

**UNCLASSIFIED**

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 0605801A / Programwide Activities							
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
Total Program Element	-	54.383	60.921	58.175	-	58.175	57.559	58.911	61.814	63.874	0.000	415.637
EU9: Army Science Board	-	3.020	3.157	2.250	-	2.250	2.250	2.250	2.250	2.250	0.000	17.427
M02: Med Cmd Spt (Non-AMHA)	-	25.998	26.457	24.052	-	24.052	24.022	24.603	25.059	25.534	0.000	175.725
M15: ARI Mgmt/ADM Act	-	1.437	1.513	1.550	-	1.550	1.585	1.629	1.661	1.679	0.000	11.054
M16: Standardization Groups	-	3.351	3.793	4.297	-	4.297	4.339	4.433	4.475	4.521	0.000	29.209
M42: ARDEC Cmd/Ctr Support	-	4.067	7.318	7.419	-	7.419	7.277	7.477	7.466	7.863	0.000	48.887
M44: CECOM Cmd/Ctr Spt	-	2.388	4.574	3.819	-	3.819	3.906	3.986	4.805	5.016	0.000	28.494
M46: AMCOM Cmd/Ctr Spt	-	0.225	0.228	3.596	-	3.596	3.435	3.536	3.920	4.097	0.000	19.037
M47: TACOM Cmd/Ctr Spt	-	3.300	3.294	3.629	-	3.629	3.707	3.808	3.857	4.088	0.000	25.683
M55: Edgewood Chemical Biological Center	-	6.491	6.035	3.027	-	3.027	2.583	2.643	3.724	4.139	0.000	28.642
M58: SECOM CMD/CTR Spt	-	2.454	2.429	2.350	-	2.350	2.234	2.280	2.318	2.367	0.000	16.432
M76: Armament Group Support	-	1.652	2.123	2.186	-	2.186	2.221	2.266	2.279	2.320	0.000	15.047
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 Research, Development and Engineering Command (RDECOM) Research Development and Engineering Centers, not identifiable with specific research and development projects. This PE also supports the management and operation of multiple, globally-located RDECOM 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).												

**UNCLASSIFIED**

Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Army				Date: March 2019	
Appropriation/Budget Activity		R-1 Program Element (Number/Name)			
2040: Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support		PE 0605801A / Programwide Activities			
B. Program Change Summary (\$ in Millions)	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Previous President's Budget	55.060	60.942	62.163	-	62.163
Current President's Budget	54.383	60.921	58.175	-	58.175
Total Adjustments	-0.677	-0.021	-3.988	-	-3.988
• Congressional General Reductions	-0.013	-0.021			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.664	-			
• Adjustments to Budget Years	-	-	-3.988	-	-3.988

# UNCLASSIFIED

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 0605801A / Programwide Activities				Project (Number/Name) EU9 / Army Science Board			
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
EU9: Army Science Board	-	3.020	3.157	2.250	-	2.250	2.250	2.250	2.250	2.250	0.000	17.427
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)

	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>
<b>Title:</b> Army Science Board (ASB)	3.020	3.056	2.250
<b>Description:</b> 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			

# UNCLASSIFIED

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 0605801A / Programwide Activities	Project (Number/Name) EU9 / Army Science Board	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2018	FY 2019	FY 2020
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.				
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 C3, situational awareness overmatch, and electronic warfare.				
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.				
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.				
FY 2019 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.				
Plans for the ASB Winter Plenary for Fiscal Year 2019 list Lawrence Livermore National Laboratory in Livermore, California as the Plenary location.				
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.				
FY 2019 to FY 2020 Increase/Decrease Statement: Funding change in support of the Army's modernization efforts.				
Title: FY2019 SBIR/STTR Transfer		-	0.101	-
Description: FY2019 SBIR/STTR Transfer				

**UNCLASSIFIED**

<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 0605801A / <i>Programwide Activities</i>	<b>Project (Number/Name)</b> EU9 / <i>Army Science Board</i>	
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2018</b>	<b>FY 2019</b>
<b><i>FY 2019 Plans:</i></b> FY2019 SBIR/STTR Transfer			
<b><i>FY 2019 to FY 2020 Increase/Decrease Statement:</i></b> FY2019 SBIR/STTR Transfer			
<b>Accomplishments/Planned Programs Subtotals</b>		3.020	3.157
<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			

**UNCLASSIFIED**

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 0605801A / Programwide Activities				Project (Number/Name) M02 / Med Cmd Spt (Non-AMHA)			
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
M02: Med Cmd Spt (Non-AMHA)	-	25.998	26.457	24.052	-	24.052	24.022	24.603	25.059	25.534	0.000	175.725
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 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)**

	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>
<b>Title:</b> Civilian Authorized Salaries and other operational requirements	25.998	26.223	24.052
<b>Description:</b> Funding is provided to the U.S. Army Medical Research and Materiel Command (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.			
<b>FY 2019 Plans:</b> Fund authorized civilian salaries and associated expenses (supplies, equipment, travel, etc) at USAMRMC and USAMRAA. Also, 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.			
<b>FY 2020 Plans:</b>			

# UNCLASSIFIED

<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 0605801A / <i>Programwide Activities</i>	<b>Project (Number/Name)</b> M02 / <i>Med Cmd Spt (Non-AMHA)</i>	
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2018</b>	<b>FY 2019</b>
<p>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.</p> <p><b><i>FY 2019 to FY 2020 Increase/Decrease Statement:</i></b> Funding levels are designed to align program requirements with Army modernization priorities in support of the National Defense Strategy.</p>			
<p><b><i>Title:</i></b> FY2019 SBIR/STTR Transfer</p> <p><b><i>Description:</i></b> FY2019 SBIR/STTR Transfer</p> <p><b><i>FY 2019 Plans:</i></b> FY2019 SBIR/STTR Transfer</p> <p><b><i>FY 2019 to FY 2020 Increase/Decrease Statement:</i></b> FY2019 SBIR/STTR Transfer</p>		-	0.234
<b>Accomplishments/Planned Programs Subtotals</b>		25.998	26.457
<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			

## UNCLASSIFIED

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 0605801A / Programwide Activities				Project (Number/Name) M15 / ARI Mgmt/ADM Act			
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
M15: ARI Mgmt/ADM Act	-	1.437	1.513	1.550	-	1.550	1.585	1.629	1.661	1.679	0.000	11.054
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

The United States (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-AMHA (Army Management Headquarters Activity) management and administrative functions to enable ARI to accomplish its research mission and includes activities such as budget execution, procurement oversight, Research Development Test & Evaluation (RDTE) 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.

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

	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>
<b>Title:</b> ARI Management/Administrative Actions	1.437	1.465	1.550
<b>Description:</b> This effort supports the non-AMHA management and administrative functions to enable ARI to accomplish its research mission and includes activities such as personnel/manpower execution and oversight.			
<b>FY 2019 Plans:</b> 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 Laboratory conducting the Army's personnel, training, leader development, and organizational performance R&D program.			
<b>FY 2020 Plans:</b> 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 Laboratory conducting the Army's personnel, training, leader development, and organizational performance R&D program.			
<b>FY 2019 to FY 2020 Increase/Decrease Statement:</b> Increase due to inflation.			
<b>Title:</b> FY2019 SBIR/STTR Transfer	-	0.048	-
<b>Description:</b> FY2019 SBIR/STTR Transfer			
<b>FY 2019 Plans:</b>			



**UNCLASSIFIED**

<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 0605801A / <i>Programwide Activities</i>	<b>Project (Number/Name)</b> M15 / <i>ARI Mgmt/ADM Act</i>	
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2018</b>	<b>FY 2019</b>
FY2019 SBIR/STTR Transfer			
<b><i>FY 2019 to FY 2020 Increase/Decrease Statement:</i></b> FY2019 SBIR/STTR Transfer			
<b>Accomplishments/Planned Programs Subtotals</b>		1.437	1.513
<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			

**UNCLASSIFIED**

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 0605801A / <i>Programwide Activities</i>				Project (Number/Name) M16 / <i>Standardization Groups</i>			
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
M16: <i>Standardization Groups</i>	-	3.351	3.793	4.297	-	4.297	4.339	4.433	4.475	4.521	0.000	29.209
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)**

	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>
<b>Title:</b> International Technology Centers Management  <b>Description:</b> 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.  <b>FY 2019 Plans:</b> Represent the U.S. Army's interests in engagements with foreign ministries of defense on International Cooperative Research, Development and Acquisition (RDA) programs. Facilitate U.S. Army interaction with foreign non-government entities, such as foreign private industry and academia.  <b>FY 2020 Plans:</b> 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.  <b>FY 2019 to FY 2020 Increase/Decrease Statement:</b> Funding change due to economic adjustment.	3.351	3.728	4.297
<b>Title:</b> FY2019 SBIR/STTR Transfer  <b>Description:</b> FY2019 SBIR/STTR Transfer  <b>FY 2019 Plans:</b>	-	0.065	-

**UNCLASSIFIED**

<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 0605801A / <i>Programwide Activities</i>	<b>Project (Number/Name)</b> M16 / <i>Standardization Groups</i>	
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2018</b>	<b>FY 2019</b>
FY2019 SBIR/STTR Transfer			
<b><i>FY 2019 to FY 2020 Increase/Decrease Statement:</i></b> FY2019 SBIR/STTR Transfer			
<b>Accomplishments/Planned Programs Subtotals</b>		3.351	3.793
<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			

**UNCLASSIFIED**

<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 0605801A / <i>Programwide Activities</i>				<b>Project (Number/Name)</b> M42 / <i>ARDEC Cmd/Ctr Support</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>
M42: ARDEC Cmd/Ctr Support	-	4.067	7.318	7.419	-	7.419	7.277	7.477	7.466	7.863	0.000	48.887
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

This Project supports the Non-AMHA (Army Management Headquarters Activity) functions incident to the local operation and management of the United States (U.S.) Army Armament Research, Development and Engineering Center (ARDEC), 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 ARDEC to accomplish its research, development and engineering mission, to include ARDEC Headquarters staff, safety, physical security, anti-terrorism, operations security (OPSEC), information security and intelligence services.

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>
<b>Title:</b> Management Support <b>Description:</b> ARDEC management / administrative efforts.  <b>FY 2019 Plans:</b> Provide management and administrative functions at a level consistent with mission requirements and support needs at ARDEC. <b>FY 2020 Plans:</b> Will provide management and administrative functions at a level consistent with mission requirements and support needs at ARDEC. <b>FY 2019 to FY 2020 Increase/Decrease Statement:</b> Funding change due to economic adjustments.	4.067	7.318	7.419
<b>Accomplishments/Planned Programs Subtotals</b>	4.067	7.318	7.419

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

**Remarks**

**D. Acquisition Strategy**  
N/A

**UNCLASSIFIED**

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 0605801A / Programwide Activities	Project (Number/Name) M42 / ARDEC Cmd/Ctr Support
<b>E. Performance Metrics</b> N/A		

**UNCLASSIFIED**

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 0605801A / Programwide Activities				Project (Number/Name) M44 / CECOM Cmd/Ctr Spt			
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
M44: CECOM Cmd/Ctr Spt	-	2.388	4.574	3.819	-	3.819	3.906	3.986	4.805	5.016	0.000	28.494
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
A. Mission Description and Budget Item Justification												
Supports the Non-AMHA (Non-Army Management Headquarters Activity) functions incident to the local operation and management of the U.S. Army Communications-Electronics Research, Development and Engineering Center (CERDEC), 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 CERDEC to accomplish its research, development and engineering mission, to include CERDEC 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 2018	FY 2019	FY 2020	
Title: Management Support									2.388	4.522	3.819	
Description: CERDEC management and administrative efforts.												
FY 2019 Plans: Provide management and administrative functions at a level consistent with mission requirements and support needs at CERDEC.												
FY 2020 Plans: Will provide management and administrative functions at a level consistent with mission requirements and support needs at CERDEC.												
FY 2019 to FY 2020 Increase/Decrease Statement: Funding change due to economic adjustment.												
Title: FY2019 SBIR/STTR Transfer									-	0.052	-	
Description: FY2019 SBIR/STTR Transfer												
FY 2019 Plans: FY2019 SBIR/STTR Transfer												
FY 2019 to FY 2020 Increase/Decrease Statement: FY2019 SBIR/STTR Transfer												
Accomplishments/Planned Programs Subtotals									2.388	4.574	3.819	

**UNCLASSIFIED**

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 0605801A / Programwide Activities	Project (Number/Name) M44 / CECOM Cmd/Ctr Spt
C. Other Program Funding Summary (\$ in Millions) N/A		
Remarks		
D. Acquisition Strategy N/A		
E. Performance Metrics N/A		

**UNCLASSIFIED**

<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 0605801A / <i>Programwide Activities</i>				<b>Project (Number/Name)</b> M46 / <i>AMCOM Cmd/Ctr Spt</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>
M46: <i>AMCOM Cmd/Ctr Spt</i>	-	0.225	0.228	3.596	-	3.596	3.435	3.536	3.920	4.097	0.000	19.037
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**Note**  
Beginning in Fiscal Year (FY) 2017, portions of Project M46 (Anti-Tamper effort) were realigned to Program Element (PE) 0602705A (Electronics and Electronic Devices) / Project H94 (Elec & Electronic Dev) and PE 0605024A (Anti-Tamper Technology Support) / Project FB1 (Anti-Tamper Technology Support).

**A. Mission Description and Budget Item Justification**  
This Project supports Non-AMHA (Army Management Headquarters Activity) functions incident to the local operation and management of the U.S. Army Aviation and Missile Research, Development and Engineering Center (AMRDEC), 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 AMRDEC accomplishing its research, development and engineering mission.

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>
<b>Title:</b> Management Support	0.225	0.228	3.596
<b>Description:</b> AMRDEC management and administrative efforts.			
<b>FY 2019 Plans:</b> Provide management and administrative functions at a level consistent with mission requirements and support needs at AMRDEC.			
<b>FY 2020 Plans:</b> Will provide management and administrative functions at a level consistent with mission requirements and support needs at AMRDEC.			
<b>FY 2019 to FY 2020 Increase/Decrease Statement:</b> FY20 increase realigned from other RDECOM non-AMHA projects within this Program Element. Not a mission change.			
<b>Accomplishments/Planned Programs Subtotals</b>	0.225	0.228	3.596

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

**Remarks**



UNCLASSIFIED

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 0605801A / Programwide Activities	Project (Number/Name) M46 / AMCOM Cmd/Ctr Spt
<div>D. Acquisition Strategy</div> <div>N/A</div> <div>E. Performance Metrics</div> <div>N/A</div>		

**UNCLASSIFIED**

<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 0605801A / <i>Programwide Activities</i>				<b>Project (Number/Name)</b> M47 / <i>TACOM Cmd/Ctr Spt</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>
M47: <i>TACOM Cmd/Ctr Spt</i>	-	3.300	3.294	3.629	-	3.629	3.707	3.808	3.857	4.088	0.000	25.683
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**A. Mission Description and Budget Item Justification**  
 This Project supports the Non-AMHA (Army Management Headquarters Activity) functions incident to the local operation and management of the United States (U.S.) Army Tank and Automotive Research, Development and Engineering Center (TARDEC), Warren, MI, not identifiable with specific research and development Projects financed under other Program Elements.  
  
 Funds only select, critical, overarching management functions that enable TARDEC to accomplish its research, development and engineering mission.

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>
<b>Title:</b> Management Support	3.300	3.294	3.629
<b>Description:</b> TARDEC management and administrative efforts.			
<b>FY 2019 Plans:</b> Provide management and administrative functions at a level consistent with mission requirements and support needs at TARDEC.			
<b>FY 2020 Plans:</b> Will provide management and administrative functions at a level consistent with mission requirements and support needs at TARDEC.			
<b>FY 2019 to FY 2020 Increase/Decrease Statement:</b> Funding change due to economic adjustment.			
<b>Accomplishments/Planned Programs Subtotals</b>	3.300	3.294	3.629

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

**Remarks**

**D. Acquisition Strategy**  
 N/A

**E. Performance Metrics**  
 N/A

**UNCLASSIFIED**

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 0605801A / Programwide Activities				Project (Number/Name) M55 / Edgewood Chemical Biological 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
M55: Edgewood Chemical Biological Center	-	6.491	6.035	3.027	-	3.027	2.583	2.643	3.724	4.139	0.000	28.642
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

This Project supports the Non-AMHA (Army Management Headquarters Activity) functions incident to the local operation and management of the United States (U.S.) Army Edgewood Chemical Biological Center (ECBC), 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 ECBC to accomplish its mission to include the ECBC 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 DoD Instruction 5210.65, "Minimum Security Standards for Safeguarding Chemical Agents".

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

	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>
<b>Title:</b> Management Support  <b>Description:</b> ECBC management and administrative efforts.  <b>FY 2019 Plans:</b> Provide continued management and administrative functions at a level consistent with mission requirements and support needs at ECBC.  <b>FY 2020 Plans:</b> Will provide continued management and administrative functions at a level consistent with mission requirements and support needs at ECBC.  <b>FY 2019 to FY 2020 Increase/Decrease Statement:</b> FY20 decrease realigned to other RDECOM non-AMHA efforts within this Program Element. Not a mission change.	6.491	5.893	3.027
<b>Title:</b> FY2019 SBIR/STTR Transfer  <b>Description:</b> FY2019 SBIR/STTR Transfer  <b>FY 2019 Plans:</b> FY2019 SBIR/STTR Transfer  <b>FY 2019 to FY 2020 Increase/Decrease Statement:</b>	-	0.142	-

**UNCLASSIFIED**

<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 0605801A / <i>Programwide Activities</i>	<b>Project (Number/Name)</b> M55 / <i>Edgewood Chemical Biological Center</i>		
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>
FY2019 SBIR/STTR Transfer				
<b>Accomplishments/Planned Programs Subtotals</b>		6.491	6.035	3.027
<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				

**UNCLASSIFIED**

<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 0605801A / <i>Programwide Activities</i>				<b>Project (Number/Name)</b> M58 / <i>SECOM CMD/CTR Spt</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>
M58: <i>SECOM CMD/CTR Spt</i>	-	2.454	2.429	2.350	-	2.350	2.234	2.280	2.318	2.367	0.000	16.432
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

This Project supports the Non-AMHA (Army Management Headquarters Activity) functions incident to the local operation and management of the United States (U.S.) Army Natick Soldier Research, Development and Engineering Center (NSRDEC), Natick, MA, not identifiable with specific research and development Projects financed under other Program Elements.

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

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>
<b>Title:</b> Management Support  <b>Description:</b> NSRDEC management and administrative functions.  <b>FY 2019 Plans:</b> Provide continued management and administrative functions at a level consistent with mission requirements and support needs at NSRDEC.  <b>FY 2020 Plans:</b> Will provide continued management and administrative functions at a level consistent with mission requirements and support needs at NSRDEC.  <b>FY 2019 to FY 2020 Increase/Decrease Statement:</b> Funding change due to adjustment of economic assumptions, e.g. inflation rate.	2.454	2.429	2.350
<b>Accomplishments/Planned Programs Subtotals</b>	2.454	2.429	2.350

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

**Remarks**

**D. Acquisition Strategy**  
N/A

UNCLASSIFIED

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 0605801A / Programwide Activities	Project (Number/Name) M58 / SECOM CMD/CTR Spt
E. Performance Metrics N/A		

**UNCLASSIFIED**

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 0605801A / Programwide Activities				Project (Number/Name) M76 / Armament Group Support			
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
M76: Armament Group Support	-	1.652	2.123	2.186	-	2.186	2.221	2.266	2.279	2.320	0.000	15.047
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 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)**

	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>
<b>Title:</b> Army Scientific Support NATO Army Armaments Group (NAAG)  <b>Description:</b> 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.  <b>FY 2019 Plans:</b> Funds will support NAAG Army Subject Matter Experts' attendance at scientific and technological exchange, meetings, demonstrations, and/or simulations having military application and mutual benefits to the United States and its Allies. FY19 funding will continue to fund different working/capability groups.  <b>FY 2020 Plans:</b> FY20 Base funded Requirements of \$313K will 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. FY 20 will fund 8 different working/capability groups that will meet twice a year.  <b>FY 2019 to FY 2020 Increase/Decrease Statement:</b> The increase is to cover the 2% inflations and additional support to NATO Army Armaments Group meetings for 8 Working Groups.	0.199	0.307	0.313
<b>Title:</b> Executive Agent  <b>Description:</b> 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.	1.453	1.755	1.873

## UNCLASSIFIED

<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 0605801A / <i>Programwide Activities</i>	<b>Project (Number/Name)</b> M76 / <i>Armament Group Support</i>	
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2018</b>	<b>FY 2019</b>
<p><b><i>FY 2019 Plans:</i></b> Will fund the United States' share of the NATO Civil Budget, Chapter IX (Defense Support Programs). U.S. Army is Executive Agent for this NATO bill.</p> <p><b><i>FY 2020 Plans:</i></b> FY20 Base funded Requirements of \$1,873K will fund 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><b><i>FY 2019 to FY 2020 Increase/Decrease Statement:</i></b> The increase is to cover the Euro exchange rate and the increase of the share of the NATO Bill.</p>			
<p><b><i>Title:</i></b> FY2019 SBIR/STTR Transfer</p> <p><b><i>Description:</i></b> FY2019 SBIR/STTR Transfer</p> <p><b><i>FY 2019 Plans:</i></b> FY2019 SBIR/STTR Transfer</p> <p><b><i>FY 2019 to FY 2020 Increase/Decrease Statement:</i></b> FY2019 SBIR/STTR Transfer</p>		-	0.061
<b>Accomplishments/Planned Programs Subtotals</b>		1.652	2.123
<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			