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

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0604932F / <i>Long Range Standoff Weapon</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	6.836	3.438	16.143	95.604	0.000	95.604	419.817	649.113	539.101	481.604	Continuing	Continuing
657011: <i>LONG RANGE STAND-OFF</i>	6.836	3.438	16.143	95.604	0.000	95.604	419.817	649.113	539.101	481.604	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

Program MDAP/MAIS Code: 489

A. Mission Description and Budget Item Justification

The Long Range Stand-Off (LRSO) effort will develop a weapon system to replace the Air Force's Air Launched Cruise Missile (ALCM), operational since 1986. The LRSO weapon system will be capable of penetrating and surviving advanced Integrated Air Defense Systems (IADS) from significant stand-off range to prosecute strategic targets in support of the Air Force's global attack capability and strategic deterrence core function.

This program is in Budget Activity 5, System Development and Demonstration (SDD), because it is conducting technology maturation and risk reduction (TMRR) development tasks aimed at meeting validated requirements prior to the engineering & manufacturing phase.

B. Program Change Summary (\$ in Millions)

	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017 Base</u>	<u>FY 2017 OCO</u>	<u>FY 2017 Total</u>
Previous President's Budget	3.438	36.643	133.740	0.000	133.740
Current President's Budget	3.438	16.143	95.604	0.000	95.604
Total Adjustments	0.000	-20.500	-38.136	0.000	-38.136
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	-20.500			
• 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	0.000	0.000			
• Other Adjustments	0.000	0.000	-38.136	0.000	-38.136

Change Summary Explanation

FY16: Congressional mark of \$20.5M for TMRR contract delay
 FY17: Adjusted \$38.1M for TMRR contract delay from FY16 to FY17

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2015	FY 2016	FY 2017
<p>Title: LRSO Materiel Solution Analysis (MSA)</p> <p>Description: Conduct LRSO Weapon Milestone A and pre-TMRR activities</p> <p>FY 2015 Accomplishments: Continued LRSO MS A preparation. Activities included: Pre-TMRR activities with industry (concept/component refinement and technology analyses), modeling and simulation support, engineering studies, program cost and schedule estimation, program security plan development and implementation, acquisition strategy refinement, risk reduction efforts, initial requirements definition, developing MS A exit/TMRR entrance documentation. Continued to support the Department of Defense (DoD)/ Department of Energy (DOE) Interagency warhead life extension program 6.X process.</p> <p>FY 2016 Plans: Complete LRSO MS A and TMRR preparation/support. Activities include: Pre-TMRR efforts with industry (concept/component refinement and technology analyses), modeling and simulation support, engineering studies, test support, program cost and schedule estimation, program security plan implementation (to include secure connectivity and communication between Department of Defense (DoD), Department of Energy (DOE) and industry), acquisition strategy refinement, risk reduction efforts, continued requirements definition/refinement, completing MS A documentation, RFP release and preparation for/initiation of source selection activities. Expand program office staff, facilities and security infrastructure upgrades in preparation for TMRR. Establish and implement practices that ensure the following are met: requirements flow down, requirement allocation to hardware and software, requirements compliance matrix, system performance, reliability, maintainability, product assurance, testability, and supportability. Perform planning activities necessary to integrate LRSO with aircraft. Perform test activities and support for LRSO design validation, verification, and nuclear certification. Develop and refine LRSO Interface Control Documents (ICD) to include missile to warhead ICD. Continue to support the DoD/DOE Interagency warhead life extension program 6.X process.</p> <p>FY 2017 Plans: Execute TMRR source selection. Continue expanding program office staff, facilities and security infrastructure upgrades in preparation for TMRR. Continue aircraft integration planning activities with aircraft SPO. Continue refining missile-to-warhead interface control document. Perform test planning activities and support for LRSO design validation, verification, and nuclear certification. Continue supporting DOE warhead life extension program.</p>		3.438	16.143	36.104
<p>Title: LRSO Weapon Development</p> <p>Description: Conduct LRSO Weapon Development activities</p> <p>FY 2015 Accomplishments:</p>		0.000	0.000	59.500

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2015	FY 2016	FY 2017
N/A			
FY 2016 Plans: N/A			
FY 2017 Plans: This program is reported in accordance with Title 10, United State Code, Section 119(a)(1) in the Special Access Program Annual Report to Congress. For further information, please contact the Director of Special Programs, OUSD(AT&L)/DSP.			
Accomplishments/Planned Programs Subtotals	3.438	16.143	95.604

D. Other Program Funding Summary (\$ in Millions)

N/A

Remarks

E. Acquisition Strategy

LRSO acquisition/contract strategy continues to be refined to support a MS A decision.

F. 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 / 5				PE 0604932F / Long Range Standoff Weapon				657011 / LONG RANGE STAND-OFF								
Product Development (\$ in Millions)				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	
Long Range Standoff Weapon Development	TBD	TBD : TBD	0.000	0.000		0.000		59.500	Jun 2017	0.000		59.500	Continuing	Continuing	-	
Subtotal			0.000	0.000		0.000		59.500		0.000		59.500	-	-	-	
Support (\$ in Millions)				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	
Material Solution Analysis Support	Various	Various : TBD	3.721	0.369	Sep 2015	4.746	May 2016	26.104	Jan 2017	0.000		26.104	Continuing	Continuing	-	
Aircraft Integration Planning	Various	Various : TBD	0.000	0.218	Sep 2015	3.000	Apr 2016	0.000		0.000		0.000	0.000	3.218	-	
Subtotal			3.721	0.587		7.746		26.104		0.000		26.104	-	-	-	
Test and Evaluation (\$ in Millions)				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	
Test Support	Various	Various : TBD	0.000	0.000		0.200	Aug 2016	0.000		0.000		0.000	0.000	0.200	-	
Subtotal			0.000	0.000		0.200		0.000		0.000		0.000	0.000	0.200	-	
Management Services (\$ in Millions)				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	Various	Various : TBD	3.115	2.851	Oct 2014	8.197	Oct 2015	10.000	Oct 2016	0.000		10.000	Continuing	Continuing	-	
Subtotal			3.115	2.851		8.197		10.000		0.000		10.000	-	-	-	

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Air Force								Date: February 2016		
Appropriation/Budget Activity 3600 / 5				R-1 Program Element (Number/Name) PE 0604932F / <i>Long Range Standoff Weapon</i>			Project (Number/Name) 657011 / <i>LONG RANGE STAND-OFF</i>			
	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals	6.836	3.438	16.143	95.604	0.000	95.604	-	-	-	

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2017 Air Force **Date:** February 2016

Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604932F / Long Range Standoff Weapon	Project (Number/Name) 657011 / LONG RANGE STAND-OFF
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	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

Materiel Solution Analysis Phase	
Milestone A Decision	
Technology Maturation and Risk Reduction Phase	
Technology Maturation and Risk Reduction Contract Award	

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Exhibit R-4A, RDT&E Schedule Details: PB 2017 Air Force		Date: February 2016
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Material Solution Analysis Phase	1	2015	3	2017
Milestone A Decision	2	2016	2	2016
Technology Maturation and Risk Reduction Phase	3	2017	4	2021
Technology Maturation and Risk Reduction Contract Award	3	2017	3	2017

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