Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army	Date: March 2024
Appropriation/Budget Activity 2040: *Research, Development, Test & Evaluation, Army I* BA 5: *System Development & Demonstration (SDD)*	**R-1 Program Element (Number/Name)** PE 0604746A *I Automatic Test Equipment Development*

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	-	4.989	13.626	12.927	-	12.927	4.555	4.603	4.653	4.699	Continuing	Continuing
L59: *Diagnost/Expert Sys*	-	1.108	6.859	6.036	-	6.036	1.200	1.213	1.226	1.238	0.000	18.880
L65: *Test Equipment Development*	-	3.881	6.767	6.891	-	6.891	3.355	3.390	3.427	3.461	Continuing	Continuing

A. Mission Description and Budget Item Justification

This program element (PE) provides for development and testing of automatic test equipment, precision calibration instruments, general-purpose test equipment, state of-the-art diagnostics and prognostics technologies, and software and systems to support the increasingly complex electronic components of the Army's new and upgraded weapon systems focused on joint operations in a sophisticated multi-domain area of operation. It focuses on standardization and implementation of commercial test and diagnostic technologies across multiple weapon platforms to minimize the cost of troubleshooting and maintenance of Army equipment in the field. Funding supports modernization of the test equipment fleets by investigating technology insertions including, but not limited to, predictive and prognostic maintenance, Electronic Intermittent Fault Detection, instrument reduction/miniaturization, electro-mechanical, electro-optics (EO), radio frequency (RF), physical, radiological, chemical, and biological warfare sensor calibration support capabilities, and other emerging technologies. Funding also supports development of initial prototypes to enable refinement of Operational Requirements documented by Combatant Commands (COCOM), Program Executive Offices (PEO), Army Futures Command (AFC), Army Staff, US Army Training and Doctrine Command (TRADOC), and early user feedback to support future sustainment and testing capabilities required for emerging weapons platforms. This PE provides for continued development and improvement of general-purpose test equipment and calibration standards with emphasis on the incorporation of digital electronics and tailoring of configurations to improve deployability, mobility and survivability of the support equipment. It includes development, demonstration and testing of calibration standards and techniques to support new Army test equipment requirements; and, it provides for feasibility studies, market research, inventory analyses, bid sample testing and prototyping to support acquisition of calibration systems and general-purpose test and diagnostics equipment.

The Department of Defense (DoD) has designated the Integrated Family of Test Equipment (IFTE), comprised of the Maintenance Support Device (MSD) and the Next Generation Automatic Test System (NGATS), as the authorized Army standard for field and sustainment maintenance. The MSD provides at-system automatic test and diagnostic support and the NGATS consolidates off-system automatic test and diagnostic equipment requirements. The IFTE systems being developed under this PE provide electronic fault isolation, diagnostic and repair capabilities at all levels of maintenance and do it more cost effectively than system-specific testers. They provide state-of-the-art test and diagnostic capabilities, reducing costs and logistics footprints while providing the Warfighter fix-forward capability for current and future weapon systems in multi-domain operations. The systems are designed to support the Cross-Functional Teams (CFT) in the Army Futures Command (AFC) as they mature in accordance with the DoD Automatic Test Systems strategy. The MSD is employed by more than thirty military occupational specialties to perform field level maintenance on approximately 50 weapon systems, including Abrams, Bradley, Stryker, aviation platforms, missile systems, and the Army's wheeled vehicle fleet.

FY 2025 base funding continues incremental development of the Army's standard At-Platform Automatic Test System, MSD, which will enhance testing and diagnostic capability required by supported weapon systems. Funding supports tactical vehicle sustainment concepts, evaluates evolving weapon system diagnostic testing requirements, incorporates additional organic diagnostic software capabilities to troubleshoot weapon systems, and ensures data bus compatibility and readability

with commercial technology. It evaluates and incorporates cyber security enhancements into at-platform diagnostic hardware and software. Funding also provides for market research, feasibility assessment, and interaction with supported weapon systems to determine most effective methodology for diagnostic software to incorporate emerging At-Platform Predictive Logistics requirements. The FY 2025 funding will develop or significantly modify test equipment to satisfy modular force and homeland security support requirements that cannot be accommodated with test equipment currently available in the commercial marketplace such as RF and EO testing capability. It will also develop and test general-purpose test equipment and calibration standards to meet Army weapon system support requirements, and initiate development of enhanced diagnostic software and interfaces to support emerging maintenance concepts for Long Range Precision Fires, Next Generation Combat Vehicle, Future Vertical Lift, and Air and Missile Defense. The funding will provide prototype test and evaluation of field level calibration and repair support for the Radiation Detection System (RDS) in response to Operational Needs Statement ONS 17-22580. The project resolves significant radiation measurement accuracy gaps throughout the Department of the Army operational areas and CONUS, and it provides for analysis of courses of action to incorporate additional intrinsic calibration instruments and general-purpose test equipment to reduce the maintenance hierarchy, increase calibration intervals, extend lifecycle reliability, and increase supportability across generational changes in weapon systems and weapon support systems technology.

B. Program Change Summary ($ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	5.178	13.626	8.226	-	8.226
Current President's Budget	4.989	13.626	12.927	-	12.927
Total Adjustments	-0.189	0.000	4.701	-	4.701
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.189	-			
• Adjustments to Budget Years	-	-	4.701	-	4.701

Change Summary Explanation

Increase to allow for critical NGATS software, hardware, and system performance updates to support Army 2030.

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604746A / *Automatic Test Equipment Development*	Project (Number/Name) L59 / *Diagnost/Expert 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
L59: *Diagnost/Expert Sys*	-	1.108	6.859	6.036	-	6.036	1.200	1.213	1.226	1.238	0.000	18.880
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This Project funds development of system enhancements for the Maintenance Support Device (MSD). The MSD is a general-purpose automatic test system (ATS) that provides test and diagnostic capabilities required to support current and future weapons and combat support systems across the Cross-Functional Teams (CFTs) in the Army Futures Command (AFC) and will facilitate retirement of aging, obsolete and non-cyber secure test equipment that imposes increasing logistics and operations and support cost burdens. The MSD is the Army's standard at-system tester and requires continuing technology insertions to support modernization of the supported weapon systems. This Project funds development efforts to insert the most current relevant technology into the next generation MSD, supports capability enhancement of at-platform test adapters, develops and standardizes capabilities to minimize or eliminate Army dependence on expensive proprietary software to support tactical vehicles, and maintains compatibility with emerging platform hardware bus technology and software interface requirements. The Department of Defense has identified the need for Intermittent Fault Detection (IFD) testers to aid in the identification of intermittent faults in difficult to troubleshoot platforms, mitigate No Evidence of Failures (NEOF) to reduce unit costs of unnecessary line replaceable unit (LRU) requisitions, and improve unit operational readiness in support of multi-domain operations, large-scale combat operations and the Indo-Pacific Command which will be funded in part by this Project. The test and diagnostic systems and procedures developed under this Project are essential for ensuring the operational readiness, accuracy and effectiveness of the Army's warfighting systems.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Maintenance Support Device (MSD) Technology Enhancements	1.108	1.179	1.176
Description: Modernizes the current MSD fleet by investigating and incorporating relevant technology into the next-generation MSD and supporting capability enhancement of the Wireless At-platform Test Set (WATS). Develops diagnostic capabilities to minimize or eliminate Army dependency on proprietary software to support tactical vehicles and maintain compatibility with emerging platform hardware bus technology and software interface requirements. Provides a data processing capability to enable Predictive Logistics on weapon systems.			
FY 2024 Plans: Evaluate market research findings for the Next Generation At-Platform Test System (Maintenance Support Device). Continue to incorporate greater range of supported weapons system diagnostic code fault detection into diagnostic software to minimize dependency on proprietary software, support tactical vehicle maintenance concepts, evaluate evolving weapon system diagnostic testing concepts and ensure data bus compatibility and readability. Continue to evaluate and incorporate cyber security enhancements into diagnostic software. Continue market research, feasibility assessment, and interaction with supported			

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604746A / *Automatic Test Equipment Development*	**Project (Number/Name)** L59 / *Diagnost/Expert Sys*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
weapon systems to determine most effective methodology for diagnostic software, data collection, and data display to incorporate emerging Predictive Logistics requirements. ***FY 2025 Plans:*** Conduct early assessment of Next Generation At-Platform Test System (Maintenance Support Device) requirements and continue market research. Continue to incorporate greater range of supported weapons system diagnostic code fault detection into diagnostic software to minimize dependency on proprietary software, support tactical vehicle sustainment concepts, evaluate evolving weapon system diagnostic testing concepts and ensure data bus compatibility and readability. Continue to evaluate and incorporate cyber security enhancements into diagnostic software. Continue market research, feasibility assessment, and interaction with supported weapon systems to determine most effective methodology for Diagnostic Software and a Data Source Collector prototype to incorporate emerging At Platform Predictive Logistics requirements. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Decrease reflects planned lifecycle of the effort.			
Title: Intermittent Electronic Fault Detection ***Description:*** Test and integration of commercial off the shelf (COTS) (or modified COTS) Intermittent Fault Detection (IFD) solutions and prototypes for evaluation. IFD Test Program Set (TPS) development to adapt and work with various Army platforms. ***FY 2024 Plans:*** Test and integrate COTS (or modified COTS) IFD solutions and prototypes for evaluation and develop IFD TPSs to adapt and work with various Army platforms. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Decrease due to this project being a Rapid Sustainment Improvement Process, it is intended to be a rapid acquisition of commercial of the shelf (COTS) or modified COTS items. The prototyping, testing, and selection of this developmental item will be completed in FY24.	-	5.680	-
Title: NGATS Software Performance Enhancements ***FY 2025 Plans:*** Develop and test modernization of A/B runtime system to allow for increased TPS functionality and performance for the User ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Increase to allow for critical system enhancements required to support Army 2030.	-	-	1.000
Title: NGATS Interconnect Hardware Performance Enhancements	-	-	1.930

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604746A / *Automatic Test Equipment Development*	**Project (Number/Name)** L59 / *Diagnost/Expert Sys*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
FY 2025 Plans: Develop and test CCA-based ruggedized A/B and Avenger ICD replacements ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Increase to allow for critical system enhancements required to support Army 2030.			
Title: NGATS System Enhancements ***FY 2025 Plans:*** Develop and test replacement of Matrix Switch, single video solution, and cable ruggedization. System software/OS testing. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Increase to allow for critical system enhancements required to support Army 2030.	-	-	1.930
Accomplishments/Planned Programs Subtotals	1.108	6.859	6.036

C. Other Program Funding Summary ($ in Millions)

Line Item	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
• MB4000: *Integrated Family Of Test Equipment (IFTE)*	76.834	36.149	48.329	-	48.329	12.027	12.035	12.019	12.139	0.000	209.532

Remarks

D. Acquisition Strategy

This developmental Project consists of organic and contractual actions. When the necessary expertise and capability are available within the Department of Defense, services required for the individual development projects are ordered from the government source via support agreements; otherwise, commercial contracts are used. Equipment required for developmental projects is obtained by contract from the commercial supplier.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604746A / *Automatic Test Equipment Development*	Project (Number/Name) L59 / *Diagnost/Expert Sys*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Software Development/ Verification/Validation	Various	Various, : Various	48.992	0.619	Jan 2023	3.355	Jan 2024	1.830	Jan 2025	-		1.830	0.000	54.796	-
Hardware/Support Items Development	Various	Various, : Various	79.383	0.324	Jan 2023	3.055	Jan 2024	3.500	Jan 2025	-		3.500	0.000	86.262	-
		Subtotal	128.375	0.943		6.410		5.330		-		5.330	0.000	141.058	N/A

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Technical Support	Various	Various, : Various	52.613	0.115	Dec 2022	0.350	Jan 2024	0.600	Jan 2025	-		0.600	0.000	53.678	-
Other Direct	Various	Various, : Various	6.428	0.050	Dec 2022	0.099	Jan 2024	0.106	Jan 2025	-		0.106	0.000	6.683	-
		Subtotal	59.041	0.165		0.449		0.706		-		0.706	0.000	60.361	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
Project Cost Totals	187.416	1.108		6.859		6.036		-		6.036	0.000	201.419	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604746A / *Automatic Test Equipment Development*	**Project (Number/Name)** L59 / *Diagnost/Expert Sys*

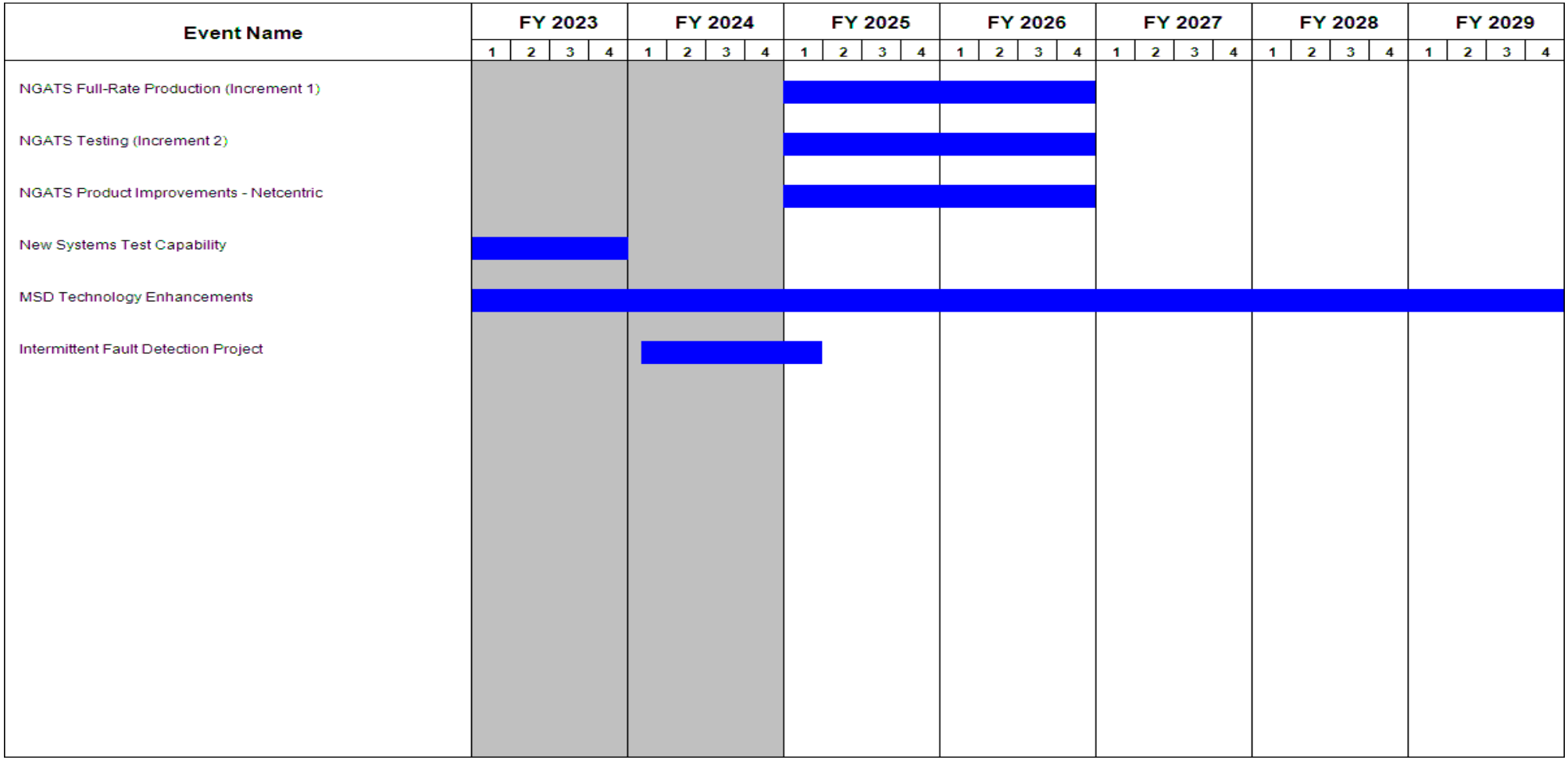

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604746A / *Automatic Test Equipment Development*	**Project (Number/Name)** L59 / *Diagnost/Expert Sys*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
NGATS Testing (Increment 1)	1	2011	1	2012
Production for First Article	1	2015	2	2017
Training Materiel Release	4	2019	4	2019
Full Materiel Release	1	2021	1	2021
First Unit Equipped	1	2021	1	2021
Full Rate Production Decision Review	3	2021	3	2021
NGATS Testing (Increment 1 Follow-On DT/OT)	1	2016	3	2016
NGATS Full-Rate Production (Increment 1)	1	2025	4	2026
NGATS System Development and Demonstration (SDD) (Increment 2)	1	2016	4	2020
NGATS Testing (Increment 2)	1	2025	4	2026
FOT&E Completed (DT)	3	2018	3	2018
NGATS Development (EO Subsystem)	4	2010	4	2015
NGATS Development (RF Subsystem)	1	2016	4	2021
NGATS EO Integration	3	2016	4	2021
NGATS RF Integration	3	2017	1	2022
NGATS Testing (EO & RF Subsystems)	1	2016	2	2022
NGATS Product Improvements - Netcentric	1	2025	4	2026
New Systems Test Capability	1	2016	4	2023
MSD Technology Enhancements	1	2016	4	2029
Intermittent Fault Detection Project	1	2024	1	2025

Note

Test program set (TPS) compatibility testing runs continually throughout the product development process.

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army											Date: March 2024	
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0604746A / *Automatic Test Equipment Development*				Project (Number/Name) L65 / *Test Equipment Development*			
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**
L65: *Test Equipment Development*	-	3.881	6.767	6.891	-	6.891	3.355	3.390	3.427	3.461	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This Project supports Program Executive Office (PEO) and Army Futures Command (AFC) system support requirements with modernization of calibration instruments, techniques, and existing Army calibration systems by investigating technology insertions including automated and autonomous operations and other emerging technologies. Funding also supports development of initial prototypes to enable refinement of Operational Requirements and early user feedback to support future calibration systems and general-purpose test, measurement, and diagnostic equipment (TMDE) acquisitions. This Project develops calibration software and calibration capability for electro-optical, chemical, biological agent, radiation sourcing and detection systems, signal measurement from direct current to microwave ranges, physical and mechanical measurements such as torque, pressure, and temperature, and improvements in test and measurement performance envelopes. It provides for product improvements and development/evaluation of advanced technologies to increase reliability of calibration systems and general-purpose TMDE. The product improvements eliminate gaps in existing organic capabilities and ensure operational readiness and safety of Army weapons and combat support systems. These improvements employ reconfigurable open-electronics architecture and computer-based instrumentation where feasible and focus on reduced test equipment footprints to improve deployability and mobility in complex multi-domain areas of operation.

B. Accomplishments/Planned Programs ($ in Millions)	**FY 2023**	**FY 2024**	**FY 2025**
Title: Calibration Sets (CALSETS) Software Environment and Calibration Procedures	0.600	0.367	0.785
Description: Continue development and testing of Army automated calibration environment (ACE) and develop calibration procedures. Develop and test an enterprise data system to capture management and test data for reporting, metrics, and dashboard to inform management and leader decisions in acquisition and operations. Test and evaluate automated calibration equipment software efforts in support of the Army risk management framework (RMF).			
FY 2024 Plans: Develop and test an enterprise data system that will integrate with ACE to capture management and test data for reporting metrics to inform management and leader decisions in acquisition and operations.			
FY 2025 Plans: Continue development of enterprise data system. Develop new ACE capabilities to include test data uploading, integrated training, and major procedure editor updates to improve user experience for automated calibration procedure authors.			
FY 2024 to FY 2025 Increase/Decrease Statement:			

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604746A / *Automatic Test Equipment Development*	**Project (Number/Name)** L65 / *Test Equipment Development*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
FY25 Increase to develop new ACE Capabilities.			
Title: Physical Instruments ***Description:*** Research, develop, and test physical parameter calibration instrumentation to support areas such as intrinsic high reliability physical and dimensional standards. Modernize force and torque calibration capability. Develop radiological, chemical and biological agent detection systems, small arms gage calibration, pneumatic pressure systems, and temperature radiometer calibration related to target detection in the infrared spectrum. ***FY 2024 Plans:*** Complete follow-up research and testing on the Bio-Sensor Calibrator to develop Photolithography on Silicon Wafer technology for organic calibration support of the BWA detector JBPDS. Develop a field deployable calibration suite to support calibration of high volume small arms and ammunition gages (SAAG) in theatre. ***FY 2025 Plans:*** Develop and test a next generation automated torque calibration system that will integrate into the CALSETS tactical AN/GSM-421 platform. Develop and test a field deployable calibration suite to support calibration of high-volume small arms and ammunition gages (SAAG) in theatre. Develop and test a NIST on a Chip (NOAC) project for Intrinsic Air Data Standard Prototype. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Increase due to funding required for materials and hardware for next generation automated torque calibration system.	0.944	0.903	1.121
Title: Electrical Instruments ***Description:*** Research, develop, and test electrical parameter calibration instrumentation to support modernization and replacement of aged and obsolete test instruments in areas such as intrinsic electrical standards, electrical transport standards and electro-optic standards. Develop calibration support for advanced capability in spectral and vector dense signal analysis in complex Multi-Domain areas of operation. ***FY 2024 Plans:*** Continue development and testing of Army-wide alternating current voltage measurement modernization project. Continue development and testing of microwave power sensor calibration system, meeting Army Futures Command support requirements for Multi-Domain secured signal send and receive capability with integrated antenna functionality. Continue development and testing of the Army's s.primary traceable fiber-optic calibration station to support all army optical time-domain reflectometer test equipment. ***FY 2025 Plans:***	2.025	1.497	0.985

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604746A / *Automatic Test Equipment Development*	**Project (Number/Name)** L65 / *Test Equipment Development*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Continue development and testing the NOAC concept of Army-wide alternating current voltage measurement modernization project. Continue development and testing of microwave power sensor calibration system, meeting Army Futures Command support requirements for Multi-Domain secured signal send and receive capability with integrated antenna functionality. Continue development and testing of the Army's primary traceable fiber-optic calibration station to support all army optical time-domain reflectometer test equipment. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Decrease due to re-prioritization to CALSETS ACE Software development and the completion of microwave power sensor calibration system hardware.			
Title: Test Equipment Modernization (TEMOD) ***Description:*** Perform market research, bid sample testing and evaluation of commercial general-purpose electronic test equipment (GPETE), and develop performance specifications for TEMOD acquisitions. ***FY 2024 Plans:*** Develop the TEMOD Application Program Sets (APS) associated with the TS-4549 Radio Test Sets, which will allow the TS-4549 to support additional Army radios. ***FY 2025 Plans:*** Develop the TEMOD Application Program Sets (APS) associated with the TS-4549 Radio Test Sets, which will allow the TS-4549 to support additional Army radios, bid sample testing and evaluation of TS-485 Transmission Test Set Replacement, AN/PRM-36 Replacement, & AN/USM-459 Replacement.	0.312	4.000	4.000
Accomplishments/Planned Programs Subtotals	3.881	6.767	6.891

C. Other Program Funding Summary ($ in Millions)

Line Item	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
• G02510: *Test Equipment Modernization (TEMOD)*	30.134	32.623	46.128	-	46.128	52.998	53.031	52.886	53.414	0.000	321.214

Remarks

D. Acquisition Strategy

Projects focus on commercial and nondevelopmental item technologies. Department of Defense services provide programmatic, engineering expertise and capability for individual development projects; otherwise, commercial service contracts are used to obtain required capabilities. Equipment required for development projects

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
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is obtained from commercial suppliers. Candidate commercial equipment and nondevelopmental items are identified and evaluated through market research and government test and evaluation.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604746A / *Automatic Test Equipment Development*	Project (Number/Name) L65 / *Test Equipment Development*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
CALSETS Software Environment and Calibration	Various	Various : Various	8.350	0.327	Mar 2023	0.186	Mar 2024	0.434	Mar 2025	-		0.434	Continuing	Continuing	-
Physical Instruments	Various	Various : Various	10.457	0.533	Feb 2023	0.507	Feb 2024	0.635	Feb 2025	-		0.635	Continuing	Continuing	-
Electrical Instruments	Various	Various : Various	11.518	1.182	Mar 2023	0.865	Mar 2024	0.555	Mar 2025	-		0.555	Continuing	Continuing	-
Test Equipment Modernization	Various	Various : Various	4.221	0.187	Mar 2023	2.400	Mar 2024	2.400	Mar 2025	-		2.400	Continuing	Continuing	-
		Subtotal	34.546	2.229		3.958		4.024		-		4.024	Continuing	Continuing	N/A

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Contract Engineering	C/FFP	Various : Various	4.072	0.165	Feb 2023	0.168	Mar 2024	0.185	Mar 2025	-		0.185	Continuing	Continuing	-
		Subtotal	4.072	0.165		0.168		0.185		-		0.185	Continuing	Continuing	N/A

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
CALSETS Software Environment and Calibration	Various	Various : Various	2.418	0.218	Mar 2023	0.125	Mar 2024	0.289	Mar 2025	-		0.289	Continuing	Continuing	-
Physical Instruments	Various	Various : Various	4.246	0.356	Feb 2023	0.339	Feb 2024	0.423	Feb 2025	-		0.423	Continuing	Continuing	-
Electrical Instruments	Various	Various1600 : Various	3.146	0.788	Mar 2023	0.577	Mar 2024	0.370	Mar 2025	-		0.370	Continuing	Continuing	-
Test Equipment Modernization	Various	Various : Various	3.046	0.125	Mar 2023	1.600	Mar 2024	1.600	Mar 2025	-		1.600	Continuing	Continuing	-
		Subtotal	12.856	1.487		2.641		2.682		-		2.682	Continuing	Continuing	N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604746A / *Automatic Test Equipment Development*	Project (Number/Name) L65 / *Test Equipment Development*	

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	51.474	3.881		6.767		6.891		-		6.891	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604746A / *Automatic Test Equipment Development*	**Project (Number/Name)** L65 / *Test Equipment Development*

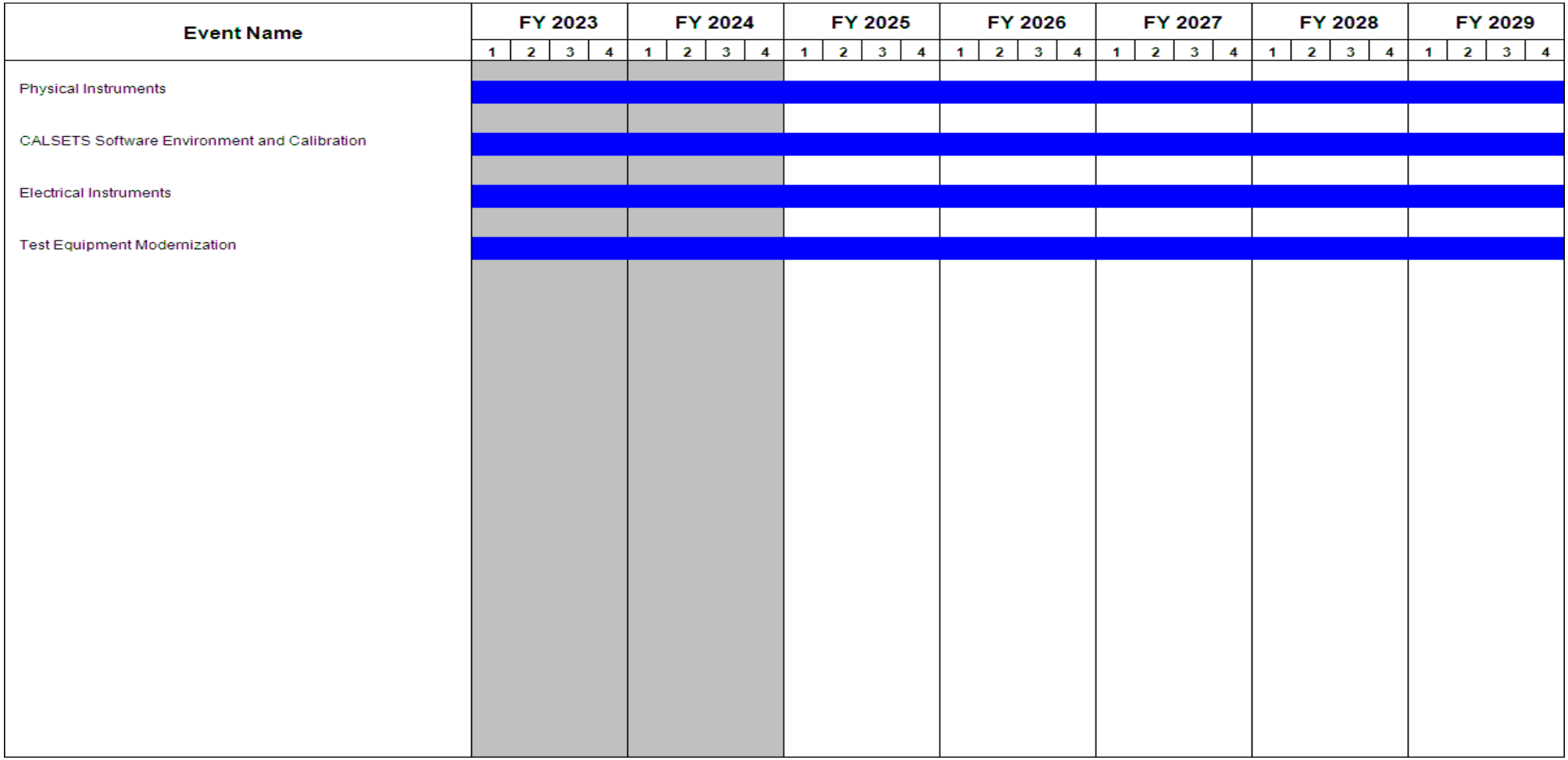

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604746A / *Automatic Test Equipment Development*	**Project (Number/Name)** L65 / *Test Equipment Development*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
AN/GSM-421(V2) User Testing	2	2007	4	2012
Physical Instruments	1	2016	4	2029
CALSETS Software Environment and Calibration	1	2016	4	2029
Electrical Instruments	1	2016	4	2029
Test Equipment Modernization	1	2016	4	2029