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

<b>Appropriation/Budget Activity</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army / BA 6: RDT&amp;E Management Support</i>	<b>R-1 Program Element (Number/Name)</b> PE 0605716A / <i>Army Evaluation Center</i>
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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	-	60.474	56.827	65.854	-	65.854	-	-	-	-	-	-
302: <i>Army Evaluation Center</i>	-	60.474	56.827	65.854	-	65.854	-	-	-	-	-	-

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

This Program Element (PE) provides the resources to operate the Army Evaluation Center (AEC), the Army's independent evaluator for Army Futures Command (AFC) Cross Functional Team (CFT) efforts and all other Army and Joint Service programs (currently over 700 programs in total). AEC is the lead agent to plan, direct and evaluate all required program testing and is the unbiased, independent authority for reporting on system progress. AEC is the focal point in test strategy development, system safety verification, and data analyses from early developmental consumer tests through operational tests. AEC develops Critical Operational Issues and Criteria (COIC) in conjunction with AFC to narrow the focus of testing to what is essential. AEC reviews and shapes system requirements to ensure they do not drive unnecessary testing. AEC provides critical independent assessments on the effectiveness, suitability, survivability, and safety to include cybersecurity and electronic warfare (EW); artificial intelligence (AI); safety of materiel solutions; and viability of emerging technologies and engineering change proposals in order to support major acquisition/fielding decisions including but not limited to acquisition milestones, materiel changes, and materiel releases.

AEC is responsible for all assigned developmental and independent operational evaluations of Army materiel, information, and acquisition systems, an inherently governmental mission. This core evaluation mission cannot be reimbursable. AEC must remain independent from the development community. AEC assists the Chief of Staff of the Army decision making process by supporting Army Capabilities Integration Development System (A-CIDS) processes as well as supporting the AFC through the CFT concept. AEC evaluates operational effectiveness by determining if the system provides intended benefits to the Force. AEC assesses, confirms, and releases system safety for use by Soldiers upon fielding and during government sponsored experiments and demonstrations. AEC determines impacts to readiness through Human Systems Integration (HSI), Unit Systems Integration (USI), and Army Systems Integration (ASI), as well as doctrine, organization, training, materiel, leadership and education, personnel, facilities and policy (DOTMLPF-P) impacts. AEC evaluates ballistics survivability and lethality missions, adversarial assessments/threat computer network operations (TCNO), cooperative vulnerability and penetration assessments (CVPA), and EW (attack, support) countermeasures in support of the National Defense Authorization Act (NDAA) 2016 Section 1647, establishment of Cybersecurity and Electromagnetic Affects (CEMA). AEC manages, plans, and executes Information Assurance (IA) operational assessments during annual Combatant Command and Army Service exercises in support of the congressionally mandated Office of the Secretary of Defense (OSD) Director, Operational Test and Evaluation (DOT&E) assessment, and performs operational test agency (OTA) duties for the Ballistic Missile Defense System (BMDS).

This PE funds direct civilian labor and minimum non-labor requirements to include: Temporary Duty (TDY) travel, personnel training, career development, supplies and equipment, hardware, software, and other external Other Government Agency (OGA) support as well as methodology development required to evaluate emerging technologies and instrumentation requirements.

AEC consists of seven directorates - Aviation-Fires Evaluation Directorate; Ballistic Missile Defense Evaluation Directorate (primarily funded by the Missile Defense Agency (MDA); Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance (C4ISR) Evaluation Directorate; Mounted Systems Evaluation Directorate; Readiness and Analytics Evaluation Directorate; Soldier Evaluation Directorate; and Survivability Evaluation Directorate - and a lean

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headquarters element as AEC receives staff services from the Army Test and Evaluation Command (ATEC) Headquarters (HQ). AEC provides direct support to AFC with personnel geographically co-located with eight CFTs - Long Range Precision Fires; Next Generation Combat Vehicle; Future Vertical Lift; Network; Assured Positioning, Navigation, and Timing; Air and Missile Defense; Soldier Lethality; and Synthetic Training Environment - and the Rapid Capabilities-Critical Technology Office and the Artificial Intelligence Task Force.

The AEC primary competencies are: identify what decision makers need to know; plan and direct test and evaluation (T&E) strategies; evaluate operational effectiveness, suitability, survivability, and safety; and provide senior leadership unbiased advice on Army and Joint Service programs.

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022 Base</b>	<b>FY 2022 OCO</b>	<b>FY 2022 Total</b>
Previous President's Budget	60.815	63.141	65.217	-	65.217
Current President's Budget	60.474	56.827	65.854	-	65.854
Total Adjustments	-0.341	-6.314	0.637	-	0.637
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-6.314			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.341	-			
• Adjustments to Budget Years	-	-	0.637	-	0.637

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2022 Army										<b>Date:</b> May 2021		
<b>Appropriation/Budget Activity</b> 2040 / 6					<b>R-1 Program Element (Number/Name)</b> PE 0605716A / Army Evaluation Center				<b>Project (Number/Name)</b> 302 / Army Evaluation Center			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022 Base</b>	<b>FY 2022 OCO</b>	<b>FY 2022 Total</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
302: Army Evaluation Center	-	60.474	56.827	65.854	-	65.854	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

This Project provides the resources to operate the Army Evaluation Center (AEC), the Army's independent evaluator for Army Futures Command (AFC) Cross Functional Team (CFT) efforts and all other Army and Joint Service programs (currently over 700 programs in total). AEC is the lead agent to plan, direct, and evaluate all required program testing and is the unbiased, independent authority for reporting on system progress. AEC is the focal point in test strategy development, system safety verification, and data analyses from early developmental consumer tests through operational tests. AEC develops Critical Operational Issues and Criteria (COIC) in conjunction with AFC to narrow the focus of testing to what is essential. AEC reviews and shapes system requirements to ensure they do not drive unnecessary testing. AEC provides critical independent assessments on the effectiveness, suitability, survivability, and safety to include cybersecurity and electronic warfare (EW); artificial intelligence (AI); safety of materiel solutions; and viability of emerging technologies and engineering change proposals in order to support major acquisition/fielding decisions including but not limited to acquisition milestones, materiel changes, and materiel releases.

AEC is responsible for all assigned developmental and independent operational evaluations of Army materiel, information, and acquisition systems, an inherently governmental mission. This core evaluation mission cannot be reimbursable. AEC must remain independent from the development community. AEC assists the Chief of Staff of the Army decision making process by supporting Army Capabilities Integration Development System (A-CIDS) processes as well as supporting the AFC through the CFT concept. AEC evaluates operational effectiveness by determining if the system provides intended benefits to the Force. AEC assesses, confirms, and releases system safety for use by Soldiers upon fielding and during government sponsored experiments and demonstrations. AEC determines impacts to readiness through Human Systems Integration (HSI), Unit Systems Integration (USI), and Army Systems Integration (ASI), as well as doctrine, organization, training, materiel, leadership and education, personnel, facilities and policy (DOTMLPF-P) impacts. AEC evaluates ballistics survivability and lethality missions, adversarial assessments/ threat computer network operations (TCNO), cooperative vulnerability and penetration assessments (CVPA), and EW (attack, support) countermeasures in support of the National Defense Authorization Act (NDAA) 2016 Section 1647, establishment of Cybersecurity and Electromagnetic Affects (CEMA). AEC manages, plans, and executes Information Assurance (IA) operational assessments during annual Combatant Command and Army Service exercises in support of the congressionally mandated Office of the Secretary of Defense (OSD) Director, Operational Test and Evaluation (DOT&E) assessment, and performs operational test agency (OTA) duties for the Ballistic Missile Defense System (BMDS).

This Project funds direct civilian labor and minimum non-labor requirements to include: Temporary Duty (TDY) travel, personnel training, career development, supplies and equipment, hardware, software, and other external Other Government Agency (OGA) support as well as methodology development required to evaluate emerging technologies and instrumentation requirements.

AEC consists of seven directorates - Aviation-Fires Evaluation Directorate; Ballistic Missile Defense Evaluation Directorate (primarily funded by the Missile Defense Agency (MDA); Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance (C4ISR) Evaluation Directorate; Mounted Systems Evaluation Directorate; Readiness and Analytics Evaluation Directorate; Soldier Evaluation Directorate; and Survivability Evaluation Directorate - and a lean headquarters element as AEC receives staff services from the Army Test and Evaluation Command (ATEC) Headquarter (HQ). AEC provides direct support to AFC with

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<b>Appropriation/Budget Activity</b> 2040 / 6	<b>R-1 Program Element (Number/Name)</b> PE 0605716A / Army Evaluation Center	<b>Project (Number/Name)</b> 302 / Army Evaluation Center
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personnel geographically co-located with eight CFTs - Long Range Precision Fires; Next Generation Combat Vehicle; Future Vertical Lift; Network; Assured Positioning, Navigation, and Timing; Air and Missile Defense; Soldier Lethality; and Synthetic Training Environment - and the Rapid Capabilities-Critical Technology Office and the Artificial Intelligence Task Force.

The AEC primary competencies are: Identify what decision makers need to know; plan and direct test and evaluation (T&E) strategies; evaluate operational effectiveness, suitability, survivability, and safety; and provide senior leadership unbiased advice on Army and Joint Service programs.

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

	FY 2020	FY 2021	FY 2022
<p><b>Title:</b> Army Evaluation Center Civilian Pay</p> <p><b>Description:</b> AEC provides integrated technical and operational evaluations and continuous evaluation of assigned weapon systems and major automated information systems for major milestone decisions, materiel changes, and materiel releases in support of the Army Acquisition Executive and force development. AEC develops the evaluation strategy, designs technical and operational tests, and evaluates the test results to address the combat effectiveness, suitability, survivability, and safety factors pertinent to the decision process for more than 700 systems/programs across the Army, other Services, and Agencies. AEC prepares integrated System Evaluation Plans and conducts integrated technical and operational evaluations for all assigned systems. In support of Overseas Contingency Operations (OCO) and other real-world events, AEC provides Capability &amp; Limitation Reports and safety verification documents. AEC assists the Chief of Staff of the Army decision making process by supporting the Army Capabilities Integration Development System (A-CIDS) processes.</p> <p>AEC exercises enterprise authority to prioritize, synchronize, and resource evaluations and assessments in support of Army Modernization and in accordance with AFC priorities. As a principle member of the ATEC Board of Directors (BOD), AEC partners with other ATEC organizations to provide enterprise oversight and decision making and coordinate enterprise initiatives to accelerate and reduce the cost of evaluations and assessments. AEC supports the A-CIDS process by reviewing and shaping COIC that are operationally relevant, total system focused, and that can be evaluated while driving essential T&amp;E. AEC provides direct support to AFC by resourcing coordinators geographically co-located with eight CFTs, the Rapid Capabilities Critical Technology Office (RCCTO), and the AI Task Force. AEC resources eight integrators dedicated to each CFT to lead synchronization efforts across the T&amp;E enterprise. AEC enables rapid capability development by partnering with and dedicating coordination efforts with RCCTO. AEC employs innovative and adaptive T&amp;E processes through applying flexibility given limited resources and shifting priorities while leveraging all credible data sources. AEC develops and deploys enhanced T&amp;E capabilities focusing on modernizing T&amp;E capabilities while refining the investment process. AEC partners with analytic and strategic partner organizations to share resources, gain evaluation and assessment efficiencies, and increase capacity to support AFC. AEC applies new and innovative techniques in data mining, data visualization, and presentation of large data sets; and develops methodologies for the evaluation of artificial intelligence and hypersonic weapons.</p> <p><b>FY 2021 Plans:</b></p>	55.636	56.702	60.530

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

	FY 2020	FY 2021	FY 2022
<p>Will continue to support the costs of civilian labor for AEC PBG authorizations. Assist AFC in developing operationally relevant, total system focused COIC that can be evaluated. Develop and apply new techniques in data mining, data visualization and presentation of large data sets. Continue research and development of evaluation metrics for new and emerging technologies such as artificial intelligence, signature management, hypersonics, directed energy, and human cognition. AEC will establish and resource dedicated integration and coordination support for RCCTO will coordination efforts geographically co-located with RCCTO. AEC will establish and resource dedicated coordination support to the AI Task Force to partner with analytic and strategic partner organizations to develop and define strategies and methodologies for test and evaluation of integrated artificial intelligence system competencies and capabilities. AEC will establish and resource professional competency development in cloud computing and data sharing and invest in cloud computing and storage infrastructure. AEC will establish and resource the Sensor to Shooter Cell to dedicate integration and coordination support for Project Convergence events in support of Army Modernization. AEC will provide evaluation and assessment of system safety in support of up to 16 government sponsored experiments and demonstrations.</p> <p><b>FY 2022 Plans:</b></p> <p>Will continue to support the costs of civilian labor for AEC PBG authorizations. AEC will continue to leverage AFC's Top-Down Futures Development Process (TDFDP) to shape requirements continuously. AEC will continue to develop evaluation metrics in support of Army Modernization priorities for new and emerging technologies such as artificial intelligence, signature management, hypersonics, directed energy, and human cognition. AEC will continue to provide dedicated integration and on-site coordination support for RCCTO and all eight AFC CFTs. AEC will continue to partner with analytic and strategic organizations through participation in the AI Task Force to develop and define strategies and methodologies for test and evaluation of integrated artificial intelligence system competencies and capabilities. AEC will continue to develop personnel competencies in cloud computing and data management and will continue to identify opportunities for and invest in efforts to develop cloud computing and data sharing/storage infrastructure. AEC will continue to resource dedicated integration and coordination for Project Convergence and Army Modernization through the Sensor to Shooter Cell. AEC will continue to provide evaluation and assessment of system safety in support for government sponsored experiments and demonstrations to test and evaluate system integration events. AEC will continue to develop talent and culture changes that support organic Army T&amp;E expertise in the modernized environment. Leverage advanced analytics/data mining for knowledge management and transfer. Continue to support a leadership-driven decision making process through resourcing high priority efforts, identifying T&amp;E efficiencies, and identifying and allocating T&amp;E resources required for modernization. Continue to leverage strategic partnerships. Establish processes to ensure enduring change, develop and maintain policy and tools, and provide governance and oversight.</p> <p><b>FY 2021 to FY 2022 Increase/Decrease Statement:</b></p> <p>The Army's directed Acquisition Reform EXORD established AEC's Direct Support role to AFC and levied additional tasks for AEC such as CFTs, Army Oversight Council, Review and Analysis documents, and Increased Cyber Security. In POM 20-24 civilian authorizations and associated funding was realigned into this account and the funding increase began in FY20. The FY21 Appropriation Conference reduced this account by \$6.314M which was more than the increase provided for the additional</p>			

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
24 civilian authorizations. The FY22 funding will support the additional authorizations and tasks as directed by the Acquisition Reform EXORD.				
<p><b>Title:</b> Army Evaluation Center Operations Support</p> <p><b>Description:</b> AEC operational support costs. Contract services include facilities maintenance and repair and custodial support to ensure safety, health and hygiene of the AEC workforce; sustainment services such as grass cutting, snow removal, and security for AEC facilities; software licenses required for scientific and statistical methods in developing rigorous, defensible test plans and evaluating the results; training for the highly technical civilian and military workforce (450 total number); life cycle replacement of IT equipment, printers, VTC equipment, wireless communications; contract support services for IT helpdesk, network, cybersecurity, etc.; and annual consumable supplies.</p> <p><b>FY 2021 Plans:</b> Funding will continue to support AEC operational support costs including contract support, software licenses, training, life cycle replacement of equipment.</p> <p><b>FY 2022 Plans:</b> Funding will continue to support AEC operational support costs including contract support, software licenses, training, life cycle replacement of equipment.</p> <p><b>FY 2021 to FY 2022 Increase/Decrease Statement:</b> The Army's directed Acquisition Reform EXORD established AEC's Direct Support role to AFC and levied additional tasks for AEC such as CFTs, Army Oversight Council, Review and Analysis documents, and Increased Cyber Security. In POM 20-24 civilian authorizations and associated funding was realigned into this account and the funding increase began in FY20. The FY21 Appropriation Conference reduced this account by \$6.314M which was more than the increase provided for the additional 24 civilian authorizations. The FY22 funding will support the additional authorizations and tasks as directed by the Acquisition Reform EXORD.</p>		4.838	0.125	5.324
<b>Accomplishments/Planned Programs Subtotals</b>		60.474	56.827	65.854
<b>C. Other Program Funding Summary (\$ in Millions)</b>				
N/A				
<b>Remarks</b>				
<b>D. Acquisition Strategy</b>				
N/A				