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Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Army **Date:** May 2021

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 5: System Development & Demonstration (SDD)</i>					R-1 Program Element (Number/Name) PE 0605830A / <i>Aviation Ground Support Equipment</i>							
COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	-	1.596	1.413	1.201	-	1.201	-	-	-	-	-	-
EE5: <i>Aviation Ground Support Equipment</i>	-	1.596	1.413	1.201	-	1.201	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

Aviation Ground Support Equipment (AGSE) Product Directorate conducts developmental testing and the acquisition of prototypes to enhance the functionality of current and future aircraft maintenance equipment. This will be accomplished by identifying more effective aircraft maintenance equipment, validating new maintenance concepts, improving machine interfaces, updating aircraft maintenance processes, and developing improved diagnostic technologies which will reduce Operation and Support costs. This program provides for the development of rapid battle repair procedures, tools, ground handling, and test equipment to speed the return of aircraft to a fully mission capable status. Included in this program are: Aviation Ground Power Unit Next Generation (AGPU Nex Gen), Self-propelled Crane Aircraft Maintenance and Positioning Increment II (SCAMP II), (Expeditionary Variant), Aircraft Cleaning and Deicing System (ACDS), Turbine Engine Wash System (TEWS) and development of support equipment required for maintenance of modernized/future force aircraft.

<u>B. Program Change Summary (\$ in Millions)</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022 Base</u>	<u>FY 2022 OCO</u>	<u>FY 2022 Total</u>
Previous President's Budget	1.664	1.467	1.385	-	1.385
Current President's Budget	1.596	1.413	1.201	-	1.201
Total Adjustments	-0.068	-0.054	-0.184	-	-0.184
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.068	-0.054			
• Adjustments to Budget Years	-	-	-0.184	-	-0.184

Change Summary Explanation

Reduction in Current PB22 as a result of a decrease in the Aviation Ground Power Unit Next Generation system.

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Army										Date: May 2021		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0605830A / Aviation Ground Support Equipment				Project (Number/Name) EE5 / Aviation Ground Support Equipment			
COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
EE5: Aviation Ground Support Equipment	-	1.596	1.413	1.201	-	1.201	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Aviation Ground Support Equipment (AGSE) Product Directorate conducts developmental testing and the acquisition of prototypes to enhance the functionality of current and future aircraft maintenance equipment. This will be accomplished by identifying more effective aircraft maintenance equipment, validating new maintenance concepts, improving machine interfaces, updating aircraft maintenance processes, and developing improved diagnostic technologies which will reduce Operation and Support costs. This program provides for the development of rapid battle repair procedures, tools, ground handling, and test equipment to speed the return of aircraft to a fully mission capable status. Included in this program are: Aviation Ground Power Unit Next Generation (AGPU Nex Gen), Self-propelled Crane Aircraft Maintenance and Positioning Increment II (SCAMP II), (Expeditionary Variant), Aircraft Cleaning and Deicing System (ACDS), Turbine Engine Wash System (TEWS) and development of support equipment required for maintenance of modernized/future force aircraft.

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

	FY 2020	FY 2021	FY 2022
Title: Self Aircraft Maintenance and Positioning (SCAMP)	0.187	-	-
Description: SCAMP is a critical forward maintenance enabler providing capability to remove and replace major aircraft components in support of Army Aviation maintenance in austere locations.			
Title: Aviation Ground Power Unit Next Generation (AGPU 1.1)	1.409	1.413	1.201
Description: The AGPU 1.1 provides external hydraulic, pneumatic, and AC/DC electrical power to meet enduring and future Army aircraft servicing requirements.			
FY 2021 Plans: Procure test articles and provide technical support for Risk Reduction Testing.			
FY 2022 Plans: Conduct performance verification testing and environmental testing of the AGPU 1.1 Next Gen candidates.			
FY 2021 to FY 2022 Increase/Decrease Statement: Decrease in funding will delay the APGU 1.1 Tech Manual development, prolonging the attainment of Material Release and fielding to the Soldier.			
Accomplishments/Planned Programs Subtotals	1.596	1.413	1.201

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

<u>Line Item</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u> <u>Base</u>	<u>FY 2022</u> <u>OCO</u>	<u>FY 2022</u> <u>Total</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• AZ3520: AVIATION GROUND SUPPORT EQUIPMENT	18.624	17.584	13.561	-	13.561	-	-	-	-	-	-

Remarks

D. Acquisition Strategy

This project is an aggregate of Aviation Ground Support Equipment related projects. While the detailed acquisition strategy varies from program to program, the general strategy for each individual program is to complete the development effort through Government test (developmental and operational). Program documentation for each milestone decision is prepared, as appropriate, concurrently with the development effort.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Army												Date: May 2021			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
2040 / 5				PE 0605830A / Aviation Ground Support Equipment				EE5 / Aviation Ground Support Equipment							
Product Development (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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
SCAMP II, Expeditionary Variant	Various	AMCOM, RSA; CCDC, RSA : Redstone Arsenal, AL	2.366	0.187	Sep 2020	-		-		-		-	0.000	2.553	-
AGPU Next Gen.	PO	RTC : Redstone Arsenal, AL	4.326	1.409	Aug 2020	1.413	Apr 2021	1.201	Jun 2022	-		1.201	Continuing	Continuing	Continuing
Subtotal			6.692	1.596		1.413		1.201		-		1.201	Continuing	Continuing	N/A
Project Cost Totals			6.692	1.596		1.413		1.201		-		1.201	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2022 Army			Date: May 2021
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605830A / Aviation Ground Support Equipment	Project (Number/Name) EE5 / Aviation Ground Support Equipment	

Event Name	FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026			
	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
Aviation Ground Power Unit (AGPU 1.1)																												
AGPU Next Gen.																												
Aircraft Cleaning and Deicing System (ACDS)																												
ACDS																												
Self Crane Aircraft Maintenance and Positioning (SCAMP)																												
SCAMP																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2022 Army		Date: May 2021
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Aviation Ground Power Unit (AGPU 1.1)	4	2018	4	2023
Aircraft Cleaning and Deicing System (ACDS)	1	2024	4	2030
Self Crane Aircraft Maintenance and Positioning (SCAMP)	1	2020	4	2020