Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Army

Date: February 2018

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

2040: Research, Development, Test & Evaluation, Army I BA 2: Applied

PE 0602308A I Advanced Concepts and Simulation

Research

COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
Total Program Element	-	29.767	28.650	28.500	-	28.500	28.765	34.334	36.313	36.189	0.000	222.518
C90: Advanced Distributed Simulation	-	19.940	23.223	26.869	-	26.869	27.102	31.365	30.655	29.127	0.000	188.281
D02: Modeling & Simulation For Training And Design	-	6.827	5.427	1.631	-	1.631	1.663	2.969	5.658	7.062	0.000	31.237
D14: Advanced Modeling and Simulation Initiatives (CA)	-	3.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	3.000

A. Mission Description and Budget Item Justification

This Program Element (PE) investigates and designs enabling technologies to create effective training capabilities for the Warfighter and supports the underpinning technologies and understanding to establish architecture standards and interfaces necessary for realizing the Army vision of creating a realistic synthetic "electronic battlefield" environment for use across the spectrum of doctrine, organization, training, leader development, materiel, personnel, and facilities (DOTLM-PF). Project C90 focuses on advancing component technologies required for real time interactive linking within and among constructive, virtual, and live simulation and training by refining technologies for advanced distributed interactive simulation. Project D02 further develops concepts for immersive training and learning environments with the Institute for Creative Technologies (ICT) at the University of Southern California, Los Angeles, California.

Work in this PE complements and is fully coordinated with PE 0601104A (University and Industry Research Centers), PE 0602785A (Manpower/Personnel/Training Technology), PE 0602786A (Clothing & Equipment Technology), PE 0602787A (Medical Technology), PE 0603001A (Future Warrior Technology Integration), PE 0603007A (Manpower, Personnel and Training Advance Technology), PE 0603015A (Next Generation Training & Simulation Systems) and PE 0603710A (Night Vision Advanced Technology).

The cited work is consistent with the Assistant Secretary of Defense for Research and Engineering Science and Technology priority focus areas and the Army Modernization Strategy.

Work in this PE is performed by the Army Research, Development, and Engineering Command (RDECOM).

PE 0602308A: Advanced Concepts and Simulation

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Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Army **Date:** February 2018 **Appropriation/Budget Activity** R-1 Program Element (Number/Name) 2040: Research, Development, Test & Evaluation, Army I BA 2: Applied PE 0602308A I Advanced Concepts and Simulation

Research

B. Program Change Summary (\$ in Millions)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Previous President's Budget	27.688	28.650	35.100	-	35.100
Current President's Budget	29.767	28.650	28.500	-	28.500
Total Adjustments	2.079	0.000	-6.600	-	-6.600
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	3.000	-			
 Congressional Directed Transfers 	-	-			
 Reprogrammings 	-	-			
SBIR/STTR Transfer	-0.910	-			
 Adjustments to Budget Years 	-	-	-6.600	-	-6.600
• FFRDC	-0.011	-	-	-	-

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: D14: Advanced Modeling and Simulation Initiatives (CA)

Congressional Add: Congressional Program Increase

	FY 2017	FY 2018
	3.000	-
Congressional Add Subtotals for Project: D14	3.000	-
Congressional Add Totals for all Projects	3.000	-
•	·	

Change Summary Explanation

Congressional increase in D14 Advanced Modeling and Simulation Initiatives.

The FY19 funding reduction occurred to support funding shifts that impact higher priority efforts that align to senior leader priorities for Soldier Lethality and C3I/ Network.

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Army										Date: February 2018			
Appropriation/Budget Activity 2040 / 2					_	8A I Advan	t (Number/ ced Concep	•	• `	roject (Number/Name) 90 / Advanced Distributed Simulation			
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost	
C90: Advanced Distributed Simulation	-	19.940	23.223	26.869	-	26.869	27.102	31.365	30.655	29.127	0.000	188.281	

A. Mission Description and Budget Item Justification

This Project investigates and designs enabling technologies for advancing distributed simulation and training (live, virtual and constructive) environments. This includes networking of models representing complex human behavior, complex data interchange between simulations, synthetic natural environments, medical training simulations, ground platform training, adaptive tutoring for individuals and teams, and collaborative training. The Project researches the ability to create a virtual representation of combined arms environments, with the Warfighter-in-the-loop that constructive (event driven) simulations cannot simulate.

Efforts in this Project support the Army Science and Technology Soldier portfolio.

The cited work is consistent with the Assistant Secretary of Defense for Research and Engineering priority focus areas and the Army Modernization Strategy.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2017	FY 2018	FY 2019
Title: Live Virtual Constructive Sim & Training	6.396	-	-
Description: This effort develops and investigates LVC training technologies (tools and methods) to inform an interactive, seamless training environment. Live training refers to personnel and systems performing an exercise mission on real terrain; virtual training refers to personnel using simulators; and constructive training refers to computer based models representing real world behaviors that introduce a wider control of virtual forces. This effort is coordinated with and complements Program Element (PE) 0603015A/Project S29. In Fiscal Year (FY) 18 this effort has been refocused and renamed to Synthetic Natural Environments.			
Title: Live and Medical Training Technologies	6.600	6.738	5.965
Description: Included in this effort will be the development of new medical training simulations to train medical personnel across all levels of care and the development of live training technology that can be applied across all military levels and training environments.			
FY 2018 Plans: Mature sensor and communication components of laser design for the next generation MILES in preparation to conduct experimentation. This research improves the soldier?s live training performance for readiness at Army home station and Combat Training Centers. Investigate accurate representation of simulation and training environments depicting the entire military medical			

PE 0602308A: Advanced Concepts and Simulation

Army

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Army	Date: F	ebruary 2018	3		
Appropriation/Budget Activity 2040 / 2		Project (Number/Name) C90 / Advanced Distributed Simulation			
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2017	FY 2018	FY 2019	
population to include, female, pediatric, and elderly, with simulated tiss healing, as well as improving anatomical accuracy by modeling repres		I			
FY 2019 Plans: Will investigate components such as artificial intelligence algorithms to high resolution simulated three dimension terrain and weapon orientat in live training technologies will support the Army?s capability need to realistically represent the effects of current weapons systems during for develop capabilities to improve the accuracy and fidelity of medical sin and subtle tissue behaviors necessary for higher levels of medical under environments that accurately represent the operational environment be	tion to enhance live training technology research; resear provide live simulations that accurately replicate and proce-on-force and force-on-target training; design and mulations for training; investigate and characterize gross derstanding; investigate and develop medical simulation	ch			
FY 2018 to FY 2019 Increase/Decrease Statement: Reduction in funding as sensor and communication components for th Title: Adaptive Tutoring	ne next generation MILES has matured.	5.744	5.495	2.93	
Description: This effort investigates adaptive tutoring and immersive kinetic and non-kinetic training for individuals and teams.	learning environments with social simulations to conduc		3.493	2.90	
FY 2018 Plans: Conduct experiments to identify opportunities to enhance the capability the goal of reducing authoring times and allowing non-computer progration mature and operationalize team tutoring concepts for the Synthetic interaction between the team and the computer-based tutor.	ammers the capability to generate sophisticated ITSs; b				
FY 2019 Plans: Will extend models for individual learners, instructional management, a adaptive training for individuals to enable future adaptive training; valid training; expand concepts for authoring tools, team modeling, team instead (unit level) tutoring systems; mature training strategies for authoring to reinforce experiential learning of autonomous systems via machine	date a base authoring concept for individual adaptive struction, and Army team domains to support development on the software systems; develop recommended sys				
FY 2018 to FY 2019 Increase/Decrease Statement: Reduction in team tutoring efforts in order to support the acceleration of	of senior leader priorities for Synthetic Training Environr	nent.			
Title: Soldier System Architecture		0.600	1.301		

PE 0602308A: Advanced Concepts and Simulation Army

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	Project (Number/N				
PE 0602308A I Advanced Concepts and			ulation		
	Project (Number/Name) C90 / Advanced Distributed Simulation				
	FY 2017	FY 2018	FY 2019		
-materiel interactions supporting training effectiveness, advance computational strategies to enable the integration a ldier as a System simulation. This effort is coordinated with	and				
neering Architecture (SSEA) use case analysis; conduct SSEA operational scenario; and develop additional					
	0.600	1.301	1.40		
s and models will enable the evaluation of the training impact onomous systems and technologies on individual, crew, and complex, intelligent, and self-adaptive far exceed those of This is compounded by parallel increases in autonomy and	ts				
	Idier as a System simulation. This effort is coordinated with PE 0602787/Project 869, PE 0603001/J50, and PE 0603710 ging emerging Soldier Resilience and Effects of Stress on ineering Architecture (SSEA) use case analysis; conduct t SSEA operational scenario; and develop additional engineering Processes as recommended in the SSEA (M&S)	present the Soldier as a System considering physiological r-materiel interactions supporting training effectiveness, advance computational strategies to enable the integration and Ildier as a System simulation. This effort is coordinated with and PE 0602787/Project 869, PE 0603001/J50, and PE 0603710/ ging emerging Soldier Resilience and Effects of Stress on ineering Architecture (SSEA) use case analysis; conduct tt SSEA operational scenario; and develop additional engineering Processes as recommended in the SSEA (M&S) 0.600 ditectures, tools, and models that can represent current and so and models will enable the evaluation of the training impacts conomous systems and technologies on individual, crew, and complex, intelligent, and self-adaptive far exceed those of This is compounded by parallel increases in autonomy and	present the Soldier as a System considering physiological r-materiel interactions supporting training effectiveness, advance computational strategies to enable the integration and oldier as a System simulation. This effort is coordinated with and PE 0602787/Project 869, PE 0603001/J50, and PE 0603710/ ging emerging Soldier Resilience and Effects of Stress on ineering Architecture (SSEA) use case analysis; conduct to SSEA operational scenario; and develop additional engineering Processes as recommended in the SSEA (M&S) 0.600 1.301 intectures, tools, and models that can represent current and as and models will enable the evaluation of the training impacts commonus systems and technologies on individual, crew, and complex, intelligent, and self-adaptive far exceed those of This is compounded by parallel increases in autonomy and		

PE 0602308A: Advanced Concepts and Simulation Army

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Army		Date: F	ebruary 2018			
Appropriation/Budget Activity 2040 / 2	R-1 Program Element (Number/Name) PE 0602308A I Advanced Concepts and Simulation		ject (Number/Name) Of Advanced Distributed Simulation			
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2017	FY 2018	FY 2019	
Will investigate methods and techniques to optimize individual and to for autonomous systems; will extend development of techniques to teams using complex, adaptive, and intelligent autonomous systems	improve recommender systems that will maximize training	,				
FY 2018 to FY 2019 Increase/Decrease Statement: Funding increase in methods and techniques to optimize individual synthetic Training Environment.	and team training to support senior leader priorities for					
Title: Rapid Soldier Capability Enhancement - Training			-	2.184	2.17	
Description: Research the relationship of augmentation agents and augmentation agents (perceptual, cognitive, and/or physical), used performance, resilience, and training during operationally relevant to and employing augmentation agents. Implementation of guidelines coordinated with PE 0602716A/Project H70.	either individually or coupled as a system of agents, on Sasks. Development of guidelines and models for designir	Soldier Ig				
FY 2018 Plans: Investigate augmentation application, including timing, amplitude, at to understand functionality in varied and complex environments. Me in order to predict capability enhancement; investigate individual variagents. Explore the extension of methods and metrics developed for performance while using a system of augmentation agents.	odel performance and adaptation to augmentation agents riability and short and long term adaptation to augmentat	ion				
FY 2019 Plans: Will explore augmentation technologies with potentially broad applic Soldier performance and reduce time-to-proficiency in mounted and for integrating advanced metrics of factors related to individual varia augmentation techniques in complex training applications.	dismounted Soldier tasks; will investigate novel approach					
FY 2018 to FY 2019 Increase/Decrease Statement: Funding reduction to support other research investments supporting	g senior leader priorities for Synthetic Training Environme	ent.				
Title: Synthetic Natural Environments			-	6.204	2.26	
Description: This effort investigates and develops tools and methoderrain and environmental data to support Training Aid Devices (TAI coordinated with and complements PE 0603015A/Project S28.						

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Army			Date: F	ebruary 2018	3	
Appropriation/Budget Activity 2040 / 2	R-1 Program Element (Number/Name) PE 0602308A I Advanced Concepts and Simulation	Project (Number/Name) C90 / Advanced Distributed Simulation				
B. Accomplishments/Planned Programs (\$ in Millions)		I	FY 2017	FY 2018	FY 2019	
FY 2018 Plans: Investigate physics-based dynamic algorithms and terrain compons One World Terrain representation. This research provides environted rehearsal for soldiers at the point of need.						
FY 2019 Plans: Will research in synthetic natural environments supports the Army digitize, store, and access detailed terrain information from a single level to global level views of the world. This is part of the Army future representation; will develop dynamic terrain /updates that dynamic real world events; will investigate data exploitation and advanced realistic human interactions; will research advanced synthetic generalistic human interactions.	e correlated terrain database that is easily scalable from sure synthetic training environment and One World Terrain cally change the synthetic environment based on simulate rendering techniques for geospatial data at runtime to process.	d and duce				
FY 2018 to FY 2019 Increase/Decrease Statement: Reduction in funding that supports rendering techniques for geosp Training Environment efforts.	patial data in order to support the acceleration of Synthetic					
Title: Mixed Reality Research			-	-	4.14	
Description: This effort investigates and develops enabling virtua support future training environments and U.S Army senior leader in Unmanned Teaming capabilities. These technologies support the performance in complex urban environments. Identification of future modeling and simulation enablers for megacities.	nitiatives in Decide Faster, Asymmetric Vision, and Manne Army capability needs for enhanced dismounted Soldier					
FY 2019 Plans: Will examine how interfaces for virtual training systems affect user performance outcomes; will examine how different interfaces for vilive and virtual training to improve training transfer from virtual to li architecture, and technologies to enable a manned/unmanned tea	irtual training systems can be used to more seamlessly intive; will investigate and design the synthetic framework,					
FY 2018 to FY 2019 Increase/Decrease Statement: Investment supports senior leader priorities for Soldier Lethality and	nd Synthetic Training Environment.					
Title: Cyber for Training Simulations			-	-	2.80	

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Army			Date: F	ebruary 2018	3
Appropriation/Budget Activity 2040 / 2	R-1 Program Element (Number/Name) PE 0602308A I Advanced Concepts and Simulation	Project (No C90 / Adva	nulation		
B. Accomplishments/Planned Programs (\$ in Millions)		FY	2017	FY 2018	FY 2019
Description: This effort investigates and develops analytical capal human behavior related to Cyber Electromagnetic Activities (CEMA		t			
FY 2019 Plans: Will investigate analytical capabilities and methodologies for generatheory to describe CEMA-related human attributes (e.g., intent, posenvironment integrating new human models with existing and development	sture, and capability); and will design initial simulation	gical			
FY 2018 to FY 2019 Increase/Decrease Statement: Investment supports senior leader priorities for Soldier Lethality and	d Synthetic Training Environment.				
Title: Artificial Intelligence			-	-	1.50
Description: This effort investigates artificial intelligence technique maximize and accelerate Soldier learning in future simulation and to for joint human/intelligent agent learning and decision making.		ods			
FY 2019 Plans: Will investigate capabilities for data mining to better predict individu training; and design initial capabilities for identifying appropriate traintelligent training technologies.					
FY 2018 to FY 2019 Increase/Decrease Statement: Investment supports senior leader priorities for Soldier Lethality an	d Synthetic Training Environment.				
Title: Synthetic Training Environment Acceleration			-	-	3.68
Description: This effort designs and develops technologies that w enable a Synthetic Training Environment which is a single, intercor ASCC can train in the most appropriate domain - live, virtual, const	nnected training system in which units from squad through				
FY 2019 Plans: Will mature AI representation of simulated forces to model relevant entity scalability and increase concurrent role-players to enable syr of high fidelity synthetic natural environment data in support of the requirement; determine techniques to automate the attribution of te features utilizing point cloud, texture, crowd-sourced and other emergence.	nthetic collective training; investigate the automated gener Army?s future synthetic training environment global terrain errain, procedurally extract building extents and apply surfa	ration n ace			

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Exhibit R-2A, RDT&E Project Justification: PB 2019 A	Date: February 2018						
Appropriation/Budget Activity 2040 / 2	R-1 Program Element (Number/Name) PE 0602308A I Advanced Concepts and Simulation		Project (Number/Name) C90 I Advanced Distributed Simulation				
B. Accomplishments/Planned Programs (\$ in Millions	•	41 4: -	FY 2017	FY 2018	FY 2019		
environment.	Terrain (cultural attributes, infrastructure, social media) in the syn	itnetic					

FY 2018 to FY 2019 Increase/Decrease Statement:

Effort will support the acceleration of Synthetic Training Environment efforts in support of senior leader priorities for Soldier Lethality.

Accomplishments/Planned Programs Subtotals 19.940 23.223

26.869

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

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

N/A

Exhibit R-2A, RDT&E Project Justification: PB 2019 Army										Date: February 2018			
Appropriation/Budget Activity 2040 / 2					_)8A <i>I Advan</i>	t (Number/ ced Concep	,	• `	ect (Number/Name) I Modeling & Simulation For Training Design			
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost	
D02: Modeling & Simulation For Training And Design	-	6.827	5.427	1.631	-	1.631	1.663	2.969	5.658	7.062	0.000	31.237	

A. Mission Description and Budget Item Justification

This Project transitions basic research into applied research. This Project investigates and designs training applications to enable the Army to train any time and any place. Efforts include designing virtual humans that embody natural language, speech recognition in noisy environments, gesture, gaze, and conversational speech. Techniques and methods are assessed for integrating different sensory cues into virtual environments that result in enhanced training and leader development. The project leverages the capabilities of industry and the research and development community through the synthesis of creativity and technology, including work at the Army Research Institute and the Army Research Laboratory.

Efforts in this Project support the Army Science and Technology Soldier portfolio.

Developed technologies and techniques are transitioned for maturation and demonstration to Program Element (PE) 0603015A/Project S28 (Immersive Learning Environments).

The cited work is consistent with the S&T priorities of the U.S. Army Chief of Staff, Assistant Secretary of Defense for Research and Engineering priority focus areas and the Army Modernization Strategy.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2017	FY 2018	FY 2019
Title: Immersive Technology Environments	3.414	2.714	1.100
Description: Conduct applied research that enables responsive and reconfigurable environments that immerse human senses such as sight, sound, and touch in mixed reality environments to include physical elements providing touch and feel to simulate objects such as obstacles and walls.			
FY 2018 Plans: Develop technologies that enable the study of learning and engagement on mobile devices (e.g., smartphones) which are a key platform for future learning technology; develop cloud-based toolkit for recording, analyzing, and adapting to learner engagement and other emotions for both web-based and mobile platforms; and develop tools and processes to ease the authoring and deployment of conversational virtual coaches across multiple computing platforms to include import/export, integration, and debugging features. FY 2019 Plans:			

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Army	Date: F	Date: February 2018			
Appropriation/Budget Activity 2040 / 2	PE 0602308A I Advanced Concepts and	Project (Number/Name) D02 I Modeling & Simulation For Training And Design			
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2017	FY 2018	FY 2019	
Will utilize brain imaging studies, such as MRI, to identify specific recrelated to empathy and decision making which will help reveal neuropersonnel in making better decisions.					
FY 2018 to FY 2019 Increase/Decrease Statement: Reduction in cloud-based toolkit investments to support senior leade Environment.	er priorities for Soldier Lethality and Synthetic Training				
Title: Immersive Technology Techniques		3.413	2.713	0.53	
Description: This effort develops tools, techniques and technologies simulation environments and therefore creating enhanced realism.	s for improving the immersion of human senses within				
FY 2018 Plans: Conduct empirical studies to better understand perceptual mechanis user virtual reality environments; and develop, integrate, and demon techniques for translating real-world narratives into authorable intera	strate enhanced automated language computer processing	g			
FY 2019 Plans: Will conduct research to enable Soldiers to train in simulated enviror for development and transition. These technologies derived from thi elements and multi-domain interactions in order to provide accelerat full range of Army missions.	s research will address the complex operational environm	ent			
FY 2018 to FY 2019 Increase/Decrease Statement: Reduced investment in automated language computer processing to Lethality and Synthetic Training Environment.	echniques in order to support senior leader priorities for Sc	ldier			
	Accomplishments/Planned Programs Subto	otals 6.827	5.427	1.63	

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 2019 Arm	Date: February 2018			
Appropriation/Budget Activity 2040 / 2	R-1 Program Element (Number/Name) PE 0602308A I Advanced Concepts and Simulation	Project (Number/Name) D02 I Modeling & Simulation For Training And Design		
E. Performance Metrics N/A				

PE 0602308A: Advanced Concepts and Simulation Army

Exhibit R-2A, RDT&E Project Justification: PB 2019 Army						Date: February 2018						
Appropriation/Budget Activity 2040 / 2			R-1 Program Element (Number/Name) PE 0602308A I Advanced Concepts and Simulation			Project (Number/Name) D14 I Advanced Modeling and Simulation Initiatives (CA)						
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
D14: Advanced Modeling and Simulation Initiatives (CA)	-	3.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	3.000

Note

Congressional increase

A. Mission Description and Budget Item Justification

Congressional Interest Item funding for applied research in Advanced Modeling and Simulation.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2017	FY 2018
Congressional Add: Congressional Program Increase	3.000	-
FY 2017 Accomplishments: N/A		
Congressional Adds Subtotals	3.000	-

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

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

N/A

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