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**Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Air Force** **DATE:** February 2010

<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0604330F: <i>Joint Dual-Role Air Dominance Missile (JDRADM)</i>
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COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
Total Program Element	0.000	6.882	9.799	0.000	9.799	9.858	3.086	0.000	0.000	Continuing	Continuing
645342: <i>Concept Development</i>	0.000	6.882	9.799	0.000	9.799	9.858	3.086	0.000	0.000	Continuing	Continuing

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

The Joint Dual Role Air Dominance Missile (JDRADM) is envisioned as a multi-role (air-to-air & air-to-ground) missile for the 5th generation fighter force structure. It will provide increased flexibility, standoff range, and lethality to defeat 2020+ air and surface threats. It is intended for internal carriage on the F-22A and F-35, and external carriage on selected legacy aircraft.

This program continues risk reduction and concept development efforts to ensure critical technologies are adequately assessed to support the Materiel Solution Analysis (MSA) phase of the program.

**B. Program Change Summary (\$ in Millions)**

	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011 Base</u>	<u>FY 2011 OCO</u>	<u>FY 2011 Total</u>
Previous President's Budget	0.000	6.882	0.000	0.000	0.000
Current President's Budget	0.000	6.882	9.799	0.000	9.799
Total Adjustments	0.000	0.000	9.799	0.000	9.799
• Congressional General Reductions		0.000			
• Congressional Directed Reductions		0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds		0.000			
• Congressional Directed Transfers		0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	0.000	0.000	9.799	0.000	9.799

**Change Summary Explanation**

The FY 2010 President's Budget submittal did not reflect FY 2011 through FY 2015 funding. Therefore, explanation of changes between the two budget positions cannot be made in a relevant manner.

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**Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force** **DATE:** February 2010

<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0604330F: <i>Joint Dual-Role Air Dominance Missile (JDRADM)</i>	<b>PROJECT</b> 645342: <i>Concept Development</i>
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COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
645342: <i>Concept Development</i>	0.000	6.882	9.799	0.000	9.799	9.858	3.086	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

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

The Joint Dual Role Air Dominance Missile (JDRADM) is envisioned as a multi-role (air-to-air & air-to-ground) missile for the 5th generation fighter force structure. It will provide increased flexibility, standoff range, and lethality to defeat 2020+ air and surface threats. It is intended for internal carriage on the F-22A and F-35, and external carriage on selected legacy aircraft.

This program continues risk reduction and concept development efforts to ensure critical technologies are adequately assessed to support the Materiel Solution Analysis (MSA) phase of the program.

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

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
MAJOR THRUST: Continue Risk Reduction Studies  <i>FY 2009 Accomplishments:</i> In FY2009: N/A.  <i>FY 2010 Plans:</i> In FY2010: Continue missile components and system design. Funds component technology efforts [Seeker Integrated Target Endgame (SITES), Multi-Role Responsive Ordnance Kill Mechanism (MR ROKM), Dual-Role Air Dominance Missile Technology (DRADM-T), and JDRADM technology demonstration] to mature critical technologies to enter MSA. Continue mission support and provide program management to execute studies.	0.000	1.800	0.691	0.000	0.691

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**Exhibit R-2A, RDT&E Project Justification:** PB 2011 Air Force **DATE:** February 2010

<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0604330F: <i>Joint Dual-Role Air Dominance Missile (JDRADM)</i>	<b>PROJECT</b> 645342: <i>Concept Development</i>
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**B. Accomplishments/Planned Program (\$ in Millions)**

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Accomplishments/Planned Programs Subtotals	0.000	6.882	9.799	0.000	9.799

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

<u>Line Item</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011 Base</u>	<u>FY 2011 OCO</u>	<u>FY 2011 Total</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• PE 0207163F: <i>AMRAAM</i>	8.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**D. Acquisition Strategy**

JDRADM is in the pre-Materiel Solution Analysis (MSA) phase of acquisition. Risk reduction and critical technology maturity efforts supported by the Air Force Research Lab (AFRL) are on-going. Development of the JDRADM acquisition/contract strategy and formalizing requirements are also in work. These efforts will lead to MSA, Technology Development (TD), and Engineering and Manufacturing Development (EMD).

**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 2011 Air Force** **DATE:** February 2010

<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0604330F: <i>Joint Dual-Role Air Dominance Missile (JDRADM)</i>	<b>PROJECT</b> 645342: <i>Concept Development</i>
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**Product Development (\$ in Millions)**

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Risk Reduction Studies	Various/ Various	Various Various	0.000	1.600	Dec 2009	0.291	Dec 2010	0.000		0.291	0.000	1.891	0.000
MSA	Various/ Various	Various Various	0.000	4.882	Dec 2009	8.708	Dec 2010	0.000		8.708	0.000	13.590	0.000
<b>Subtotal</b>			0.000	6.482		8.999		0.000		8.999	0.000	15.481	0.000

**Remarks**

**Management Services (\$ in Millions)**

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Program Management and Admin (PMA)	TM	Various Various	0.000	0.400	Dec 2009	0.800	Dec 2010	0.000		0.800	0.000	1.200	0.000
<b>Subtotal</b>			0.000	0.400		0.800		0.000		0.800	0.000	1.200	0.000

**Remarks**

	Total Prior Years Cost	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>		0.000	6.882	9.799	0.000	9.799	0.000	16.681

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	Total Prior Years Cost	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
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**Remarks**  
Total Prior Years Cost may include only FY 2009 data.

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**Exhibit R-4, RDT&E Schedule Profile: PB 2011 Air Force**

**DATE:** February 2010

**APPROPRIATION/BUDGET ACTIVITY**

3600: *Research, Development, Test & Evaluation, Air Force*  
 BA 4: *Advanced Component Development & Prototypes (ACD&P)*

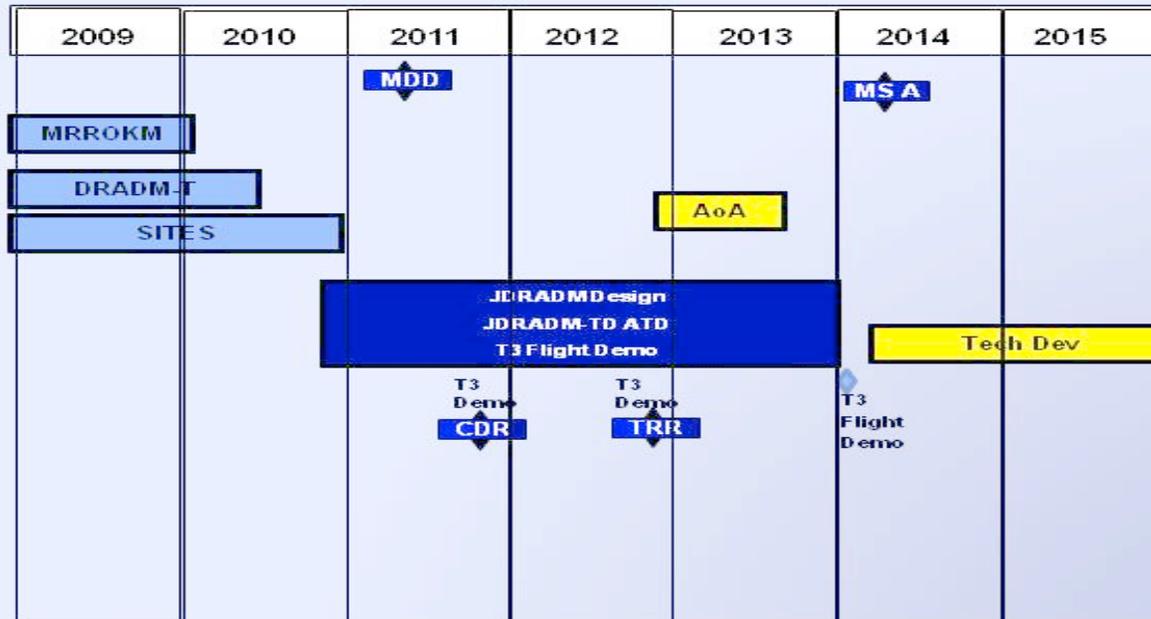
**R-1 ITEM NOMENCLATURE**

PE 0604330F: *Joint Dual-Role Air Dominance Missile (JDRADM)*

**PROJECT**

645342: *Concept Development*

## JDRADM Schedule



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**Exhibit R-4A, RDT&E Schedule Details: PB 2011 Air Force** **DATE:** February 2010

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Schedule Details

Event	Start		End	
	Quarter	Year	Quarter	Year
Risk reduction study contract award	2	2009	2	2009
Concept refinement contract award	1	2010	1	2010
Concept refinement Phase 1	2	2010	4	2010
Concept refinement Phase 2	1	2011	3	2011

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