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

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0607148A / <i>AN/TPQ-53 Counterfire Target Acquisition Radar 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	-	59.312	54.167	53.652	-	53.652	29.514	66.499	84.960	64.181	Continuing	Continuing
BY8: <i>AN/TPQ-53 Counterfire Target Acquisition Radar Sys</i>	-	59.312	54.167	53.652	-	53.652	29.514	66.499	84.960	64.181	Continuing	Continuing

A. Mission Description and Budget Item Justification

This funding line is a key enabler of the Army Long Range Precision Fires (LRPF) Modernization Priority in support of the AN/TPQ-53 Counterfire target Acquisition Radar program. The AN/TPQ-53 Counterfire Target Acquisition Radar System is a highly mobile radar set that automatically detects, classifies, tracks, and locates the point of origin of projectiles fired from mortar, artillery, and rocket systems. It mitigates close combat radar coverage gaps by providing a 90 degree search sector (stare mode) as well as 360 degree coverage (rotating). The AN/TPQ-53 system interoperates with mission command systems to provide the maneuver commander increased counterfire radar flexibility. It provides data to the Forward Area Air Defense Command and Control (FAAD C2) node for the sense and warn force protection capability. The AN/TPQ-53 currently supports contingency operations to include Operation Inherent Resolve (OIR) and is provided to Brigade Combat Teams (BCTs), Field Artillery Brigades (FABs) and Division Artilleries (DIVARTYs).

Fiscal Year (FY) 2025 research, development, test and evaluation (RDT&E) funds in the amount of \$53.652 million supports the completion of software development, integration, and test for Distributed Digital Receiver Exciter (DDREX) Capability Sets #1 and #2 to enhance system survivability, electronic protection (EP), bandwidth agility, and an integrated fires capability in a peer/near-peer threat environment. FY 2025 funds also continues DDREX Capability Sets #3 and #4 to counter indirect fire with improved hostile weapon location accuracy and survivability against the latest electronic warfare threats identified in the Validated Online Lifecycle Threat (VOLT) Counterfire Radar Systems (CFRS) report dated 15 February 2022.

B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	61.559	54.167	33.213	-	33.213
Current President's Budget	59.312	54.167	53.652	-	53.652
Total Adjustments	-2.247	0.000	20.439	-	20.439
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-2.247	-			
• Adjustments to Budget Years	-	-	20.439	-	20.439

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Appropriation/Budget Activity
2040: *Research, Development, Test & Evaluation, Army / BA 7: Operational Systems Development*

R-1 Program Element (Number/Name)
PE 0607148A / *AN/TPQ-53 Counterfire Target Acquisition Radar System*

Change Summary Explanation

The FY 2025 increase of \$20.439 million RDT&E continues DDREX Capability Sets #3 and #4 design and development, enabling survivability improvements, hostile weapon location accuracy, and advanced electronic protection features to address urgent emerging threats identified in the Validated Online Lifecycle Threat (VOLT) Counterfire Radar Systems (CFRS).

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Appropriation/Budget Activity 2040 / 7					R-1 Program Element (Number/Name) PE 0607148A / AN/TPQ-53 Counterfire Target Acquisition Radar System				Project (Number/Name) BY8 / AN/TPQ-53 Counterfire Target Acquisition Radar Sys			
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
BY8: AN/TPQ-53 Counterfire Target Acquisition Radar Sys	-	59.312	54.167	53.652	-	53.652	29.514	66.499	84.960	64.181	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This funding line is a key enabler of the Army Long Range Precision Fires (LRPF) Modernization Priority in support of the AN/TPQ-53 Counterfire target Acquisition Radar program. The AN/TPQ-53 Counterfire Target Acquisition Radar System is a highly mobile radar set that automatically detects, classifies, tracks, and locates the point of origin of projectiles fired from mortar, artillery, and rocket systems. It mitigates close combat radar coverage gaps by providing a 90 degree search sector (stare mode) as well as 360 degree coverage (rotating). The AN/TPQ-53 system interoperates with mission command systems to provide the maneuver commander increased counterfire radar flexibility. It provides data to the Forward Area Air Defense Command and Control (FAAD C2) node for the sense and warn force protection capability. The AN/TPQ-53 currently supports contingency operations to include Operation Inherent Resolve (OIR) and is provided to Brigade Combat Teams (BCTs), Field Artillery Brigades (FABs) and Division Artilleries (DIVARTYs).

Fiscal Year (FY) 2025 research, development, test and evaluation (RDT&E) funds in the amount of \$53.652 million supports the completion of software development, integration, and test for Distributed Digital Receiver Exciter (DDREX) Capability Sets #1 and #2 to enhance system survivability, electronic protection (EP), bandwidth agility, and an integrated fires capability in a peer/near-peer threat environment. FY 2025 funds also continues DDREX Capability Sets #3 and #4 to counter indirect fire with improved hostile weapon location accuracy and survivability against the latest electronic warfare threats identified in the Validated Online Lifecycle Threat (VOLT) Counterfire Radar Systems (CFRS) report dated 15 February 2022.

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

	FY 2023	FY 2024	FY 2025
Title: Multi-Domain Operation (MDO) Digitization / Distributed Digital Receiver Exciter (DDREX)	48.003	47.057	11.576
Description: MDO Digitization / Distributed Digital Receiver Exciter (DDREX) is a modification-in-service Engineering Change Proposal (ECP) that provides increased force protection by addressing emerging and evolving electronic attack threats, improving electronic protection capabilities against Cyber Electromagnetic Activity (CEMA), and improving performance in a congested spectrum/environment via waveform diversity, spectrum agility and broadening the operational bandwidth. The system is also less susceptible to directed energy, jamming, and provides improved extended range capability to enable timely and accurate targetable data in support of Long Range Precision Fires (LRPF).			
FY 2024 Plans:			
FY 2024 research, development, test and evaluation (RDT&E) funds in the amount of \$47.057 million supports the continuation of DDREX modification kit design and the integration, and testing of four DDREX Engineering Development Models (EDMs) in support of Capability Set #1 and Capability Set #2. These Capability Sets, which include development of DDREX hardware and			

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Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0607148A / AN/TPQ-53 Counterfire Target Acquisition Radar System	Project (Number/Name) BY8 / AN/TPQ-53 Counterfire Target Acquisition Radar Sys		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>software to enable advanced survivability capability, will increase Counterfire Target Acquisition (CTA) performance and radar survivability.</p> <p>FY 2025 Plans: FY 2025 research, development, test and evaluation (RDT&E) funds in the amount of \$11.576 million supports the continuation of DDREX modification kit design and the software integration and testing of four DDREX Engineering Development Models (EDMs) in support of Capability Set #1 and Capability Set #2. These Capability Sets, which include development of DDREX hardware and software to enable advanced survivability capability, will increase Counterfire Target Acquisition (CTA) performance and radar survivability.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: FY 2024 efforts center around EDM hardware build, software development, integration, and test. FY 2025 efforts focus on environmental qualification testing, software builds, Developmental Test (DT), and User Test. The net reduction in costs from FY 2024 to FY 2025 is a result of decreased material procurement costs and hardware development.</p>				
<p>Title: DDREX Capability Sets #3 and #4</p> <p>Description: Capability Set #3 will merge with Capability Set #2 software to enables survivability improvements and additional electronic protection features. The capability integrates electronic protection software techniques for the AN/TPQ-53 to be survivable in a contested and complex Cyber Electromagnetic Activity (CEMA) environment against a peer/near-peer threat. It includes long-range communications and sensor fusion that allows multiple sensors to exchange data with other sensors. Capability Set #4 will merge with Capability Set #3 software. The capability includes counter electronic warfare, radar aided navigation, radar survivability techniques, and terminal guidance to support Long Range Precision Fires (LPRF).</p> <p>FY 2025 Plans: FY 2025 research, development, test and evaluation (RDT&E) funds in the amount of \$17.671 million supports the start of the survivability improvement effort for the design and development of DDREX Capability Sets #3 and #4. This will require the development and integration of an additional high performance data processing board to the DDREX's processor assembly.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: The net increase in costs from FY 2024 to FY 2025 represents the initiation of the systems and software engineering effort to enable survivability improvements and advanced electronic protection features in FY 2025.</p>		-	-	17.671
<p>Title: Modernization Development Efforts and Emerging Threats</p> <p>Description: Modernization Development Efforts and Emerging Threats provides the ability to address upcoming threats on the battlefield by countering indirect fire and improving survivability against electronic warfare threats identified in the Validated</p>		8.288	4.272	8.094

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>Online Lifecycle Threat (VOLT). These efforts will continue to address complex evolving threats through advanced survivability development.</p> <p>FY 2024 Plans: FY 2024 research, development, test and evaluation (RDT&E) funds in the amount of \$4.272 million continues to support the Modernization Development Efforts and Emerging Threats. This requirement will continue to allow the ability to address evolving threats on the battlefield that are in the VOLT. This requirement is necessary to allow continued survivability capability.</p> <p>FY 2025 Plans: FY 2025 research, development, test and evaluation (RDT&E) funds in the amount of \$8.094 million continues to support the Modernization Development Efforts and Emerging Threats. This requirement will continue to allow the ability to address evolving threats on the battlefield that are in the VOLT CFRS, 15 February 2022. This requirement is necessary to allow continued survivability improvements.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: FY 2024 efforts center around software engineering development. The net increase in costs from FY 2024 to FY 2025 is a result of continued engineering efforts, sub-system to system level functional testing prior to executing the live fire performance test and evaluation event at the test range and post data analysis on the radar's performance during FY 2025.</p>				
<p>Title: Test & Evaluation Support</p> <p>Description: Test and Evaluation Support provides the planning, execution, and reporting for the AN/TPQ-53 MDE and DDREX Test Program.</p> <p>FY 2025 Plans: FY 2025 research, development, test and evaluation (RDT&E) funds in the amount of \$13.243 million to support a series of test & evaluation events for DDREX Capability Sets #1 and #2 that includes cybersecurity assessments, engineering live fire tests to evaluate radar performance, reliability, survivability, radar system acceptance tests, environmental qualification tests, transportability tests, interoperability tests, Developmental Tests (DTs), and User Test.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: The net increase in costs from FY 2024 to FY 2025 is a result of execution of the test program for DDREX Capability Sets #1 and #2 in FY 2025.</p>		-	-	13.243
<p>Title: Program Management Support</p> <p>Description: Program management efforts include engineering, integration, and test support associated with DDREX development and modernization efforts addressing new and emerging threats.</p>		3.021	2.838	3.068

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
FY 2024 Plans: FY 2024 funding of \$2.838 million supports program management requirements.			
FY 2025 Plans: FY 2025 funding of \$3.068 million supports program management requirements.			
FY 2024 to FY 2025 Increase/Decrease Statement: The net increase in costs from FY 2024 to FY 2025 is a result of increased support for the execution of Developmental Test (DT) and User Test.			
Accomplishments/Planned Programs Subtotals	59.312	54.167	53.652

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2023	FY 2024	FY 2025	FY 2025	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
			Base	OCO	Total						
• B05310: AN/TPQ-53 Counterfire Target Acquisition Radar	338.387	-	0.000	-	0.000	-	1.889	1.827	1.846	0.000	343.949
• BA5315: AN/TPQ-53 MOD-IN-SERVICE LINE	70.975	99.782	21.250	-	21.250	19.360	343.413	356.035	435.488	Continuing	Continuing

Remarks

D. Acquisition Strategy
The AN/TPQ-53 Distributed Digital Receiver Exciter (DDREX) Capability Sets #1 and #2 development began in FY 2022. This effort builds upon GaN, SDP 2.0, extended range (ER), electronic protection (EP), and secure contractor facilitization efforts. The initial development task order took place on the FRP Indefinite Delivery Indefinite Quantity (IDIQ) contract in FY 2022 and includes engineering development, design, prototyping, subsystem integration, and survivability software (electronic protect). A second task order will award in FY 2023 to develop and harden the survivability software. All development efforts will culminate in a series of tests leading to an Operational Test in the 2Q FY 2026. The program will utilize RDT&E funds in FY 2025 to award a new task order in order to support the start of the survivability improvement effort for the design and development of DDREX Capability Sets #3 and #4. DDREX hardware and initial survivability capability will undergo Operational Testing in 2Q FY 2026 to support a procurement decision. Full material release is planned for FY 2027. Procurement funds in FY 2027 will support DDREX mod kit buys, technical manual and training material updates, as well as the preparation of organic depot and supply transition of the DDREX configuration. Organic depot establishment and supply transition will take place in FY 2029. DDREX retrofitted systems will be fielded beginning in 4QFY 2029.

In April 2022, Army approved an Acquisition Objective (AAO) increase of 16 systems from 189 to 205 systems due to the establishment of eight new Army National Guard Division Artilleries (ARNG DIVARTYs). In April 2023, the Army approved an AAO increase of 12 systems from 205 to 217 due to an increase in requirements to replace eight repair cycle floats (RCF) supporting joint urgent operational need (JUON) CC-0558, one additional RCF requirement for an increase in fleet size, and

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<p>three additional systems to support the United States Army Training and Doctrine Command (TRADOC) requirements. In conjunction with Ukraine Assistance funds, the program awarded an FRP Lot 4 production contract in FY 2023 for a total of 28 systems. The last FRP Lot 4 system will deliver in FY 2026.</p> <p>The AN/TPQ-53 program is a component of an integrated fires development effort that includes survivability, resiliency, and effectiveness improvements against advanced threats from near-peer adversaries. This effort includes integration with an evolving common fires mission command, common development tools and processes, and annual test and evaluation to provide data to support program assessments and progress toward closure of performance gaps.</p>		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army												Date: March 2024			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
2040 / 7				PE 0607148A / AN/TPQ-53 Counterfire Target Acquisition Radar System				BY8 / AN/TPQ-53 Counterfire Target Acquisition Radar Sys							
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
Modernization Development Efforts and Emerging Threats	SS/CPFF	Lockheed Martin : Syracuse, NY	8.453	8.288	Dec 2022	4.272	Dec 2023	8.094	Dec 2024	-		8.094	0.000	29.107	Continuing
MDO Digitization / Distributed Digital Receiver Exciter (DDREX)	SS/CPFF	Lockheed Martin : Syracuse, NY	35.760	48.003	Dec 2022	47.057	Dec 2023	11.576	Dec 2024	-		11.576	0.000	142.396	Continuing
DDREX Capability Sets #3 and #4	SS/CPFF	Lockheed Martin : Syracuse, NY	-	-		-		17.671	Dec 2024	-		17.671	0.000	17.671	Continuing
Subtotal			44.213	56.291		51.329		37.341		-		37.341	0.000	189.174	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 Management Support - Contractor	SS/Various	Various : Various	0.880	1.360	Nov 2022	1.277	Nov 2023	1.382	Nov 2024	-		1.382	0.000	4.899	Continuing
Program Management Support - Government	SS/Various	Various : Various	0.916	1.661	Nov 2022	1.561	Nov 2023	1.686	Nov 2024	-		1.686	0.000	5.824	Continuing
Subtotal			1.796	3.021		2.838		3.068		-		3.068	0.000	10.723	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 & Evaluation Support	SS/CPFF	Lockheed Martin : Syracuse, NY	-	-		-		13.243	Dec 2024	-		13.243	0.000	13.243	Continuing
Subtotal			-	-		-		13.243		-		13.243	0.000	13.243	N/A
Project Cost Totals			46.009	59.312		54.167		53.652		-		53.652	0.000	213.140	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army							Date: March 2024			
Appropriation/Budget Activity 2040 / 7			R-1 Program Element (Number/Name) PE 0607148A / AN/TPQ-53 Counterfire Target Acquisition Radar System			Project (Number/Name) BY8 / AN/TPQ-53 Counterfire Target Acquisition Radar Sys				
	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract	

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0607148A / AN/TPQ-53 Counterfire Target Acquisition Radar System	Project (Number/Name) BY8 / AN/TPQ-53 Counterfire Target Acquisition Radar Sys	

Event Name	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					
DDREX Capability Sets #1 and #2 Development	█																																
DDREX Capability Sets #1 and #2 Integration and Testing					█																												
DDREX System Critical Design Review	▲1																																
Developmental Test #1											▲5																						
Developmental Test #2												▲6																					
Soldier Touch Point #1 (CDR)	▲2																																
Soldier Touch Point #2 (EDM)								▲3																									
Soldier Touch Point #3 (Live Fire)											▲4																						
Soldier Touch Point #4 (Cooperative Vulnerability Penetr...												▲7																					
SoldierTouch Point #5 (Tech Manual Verification)												▲8																					
DDREX Operational Test															█																		
DDREX Adversarial Assessment															█																		
DDREX Transition to Organic Supply																	█																

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0607148A / AN/TPQ-53 Counterfire Target Acquisition Radar System	Project (Number/Name) BY8 / AN/TPQ-53 Counterfire Target Acquisition Radar Sys

Event Name	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
DDREX Material Release																	9 ▲											
DDREX Transition to Organic Depot Repair									10 ▲																			
Modernization, Emerging Threats and Testing (per VOLT)																												
DDREX Capability Sets #3 and #4 Development																												
DDREX Capability Sets #3 and #4 Integration and Testing																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0607148A / AN/TPQ-53 Counterfire Target Acquisition Radar System	Project (Number/Name) BY8 / AN/TPQ-53 Counterfire Target Acquisition Radar Sys

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
DDREX Capability Sets #1 and #2 Development	1	2022	3	2025
DDREX Capability Sets #1 and #2 Integration and Testing	1	2024	4	2025
DDREX System Critical Design Review	1	2023	1	2023
Developmental Test #1	2	2025	2	2025
Developmental Test #2	3	2025	3	2025
Soldier Touch Point #1 (CDR)	1	2023	1	2023
Soldier Touch Point #2 (EDM)	4	2024	4	2024
Soldier Touch Point #3 (Live Fire)	1	2025	1	2025
Soldier Touch Point #4 (Cooperative Vulnerability Penetration Assessment)	4	2025	4	2025
SoldierTouch Point #5 (Tech Manual Verification)	4	2025	4	2025
DDREX Operational Test	2	2026	2	2026
DDREX Adversarial Assessment	3	2026	3	2026
DDREX Transition to Organic Supply	1	2027	4	2029
DDREX Material Release	1	2027	1	2027
DDREX Transition to Organic Depot Repair	2	2029	2	2029
Modernization, Emerging Threats and Testing (per VOLT)	1	2022	4	2029
DDREX Capability Sets #3 and #4 Development	1	2025	4	2029
DDREX Capability Sets #3 and #4 Integration and Testing	3	2028	4	2030