

**UNCLASSIFIED**

**Exhibit R-2, RDT&E Budget Item Justification:** PB 2025 Air Force **Date:** March 2024

<b>Appropriation/Budget Activity</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 4: Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 Program Element (Number/Name)</b> PE 0604609F / <i>Requirements Analysis &amp; Concept Maturation</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	-	0.000	0.000	22.667	0.000	22.667	22.832	13.033	13.419	13.705	Continuing	Continuing
640011: <i>Architecture &amp; Integration Core Ops and Gap Assessment</i>	-	0.000	0.000	9.780	0.000	9.780	9.907	10.099	10.397	10.619	Continuing	Continuing
640012: <i>Maturation and Modernization</i>	-	0.000	0.000	2.842	0.000	2.842	2.879	2.934	3.022	3.086	Continuing	Continuing
646090: <i>Hard and Deeply Buried Targets (HDBT)</i>	-	0.000	0.000	10.045	0.000	10.045	10.046	0.000	0.000	0.000	0.000	20.091

**Note**

This program, BA 4, PE 0604609F, project 640011, Architecture and Integration Core Ops, is a new start.  
 This program, BA 4, PE 0604609F, project 640011, Gap Assessments and Acquisition Planning, is a new start.  
 This program, BA 4, PE 0604609F, project , Maturation and Modernization, is a new start.  
 This program, BA 4, PE 0604609F, project , Hard and Deeply Buried Targets (HDBT), is a new start.

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

The objective of the Requirements and Concept Maturation (RACM) program element is to identify, assess, mature and transition critical technologies to ensure warfighter capability is aligned to current and future threats. This PE ensures foundational resources for four capability development functions including stakeholder coordination and alignment; weapon system architecture construction; requirements development; and system maturation and program transition. RACM also provides robust mission and threat informed concept characterizations at all appropriate levels of classification in support of early acquisition activities and system suitability assessments. RACM activities include, but are not limited to, early systems engineering, requirements refinement, capability gap analysis, operational prototyping, risk assessment and mitigation, cost estimation, initial product support and related pre-acquisition planning and analyses supporting collaborative development planning and builds on knowledge gained from technology development and transition efforts. These tasks provide timely decision-support to senior leaders to ensure effective, affordable, and supportable capabilities become successful programs of record. RACM also supports all activities and costs needed to support the Air Force to further these types of development projects, as well as, required program support costs (PSC).

This program element may include necessary civilian pay expenses required to manage, execute, and deliver RACM capabilities for emergent or unanticipated weapon system capability. The use of such program's funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605832F, 0605833F, 0605898F, 0606398F. In FY25 3.655M is forecasted for civilian pay expenses in this program element.

This program element includes FY25 and continuation funds transferred from program element 0606017F Requirements Analysis and Maturation.

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<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2025 Air Force	<b>Date:</b> March 2024
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<b>Appropriation/Budget Activity</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 4: Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 Program Element (Number/Name)</b> PE 0604609F / <i>Requirements Analysis &amp; Concept Maturation</i>
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This effort 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.

This effort 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>B. Program Change Summary (\$ in Millions)</b>	<b><u>FY 2023</u></b>	<b><u>FY 2024</u></b>	<b><u>FY 2025 Base</u></b>	<b><u>FY 2025 OCO</u></b>	<b><u>FY 2025 Total</u></b>
Previous President's Budget	0.000	0.000	0.000	0.000	0.000
Current President's Budget	0.000	0.000	22.667	0.000	22.667
Total Adjustments	0.000	0.000	22.667	0.000	22.667
• 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	0.000	0.000			
• Other Adjustments	0.000	0.000	22.667	0.000	22.667

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Air Force										<b>Date:</b> March 2024		
<b>Appropriation/Budget Activity</b> 3600 / 4					<b>R-1 Program Element (Number/Name)</b> PE 0604609F / <i>Requirements Analysis &amp; Concept Maturation</i>				<b>Project (Number/Name)</b> 640011 / <i>Architecture &amp; Integration Core Ops and Gap Assessment</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
640011: <i>Architecture &amp; Integration Core Ops and Gap Assessment</i>	-	0.000	0.000	9.780	0.000	9.780	9.907	10.099	10.397	10.619	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**Note**

This program, BA 4, PE 0604609F, project 640011, Architecture and Integration Core Ops, is a new start.  
 This program, BA 4, PE 0604609F, project 640011, Gap Assessments and Acquisition Planning, is a new start.

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

This BPAC includes, but is not limited to, activities for real-time, high-fidelity, live-virtual-constructive modeling, simulation, and analysis to evaluate stakeholder-focused warfighting capabilities, strategies, concepts of operation, tactics, emerging technologies, and human system interfaces to support and enable acquisition, test, and training for current and emerging capability concepts. This includes pre-systems acquisition planning activities, initial product support planning, developing capability concepts into high-confidence initial designs supporting dependency analysis, performance estimation, risk identification, and additional concept refinement in coordination with Air Force priorities to prioritize recommendations for science and technology investments in the critical path for Operational Initiatives (OIs) and key capability enablers. These funds may cover, but are not limited to, hardware, software, travel, personnel and other costs needed to accomplish the mission.

Engineering and Mission Assessments provides decision support for stakeholder-focused AF capability development through, but not limited to, such things as capability stakeholder engagement and management to include user, requirements, S&T and acquisition communities to ensure effective coordination aligned to USAF and DoD priorities including OIs. Emerging requirements are executed as directed by AF demand signals & priorities. These mission assessments deliver engineering, gap analysis, risk assessment, and capability development to meet decision support of the AF with regards to acquisition and operational suitability considerations to include maintainability, supportability, affordability, environmental effects and training.

This effort 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.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver RACM capabilities for emergent or unanticipated weapon system capability. The use of such program's funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605832F, 0605833F, 0605898F, 0606398F. In FY25 1.950M is forecasted for civilian pay expenses in this program element.

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

	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
<b>Title:</b> Architecture and Integration Core Ops	-	0.000	5.000

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Air Force		<b>Date:</b> March 2024		
<b>Appropriation/Budget Activity</b> 3600 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604609F / <i>Requirements Analysis &amp; Concept Maturation</i>	<b>Project (Number/Name)</b> 640011 / <i>Architecture &amp; Integration Core Ops and Gap Assessment</i>		
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
<p><b>Description:</b> The Architecture and Integration Directorate operational costs, include but are not limited to, supporting modeling, simulation and analysis infrastructure, networking equipment, facility operations and resources in support of constructive and virtual environments. Network and integration facilities allow for analysis and development needed to provide cutting-edge technology across multiple security levels to meet the needs of the Air Force. This includes project support and operational support costs.</p> <p><b>FY 2024 Plans:</b> N/A</p> <p><b>FY 2025 Plans:</b> Continue to execute pre-systems acquisition activities. Ensure equipment, facility, and lab operations are available across multiple security levels to develop capability concepts into high-level initial designs and/or initial prototypes supporting dependency analysis, performance estimation, risk identification, and additional concept refinement in coordination with Air Force, DoD and acquisition leadership. Develop prioritized recommendations for science and technology investments in the critical path OIs and key capability enablers.</p> <p><b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> FY 2025 increased compared to FY 2024 by \$5.000 million due to the standup of the Architecture and Integration Core Ops project.</p>				
<p><b>Title:</b> Gap Assessments and Acquisition Planning</p> <p><b>Description:</b> Provides a core AF capability to deliver stakeholder-focused development analysis and decision support to the Air Force with current year and future initiatives by performing technical analysis, risk assessments, concept development, engineering support, integration, and software solutions leveraging agile approaches. This core capability provides increased acquisition maturation and initiation of high-confidence programs of record. Tasks include but are not limited to a coordinated and program-informed modeling, simulation and analysis along with agile software development, that complements and supports other activities associated with early acquisition, and the assessment of readiness of concepts and capabilities for acquisition efforts. Provides acquisition decision support in consideration of, but not limited to, produceability, reliability, affordability, environmental effects, and training requirements. Includes a developmental security operation focused responsiveness to emerging AF requirements. This includes project support and operational support costs.</p> <p><b>FY 2024 Plans:</b> N/A</p> <p><b>FY 2025 Plans:</b></p>		-	0.000	4.780

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Air Force		<b>Date:</b> March 2024		
<b>Appropriation/Budget Activity</b> 3600 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604609F / <i>Requirements Analysis &amp; Concept Maturation</i>	<b>Project (Number/Name)</b> 640011 / <i>Architecture &amp; Integration Core Ops and Gap Assessment</i>		
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
Continue to provide capability development and analysis expertise to improve support to AF and acquisitions communities by increasing Concept Development/Developmental Planning (CD/DP) to deliver timely data that informs and enables the future of the AF. This includes, but is not limited to, hardware, software and personnel required to execute the analysis and development needed to provide state-of-the-art solutions.  <b><i>FY 2024 to FY 2025 Increase/Decrease Statement:</i></b> FY 2025 increased compared to FY 2024 by \$4.780 million due to the standup of the Gap Assessments and Acquisition Planning project.				
<b>Accomplishments/Planned Programs Subtotals</b>		-	0.000	9.780
<b>C. Other Program Funding Summary (\$ in Millions)</b> N/A				
<b>Remarks</b>				
<b>D. Acquisition Strategy</b> Acquisition strategy will be tailored for each individual Concept Development and Development planning project directed by the Air Force Stakeholders.				

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Air Force												Date: March 2024			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
3600 / 4				PE 0604609F / Requirements Analysis & Concept Maturation				640011 / Architecture & Integration Core Ops and Gap Assessment							
Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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
Concept Development and Maturation	TBD	TBD : TBD	-	-		-		2.332	Jan 2025	-		2.332	Continuing	Continuing	-
<b>Subtotal</b>			-	-		-		2.332		-		2.332	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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
PMA	Various	Not specified. : TBD	-	-		-		5.000	Jan 2025	-		5.000	Continuing	Continuing	-
<b>Subtotal</b>			-	-		-		5.000		-		5.000	Continuing	Continuing	N/A
Test and Evaluation (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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	TBD	Not specified. : TBD	-	-		-		0.498	Jun 2025	-		0.498	Continuing	Continuing	-
<b>Subtotal</b>			-	-		-		0.498		-		0.498	Continuing	Continuing	N/A
Management Services (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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
Civ Pay	TBD	AFLCMC/FZA : WPAFB, OH	-	-		-		1.950	Oct 2024	-		1.950	Continuing	Continuing	-
<b>Subtotal</b>			-	-		-		1.950		-		1.950	Continuing	Continuing	N/A
<b>Project Cost Totals</b>			-	-		-		9.780		-		9.780	Continuing	Continuing	N/A

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis:</b> PB 2025 Air Force	<b>Date:</b> March 2024
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<b>Appropriation/Budget Activity</b> 3600 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604609F / <i>Requirements Analysis &amp; Concept Maturation</i>	<b>Project (Number/Name)</b> 640011 / <i>Architecture &amp; Integration Core Ops and Gap Assessment</i>
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	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
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<u>Remarks</u>

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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2025 Air Force</b>		<b>Date:</b> March 2024
<b>Appropriation/Budget Activity</b> 3600 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604609F / <i>Requirements Analysis &amp; Concept Maturation</i>	<b>Project (Number/Name)</b> 640011 / <i>Architecture &amp; Integration Core Ops and Gap Assessment</i>

FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
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

<b>Architecture and Integration Core Ops</b>	
Developmental Evaluation	
<b>Gap Assessments and Acquisition Planning</b>	
CD/DP	

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2025 Air Force		<b>Date:</b> March 2024
<b>Appropriation/Budget Activity</b> 3600 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604609F / <i>Requirements Analysis &amp; Concept Maturation</i>	<b>Project (Number/Name)</b> 640011 / <i>Architecture &amp; Integration Core Ops and Gap Assessment</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Architecture and Integration Core Ops</i></b>				
Developmental Evaluation	2	2025	4	2029
<b><i>Gap Assessments and Acquisition Planning</i></b>				
CD/DP	1	2025	4	2029

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Air Force										<b>Date:</b> March 2024		
<b>Appropriation/Budget Activity</b> 3600 / 4					<b>R-1 Program Element (Number/Name)</b> PE 0604609F / <i>Requirements Analysis &amp; Concept Maturation</i>				<b>Project (Number/Name)</b> 640012 / <i>Maturation and Modernization</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
640012: <i>Maturation and Modernization</i>	-	0.000	0.000	2.842	0.000	2.842	2.879	2.934	3.022	3.086	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**Note**

This program, BA 4, PE 0604609F, project , Maturation and Modernization, is a new start.

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

Provides a core AF capability to execute prototyping efforts for acquisition and technological risk reduction to provide rapid results for the Air Force and increased acquisition maturation and initiation of high-confidence programs of record. This also provides for other activities needed to mature and modernize concepts and systems to transition to traditional program offices. These activities are executed across multiple security levels and include but are not limited to, developmental security operations, agile software development and integration, prototyping, testing, field assessments, concept maturation, initial product support planning, prototype deployments to operational locations, to deliver decision quality data and move concepts from R&D to acquisition program offices.

This effort 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.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver RACM capabilities for emergent or unanticipated weapon system capability. The use of such program's funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605832F, 0605833F, 0605898F, 0606398F. In FY25 0.550M is forecasted for civilian pay expenses in this program element.

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

	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
<b>Title:</b> Maturation and Modernization	-	0.000	2.842
<b>Description:</b> Provides a core AF capability to execute prototyping efforts for acquisition and technological risk reduction to provide rapid results for the Air Force and increased acquisition maturation and initiation of high-confidence programs of record. This also provides for other activities needed to mature and modernize concepts and systems to transition to traditional program offices. These activities are executed across multiple security levels and include but are not limited to, developmental security operations, agile software development and integration, system prototyping, testing, field assessments, concept maturation, prototype deployments to operational locations, to deliver decision quality data and move concepts from a pure R&D activity to acquisition program offices.			
<b>FY 2024 Plans:</b>			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Air Force		<b>Date:</b> March 2024
<b>Appropriation/Budget Activity</b> 3600 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604609F / <i>Requirements Analysis &amp; Concept Maturation</i>	<b>Project (Number/Name)</b> 640012 / <i>Maturation and Modernization</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
N/A			
<p><b><i>FY 2025 Plans:</i></b> Assess and continue to support Air Force capability development through prototyping efforts needed to inform critical reviews of acquisition factors in regard to reliability, availability, compatibility and other elements. Continue to support Air Force and DoD level guidance on prototyping needs and push for transitioning technologies to program offices or back to the research labs. Continue to exploit agile software practices to provide prototype capabilities to decision makers. Continue to leverage existing projects and infrastructure to ensure Air Force and warfighter capability development needs are met.</p> <p><b><i>FY 2024 to FY 2025 Increase/Decrease Statement:</i></b> FY 2025 increased compared to FY 2024 by \$2.842 million due to the standup of the Maturation and Modernization project.</p>			
<b>Accomplishments/Planned Programs Subtotals</b>	-	0.000	2.842

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

N/A

**Remarks**

**D. Acquisition Strategy**

The acquisition strategy will be tailored to each individual Maturation and Modernization project.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Air Force												Date: March 2024			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
3600 / 4				PE 0604609F / Requirements Analysis & Concept Maturation				640012 / Maturation and Modernization							
Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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
Maturation & Modernization	C/CPAF	Not specified. : TBD	-	-		-		1.317	Jan 2025	-		1.317	Continuing	Continuing	-
<b>Subtotal</b>			-	-		-		1.317		-		1.317	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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 Support Costs	C/CPAF	Not specified. : TBD	-	-		-		0.825	Jan 2025	-		0.825	Continuing	Continuing	-
<b>Subtotal</b>			-	-		-		0.825		-		0.825	Continuing	Continuing	N/A
Test and Evaluation (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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	Various	Not specified. : TBD	-	-		-		0.150	Jul 2025	-		0.150	Continuing	Continuing	-
<b>Subtotal</b>			-	-		-		0.150		-		0.150	Continuing	Continuing	N/A
Management Services (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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
Civilian Pay	Allot	Not specified. : TBD	-	-		-		0.550	Jan 2025	-		0.550	Continuing	Continuing	-
<b>Subtotal</b>			-	-		-		0.550		-		0.550	Continuing	Continuing	N/A
			Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract				
<b>Project Cost Totals</b>			-	-	-	2.842	-	2.842	Continuing	Continuing	N/A				
<b>Remarks</b>															

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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2025 Air Force		<b>Date:</b> March 2024
<b>Appropriation/Budget Activity</b> 3600 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604609F / <i>Requirements Analysis &amp; Concept Maturation</i>	<b>Project (Number/Name)</b> 640012 / <i>Maturation and Modernization</i>

	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
	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

<b><i>Maturation and Modernization</i></b>	
Development Evaluation	

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2025 Air Force		<b>Date:</b> March 2024
<b>Appropriation/Budget Activity</b> 3600 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604609F / <i>Requirements Analysis &amp; Concept Maturation</i>	<b>Project (Number/Name)</b> 640012 / <i>Maturation and Modernization</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Maturation and Modernization</i></b>				
Development Evaluation	2	2025	4	2029

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Air Force										<b>Date:</b> March 2024		
<b>Appropriation/Budget Activity</b> 3600 / 4					<b>R-1 Program Element (Number/Name)</b> PE 0604609F / <i>Requirements Analysis &amp; Concept Maturation</i>				<b>Project (Number/Name)</b> 646090 / <i>Hard and Deeply Buried Targets (HDBT)</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
646090: <i>Hard and Deeply Buried Targets (HDBT)</i>	-	0.000	0.000	10.045	0.000	10.045	10.046	0.000	0.000	0.000	0.000	20.091
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**Note**

This program, BA 4, PE 0604609F, project , Hard and Deeply Buried Targets (HDBT), is a new start.

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

The objective of this Air Force-led, DoD-wide effort for Hard and Deeply Buried Targets (HDBT), includes, but is not limited to, an understanding of how ensembles of current and potential future strike capabilities can hold at risk the growing number of sophisticated complexes that are protected, deceptive, and prolific as reported by Intelligence analysts. Analysis will be informed by campaign level warfighting contexts including competing demands for priority platforms and effects. This analysis will ultimately support, but not be limited to, ongoing program planning reviews and be a basis for initiating specific concept Analyses of Alternatives. This program supports all required activities to complete Concept Development and Development Planning (CD/DP) for HDBT up to standing up a Program of Record (PoR). This includes pre-systems acquisition planning activities, initial product support, risk identification, and additional concept refinement in coordination with Air Force priorities to prioritize recommendations for science and technology investments in the critical path for Operational Initiatives (OIs) and key capability enablers. These funds may cover, but are not limited to, hardware, software, travel, personnel and other costs needed to accomplish the mission.

This program is in Budget Activity 4, RDT&E Management Support because this budget activity includes, but is not limited to, research, development, concept development and maturation, test and evaluation efforts, prototyping and funds to sustain and/or modernize the installations or operations required for general research, development, test and evaluation. This also includes program support and operational support costs necessary to further the program up until the standup of a PoR.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver HDBT capabilities for emergent or unanticipated weapon system capability. The use of such program's funds would be in addition to the civilian pay expenses budgeted in program element 605827F, 0605828F, 605829F, 0605832F, 0605833F, 0605898F, 0606398F. In FY25 1.200M is forecasted for civilian pay expenses in this program element.

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

	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
<b>Title:</b> Hard and Deeply Buried Targets (HDBT)	-	0.000	10.045
<b>Description:</b> HDBT includes, but is not limited to the development of an "Ensemble Analysis" to inform, shape, and guide follow-on efforts. This includes program support and operational support costs.			
<b>FY 2024 Plans:</b>			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Air Force		<b>Date:</b> March 2024		
<b>Appropriation/Budget Activity</b> 3600 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604609F / <i>Requirements Analysis &amp; Concept Maturation</i>	<b>Project (Number/Name)</b> 646090 / <i>Hard and Deeply Buried Targets (HDBT)</i>		
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
N/A				
<b>FY 2025 Plans:</b> Start activities to conduct an ensemble analysis for HDBT.				
<b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> FY 2025 increased compared to FY2024 by \$10.045 million due to the standup of the HDBT program.				
<b>Accomplishments/Planned Programs Subtotals</b>		-	0.000	10.045
<b>C. Other Program Funding Summary (\$ in Millions)</b>				
N/A				
<b>Remarks</b>				
<b>D. Acquisition Strategy</b>				
This program's acquisition strategy is still being finalized. Currently, an ensemble analysis is being implemented in FY25 to inform the Air Force to further identify capability gaps and finalize the program acquisition strategy.				

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Air Force** **Date:** March 2024

<b>Appropriation/Budget Activity</b> 3600 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604609F / <i>Requirements Analysis &amp; Concept Maturation</i>	<b>Project (Number/Name)</b> 646090 / <i>Hard and Deeply Buried Targets (HDBT)</i>
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<b>Product Development (\$ in Millions)</b>				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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			
Ensemble Analysis and CD/DP	TBD	TBD : TBD	-	-		-		4.895	Jan 2025	-		4.895	Continuing	Continuing	-
<b>Subtotal</b>			-	-		-		4.895		-		4.895	Continuing	Continuing	N/A

<b>Support (\$ in Millions)</b>				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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 Support Costs	Various	Not specified. : TBD	-	-		-		2.100	Jan 2025	-		2.100	Continuing	Continuing	-
<b>Subtotal</b>			-	-		-		2.100		-		2.100	Continuing	Continuing	N/A

<b>Test and Evaluation (\$ in Millions)</b>				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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			
Test	C/CPAF	Not specified. : TBD	-	-		-		0.950	Jun 2025	-		0.950	Continuing	Continuing	-
<b>Subtotal</b>			-	-		-		0.950		-		0.950	Continuing	Continuing	N/A

<b>Management Services (\$ in Millions)</b>				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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			
Civilian Pay	Allot	Not specified. : TBD	-	-		-		2.100	Jan 2025	-		2.100	Continuing	Continuing	-
<b>Subtotal</b>			-	-		-		2.100		-		2.100	Continuing	Continuing	N/A

			Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>			-	-	-	10.045	-	10.045	Continuing	Continuing	N/A

**Remarks**

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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2025 Air Force		<b>Date:</b> March 2024
<b>Appropriation/Budget Activity</b> 3600 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604609F / <i>Requirements Analysis &amp; Concept Maturation</i>	<b>Project (Number/Name)</b> 646090 / <i>Hard and Deeply Buried Targets (HDBT)</i>

FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
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

<b>HDBT</b>	
Ensemble Analysis	██████████
Concept Development/Development Planning	████████████████████

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2025 Air Force		<b>Date:</b> March 2024
<b>Appropriation/Budget Activity</b> 3600 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604609F / <i>Requirements Analysis &amp; Concept Maturation</i>	<b>Project (Number/Name)</b> 646090 / <i>Hard and Deeply Buried Targets (HDBT)</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>HDBT</i></b>				
Ensemble Analysis	2	2025	4	2025
Concept Development/Development Planning	1	2026	4	2026