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**Exhibit R-2, RDT&E Budget Item Justification: PB 2021 Army** **Date:** February 2020

<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 0605103A / <i>Rand Arroyo Center</i>
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COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
Total Program Element	-	19.071	13.113	13.481	-	13.481	14.091	14.512	14.939	15.090	0.000	104.297
732: <i>Arroyo Center Spt</i>	-	19.071	13.113	13.481	-	13.481	14.091	14.512	14.939	15.090	0.000	104.297

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

This Program Element (PE) funds RAND Arroyo Center, the Department of the Army's Federally Funded Research and Development Center (FFRDC) for studies and analysis. RAND Arroyo Center draws researchers from RAND's staff of nearly 700 professionals trained in a broad range of disciplines. Most staff members work in RAND's principal locations: Santa Monica, California; Arlington, Virginia; and Pittsburgh, Pennsylvania. RAND Arroyo Center provides for continuing analytical research across a broad spectrum of issues and concerns, grouped in three major research areas: Personnel, Training, and Health; Forces and Logistics; and Strategy, Doctrine and Resources. RAND Arroyo Center research agenda is primarily focused on mid/long-term concerns. Current priorities include: implementation of the National Defense Strategy; total force readiness; Army modernization priorities; ongoing operations and dynamic force employment; reform business processes; multi-domain operations; and soldier-centric investments and soldier and family resilience. Results and analytical findings directly affect senior leadership deliberations on major issues. RAND Arroyo research is sponsored by the Secretary, Chief of Staff, Under Secretary, Vice Chief of Staff, Deputy Chiefs of Staff; Assistant Secretaries of the Army, and Army Major Commands. RAND Arroyo is governed by AR 5-21 and receives Army guidance through the Arroyo Center Policy Committee (ACPC), which is co-chaired by the Vice Chief of Staff of the Army and the Assistant Secretary of the Army (Acquisition, Logistics and Technology). The ACPC reviews, monitors, and approves the annual Arroyo Center research plan. Each research project is sponsored by a General Officer or Senior Executive Service who is continually involved in research evaluation and feedback. RAND Arroyo provides the Army with a unique multidisciplinary capability for independent analysis.

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

	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021 Base</u>	<u>FY 2021 OCO</u>	<u>FY 2021 Total</u>
Previous President's Budget	19.796	13.113	13.494	-	13.494
Current President's Budget	19.071	13.113	13.481	-	13.481
Total Adjustments	-0.725	0.000	-0.013	-	-0.013
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.725	-			
• Adjustments to Budget Years	-	-	-0.013	-	-0.013

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<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021 Base</b>	<b>FY 2021 OCO</b>	<b>FY 2021 Total</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
732: <i>Arroyo Center Spt</i>	-	19.071	13.113	13.481	-	13.481	14.091	14.512	14.939	15.090	0.000	104.297
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>
<b>Title:</b> Research addressing personnel, training, and health	4.341	2.673	2.953
<b>Description:</b> Addresses key issues for the Army including: total workforce management; recruiting and retention; leader development; training, readiness and effectiveness; Soldier and family wellness and support.			
<b>FY 2020 Plans:</b> The Planned Study program will cover key issues for the Army including: total workforce management; recruiting and retention; leader development; training readiness and effectiveness; Soldier and family wellness and support. Each research project will be sponsored by a General Officer (or Senior Executive Service (SES) equivalent) who validates the need for the project and directly participates in research evaluation and iterative feedback. Project results will be briefed to Army senior leaders to ensure recommendations are available for immediate consideration.			
<b>FY 2021 Plans:</b> The Planned Study program will cover key issues for the Army including: total workforce management; recruiting and retention; leader development; training readiness and effectiveness; Soldier and family wellness and support. Each research project will be sponsored by a General Officer (or Senior Executive Service (SES) equivalent) who validates the need for the project and			

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>
directly participates in research evaluation and iterative feedback. Project results will be briefed to Army senior leaders to ensure recommendations are available for immediate consideration.				
<b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> Funding change reflects planned lifecycle of this effort.				
<b>Title:</b> Research addressing forces and logistics		5.700	4.068	4.718
<b>Description:</b> Addresses key issues for the Army, including systems and technology analysis; networks and Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance (C4ISR); acquisition policy; force and organizational development; assessment of tactics, techniques, and procedures; supply chain management; fleet maintenance, management and modernization; and tactical, operational, and strategic logistic support				
<b>FY 2020 Plans:</b> The Planned Study Program in forces and logistics will include key issues for the Army such as systems and technology analysis; networks and C4ISR; acquisition policy; force and organizational development; assessment of tactics, techniques, and procedures; supply chain management; fleet maintenance, management and modernization; and tactical, operational, and strategic logistic support.				
<b>FY 2021 Plans:</b> The Planned Study Program in forces and logistics will include key issues for the Army such as systems and technology analysis; networks and C4ISR; acquisition policy; force and organizational development; assessment of tactics, techniques, and procedures; supply chain management; fleet maintenance, management and modernization; and tactical, operational, and strategic logistic support.				
<b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> Funding change reflects planned lifecycle of this effort.				
<b>Title:</b> Research addressing strategy, doctrine, and resources		9.030	5.776	5.810
<b>Description:</b> Addresses key issues for the Army including: preparing for strategic competition with near peer adversaries; building the Army of the Future through modernization and new operational constructs; optimizing posture and use of military forces abroad; working with partners and allies; identifying and countering ongoing and emerging threats to national interests; and assessing risk and resource use.				
<b>FY 2020 Plans:</b> The Planned Study Program in strategy, doctrine, and resources will include current and potential threats to national interests and U.S. forces; operating environments and their implications for the Army; doctrine and operational concepts for addressing threats;				

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	FY 2019	FY 2020	FY 2021
operating and generating force size, scope, and mix to meet demand; building partner capabilities; learning from past and present operations; strategic risk analysis and resource policy; and Army wargames and related analyses.  <b>FY 2021 Plans:</b> The Planned Study Program in strategy, doctrine, and resources will include preparing for strategic competition with near peer adversaries; building the Army of the Future through modernization and new operational constructs; optimizing posture and use of military forces abroad; working with partners and allies; identifying and countering ongoing and emerging threats to national interests; and assessing risk and resource use.  <b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> Funding change reflects planned lifecycle of this effort.			
<b>Title:</b> FY 2020 SBIR/STTR Transfer  <b>Description:</b> Funding transferred in accordance with Title 15 USC ?638  <b>FY 2020 Plans:</b> Funding transferred in accordance with Title 15 USC ?638  <b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> Funding transferred in accordance with Title 15 USC ?638	-	0.596	-
<b>Accomplishments/Planned Programs Subtotals</b>	19.071	13.113	13.481

**C. Other Program Funding Summary (\$ in Millions)**

N/A

**Remarks**

**D. Acquisition Strategy**

N/A