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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 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0604618F <i>I Joint Direct Attack Munition</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	0.000	2.389	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.389
674138: <i>JDAM DEVELOPMENT</i>	0.000	2.389	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.389
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

Program MDAP/MAIS Code: 503
Project MDAP/MAIS Code(s): N42

Note

In FY15, Project 641200 JDAM Development and Prototyping (BA 4), was transferred to Project 674138, JDAM Development (BA 7), within the same PE 0604618F to properly align budget activity (BA).

A. Mission Description and Budget Item Justification

The 5000lb demonstration is an integration of BLU-113 warhead with a Joint Direct Attack Munition (JDAM) tail kit to provide accurate, precision, reliable, hard target penetration capability. The required accuracy shall be "JDAM-like" as defined by the operational requirements community. The greater overall system performance will tighten dispersion capability where multiple weapons are released from the same aircraft on the same pass and hit the same impact crater. The BLU-113 is an objective requirement of the 2002 JDAM Operational Requirements Document (ORD). The weapon system will have an identical Concept of Operations (CONOPS) to that of existing USAF inventory for Global Positioning System-aided Inertial Navigation System (GPS-aided INS) weapons as well as compatibility with aircraft Operational Flight Programs (OFPs).

BA-7 - 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. Program Change Summary (\$ in Millions)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Previous President's Budget	2.469	0.000	0.000	0.000	0.000
Current President's Budget	2.389	0.000	0.000	0.000	0.000
Total Adjustments	-0.080	0.000	0.000	0.000	0.000
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• 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	-0.080	0.000			
• Other Adjustments	0.000	0.000	0.000	0.000	0.000

Change Summary Explanation

No Significant Changes

C. Accomplishments/Planned Programs (\$ in Millions)

	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Title: JDAM 5000 lb bomb demonstration	2.389	0.000	0.000	0.000	0.000
Description: The 5000lb demonstration integrates the BLU-113 warhead with a guidance kit that provides accurate, reliable, tight dispersion, hard target penetration capability. JDAM accuracy expands to a 5000lb concept, holding harder and deeper targets at risk.					
FY 2015 Accomplishments: Designed a BLU-113 conversion kit including BLU-113 strake assembly, BLU-113 umbilical cover, and BLU-113 wire harness extension and developed a unique Operational Flight Profile (OFP) with modified autopilot that provides JDAM like performance.					
FY 2016 Plans: N/A					
FY 2017 Base Plans: N/A					
FY 2017 OCO Plans:					

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
N/A					
Accomplishments/Planned Programs Subtotals	2.389	0.000	0.000	0.000	0.000

D. Other Program Funding Summary (\$ in Millions)											
Line Item	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
• PAAF: BA01: Line Item #353620: <i>Joint Direct Attack Munitions</i>	228.439	533.975	303.988	403.126	707.114	203.951	293.966	371.200	356.581	Continuing	Continuing

Remarks
In FY14, JDAM 5000 lb bomb demonstration was funded (\$2.417M) in above program in Budget Activity 4 (BA 4). In FY15, it was transferred to budget Activity 7 (BA 7) within the same PE.

E. Acquisition Strategy
Effort will be competed and executed under a firm fixed price contract.

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 3600 / 7	R-1 Program Element (Number/Name) PE 0604618F / Joint Direct Attack Munition	Project (Number/Name) 674138 / JDAM DEVELOPMENT
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Product Development (\$ in Millions)				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			
2.3 Software Development and Hardware Fabrication	C/TBD	AFLCMC/EBDJ : Eglin AFB, FL	0.000	1.500	Apr 2015	0.000		0.000		0.000		0.000	0.000	1.500	0.647
Subtotal			0.000	1.500		0.000		0.000		0.000		0.000	0.000	1.500	0.647

Support (\$ in Millions)				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			
Subtotal			-	-		-		-		-		-	-	-	-

Test and Evaluation (\$ in Millions)				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			
Flight Test	Various	96th Test Wing : Eglin AFB, FL	0.000	0.770	Jul 2016	0.000		0.000		0.000		0.000	0.000	0.770	0.374
Subtotal			0.000	0.770		0.000		0.000		0.000		0.000	0.000	0.770	0.374

Management Services (\$ in Millions)				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)	Various	AFLCM/EBDJ : Eglin AFB, FL	0.000	0.119	Apr 2015	0.000		0.000		0.000		0.000	0.000	0.119	0.000
Subtotal			0.000	0.119		0.000		0.000		0.000		0.000	0.000	0.119	0.000

			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			0.000	2.389	0.000	0.000	0.000	0.000	0.000	2.389	1.021

Remarks

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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
Design of the JDAM Strake-Set for a 5,000lb Bomb	2	2015	3	2016
Conduct Wind Tunnel Testing	2	2015	3	2016
Order Test Asset Long Lead Items	3	2015	3	2015
Fabrication of Test Assets	3	2015	4	2015
Environmental Qualification Testing	2	2016	3	2016
Autopilot	2	2015	2	2016
Integration on F-15E	2	2016	2	2016
Flight Testing (Test Drops)	2	2016	4	2016