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<b>Exhibit R-2, RDT&amp;E Budget Item Justification: PB 2023 Army</b>											<b>Date: April 2022</b>	
<b>Appropriation/Budget Activity</b> 2040: Research, Development, Test & Evaluation, Army / BA 7: Operational Systems Development					<b>R-1 Program Element (Number/Name)</b> PE 0605024A / Anti-Tamper Technology Support							
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
Total Program Element	-	8.436	8.868	9.284	-	9.284	7.439	7.432	7.434	7.506	Continuing	Continuing
FB1: Anti-Tamper Technology Support	-	8.436	8.868	9.284	-	9.284	7.439	7.432	7.434	7.506	Continuing	Continuing

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

Anti-Tamper (AT) Technology Support. The Protective Technologies (PT) organization is the Army's Technical Center for the DoD AT program, which is focused on preventing exploitation reverse engineering (RE) of U.S. systems lost or captured on the battlefield or sold via Foreign Military Sales (FMS) or Direct Commercial Sales (DCS). In support of this mission, PT's classified efforts are focused on AT Validation and Verification (V&V) activities with Army programs, AT/RE Lab facilities and equipment and AT/RE Lab assessments.

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

	<b><u>FY 2021</u></b>	<b><u>FY 2022</u></b>	<b><u>FY 2023 Base</u></b>	<b><u>FY 2023 OCO</u></b>	<b><u>FY 2023 Total</u></b>
Previous President's Budget	8.436	8.868	0.000	-	0.000
Current President's Budget	8.436	8.868	9.284	-	9.284
Total Adjustments	0.000	0.000	9.284	-	9.284
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	9.284	-	9.284

**Change Summary Explanation**

FY 2023 funding increase reflects the fact that the FY 2022 President's Budget request did not include out-year funding.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 Army										<b>Date:</b> April 2022		
<b>Appropriation/Budget Activity</b> 2040 / 7					<b>R-1 Program Element (Number/Name)</b> PE 0605024A / <i>Anti-Tamper Technology Support</i>				<b>Project (Number/Name)</b> FB1 / <i>Anti-Tamper Technology Support</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
FB1: <i>Anti-Tamper Technology Support</i>	-	8.436	8.868	9.284	-	9.284	7.439	7.432	7.434	7.506	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

Anti-Tamper (AT) Technology Support. The Protective Technologies (PT) organization is the Army's Technical Center for the DoD AT program, which is focused on preventing exploitation/reverse engineering (RE) of U.S. systems lost or captured on the battlefield or sold via Foreign Military Sales (FMS) or Direct Commercial Sales (DCS). In support of this mission, PT's classified efforts are focused on AT Validation and Verification (V&V) activities with Army programs, AT/RE Lab facilities and equipment and AT/RE Lab assessments

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

	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>
<b>Title:</b> Anti-Tamper (AT) Technology Support	8.436	8.544	9.284
<b>Description:</b> AT is a DoD program that encompasses the systems engineering activities intended to prevent and/or delay exploitation of critical technologies in U.S. weapon systems. These activities involve the entire life-cycle of systems acquisition, including research, development, implementation, and testing of AT measures.			
<b>FY 2022 Plans:</b> Will continue to build and maintain the PT core team of SMEs available for this ongoing Army-level mission to support the development of new and upgraded Army programs and evaluating their AT architectures. In support of that primary mission, PT must and will continue to build and maintain state-of-the-art RE capabilities to facilitate technical assessments to evaluate the vulnerabilities of micro-electronic components used in the electronic designs of Army weapons systems with CPI that requires protection.			
<b>FY 2023 Plans:</b> Will continue to build and maintain the PT core team of SMEs available for this ongoing Army-level mission to support the development and fielding of new and upgraded Army programs through the technical evaluation of their AT architectures. In support of that primary mission, PT must and will continue to build and maintain state-of-the-art RE capabilities to facilitate technical assessments to evaluate the vulnerabilities of micro-electronic components used in the electronic designs of Army weapons systems with CPI that requires protection.			
<b>FY 2022 to FY 2023 Increase/Decrease Statement:</b> Funding changes reflects planned lifecycle of this effort			
<b>Title:</b> FY22 SBIR/STTR Transfer	-	0.324	-

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 Army		<b>Date:</b> April 2022		
<b>Appropriation/Budget Activity</b> 2040 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0605024A / <i>Anti-Tamper Technology Support</i>	<b>Project (Number/Name)</b> FB1 / <i>Anti-Tamper Technology Support</i>		
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>
<b>Description:</b> Funding transferred in accordance with Title 15 USC ?638				
<b>FY 2022 Plans:</b> Funding transferred in accordance with Title 15 USC ?638				
<b>FY 2022 to FY 2023 Increase/Decrease Statement:</b> Funding transferred in accordance with Title 15 USC ?638				
<b>Accomplishments/Planned Programs Subtotals</b>		8.436	8.868	9.284
<b>C. Other Program Funding Summary (\$ in Millions)</b>				
N/A				
<b>Remarks</b>				
N/A				
<b>D. Acquisition Strategy</b>				
N/A				

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Army** **Date:** April 2022

<b>Appropriation/Budget Activity</b> 2040 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0605024A / Anti-Tamper Technology Support	<b>Project (Number/Name)</b> FB1 / Anti-Tamper Technology Support
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<b>Management Services (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
AT CA - Accelerate new Novel Tech Solutions	TBD	AMRDEC ; , Redstone Arsenal AL	3.000	-		-		-		-		-	0.000	3.000	-
FY 2018 NDAA SEC 825 MDAP Cost Overrun	TBD	N/A : N/A	0.001	-		-		-		-		-	0.000	0.001	-
FY22 SBIR/STTR Transfer	TBD	Various : Various	-	-		0.324	Mar 2022	-		-		-	0.000	0.324	-
<b>Subtotal</b>			3.001	-		0.324		-		-		-	0.000	3.325	N/A

<b>Product Development (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
AT V&V Activities	Various	Redstone Arsenal & Prime Contract locations : Redstone Arsenal	4.763	3.245	Oct 2020	3.233	Oct 2021	3.390	Oct 2022	-		3.390	0.000	14.631	-
<b>Subtotal</b>			4.763	3.245		3.233		3.390		-		3.390	0.000	14.631	N/A

<b>Support (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
AT/RE Lab Facilities & Equipment	Various	Redstone Arsenal, AL : Redstone Arsenal, AL	4.955	3.231	Oct 2020	3.359	Oct 2021	3.522	Oct 2022	-		3.522	0.000	15.067	-
<b>Subtotal</b>			4.955	3.231		3.359		3.522		-		3.522	0.000	15.067	N/A



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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2023 Army</b>		<b>Date: April 2022</b>
<b>Appropriation/Budget Activity</b> 2040 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0605024A / <i>Anti-Tamper Technology Support</i>	<b>Project (Number/Name)</b> FB1 / <i>Anti-Tamper Technology Support</i>

Event Name	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027			
	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
AT V&V Activities	[Redacted]																											
AT/RE Lab Facilities and Equipment	[Redacted]																											
AT/RE Laboratory Assessments	[Redacted]																											
	[Redacted]																											

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 2040 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0605024A / <i>Anti-Tamper Technology Support</i>	<b>Project (Number/Name)</b> FB1 / <i>Anti-Tamper Technology Support</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
AT V&V Activities	1	2017	4	2027
AT/RE Lab Facilities and Equipment	1	2017	4	2027
AT/RE Laboratory Assessments	1	2017	4	2027
AT Congressional Add - New Novel Tech Solutions	2	2019	4	2019