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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2020 Army **Date:** March 2019

<b>Appropriation/Budget Activity</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army</i> / BA 6: <i>RDT&amp;E Management Support</i>					<b>R-1 Program Element (Number/Name)</b> PE 0605716A / <i>Army Evaluation Center</i>							
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020 Base</b>	<b>FY 2020 OCO</b>	<b>FY 2020 Total</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
Total Program Element	-	56.003	57.039	60.815	-	60.815	62.482	64.789	61.004	64.540	0.000	426.672
302: <i>Army Evaluation Center</i>	-	56.003	57.039	60.815	-	60.815	62.482	64.789	61.004	64.540	0.000	426.672

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

This Program Element (PE) provides the resources to operate the Army Evaluation Center (AEC), the United States (U.S.) Army's independent evaluator of Technical Requirements and Critical Operational Issues and Criteria for all Cross Functional Teams (CFTs) and other programs. AEC is the lead agent to plan, direct and evaluate all required program testing. AEC is the focal point in test strategy development, system safety verification, and data analyses from early developmental consumer tests through operational tests. AEC provides critical independent assessments on the effectiveness, suitability, and survivability to include cyber and electronic warfare; 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 evaluation of Army materiel, information and acquisition systems, an inherently governmental mission. AEC assists the Chief of Staff of the Army decision making process by supporting Army Requirements Oversight Council (AROC) processes as well as supporting the Army Futures Command through the Cross Functional Team (CFT) concept. AEC evaluates operational effectiveness by determining if the system provides intended benefits to the Force. AEC determines impacts to readiness through Human Systems Integration (HSI), Unit Systems Integration (USI), and Army Systems Integration (ASI), DOTMLPF-P impacts, integrated suitability reviews (ISR) and operational suitability reviews (OSR) in partnership with the Deputy Assistant Secretary of the Army for Acquisition Policy and Logistics (DASA APL). AEC evaluates ballistics survivability and lethality missions, adversarial assessments/threat computer network operations, cooperative vulnerability and penetration assessments (CVPA), and electronic warfare (EW) (attack, support) countermeasures in support of the National Defense Authorization Act (NDAA) 2016 Section 1647, Establishment of Cybersecurity and Electromagnetic Effects (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 Director, Operational Test and Evaluation (OSD DOT&E) assessment, and performs the operational test agency (OTA) duties for the Ballistic Missile Defense System.

This PE funds direct civilian labor and minimum non-labor requirements to include: Temporary Duty (TDY), 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 (BMD) Evaluation Directorate (funded by the Missile Defense Agency (MDA)), Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance (C4ISR) Evaluation Directorate, Integrated Suitability & Methodology Directorate, Mounted Systems Evaluation Directorate, Soldier & Support System Evaluation Directorate and Survivability Evaluation Directorate) and a lean headquarters element as AEC receives staff services from the Army Test and Evaluation Command Headquarters (ATEC HQ). The AEC primary competencies are: identify what decision makers need to know; plan and direct test and evaluation strategies; evaluate operational effectiveness, suitability, survivability and safety; and provide senior leadership unbiased advice on Army programs.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Army				Date: March 2019		
Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support		R-1 Program Element (Number/Name) PE 0605716A / Army Evaluation Center				
B. Program Change Summary (\$ in Millions)		FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Previous President's Budget		56.246	57.049	58.152	-	58.152
Current President's Budget		56.003	57.039	60.815	-	60.815
Total Adjustments		-0.243	-0.010	2.663	-	2.663
• Congressional General Reductions		-0.005	-0.010			
• Congressional Directed Reductions		-	-			
• Congressional Rescissions		-	-			
• Congressional Adds		-	-			
• Congressional Directed Transfers		-	-			
• Reprogrammings		-	-			
• SBIR/STTR Transfer		-0.238	-			
• Adjustments to Budget Years		-	-	2.663	-	2.663

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Army										Date: March 2019		
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605716A / Army Evaluation Center				Project (Number/Name) 302 / Army Evaluation Center			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
302: Army Evaluation Center	-	56.003	57.039	60.815	-	60.815	62.482	64.789	61.004	64.540	0.000	426.672
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 of Technical Requirements and Critical Operational Issues and Criteria for all Cross Functional Teams (CFTs) and other programs. AEC is the lead agent to plan, direct and evaluate all required program testing. AEC is the focal point in test strategy development, system safety verification, and data analyses from early developmental consumer tests through operational tests. AEC provides critical independent assessments on the effectiveness, suitability, and survivability to include cyber and electronic warfare; 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.

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This Project funds direct civilian labor and minimum non-labor requirements to include: Temporary Duty (TDY), 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 (BMD) Evaluation Directorate (funded by the Missile Defense Agency (MDA)), Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance (C4ISR) Evaluation Directorate, Integrated Suitability & Methodology Directorate, Mounted Systems Evaluation Directorate, Soldier & Support System Evaluation Directorate and Survivability Evaluation Directorate) and a lean headquarters element as AEC receives staff services from the Army Test and Evaluation Command Headquarters (ATEC HQ). The AEC primary competencies are: identify what decision makers need to know; plan and direct test and evaluation strategies; evaluate operational effectiveness, suitability, survivability and safety; and provide senior leadership unbiased advice on Army programs.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2020 Army			<b>Date:</b> March 2019		
<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>B. Accomplishments/Planned Programs (\$ in Millions)</b>			<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>
<b>Title:</b> Army Evaluation Center (AEC)  <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 will develop the evaluation strategy, design technical and operational tests, and evaluate the test results to address the combat effectiveness, suitability, and survivability factors pertinent to the decision process for hundreds of systems/programs across the Army, other Services and Agencies. AEC will prepare integrated System Evaluation Plans and conduct integrated technical and operational evaluations for all assigned systems, assisting the Chief of Staff of the Army decision making process by supporting the Army Requirements Oversight Council (AROC) processes as well as provide support to the Army Futures Command through the Cross Functional Team (CFT) concept. In support of Overseas Contingency Operations (OCO) and other real-world events, AEC continues to provide Capability & Limitation Reports and safety verification documents.  <b>FY 2019 Plans:</b> Cover operational costs for AEC including civilian pay and non-labor costs (approximately 94% of AEC's total budget is civilian labor). Assist TRADOC in developing operational relevant, total system focused critical operational issues and criteria that can be evaluated. Develop and apply new techniques in data mining, data visualization and presentation of large data sets. Research and develop evaluation metrics for new and emerging technologies such as signature management and human cognition.  <b>FY 2020 Plans:</b> Cover operational costs for AEC including civilian pay and non-labor costs (approximately 94% of AEC's total budget is civilian labor). Assist TRADOC in developing operational relevant, total system focused critical operational issues and criteria that can be evaluated. Develop and apply new techniques in data mining, data visualization and presentation of large data sets. Continue research and develop evaluation metrics for new and emerging technologies such as signature management and human cognition.  <b>FY 2019 to FY 2020 Increase/Decrease Statement:</b> Increase funds civilian personnel to provide support for capabilities development process as well as Cross Functional Team (CFT) efforts to support the Army modernization strategy.			56.003	56.532	60.815
<b>Title:</b> FY 2019 SBIR / STTR Transfer  <b>Description:</b> FY 2019 SBIR / STTR Transfer  <b>FY 2019 Plans:</b> FY 2019 SBIR / STTR Transfer  <b>FY 2019 to FY 2020 Increase/Decrease Statement:</b>			-	0.507	-

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2018</b>	<b>FY 2019</b>
FY 2019 SBIR / STTR Transfer			
<b>Accomplishments/Planned Programs Subtotals</b>		56.003	60.815
<b>C. Other Program Funding Summary (\$ in Millions)</b> N/A <b>Remarks</b>  <b>D. Acquisition Strategy</b> N/A  <b>E. Performance Metrics</b> N/A			