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

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605801A / <i>Programwide Activities</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	-	60.218	58.175	87.472	-	87.472	91.558	95.428	98.173	98.167	0.000	589.191
EU9: <i>Army Science Board</i>	-	3.056	2.250	2.248	-	2.248	2.248	2.248	2.248	2.271	0.000	16.569
M02: <i>Med Cmd Spt (Non-AMHA)</i>	-	26.223	24.052	20.431	-	20.431	23.142	23.550	24.013	24.003	0.000	165.414
M15: <i>ARI Mgmt/ADM Act</i>	-	1.465	1.550	1.584	-	1.584	1.628	1.659	1.677	1.677	0.000	11.240
M16: <i>Standardization Groups</i>	-	3.728	4.297	4.340	-	4.340	4.417	4.458	4.505	4.551	0.000	30.296
M23: <i>US Army Corps of Engineers Base Operations</i>	-	0.000	0.000	33.498	-	33.498	34.129	35.142	35.836	35.669	0.000	174.274
M42: <i>ARDEC Cmd/Ctr Support</i>	-	7.318	7.419	7.270	-	7.270	7.470	7.459	7.856	7.856	0.000	52.648
M44: <i>CECOM Cmd/Ctr Spt</i>	-	4.522	3.819	3.902	-	3.902	3.982	4.801	5.011	5.011	0.000	31.048
M46: <i>AMCOM Cmd/Ctr Spt</i>	-	0.228	3.596	3.432	-	3.432	3.533	3.916	4.093	4.093	0.000	22.891
M47: <i>TACOM Cmd/Ctr Spt</i>	-	3.294	3.629	3.704	-	3.704	3.805	3.853	4.084	4.084	0.000	26.453
M55: <i>Edgewood Chemical Biological Center</i>	-	5.893	3.027	2.611	-	2.611	2.661	3.748	4.166	4.247	0.000	26.353
M58: <i>SECOM CMD/CTR Spt</i>	-	2.429	2.350	2.232	-	2.232	2.278	2.316	2.365	2.365	0.000	16.335
M76: <i>Armament Group Support</i>	-	2.062	2.186	2.220	-	2.220	2.265	2.278	2.319	2.340	0.000	15.670

A. Mission Description and Budget Item Justification

This Program Element (PE) supports the non-Army Management Headquarters Activity (non-AMHA) Research, Development, Test, and Evaluation (RDTE) functions incident to the local operation and management of United States (U.S.) Army Combat Capabilities Development Command (CCDC) Centers, not identifiable with specific research and development projects. This PE also supports the management and operation of multiple, globally-located CCDC International Technology Centers (ITCs). The ITCs play an integral role in the U.S. Army efforts for international cooperative research, development and interoperability, and fulfill international memoranda of understanding requirements.

Programwide activities also include: Army Science Board studies; non-AMHA Medical Command support at the U.S. Army Medical Research and Materiel Command (USAMRMC); non-AMHA management and administrative functions at the U.S. Army Research Institute (ARI); and travel and administrative support to the North Atlantic Treaty Organization (NATO) Army Armaments Group (NAAG).

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Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605801A / <i>Programwide Activities</i>
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B. Program Change Summary (\$ in Millions)	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Previous President's Budget	60.921	58.175	57.559	-	57.559
Current President's Budget	60.218	58.175	87.472	-	87.472
Total Adjustments	-0.703	0.000	29.913	-	29.913
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.703	-			
• Adjustments to Budget Years	-	-	29.913	-	29.913

Change Summary Explanation

Fiscal Year 2021 (FY21) increase a result of a New Start Project (Project M23).

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army										Date: February 2020		
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605801A / <i>Programwide Activities</i>				Project (Number/Name) EU9 / <i>Army Science Board</i>			
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
EU9: <i>Army Science Board</i>	-	3.056	2.250	2.248	-	2.248	2.248	2.248	2.248	2.271	0.000	16.569
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Army Science Board (ASB) is a federal advisory committee, organized under the Federal Advisory Committee Act (FACA) and the Government in the Sunshine Act, which provides the Secretary of the Army and Secretary of Defense with independent and transparent advice and recommendations on matters relating to scientific, technical, manufacturing, acquisition, logistics, and business management functions. The ASB dates to November 1951 when the Secretary of the Army, Honorable Frank Pace Jr., appointed twelve outstanding scientists and industrialists to a scientific advisory panel to assist him and the Army's leadership in creating an effective, economical, and progressive fighting force using existing technology and industrial resources. Three years later, this panel was expanded and officially designated the Army Scientific Advisory Panel (ASAP), with its first formal meeting held on November 16, 1954. In 1977, with the passage of FACA, the ASB was created to replace the ASAP.

The ASB provides the Army with a resource of world-class scientists, engineers, technologists and operational experts as well as business, policy and managerial specialists from the private sector, academia, non-DoD government agencies and former senior military officers. Its members volunteer their expertise and time to address those critical national security challenges for which the Army's leadership seeks independent and unbiased technical advice. The ASB focuses on issues of importance to large segments of the Army, and its products are delivered in a candid and timely manner.

The Board is composed of 20 voting and 20 non-voting members, each serving three-year terms, and consultants who serve one-year terms. Membership is carefully monitored to ensure that diverse disciplines and points of view are represented. The Secretary of the Army appoints the Chair and Vice Chair from the ASB membership. The ASB Chair also serves as a non-voting observer to the Defense Science Board. ASB membership is augmented by a small number of consultants who are appointed to provide specialized expertise for ASB studies.

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

	FY 2019	FY 2020	FY 2021
Title: Army Science Board	3.056	2.148	2.248
Description: The ASB Charter sets the estimated number of Board meetings at four per year. Board members serve without compensation, with the exception of reimbursement for official Board-related travel and per diem. Funds are therefore required to facilitate Board activities and related subcommittee activities. The ASB Charter states that annual requirements will typically entail a personnel cost of seven Full-Time Equivalents.			
Currently, the Secretary of the Army has approved four permanent subcommittees to the Board:			
1) The Army Science Board Basic Science and Disruptive Technologies Subcommittee is composed of not more than 15 members and addresses issues relating to the Army's basic research and disruptive technologies, including Soldier performance			

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Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605801A / <i>Programwide Activities</i>	Project (Number/Name) EU9 / <i>Army Science Board</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2019	FY 2020	FY 2021
<p>enhancement, cognition improvement, and training; autonomous systems and human-machine teaming; Chemical, Biological, Radiological, Nuclear and high-yield Explosives (CBRNE); and counter Weapons of Mass Destruction.</p> <p>2) The Army Science Board Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance (C4ISR) Subcommittee is composed of not more than 15 members and addresses issues relating to the Army's C4ISR core competency, including the tactical edge Command, Control, and Communications (C3), situational awareness overmatch, and electronic warfare.</p> <p>3) The Army Science Board Systems Engineering, Integration, and Sustainment Subcommittee is composed of not more than 15 members and addresses relating to the Army's core competency in systems engineering and integration; advanced prototyping and experimentation in operational environments; and sustainment, including engineered resilient systems, agile logistics and health management. These competencies are essential to the performance of the entire acquisition community.</p> <p>4) the Army Science Board Weapon Systems Subcommittee is composed of not more than 15 members and addresses issues relating to the Army's weapon systems core competency in: Rotorcraft Design Synthesis & Performance Assessment (DS&PA) and airworthiness/safety; ground combat vehicle DS&PA, Soldier interaction, and system integration; lethality, including impact physics, energetics, warhead DS&PA, effects modeling and simulation; survivability and protection, including armor and balanced approach for detection/hit/kill avoidance; and air and missile defense DS&PA, precision fires, seekers, and precision guidance.</p> <p>FY 2020 Plans: Conduct four to six studies on behalf of the Secretary of the Army; likely in areas of Basic Science and Disruptive Technology; Weapons Systems; C4ISR; and Systems Engineering, Integrations, and Sustainment or other concerns related to the future of the force.</p> <p>FY 2021 Plans: Conduct four to six studies on behalf of the Secretary of the Army; likely in areas of Basic Science and Disruptive Technology; Weapons Systems; C4ISR; and Systems Engineering, Integrations, and Sustainment or other concerns related to the future of the force.</p> <p>FY 2020 to FY 2021 Increase/Decrease Statement: Decreases in the funding levels from FY20 to FY21 represent a reduction in studies that focus solely on Army Modernization priorities</p>				
Title: FY 2020 SBIR/STTR Transfer		-	0.102	-
Description: Funding transferred in accordance with Title 15 USC ?638				

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Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605801A / <i>Programwide Activities</i>	Project (Number/Name) EU9 / <i>Army Science Board</i>
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2019	FY 2020	FY 2021
<i>FY 2020 Plans:</i> Funding transferred in accordance with Title 15 USC ?638			
<i>FY 2020 to FY 2021 Increase/Decrease Statement:</i> Funding transferred in accordance with Title 15 USC ?638			
Accomplishments/Planned Programs Subtotals	3.056	2.250	2.248

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army										Date: February 2020		
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605801A / <i>Programwide Activities</i>				Project (Number/Name) M02 / <i>Med Cmd Spt (Non-AMHA)</i>			
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
M02: <i>Med Cmd Spt (Non-AMHA)</i>	-	26.223	24.052	20.431	-	20.431	23.142	23.550	24.013	24.003	0.000	165.414
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This Project provides funding for authorized civilian workforce performing medical research, development, acquisition management and oversight that support the medical Research, Development, Test, and Evaluation (RDTE) programs at the United States (U.S.) Army Medical Research and Materiel Command (USAMRMC), Fort Detrick, Maryland to: (1) perform planning, programming, and budgeting; (2) manage resources; and (3) ensure compliance with U.S. Food and Drug Administration (FDA) and other regulatory and safety requirements. It also provides for continued operations of contracting and acquisition management functions performed by the U.S. Army Medical Research Acquisition Activity (USAMRAA) in support of the USAMRMC Medical RDTE Program.

Additionally, this Project provides funding for the special immunization program (SIP). The SIP program provides Food and Drug Administration (FDA) licensed vaccines and investigational new drug (IND) vaccines under informed consent to laboratory workers at the U.S. Army Medical Research Institute of Infectious Diseases, and to other military, government, or contractor personnel who may be at risk of exposure to highly hazardous pathogenic microorganisms or toxins.

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

	FY 2019	FY 2020	FY 2021
Title: Civilian Authorized Salaries and other operational requirements	26.223	23.919	20.431
Description: Funding is provided to the USAMRMC for Medical Research Development Acquisition (RDA) Management and Oversight to include the payroll of civilians as well as nominal operating expense. Expertise helps establish and maintain the capabilities that Army medicine needs to sustain life, limb, and eyesight for our warfighters. Civilian labor performs centralized management of Medical RDA (many areas required by law and/or regulation) including animal & human research protections, health and safety compliance, environmental management, and U.S. Food and Drug Administration regulatory compliance, legal support (including intellectual property protection), quality assurance, contracting services, personnel management, and planning, programming, and budgeting, and execution management. Funding also supports the Army's portion of the Special Immunization Program that protects individuals engaged in infectious disease research if exposed to pathogens or toxins.			
FY 2020 Plans: Will fund authorized civilian salaries and associated expenses (supplies, equipment, travel, etc) at USAMRMC and USAMRAA. Also, will provide regulatory, clinical monitoring and data support for the Special Immunization Program. This program will provide non licensed vaccines under FDA oversight to personnel at risk of exposure to selected infectious diseases.			
FY 2021 Plans:			

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Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605801A / <i>Programwide Activities</i>	Project (Number/Name) M02 / <i>Med Cmd Spt (Non-AMHA)</i>
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2019	FY 2020	FY 2021
<p>Will fund authorized civilian salaries and associated expenses (supplies, equipment, travel, etc.) at USAMRDC and USAMRAA. Also will provide regulatory, clinical monitoring and data support for the SIP. This program will provide non-licensed vaccines under FDA oversight to personnel at risk of exposure to selected infectious diseases.</p> <p>FY 2020 to FY 2021 Increase/Decrease Statement: Decrease in civilian salaries and associated expenses based on Army realignment of medical RDTE funding to support modernization priorities.</p>			
<p>Title: FY 2020 SBIR/STTR Transfer</p> <p>Description: Funding transferred in accordance with Title 15 USC ?638</p> <p>FY 2020 Plans: Funding transferred in accordance with Title 15 USC ?638</p> <p>FY 2020 to FY 2021 Increase/Decrease Statement: Funding transferred in accordance with Title 15 USC ?638</p>	-	0.133	-
Accomplishments/Planned Programs Subtotals	26.223	24.052	20.431

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army										Date: February 2020		
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605801A / <i>Programwide Activities</i>				Project (Number/Name) M15 / <i>ARI Mgmt/ADM Act</i>			
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
M15: <i>ARI Mgmt/ADM Act</i>	-	1.465	1.550	1.584	-	1.584	1.628	1.659	1.677	1.677	0.000	11.240
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The U.S. Army Research Institute for the Behavioral and Social Sciences (ARI) is the only Science and Technology (S&T) laboratory that conducts research to enhance the Soldier lifecycle (e.g., selection, assignment, training, leader development) and human relations (e.g., culture of dignity, respect, and inclusion). This Project supports the non-Army Management Headquarters Activity (non-AMHA) management and administrative functions to enable ARI to accomplish its research mission and includes activities such as budget execution, procurement oversight, RDT&E program planning and evaluation, management control, security/safety, logistics, information technology, and personnel/manpower execution and oversight. ARI's behavioral and social science research provides effective non-materiel solutions to help the Army adjust to changes in force size and structure, a variety of mission demands and contexts, challenges in human relations, and budgetary constraints.

The cited work is consistent with the Assistant Secretary of Defense (Research and Engineering) priority focus areas, the Army Vision, the Army's Talent Management Strategy, and the Army Modernization Strategy.

Work is performed by the United States (U.S.) Army Research Institute (ARI) for the Behavioral and Social Sciences in Fort Belvoir, VA.

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

	FY 2019	FY 2020	FY 2021
Title: ARI Management/Administrative Actions	1.465	1.479	1.584
Description: Supports the non-Army Management Headquarters Activity (non-AMHA) management and administrative functions. This project provides enduring management and support functions for the execution of ARI's science and technology activities.			
FY 2020 Plans: Providing operation of management, administrative, personnel, budget, and support functions at a level consistent with Army and mission requirements to meet the needs of ARI as an Army Laboratory conducting the Army's personnel, training, leader development, and organizational performance R&D program.			
FY 2021 Plans: Will provide operation of management, administrative, personnel, budget, and support functions at a level consistent with Army and mission requirements to meet the needs of ARI as an Army Science and Technology (STRL), to include emphasis on the hardware and software requirement to build and sustain data analytic capabilities throughout the laboratory.			
FY 2020 to FY 2021 Increase/Decrease Statement: Funding change reflects planned lifecycle of this effort.			
Title: FY 2020 SBIR/STTR Transfer	-	0.071	-

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Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605801A / <i>Programwide Activities</i>	Project (Number/Name) M15 / <i>ARI Mgmt/ADM Act</i>
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2019	FY 2020	FY 2021
Description: Funding transferred in accordance with Title 15 USC ?638			
FY 2020 Plans: Funding transferred in accordance with Title 15 USC ?638			
FY 2020 to FY 2021 Increase/Decrease Statement: Funding transferred in accordance with Title 15 USC ?638			
Accomplishments/Planned Programs Subtotals	1.465	1.550	1.584

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army										Date: February 2020		
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605801A / <i>Programwide Activities</i>				Project (Number/Name) M16 / <i>Standardization Groups</i>			
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
M16: <i>Standardization Groups</i>	-	3.728	4.297	4.340	-	4.340	4.417	4.458	4.505	4.551	0.000	30.296
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This Project supports nine International Technology Centers (formerly known as Standardization Groups) in North America, South America, Asia, and Europe for personnel, travel and overhead costs, leases on buildings, and mandatory permanent change of station.

The mission of the International Technology Centers is to support the United States (U.S.) Army Rationalization, Standardization and Interoperability (RSI) mission around the globe as specified in Army Regulation (AR) 34-1 "Multinational Force Interoperability" and AR 70-41 "International Cooperative Research, Development and Acquisition (ICRDA)". ITCs represent the U.S. Army in their geographic areas of responsibility (AOR) with foreign ministries of defense on ICRDA programs. ITCs also facilitate U.S. Army interaction in their geographic AOR with foreign non-governmental entities, such as foreign private industry and academia.

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

	FY 2019	FY 2020	FY 2021
<p>Title: International Technology Centers Management</p> <p>Description: This activity funds the U.S. Army Rationalization, Standardization, and Interoperability mission conducted by the nine International Technology Centers around the globe. These funds support the infrastructure, personnel and travel requirements to support the mission.</p> <p>FY 2020 Plans: Will represent the U.S. Army's interests in engagements with foreign ministries of defense on International Cooperative Research, Development and Acquisition (RDA) programs. Will facilitate U.S. Army interaction with foreign non-government entities, such as foreign private industry and academia.</p> <p>FY 2021 Plans: Will represent the U.S. Army's interests in engagements with foreign ministries of defense on International Cooperative RDA programs. Will facilitate U.S. Army interaction with foreign non-government entities, such as foreign private industry and academia.</p> <p>FY 2020 to FY 2021 Increase/Decrease Statement: FY21 decrease due to economic adjustment.</p>	3.728	4.205	4.340
<p>Title: FY 2020 SBIR/STTR Transfer</p> <p>Description: Funding transferred in accordance with Title 15 USC ?638</p> <p>FY 2020 Plans:</p>	-	0.092	-

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Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605801A / <i>Programwide Activities</i>	Project (Number/Name) M16 / <i>Standardization Groups</i>
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2019	FY 2020	FY 2021
Funding transferred in accordance with Title 15 USC ?638			
<i>FY 2020 to FY 2021 Increase/Decrease Statement:</i>			
Funding transferred in accordance with Title 15 USC ?638			
Accomplishments/Planned Programs Subtotals	3.728	4.297	4.340

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army										Date: February 2020		
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605801A / <i>Programwide Activities</i>				Project (Number/Name) M23 / <i>US Army Corps of Engineers Base Operations</i>			
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
M23: <i>US Army Corps of Engineers Base Operations</i>	-	0.000	0.000	33.498	-	33.498	34.129	35.142	35.836	35.669	0.000	174.274
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

This is a new start in FY2021.

This Project is a New Start in Fiscal Year 2021 (FY21).

A. Mission Description and Budget Item Justification

This Project provides funding for authorized civilian workforce performing engineer research, development, management and oversight that support the engineer Research, Development, Test, and Evaluation (RDTE) programs at the United States (U.S.) Engineer Research and Development Center (ERDC). This Project supports the non-Army Management Headquarters Activity (non-AMHA) management and administrative functions to enable ERDC to accomplish its research mission and includes activities such as procurement oversight, RDTE programming and budget execution, management control and oversight, security/safety, information management and technology, personnel/manpower execution and oversight, research laboratory/facility management and maintenance, and High Performance Computing Modernization Program (HPCMP) facility operations and management

ERDC research in civil and military engineering, blast and weapons effects, battlespace terrain mapping and characterization, computational prototyping of military platforms, and cold regions science and engineering provides effective non-materiel and materiel solutions to enable the Army to achieve its modernization priorities of Air and Missile Defense, Next Generation Combat Vehicle, Future Vertical Lift, Network, Long Range Precision Fires, and Soldier Lethality.

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

	FY 2019	FY 2020	FY 2021
Title: ERDC Management and Administrative Actions and Other Operational Requirements	-	-	33.498
Description: Supports the non-AMHA management and administrative functions as follows.			
FY 2021 Plans: Will provide operation of management, administrative, personnel, budget, and support functions at a level consistent with Army and mission requirements to meet the needs of ERDC conducting the Army's engineer research and development (R&D) program supporting all six of the Army's Modernization Priorities..			
FY 2020 to FY 2021 Increase/Decrease Statement: Funds realigned from the Operations & Maintenance, Army (OMA) appropriation.			
Accomplishments/Planned Programs Subtotals	-	-	33.498

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army		Date: February 2020
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605801A / Programwide Activities	Project (Number/Name) M23 / US Army Corps of Engineers Base Operations

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

N/A

Remarks

D. Acquisition Strategy

N/A

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

Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605801A / Programwide Activities				Project (Number/Name) M42 / ARDEC Cmd/Ctr Support			
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
M42: ARDEC Cmd/Ctr Support	-	7.318	7.419	7.270	-	7.270	7.470	7.459	7.856	7.856	0.000	52.648
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This Project supports the non-Army Management Headquarters Activity (non-AMHA) functions incident to the local operation and management of the United States (U.S.) Army Combat Capabilities Development Command (CCDC) Armaments Center (AC), Picatinny Arsenal, NJ, not identifiable with specific research and development Projects financed under other Program Elements.

Funds only select, critical, overarching functions that enable the CCDC AC to accomplish its research, development and engineering mission, to include CCDC AC headquarters staff, safety, physical security, anti-terrorism, operations security (OPSEC), information security and intelligence services.

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

	FY 2019	FY 2020	FY 2021
Title: Management Support	7.318	7.419	7.270
Description: CCDC Armaments Center (AC) management / administrative efforts.			
FY 2020 Plans: Will provide management and administrative functions at a level consistent with mission requirements and support needs at he Armaments Research, Development, and Engineering Center (ARDEC).			
FY 2021 Plans: Will provide management and administrative functions at a level consistent with mission requirements and support needs at CCDC AC.			
FY 2020 to FY 2021 Increase/Decrease Statement: FY21 decrease due to economic adjustment.			
Accomplishments/Planned Programs Subtotals	7.318	7.419	7.270

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

N/A

Remarks

D. Acquisition Strategy

N/A

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

Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605801A / Programwide Activities				Project (Number/Name) M44 / CECOM Cmd/Ctr Spt			
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
M44: CECOM Cmd/Ctr Spt	-	4.522	3.819	3.902	-	3.902	3.982	4.801	5.011	5.011	0.000	31.048
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Supports the non-Army Management Headquarters Activity (non-AMHA) functions incident to the local operation and management of the United States (U.S.) Army Combat Capabilities Development Command (CCDC) Command, Control, Communications, Computers, Cyber, Intelligence, Surveillance, and Reconnaissance (C5ISR) Center, located at Aberdeen Proving Ground, MD. These efforts are not identifiable with specific research and development projects financed under other program elements.

Funds only select, critical, overarching functions that enable CCDC C5ISR to accomplish its research, development and engineering mission, to include CCDC C5ISR headquarters staff, resource management, human resources, safety, security, protocol, public affairs, information management, facility management and audit readiness.

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

	FY 2019	FY 2020	FY 2021
Title: Management Support	4.522	3.819	3.902
Description: CCDC Command, Control, Communications, Computers, Cyber Intelligence, Surveillance and Reconnaissance (C5ISR) Center management and administrative efforts.			
FY 2020 Plans: Will provide management and administrative functions at a level consistent with mission requirements and support needs at the Communications-Electronics Research, Development, and Engineering Center (CERDEC).			
FY 2021 Plans: Will provide management and administrative functions at a level consistent with mission requirements and support needs at CCDC C5ISR.			
FY 2020 to FY 2021 Increase/Decrease Statement: FY21 increase due to economic adjustment.			
Accomplishments/Planned Programs Subtotals	4.522	3.819	3.902

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

N/A

Remarks

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

Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (Number/Name)
2040 / 6	PE 0605801A / <i>Programwide Activities</i>	M44 / <i>CECOM Cmd/Ctr Spt</i>

D. Acquisition Strategy

N/A

UNCLASSIFIED

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

Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605801A / Programwide Activities				Project (Number/Name) M46 / AMCOM Cmd/Ctr Spt			
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
M46: AMCOM Cmd/Ctr Spt	-	0.228	3.596	3.432	-	3.432	3.533	3.916	4.093	4.093	0.000	22.891
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This Project supports the non-Army Management Headquarters Activity (non-AMHA) functions incident to the local operation and management of the United States (U.S.) Army Combat Capabilities Development Command (CCDC) Aviation and Missile Center (AvMC), Redstone Arsenal, AL. Such functions are not identifiable with specific research and development Projects financed under other Program Elements.

Minimally funds select, critical, overarching functions in support of CCDC AvMC accomplishing its research, development and engineering mission.

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

	FY 2019	FY 2020	FY 2021
Title: Management Support	0.228	3.596	3.432
Description: CCDC Aviation and Missile Center (AvMC) management and administrative efforts.			
FY 2020 Plans: Will provide management and administrative functions at a level consistent with mission requirements and support needs at AvMC.			
FY 2021 Plans: Will provide management and administrative functions at a level consistent with mission requirements and support needs at CCDC AvMC.			
FY 2020 to FY 2021 Increase/Decrease Statement: FY21 decrease due to economic adjustment.			
Accomplishments/Planned Programs Subtotals	0.228	3.596	3.432

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

N/A

Remarks

D. Acquisition Strategy

N/A

UNCLASSIFIED

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

Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605801A / Programwide Activities				Project (Number/Name) M47 / TACOM Cmd/Ctr Spt			
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
M47: TACOM Cmd/Ctr Spt	-	3.294	3.629	3.704	-	3.704	3.805	3.853	4.084	4.084	0.000	26.453
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This Project supports the non-Army Management Headquarters Activity (non-AMHA) functions incident to the local operation and management of the United States Army Combat Capabilities Development Command (CCDC) Ground Vehicle Systems Center (GVSC), Warren, MI, not identifiable with specific research and development Projects financed under other Program Elements.

Funds only select, critical, overarching management functions that enable CCDC GVSC to accomplish its research, development and engineering mission.

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

	FY 2019	FY 2020	FY 2021
Title: Management Support	3.294	3.629	3.704
Description: CCDC Ground Vehicle Systems Center (GVSC) management and administrative efforts.			
FY 2020 Plans: Will provide management and administrative functions at a level consistent with mission requirements and support needs at CCDC GVSC.			
FY 2021 Plans: Will provide management and administrative functions at a level consistent with mission requirements and support needs at CCDC GVSC.			
FY 2020 to FY 2021 Increase/Decrease Statement: FY21 increase due to economic adjustment.			
Accomplishments/Planned Programs Subtotals	3.294	3.629	3.704

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army										Date: February 2020		
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605801A / <i>Programwide Activities</i>				Project (Number/Name) M55 / <i>Edgewood Chemical Biological Center</i>			
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
M55: <i>Edgewood Chemical Biological Center</i>	-	5.893	3.027	2.611	-	2.611	2.661	3.748	4.166	4.247	0.000	26.353
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This Project supports the non-Army Management Headquarters Activity (non-AMHA) functions incident to the local operation and management of the United States Army Combat Capabilities Development Command (CCDC) Chemical Biological Center (CBC), Aberdeen Proving Ground, MD, not identifiable with specific research and development Projects financed under other Program Elements.

Funds only select, critical, overarching functions that enable CCDC CBC to accomplish its mission to include CCDC CBC headquarter staff, resource management, safety, and surety programs. In addition, this program includes the management and oversight of Army chemical surety operations as directed by Department of Defense (DoD) Instruction 5210.65, "Minimum Security Standards for Safeguarding Chemical Agents".

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

	FY 2019	FY 2020	FY 2021
<p>Title: Management Support</p> <p>Description: CCDC Chemical Biological Center (CBC) management and administrative efforts.</p> <p>FY 2020 Plans: Will provide continued management and administrative functions at a level consistent with mission requirements and support needs at CCDC CBC.</p> <p>FY 2021 Plans: Will provide continued management and administrative functions at a level consistent with mission requirements and support needs at CCDC CBC.</p> <p>FY 2020 to FY 2021 Increase/Decrease Statement: FY21 decrease due to economic adjustment.</p>	5.893	2.951	2.611
<p>Title: FY 2020 SBIR/STTR Transfer</p> <p>Description: Funding transferred in accordance with Title 15 USC ?638</p> <p>FY 2020 Plans: Funding transferred in accordance with Title 15 USC ?638</p> <p>FY 2020 to FY 2021 Increase/Decrease Statement:</p>	-	0.076	-

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army		Date: February 2020
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605801A / <i>Programwide Activities</i>	Project (Number/Name) M55 / <i>Edgewood Chemical Biological Center</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2019	FY 2020	FY 2021
Funding transferred in accordance with Title 15 USC ?638			
Accomplishments/Planned Programs Subtotals	5.893	3.027	2.611

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army										Date: February 2020		
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605801A / <i>Programwide Activities</i>				Project (Number/Name) M58 / <i>SECOM CMD/CTR Spt</i>			
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
M58: <i>SECOM CMD/CTR Spt</i>	-	2.429	2.350	2.232	-	2.232	2.278	2.316	2.365	2.365	0.000	16.335
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This Project supports the non-Army Management Headquarters Activity (non-AMHA) functions incident to the local operation and management of the United States Army Combat Capabilities Development Command (CCDC) Soldier Center (SC), Natick, MA, not identifiable with specific research and development Projects financed under other Program Elements.

Funds only select, critical, overarching functions that enable CCDC SC to accomplish its research, development and engineering mission, to include: Manpower/ Personnel, Intelligence/Security, Operations, Logistics, Training, Resource Management and Headquarter administrative staff.

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

	FY 2019	FY 2020	FY 2021
<p>Title: Management Support</p> <p>Description: CCDC Soldier Center (SC) management and administrative functions.</p> <p>FY 2020 Plans: Will provide continued management and administrative functions at a level consistent with mission requirements and support needs at CCDC SC.</p> <p>FY 2021 Plans: Will provide continued management and administrative functions at a level consistent with mission requirements and support needs at CCDC SC.</p> <p>FY 2020 to FY 2021 Increase/Decrease Statement: FY21 decrease due to economic adjustment.</p>	2.429	2.243	2.232
<p>Title: FY 2020 SBIR/STTR Transfer</p> <p>Description: Funding transferred in accordance with Title 15 USC ?638</p> <p>FY 2020 Plans: Funding transferred in accordance with Title 15 USC ?638</p> <p>FY 2020 to FY 2021 Increase/Decrease Statement: Funding transferred in accordance with Title 15 USC ?638</p>	-	0.107	-
Accomplishments/Planned Programs Subtotals	2.429	2.350	2.232

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army Date: February 2020

Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (Number/Name)
2040 / 6	PE 0605801A / <i>Programwide Activities</i>	M58 / <i>SECOM CMD/CTR Spt</i>

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army										Date: February 2020		
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605801A / <i>Programwide Activities</i>				Project (Number/Name) M76 / <i>Armament Group Support</i>			
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
M76: <i>Armament Group Support</i>	-	2.062	2.186	2.220	-	2.220	2.265	2.278	2.319	2.340	0.000	15.670
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The goal of this Project is to expand worldwide allied standardization and interoperability through cooperative research and development (R&D) and technology sharing per Secretary of Defense guidance and especially in support of the United States (U.S.) Army. This Project partially funds the travel costs and administrative support (studies, analysis, interpretation, equipment, etc.) required to participate in international forums, such as the North Atlantic Treaty Organization (NATO) Army Armaments Group (NAAG), Defense Against Terrorism (DAT) and to pursue new cooperative R&D initiatives and international cooperative agreements such as memoranda of understanding. This Project also includes the United States' share of costs of the NATO Civil Budget, Chapter IX, which funds the NATO Industrial Advisory Group (NIAG) and the Special Fund for Cooperative Planning (U.S. Army is Executive Agent for this NATO bill). This Project also partially funds the Five Power Senior National Representatives, Army (SNR (A)), the Technical Cooperative Program, Bilateral SNR(A)s, and Army armaments working groups with many nations.

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

	FY 2019	FY 2020	FY 2021
Title: Army Scientific Support NATO Army Armaments Group	0.307	0.263	0.318
Description: Funds supported Army subject matter experts to attend scientific and technological exchange, meetings, demonstrations, and/or simulations having military application and mutual benefits to the U.S. and its Allies.			
FY 2020 Plans: Funds support Army Subject Matter Experts (SMEs) to attend scientific and technological exchange, meetings demonstrations, and/or simulations having military application and mutual benefits to the United States and its Allies and will fund 8 different working/capability groups that will meet twice a year.			
FY 2021 Plans: Funds support Army SMEs to attend scientific and technological exchange, meetings demonstrations, and/or simulations having military application and mutual benefits to the United States and its Allies and will fund 8 different working/capability groups that will meet twice a year.			
FY 2020 to FY 2021 Increase/Decrease Statement: The increase is to cover the 2% inflation and additional support to NATO Army Armaments Group meetings for 8 Working Groups.			
Title: Executive Agent	1.755	1.824	1.902
Description: Funds the U.S. share of the Mandatory NATO Civil Budget, Chapter IX (Defense Support Programs). U.S. Army is Executive Agent for this Mandatory NATO bill.			
FY 2020 Plans:			

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army	Date: February 2020
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Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605801A / <i>Programwide Activities</i>	Project (Number/Name) M76 / <i>Armament Group Support</i>
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2019	FY 2020	FY 2021
<p>Funds support the United States share of the NATO Civil Budget, Chapter IX (Defense Support Program). U.S. Army is the Executive Agent for this mandatory NATO Bill.</p> <p>FY 2021 Plans: Funds support the United States share of the NATO Civil Budget, Chapter IX (Defense Support Program). U.S. Army is the Executive Agent for this mandatory NATO Bill.</p> <p>FY 2020 to FY 2021 Increase/Decrease Statement: The increase is to cover the 2% inflation and additional support to NATO Army Armaments Group meetings for 8 Working Groups.</p>			
<p>Title: FY 2020 SBIR/STTR Transfer</p> <p>Description: Funding transferred in accordance with Title 15 USC ?638</p> <p>FY 2020 Plans: Funding transferred in accordance with Title 15 USC ?638</p> <p>FY 2020 to FY 2021 Increase/Decrease Statement: Funding transferred in accordance with Title 15 USC ?638</p>	-	0.099	-
Accomplishments/Planned Programs Subtotals	2.062	2.186	2.220

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

N/A

Remarks

D. Acquisition Strategy

N/A