.																	
<b>Subtotal</b>			62.230	-		-		-		-		-		-	-	62.230	62.230

  

	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>	929.071	3.048	7.424	-	-	-	-	939.543	939.543

  

**Remarks**

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**Exhibit R-4, RDT&E Schedule Profile:** PB 2016 Air Force **Date:** February 2015

<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)
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	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	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
C-TIK Battery Development and Qualification (Phase 1&2)																												
C-TIK Destruct Charge Development and Qualification (Phase 1&2)																												
C-TIK Integration with JASSM and Test Equipment Development																												
C-TIK Critical Design Review (CDR)																												
C-TIK Safety Certification																												
C-TIK Flight Testing																												
ESAF Prototyping																												
ESAF Engineering and Manufacturing Development (EMD)																												
ESAF Cannon Testing																												
ESAF Critical Design Review (CDR)																												
ESAF Sled Testing																												
ESAF Qualification Testing																												



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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2016 Air Force			<b>Date:</b> February 2015
<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)	

**Schedule Details**

<b>Events</b>	<b>Start</b>		<b>End</b>	
	<b>Quarter</b>	<b>Year</b>	<b>Quarter</b>	<b>Year</b>
C-TIK Battery Development and Qualification (Phase 1&2)	1	2014	1	2017
C-TIK Destruct Charge Development and Qualification (Phase 1&2)	1	2014	4	2016
C-TIK Integration with JASSM and Test Equipment Development	2	2014	1	2018
C-TIK Critical Design Review (CDR)	3	2015	3	2016
C-TIK Safety Certification	4	2016	4	2017
C-TIK Flight Testing	1	2017	2	2018
ESAF Prototyping	3	2015	1	2017
ESAF Engineering and Manufacturing Development (EMD)	4	2015	1	2018
ESAF Cannon Testing	4	2015	4	2015
ESAF Critical Design Review (CDR)	3	2016	3	2016
ESAF Sled Testing	4	2015	2	2017
ESAF Qualification Testing	4	2016	1	2017

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Air Force										Date: February 2015		
Appropriation/Budget Activity 3600 / 7					R-1 Program Element (Number/Name) PE 0207325F / Joint Air-to-Surface Standoff Missile (JASSM)				Project (Number/Name) 675356 / JASSM Extended Range (JASSM-ER)			
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
675356: JASSM Extended Range (JASSM-ER)	202.065	3.154	5.473	12.793	-	12.793	5.960	5.099	4.459	4.539	36.505	280.047
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 develops the extended range version of the JASSM missile (JASSM-ER). The threshold integration platform for JASSM-ER is 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 is developing JASSM-ER based on a contractor-developed, government-approved System Performance Specification (SPS). The 16 JASSM-ER Operational Test flights were successfully completed in 2013 with a 100% success rate (16/16). Currently, this project develops a Common Telemetry Instrumentation Kit (C-TIK) which will be used during flight testing and will be common to 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 JASSM program is evaluating Diminishing Sources Material Shortages (DMSMS) and several obsolescence issues.

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

	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>
<b>Title:</b> Common Telemetry Instrumentation Kit (C-TIK) - Common to JASSM baseline and JASSM-ER (cost shared by both projects)  <b>Description:</b> C-TIK replaces current TIK used during flight testing and will be common to both JASSM and JASSM-ER.  <b>FY 2014 Accomplishments:</b> Continue C-TIK development.  <b>FY 2015 Plans:</b> Continue C-TIK development design work, destruct charge development and battery qualification testing.  <b>FY 2016 Plans:</b> Continue C-TIK destruct charge development and battery qualification testing.	1.814	1.145	3.582
<b>Title:</b> Electronic Safe and Armed Fuze (ESAF) - Common to JASSM baseline and JASSM-ER (cost shared by both projects)  <b>Description:</b> ESAF will resolve obsolescence issues and replace the current fuze.  <b>FY 2014 Accomplishments:</b>	0.110	2.030	5.463

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Air Force		Date: February 2015		
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0207325F / Joint Air-to-Surface Standoff Missile (JASSM)	Project (Number/Name) 675356 / JASSM Extended Range (JASSM-ER)		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016
Initiate ESAF development. <b>FY 2015 Plans:</b> Continue ESAF development effort. Technical demonstration phase leading to critical design review work. <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, qualification work.				
<b>Title:</b> Other Development <b>Description:</b> Development efforts, evaluations (study analysis), Diminishing Manufacturing Sources Material Shortages (DMSMS), and obsolescence issues.  <b>FY 2014 Accomplishments:</b> Development and testing to support upgrades. Supports DMSMS changes and hardware obsolescence, Flight Termination System (FTS) battery replacement, and M-code mandated investigation, and software navigation tool; also provide support for any ground and flight test activity required to verify changed hardware before cutting into production.  <b>FY 2015 Plans:</b> Continue development and testing to support upgrades. Supports DMSMS changes and hardware obsolescence, M-code mandate investigation study, and interim TIK development; also provide support for any ground and flight test activity required to verify changed hardware before cutting into production.  <b>FY 2016 Plans:</b> Continue development and testing to support upgrades. Supports DMSMS changes and hardware obsolescence, M-code mandated investigation study, and interim TIK development; also provide support for any ground and flight test activity required to verify changed hardware before cutting into production.		1.160	1.788	2.028
<b>Title:</b> Test Support <b>Description:</b> Government Test Support for ESAF and C-TIK. Includes flight test equipment, targets, Test Wing and Range support, and other ground/flight test support.  <b>FY 2014 Accomplishments:</b> Continue CTIK, ESAF, and other flight test support to include test equipment, targets, range support, and other ground test support.  <b>FY 2015 Plans:</b>		0.070	0.510	1.720

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Appropriation/Budget Activity 3600 / 7				R-1 Program Element (Number/Name) PE 0207325F / Joint Air-to-Surface Standoff Missile (JASSM)				Project (Number/Name) 675356 / JASSM Extended Range (JASSM-ER)				
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>										FY 2014	FY 2015	FY 2016
Continue C-TIK build and test (spares, HERO,DVD,FF units) and ESAF sled and cannon test support. Other development flight test support to include test equipment, targets, range support, and other ground test support.												
<b>FY 2016 Plans:</b> Continue ESAF Sled tests (4-8), cannon tests. C-TIK/Interim TIK development flight test support to include test equipment, targets, range support, and other ground test support.												
Accomplishments/Planned Programs Subtotals										3.154	5.473	12.793
<b>C. Other Program Funding Summary (\$ in Millions)</b>												
Line Item	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost	
• MPAF: BA02 Line Item 654515: JASSM	126.619	-	-	-	-	-	-	-	-	-	309.935	
• MPAF: BA02 Line Item # JASSM0: JASSM	-	199.214	366.996	-	366.996	435.718	444.433	452.593	460.749	1,476.585	38,396.288	
<b>Remarks</b>												
<b>D. Acquisition Strategy</b> 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 contracts for ESAF is a Cost Plus Fixed Fee(CPFF) contract, and the C-TIK contract is a CPFF contract.												
<b>E. Performance Metrics</b> 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 2016 Air Force												Date: February 2015			
Appropriation/Budget Activity 3600 / 7						R-1 Program Element (Number/Name) PE 0207325F / Joint Air-to-Surface Standoff Missile (JASSM)				Project (Number/Name) 675356 / JASSM Extended Range (JASSM-ER)					
Product Development (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
JASSM-ER Phase I/ II development, Test Missile Procurement (for DT/IT), parts upgrade, software updates, product improvements, and obsolescence.	Various	Lockheed Martin : Orlando, FL	130.810	1.140	Mar 2015	1.768	Jun 2015	2.008	Jun 2016	-		2.008	41.944	177.670	177.670
C-TIK	SS/CPIF	Lockheed Martin : Orlando, FL	4.034	1.784	Jun 2015	1.125	Jun 2015	3.562	Jun 2016	-		3.562	7.489	17.994	17.994
ESAF	SS/FFP	Lockheed Martin : Orlando, FL	2.748	0.100	Mar 2015	2.000	Jun 2015	5.443	Jun 2016	-		5.443	4.629	14.920	14.920
Subtotal			137.592	3.024		4.893		11.013		-		11.013	54.062	210.584	210.584
Remarks															
Common Test Instrumentation Kits (C-TIK)															
Electronic Safe and Arm Fuze (ESAF)															
Support (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
Subtotal			-	-		-		-		-		-	-	-	-
Test and Evaluation (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
Government Test Support. Includes flight test equipment, targets, 96th Test Wing and Range support, and other ground/	Various	96 TW : Eglin AFB, FL	25.902	0.060	Mar 2014	0.500	Jul 2015	1.700	Jun 2016	-		1.700	2.000	30.162	30.162

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2016 Air Force</b>												<b>Date:</b> February 2015			
<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>Test and Evaluation (\$ in Millions)</b>				<b>FY 2014</b>		<b>FY 2015</b>		<b>FY 2016 Base</b>		<b>FY 2016 OCO</b>		<b>FY 2016 Total</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>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
flight test support as necessary.															
6 IT/6 OT assets	SS/CPAF	Lockheed Martin : Orlando, FL	12.733	-		-		-		-		-	-	12.733	12.733
12 Operational Test (OT) assets	SS/FFP	Lockheed Martin : Orlando, FL	24.643	-		-		-		-		-	-	24.643	24.643
<b>Subtotal</b>			63.278	0.060		0.500		1.700		-		1.700	2.000	67.538	67.538
<b>Management Services (\$ in Millions)</b>				<b>FY 2014</b>		<b>FY 2015</b>		<b>FY 2016 Base</b>		<b>FY 2016 OCO</b>		<b>FY 2016 Total</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>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Program Management Administration (PMA). Provides program office oversight of development and upgrade activities.	Various	PMA : Eglin AFB, FL	1.195	0.070	Mar 2015	0.080	Aug 2015	0.080	Aug 2016	-		0.080	0.500	1.925	1.925
<b>Subtotal</b>			1.195	0.070		0.080		0.080		-		0.080	0.500	1.925	1.925
			<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>		<b>FY 2016 Base</b>		<b>FY 2016 OCO</b>		<b>FY 2016 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>	
<b>Project Cost Totals</b>			202.065	3.154		5.473		12.793		-		12.793	56.562	280.047	280.047
<b>Remarks</b>															

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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2016 Air Force			<b>Date:</b> February 2015		
<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)	

	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	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
C-TIK Battery Development and Qualification (Phase 1&2)																												
C-TIK Destruct Charge Development and Qualification																												
C-TIK Integration with JASSM and Test Equipment Development																												
C-TIK Critical Design Review (CDR)																												
C-TIK Safety Certification																												
C-TIK Flight Testing																												
ESAF Prototyping																												
ESAF Engineering and Manufacturing Development (EMD)																												
ESAF Cannon Testing																												
ESAF Critical Design Review (CDR)																												
ESAF Sled Testing																												
ESAF Qualification Testing																												
ESAF Flight Testing																												
ESAF Production Readiness Review (PRR)																												
Diminishing Manufacture Sources and Obsolescence Evaluation/Development																												

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2016 Air Force			<b>Date:</b> February 2015
<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**

<b>Events</b>	<b>Start</b>		<b>End</b>	
	<b>Quarter</b>	<b>Year</b>	<b>Quarter</b>	<b>Year</b>
C-TIK Battery Development and Qualification (Phase 1&2)	1	2014	1	2017
C-TIK Destruct Charge Development and Qualification	1	2014	4	2016
C-TIK Integration with JASSM and Test Equipment Development	2	2014	1	2018
C-TIK Critical Design Review (CDR)	3	2015	3	2016
C-TIK Safety Certification	4	2016	4	2017
C-TIK Flight Testing	1	2017	2	2018
ESAF Prototyping	3	2015	1	2017
ESAF Engineering and Manufacturing Development (EMD)	4	2015	1	2018
ESAF Cannon Testing	4	2015	4	2015
ESAF Critical Design Review (CDR)	3	2016	3	2016
ESAF Sled Testing	3	2015	2	2017
ESAF Qualification Testing	4	2016	2	2017
ESAF Flight Testing	1	2018	4	2018
ESAF Production Readiness Review (PRR)	4	2018	4	2018
Diminishing Manufacture Sources and Obsolescence Evaluation/Development	1	2014	4	2020