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

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0605057F / <i>Next Generation Air-refueling System</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	7.014	0.000	7.014	0.000	0.000	0.000	0.000	Continuing	Continuing
640010: <i>Next Generation Air-refueling System (NGAS)</i>	-	0.000	0.000	7.014	0.000	7.014	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Upon passage of FY 2024 appropriations, PE 0605057F, Next Generation Air-Refueling System (NGAS), Project 652430, Next Generation Tanker Development, Budget Activity 5, future tanker support funding will be transferred to PE 0605057F, Next Generation Air-Refueling System (NGAS), Project 640010, Next Generation Air-refueling System (NGAS), Budget Activity 4. This is a transfer of funding from Budget Activity 5 to Budget Activity 4, in order to provide transparency to the pre-MDAP NGAS program.

A. Mission Description and Budget Item Justification

NGAS is an accelerated, advanced air refueling system that meets the future needs of the joint force. NGAS will deliver adaptive and agile platform(s) and mission systems as part of a tanker Family of Systems by the mid-2030s. Air Mobility Command is currently leading an Analysis of Alternatives (AoA) effort that shapes requirements, refines the program's acquisition strategy, and determines the technology development timeline.

The Air Force's assessment includes clean sheet design(s) and purpose-built aircraft to address projected threats and needed capabilities and leverages benefits of full and open competition. The mission systems will include platform agnostic communications, threat agnostic defensive systems, and agile mission execution. The Department of the Air Force (DAF) will also identify opportunities to integrate the mission systems on KC-46A and Tanker Recapitalization aircraft.

In FY 2025, the DAF will fund post-AoA studies, update tanker models and run high-fidelity modeling and simulation to further exercise joint warfighting concepts and plans. In addition, the AoA results will be validated, leading to initial requirements documented in a draft Capabilities Development Document (CDD). Additionally, prep for the acquisition strategy for the Technology, Maturation and Risk Reduction (TMRR) phase and Milestone A preparation will continue. The DAF is awaiting the AoA results before determining NGAS development funding.

Acquisition Agility Act (AAA) Prototyping separate from a Program of Record (POR).

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F and 0606398F. In FY 2023 \$0.000 million was expended for civilian pay expenses in this program element, and in FY 2024 \$0.000 million is forecast for civilian pay expenses in this program element.

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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.

B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	0.000	0.000	0.000	0.000	0.000
Current President's Budget	0.000	0.000	7.014	0.000	7.014
Total Adjustments	0.000	0.000	7.014	0.000	7.014
• 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	7.014	0.000	7.014

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
Title: Support	-	-	7.014
Description: NGAS			
FY 2025 Plans: Continue studies and analyses, update tanker models, run high fidelity modeling and simulation, continue acquisition planning, pre-milestone activities, requirements development, acquisition strategy refinement and RFP development for NGAS tanker development and other future tanker development efforts.			
FY 2024 to FY 2025 Increase/Decrease Statement: Funding increase due to acquisition planning, pre-milestone activities, requirements development, acquisition strategy refinement and contracting activities.			
Accomplishments/Planned Programs Subtotals	-	-	7.014

D. Other Program Funding Summary (\$ in Millions)											Cost To
Line Item	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Complete	Total Cost
• RDTE 05 0605057F: <i>Next Generation Air-refueling System</i>	-	7.928	-	-	-	-	-	-	-	0.000	7.928

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

<u>Line Item</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u> <u>Base</u>	<u>FY 2025</u> <u>OCO</u>	<u>FY 2025</u> <u>Total</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
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Remarks

E. Acquisition Strategy

The NGAS platform(s) will be clean sheet design(s) and purpose-built aircraft to address projected threats and needed capabilities and leverages benefits of full and open competition. The yet-to-be determined NGAS acquisition strategy will be based on a future approved CDD requirements and Federal Acquisitions Regulation/ Defense Federal Acquisition Regulation Supplement (FAR/DFARS) compliance. However, the notional acquisition approach is to award Technology Maturation Risk Reduction contracts that mature and develop key future technologies with multiple vendors. In addition, Science and Technology efforts will be funded to develop critical path technologies needed to meet attributes defined in the Advanced Air Refueling Initial Capabilities Document (ICD) to a Technology Readiness Level greater than 5.

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Air Force		Date: March 2024
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0605057F / <i>Next Generation Air-refueling System</i>	Project (Number/Name) 640010 / <i>Next Generation Air-refueling System (NGAS)</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

NGAS	
Mission Support and Studies and Analysis	████████████████████

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Air Force		Date: March 2024
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0605057F / <i>Next Generation Air-refueling System</i>	Project (Number/Name) 640010 / <i>Next Generation Air-refueling System (NGAS)</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
NGAS				
Mission Support and Studies and Analysis	1	2025	2	2026