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

Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 Program Element (Number/Name) PE 0207110F I Next Generation Air Dominance
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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	-	18.224	8.830	20.595	0.000	20.595	12.875	12.875	0.000	0.000	0.000	73.399
646007: 2030+ AIR DOMINANCE AOS	-	18.224	8.830	20.595	0.000	20.595	12.875	12.875	0.000	0.000	0.000	73.399
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Next Generation Air Dominance enables future execution of Air Force air superiority doctrine within the Air Superiority core mission area, as directed in Joint Requirements Oversight Council Memorandum (JROCM) 043-13. Program efforts mitigate critical capability gaps identified in the March 2011 Air Force Next Generation Tactical Air (TACAIR) Capabilities Based Assessment. This program will provide air superiority capability improvements in the areas of persistence, survivability, lethality, connectivity, interoperability, and affordability. Funding provides program management support, operational concept exploration, technology assessments and development, operational and system architecture development, maturation and risk reduction of air superiority related technologies, and integrated system concept development and demonstration.

BA-04 - This program is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P) because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

B. Program Change Summary (\$ in Millions)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Previous President's Budget	15.722	8.830	0.000	0.000	0.000
Current President's Budget	18.224	8.830	20.595	0.000	20.595
Total Adjustments	2.502	0.000	20.595	0.000	20.595
• 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	3.037	0.000			
• SBIR/STTR Transfer	-0.535	0.000			
• Other Adjustments	0.000	0.000	20.595	0.000	20.595

Change Summary Explanation

FY15 - \$3.037 reprogramming for NGAD concept development, integration studies & risk reduction activities and -\$535K for Small Business Innovative Research
 FY17 - \$20.595M added to expand scope of concept development & integration assessments and technology risk reduction activities addressing family of systems concepts

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2015	FY 2016	FY 2017
<p>Title: 2030+ Air Dominance Concept Development</p> <p>Description: 2030+ Air Dominance Concept Development consists of operational analyses, threat studies and technology candidate assessments to identify operational concepts and technologies that improve persistence, survivability, lethality, connectivity, interoperability and affordability in 2030 and beyond. This effort will provide for prime contractor support manpower to conduct analyses, identify technology candidates and concept studies.</p> <p>Includes A&AS, travel, supplies, and other program costs and program costs to support the Air Superiority 2030 Enterprise Capability Collaboration Team (AS2030 ECCT).</p> <p>FY 2015 Accomplishments: The 2030+ Air Dominance Concept Development working groups methodically assessed the candidate concepts using USAF directives and guidance.</p> <p>Includes A&AS, travel, supplies, and other program costs and program costs to support the Air Superiority 2030 Enterprise Capability Collaboration Team (AS2030 ECCT).</p> <p>FY 2016 Plans: The 2030+ Air Dominance Concept Development working groups will continue to methodically assess the candidate concepts using USAF directives and guidance.</p> <p>Includes A&AS, travel, supplies, and other program costs and program costs to support the Air Superiority 2030 Enterprise Capability Collaboration Team (AS2030 ECCT).</p> <p>FY 2017 Plans: The 2030+ Air Dominance candidate concepts will integrate technologies into evolving threat environments and scenarios. Studies that refine system concepts and operational/system architectures to include family of systems and system of systems are required in support of the strategic choices.</p> <p>Includes A&AS, travel, supplies, and other program costs and program costs to support the Air Superiority 2030 Enterprise Capability Collaboration Team (AS2030 ECCT).</p>		10.908	5.403	6.582
<p>Title: Air Dominance Studies</p> <p>Description: Studies that support the 2030+AD program by refining system concepts and operational/system architectures to include family of systems and system of systems.</p>		1.463	0.857	3.160

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2015	FY 2016	FY 2017
Includes A&AS, travel, supplies, and other program costs and program costs to support the Air Superiority 2030 Enterprise Capability Collaboration Team (AS2030 ECCT). FY 2015 Accomplishments: The 2030+AD candidate concepts integrated technologies into evolving threat environments and scenarios. Studies that refine system concepts and operational/system architectures to include family of systems and system of systems are required in support of strategic choices. Includes A&AS, travel, supplies, and other program costs and program costs to support the Air Superiority 2030 Enterprise Capability Collaboration Team (AS2030 ECCT). FY 2016 Plans: The 2030+AD candidate concepts will continue integrating technologies into evolving threat environments and scenarios. Studies that refine system concepts and operational/system architectures to include family of systems and system of systems are required in support of the strategic choices. Includes A&AS, travel, supplies, and other program costs and program costs to support the Air Superiority 2030 Enterprise Capability Collaboration Team (AS2030 ECCT). FY 2017 Plans: The 2030+AD candidate concepts will integrate technologies into evolving threat environments and scenarios. Studies that refine system concepts and operational/system architectures to include family of systems and system of systems are required in support of strategic choices. Includes A&AS, travel, supplies, and other program costs and program costs to support the Air Superiority 2030 Enterprise Capability Collaboration Team (AS2030 ECCT).				
Title: Air Dominance Technical Risk Reduction Description: Industry informed government concepts are developed through technical risk reduction work with prime contractors to refine technology integration and system design trade space in conjunction with operational analysis to inform system performance trades. Includes A&AS, travel, supplies, and other program costs and program costs to support the Air Superiority 2030 Enterprise Capability Collaboration Team (AS2030 ECCT).		5.853	2.570	10.853

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2015	FY 2016	FY 2017
<p><i>FY 2015 Accomplishments:</i> 2030+ Air Dominance technology integration, operational and system trade space analysis required to support Concept Development.</p> <p>Includes A&AS, travel, supplies, and other program costs and program costs to support the Air Superiority 2030 Enterprise Capability Collaboration Team (AS2030 ECCT).</p> <p><i>FY 2016 Plans:</i> 2030+ Air Dominance technology integration, operational and system trade space analysis required to support Concept Development.</p> <p>Includes A&AS, travel, supplies, and other program costs and program costs to support the Air Superiority 2030 Enterprise Capability Collaboration Team (AS2030 ECCT).</p> <p><i>FY 2017 Plans:</i> The 2030+AD candidate concepts are integrating technologies into evolving threat environments and scenarios. Studies that refine system concepts and operational/system architectures to include family of systems and system of systems are required in support of strategic choices.</p> <p>Includes A&AS, travel, supplies, and other program costs and program costs to support the Air Superiority 2030 Enterprise Capability Collaboration Team (AS2030 ECCT).</p>			
Accomplishments/Planned Programs Subtotals	18.224	8.830	20.595

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
• N/A: None	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	-

Remarks
N/A

E. Acquisition Strategy
The Next Generation Air Dominance acquisition strategy is based on top-down, multi-domain capabilities development planning and oversight framework. Cross-functional teams will conduct war-games and experiments to quantify the operational value of alternative concepts and technologies to provide solutions to current and future air superiority capability gaps.

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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 / 4	R-1 Program Element (Number/Name) PE 0207110F / Next Generation Air Dominance	Project (Number/Name) 646007 / 2030+ AIR DOMINANCE AOS
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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			
Research/Development Efforts	Various	Not specified. : TBD	-	16.607		7.730		19.295		0.000		19.295	Continuing	Continuing	-
Subtotal			-	16.607		7.730		19.295		0.000		19.295	-	-	-

Remarks
Contractual specifics are not available at this level of security classification.

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			
Subtotal			-	-		-		-		-		-	-	-	-

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 Support	Various	Not specified. : TBD	-	1.617		1.100		1.300		0.000		1.300	Continuing	Continuing	-
Subtotal			-	1.617		1.100		1.300		0.000		1.300	-	-	-

			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			-	18.224	8.830	20.595	0.000	20.595	-	-	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Air Force							Date: February 2016			
Appropriation/Budget Activity 3600 / 4			R-1 Program Element (Number/Name) PE 0207110F / <i>Next Generation Air Dominance</i>			Project (Number/Name) 646007 / 2030+ AIR DOMINANCE AOS				
	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract	

Remarks
 Details of contract data are not shown because of the level of security classification.

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Exhibit R-4, RDT&E Schedule Profile: PB 2017 Air Force		Date: February 2016
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0207110F / <i>Next Generation Air Dominance</i>	Project (Number/Name) 646007 / 2030+ AIR DOMINANCE AOS

	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				
Concept Exploration																																
Integration Studies																																
Technology Risk Reduction																																
Analysis of Alternatives																																
FY17 Strategic Planning Choices Presented																																
FY18 Strategic Planning Choices Presented																																
FY19 Strategic Planning Choices Presented																																
FY20 Strategic Planning Choices Presented																																
FY21 Strategic Planning Choices Presented																																
FY22 Strategic Planning Choices Presented																																

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Exhibit R-4A, RDT&E Schedule Details: PB 2017 Air Force		Date: February 2016
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0207110F / <i>Next Generation Air Dominance</i>	Project (Number/Name) 646007 / 2030+ <i>AIR DOMINANCE AOS</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Concept Exploration	1	2015	4	2021
Integration Studies	3	2015	4	2021
Technology Risk Reduction	3	2015	4	2021
Analysis of Alternatives	2	2017	3	2018
FY17 Strategic Planning Choices Presented	1	2016	1	2016
FY18 Strategic Planning Choices Presented	1	2017	1	2017
FY19 Strategic Planning Choices Presented	1	2018	1	2018
FY20 Strategic Planning Choices Presented	1	2019	1	2019
FY21 Strategic Planning Choices Presented	1	2020	1	2020
FY22 Strategic Planning Choices Presented	1	2021	1	2021

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