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

R-1 Program Element (Number/Name)

Date: February 2018

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

PE 0602270A I Electronic Warfare Technology

Research

Appropriation/Budget Activity

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	-	34.528	27.144	25.571	-	25.571	26.008	26.451	26.868	27.415	0.000	193.985
475: ELECTRONIC WARFARE COMPONENT TECHNOLOGIES (CA)	-	10.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	10.000
906: Tactical Electronic Warfare Applied Research	-	24.528	27.144	20.203	-	20.203	21.063	21.506	21.824	22.270	0.000	158.538
CYB: Applied Offensive Cyber	-	0.000	0.000	5.368	-	5.368	4.945	4.945	5.044	5.145	0.000	25.447

### Note

Project funding was realigned in FY19 from Project 906, Tactical Electronic Warfare Applied Research to Project CYB, Applied Offensive Cyber. Funding was realigned in accordance with Volume 2B, Chapter 18, of the DoD Financial Management Regulation (FMR), requiring all "cyberspace activities" funding move into pure budget Projects.

## A. Mission Description and Budget Item Justification

This Program Element (PE) designs and validates electronic warfare (EW) components, both hardware and software, that deny, disrupt, or degrade the enemy's use of the electromagnetic spectrum for offensive or defensive operations. This is accomplished through the investigation of electronic support measures (ESM); countermeasures against communications systems and networks; the design and fabrication of sensors used to identify and locate threat forces in an asymmetric environment; and threat warning and electronic countermeasures (ECM) against munitions sensors, missile guidance systems, targeting systems, and explosive hazards. Project 906 supports protection of high-value ground platforms, aircraft and the Soldier from threat surveillance and tracking systems, imaging systems, and advanced radio frequency (RF)/electro-optical (EO)/infrared (IR) guided missiles, artillery, and smart munitions. Information fusion research addresses sensor correlation and fusion, relationship discovery, and management services through use of automated processing, as well as software that applies higher level reasoning techniques to support automated combat assessment. Project 906 also supports research and application of key EW sensors, direction finders and jammers to intercept, locate, and disrupt current and emerging communications and non-communications threat emitters to provide vital quality combat information directly to users in a timely and actionable manner. It focuses on detection of threat sensors and emitters associated with weapon systems, targeting systems and command, control, communications, computers, and intelligence systems and networks. Project CYB designs, creates, evaluates, and applies emerging cyber techniques and cyber situational awareness technologies to enhance Army capabilities and to mitigate risks and investigates cyber collection and mapping technologies to offer real time cyber situational awareness to enable interpretation of current threats and predict future enemy activities. .

Work in this PE complements PE 0602120A (Sensors and Electronic Survivability), PE 0602782A (Command, Control, Communications Technology), PE 0603270A (Electronic Warfare Technology), and PE 0603772A (Advanced Tactical Computer Science and Sensor Technology); and is coordinated with PE 0603710A (Night Vision Advanced Technology) and PE 0603794A (Command, Control and Communications Advanced Technology).

PE 0602270A: Electronic Warfare Technology

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

Appropriation/Budget Activity
2040: Research, Development, Test & Evaluation, Army I BA 2: Applied
Research

R-1 Program Element (Number/Name)
PE 0602270A I Electronic Warfare 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 Priorities.

Work is performed by the Army Research, Development and Engineering Command, Aberdeen Proving Ground, MD.

B. Program Change Summary (\$ in Millions)	FY 2017	FY 2018	<b>FY 2019 Base</b>	<b>FY 2019 OCO</b>	FY 2019 Total
Previous President's Budget	25.466	27.144	26.575	-	26.575
Current President's Budget	34.528	27.144	25.571	-	25.571
Total Adjustments	9.062	0.000	-1.004	-	-1.004
<ul> <li>Congressional General Reductions</li> </ul>	-	-			
<ul> <li>Congressional Directed Reductions</li> </ul>	-	-			
<ul> <li>Congressional Rescissions</li> </ul>	-	-			
<ul> <li>Congressional Adds</li> </ul>	10.000	-			
<ul> <li>Congressional Directed Transfers</li> </ul>	-	-			
Reprogrammings	-	-			
SBIR/STTR Transfer	-0.926	-			
<ul> <li>Adjustments to Budget Years</li> </ul>	-	-	-1.004	-	-1.004
• FFRDC	-0.012	-	-	-	-

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

Project: 475: ELECTRONIC WARFARE COMPONENT TECHNOLOGIES (CA)

Congressional Add: Congressional Program Increase

	FY 2017	FY 2018
	10.000	-
Congressional Add Subtotals for Project: 475	10.000	-
Congressional Add Totals for all Projects	10.000	-

# **Change Summary Explanation**

PE 0602270A: Electronic Warfare Technology

FY17 Congressional increase in 475 Electronic Warfare Component Technologies

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Exhibit R-2A, RDT&E Project Ju	ustification	: PB 2019 A	Army							Date: Feb	ruary 2018	
Appropriation/Budget Activity					R-1 Progra	am Elemen	t (Number/	Name)	Project (N	umber/Nar	ne)	
2040 / 2					PE 060227 Technology	70A I Electro Y	onic Warfare	9	475 I ELEC		VARFARE NOLOGIES	(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
475: ELECTRONIC WARFARE COMPONENT TECHNOLOGIES (CA)	-	10.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	10.000

## Note

Congressional Increase

# A. Mission Description and Budget Item Justification

Congressional Interest Item funding for Electronic Warfare technology applied research.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2017	FY 2018
Congressional Add: Congressional Program Increase	10.000	-
FY 2017 Accomplishments: N/A		
Congressional Adds Subtotals	10.000	-

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

N/A

Remarks

# D. Acquisition Strategy

N/A

## E. Performance Metrics

N/A

PE 0602270A: *Electronic Warfare Technology* Army

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Exhibit R-2A, RDT&E Project Ju	stification	: PB 2019 A	rmy							Date: Febr	uary 2018	
Appropriation/Budget Activity 2040 / 2				,				Project (Number/Name) 906 I Tactical Electronic Warfare Applied 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
906: Tactical Electronic Warfare Applied Research	-	24.528	27.144	20.203	-	20.203	21.063	21.506	21.824	22.270	0.000	158.538

#### Note

Army

Project funding was realigned in FY19 from Project 906, Tactical Electronic Warfare Applied Research to Project CYB, Applied Offensive Cyber. Funding was realigned in accordance with Volume 2B, Chapter 18, of the DoD Financial Management Regulation (FMR), requiring all "cyberspace activities" funding move into pure budget Projects.

### A. Mission Description and Budget Item Justification

This Project designs, fabricates, evaluates, and applies key electronic warfare (EW)/information operations technologies to enhance platform survivability (to include ground combat vehicles, aircraft, and the dismounted Soldier) and to intercept, track and locate current and emerging threat munitions, communications and non-communications threat emitters. This project applies recent advances in radio frequency (RF), infrared (IR), and electro-optical (EO) sensors and jamming sources to detect, locate, deceive, and jam threats (to include radar directed target acquisition systems, target-tracking sensors, surface-to-air missiles (SAMs), air-to-air missiles (AAMs), top attack weapons, and electronically fuzed munitions). This project also pursues the ability to neutralize improvised explosive devices. This project designs information systems to provide vital, quality combat information directly to users in a timely, actionable manner in accordance with concepts for future force intelligence operations. This Project investigates RF collection and mapping technologies to offer real time emitter detection, location, and identification. In addition, this project enables a remote capability to disrupt, deny, or destroy threat communication signals and enables fusion (automated assimilation and synthesis) of battlefield intelligence data to enable interpretation of current threats and future enemy activities. This allows commanders to develop operational courses of action in time to act decisively and in a pre-emptive manner.

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.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2017	FY 2018	FY 2019
Title: Multi-Intelligence Data Fusion and Targeting	2.560	2.780	-
<b>Description:</b> This effort investigates, designs and codes advanced automated exploitation and fusion analysis tools, applications, and software services for the creation of improved intelligence products, common information management and information dissemination systems to facilitate collaboration between intelligence and mission command functions. This will provide relevant and timely information in support of command decisions, such as high value identification and targeting in an asymmetric environment. Work being accomplished under Program Element (PE) 0603772A/Project 243 complements this effort. In FY 2019, efforts are realigned to ?Data Analytics for Situational Awareness? to support the Army science and technology (S&T) priorities as identified at the December 2016 S&T Army Requirements Oversight Council by the Chief of Staff of the Army.			

PE 0602270A: Electronic Warfare Technology

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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 0602270A I Electronic Warfare Technology	906 / Ta	Project (Number/Name) 906 I Tactical Electronic Warfare App Research		
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2017	FY 2018	FY 2019
FY 2018 Plans:  Mature predictive analyst tools to determine patterns, anomalies ar techniques and software tools to correlate dark web with clear web ratios for identification of group patterns, tactics, techniques and pr cyber content to identify and group adversarial cyber themes.	organizational personas; develop cyber threat indicators	and			
FY 2018 to FY 2019 Increase/Decrease Statement: In FY 2019, efforts are realigned to ?Data Analytics for Situational A	Awareness? to meet Army priority for Network/C3I.				
Title: Data Analytics for Situational Awareness			-	-	2.94
<b>Description:</b> This effort researches and designs spectrum sensing and analytics to enhance overall situational understanding within a Efforts focus on developing the analytics necessary to taking advar by leveraging existing tactical receivers and other tactical data feed 0603772A/Project 243 complements this effort. In FY 2019, efforts (S&T) priorities as identified at the December 2016 S&T Army Req. <b>FY 2019 Plans:</b> Will identify relevant tactical receiver data and emerging Internet of information, enriching the existing cyber terrain and electromagnetic points with non-traditional datasets to identify cyber events; and will automated analytical methods to process and exploit the extended	contested battlespace. Intage of the expanding number of data sources available als. Work being accomplished under Program Element (Plare realigned to support the Army science and technologuirements Oversight Council by the Chief of Staff of the Army staff of the Army science and technologuirements Oversight Council by the Chief of Staff of the Army science and technologuirements Oversight Council by the Chief of Staff of the Army science and technologuirements (IoT) data sources, to include publicly available ac operations environment; will investigate potential correlations and semi-	Ξ) y urmy. ation			
FY 2018 to FY 2019 Increase/Decrease Statement: New effort to meet Army priority for Network/C3I.					
Title: Offensive Information Operations Technologies			7.857	7.984	2.47
<b>Description:</b> This effort designs, codes and evaluates techniques and unobtrusive operations in the presence of host nation networks classification, mapping and disruption of RF networks and providing 0602270A/Project CYB and PE 0603270A/Projects CY3 and K15 of moved to Project CYB per an Office of the Secretary of Defense did In FY 2019, efforts are realigned to support the Army science and the S&T Army Requirements Oversight Council by the Chief of Staff of	s. Electronic warfare capabilities include detection, location data to a user. Work being accomplished under PE complements this effort. In FY 2019 cyber work in this effortective to identify cyber investments in cyber unique Projective to identify cyber investments.	on, ort was ects.			

PE 0602270A: *Electronic Warfare Technology* 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 0602270A I Electronic Warfare Technology		ect (Number/Name) I Tactical Electronic Warfare earch		Applied	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2017	FY 2018	FY 2019	
FY 2018 Plans: Validate advanced, software techniques to perform various cybe (DOIs); conclude requirements investigation and analysis of sof control cyber functions from EW and SIGINT platforms across/v incorporate the results of cyber laboratory experiments into the tools that can inform the commander's situational understanding of CEMA data products to the intelligence enterprise.	ftware architecture to allow the tactical commander to direct within security domains and battlespace domain resources; a next generation architecture requirements and analysis of an	and and nalytic				
FY 2019 Plans: Will investigate emerging networks to identify shortfalls in capable analytic, sensor, and data research needs; and investigate technative network infrastructures.						
FY 2018 to FY 2019 Increase/Decrease Statement: Decrease funding in Offensive Cyber Technologies to meet Arm task ends in FY18.	ny priority for Network/C3I, and Offensive Cyber Technologie	es STO				
Title: Multispectral Threat Warning and Countermeasures, form	nerly Multispectral Threat Warning		5.051	6.605	6.93	
<b>Description:</b> This effort investigates and evaluates software an probability to detect and defeat current and evolving small arms threats for aviation platforms using modeling and simulation (Ma accomplished under PE 0603270A/Project K16 complements the	s and man-portable air defense system (MANPADS) type &S) and hardware in the loop (HWIL) simulations. Work bein	g				
FY 2018 Plans: Investigate threat agnostic warning algorithms to increase probation information to the countermeasure system for an increasinvestigate novel techniques using lasers of higher energy than not previously encountered; use M&S to develop new threat seemagnetic environment to assess existing countermeasure capa fidelity countermeasures and incorporate them into the simulation techniques against previously unknown threats and investigate multiple and multi-spectral threats.	ased probability of defeat; based upon feasibility study result currently used to increase the probability of defeat of threats enarios and mature HWIL simulations that sense the electrobilities against previously unknown threats; investigate higher environment; investigate threat agnostic countermeasure	er				
FY 2019 Plans:						

PE 0602270A: *Electronic Warfare Technology* Army

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Army			Date: F	ebruary 2018	<b>,</b>
Appropriation/Budget Activity 2040 / 2	R-1 Program Element (Number/Name) PE 0602270A / Electronic Warfare Technology		t (Number/N actical Electi ch	Applied	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2017	FY 2018	FY 2019
Will investigate technologies to indiscriminately detect and defeat be generation detect technologies with focus on machine learning algowill conduct analysis of advanced defeat technologies focusing on rindiscriminately degrade electro-optical (EO) threat sensor performs software techniques that are adaptive to agile RF threats; will use Not threat classification and optimize laser countermeasure and RF teck (e.g., machine learning, lasers, etc.) and techniques independently	orithms to enable detection of unrecognized threat feature new lasers and laser materials and build a breadboard la ance; will investigate radio frequency (RF) digital hardwa M&S to iteratively train machine learning algorithms to pe hnique development; and assess performance of techno	ser to re and rform			
FY 2018 to FY 2019 Increase/Decrease Statement: Increase to assess performance of technologies and techniques incisimulation platform.	dependently and incorporate them into a digital modeling	and			
Title: Multi-Function Intelligence, Surveillance and Reconnaissance	e Technologies		8.060	8.771	7.35
<b>Description:</b> This effort investigates and codes software algorithms Surveillance, and Reconnaissance (ISR) sensors, improve their ind battlespace awareness/intelligence data in an area of operations. E common radio frequency (RF) architectures for terrestrial and aerial Project K15 and PE 0603772A / Project 243, PE 0602709A/project	ividual performance and increase the effectiveness of ifforts focus on networking of sensors and open, scalable I sensors. Work being accomplished under PE 0603270	e A /			
FY 2018 Plans: Conduct experiments on reference design for multi-channel receive and Government off the shelf (COTS/GOTS) receivers to determine electronic warfare (EW) and Signals Intelligence (SIGINT) missions continue to mature and validate Open RF Architecture interface spe between RF functionalities (e.g., communications, SIGINT and blue processing functions to enable multi mission EW and SIGINT opera SIGINT mission spaces to enable coordinated command and control signal classes; and begin investigation of Next Generation Radar ar architectures.	e optimal size, weight, and power and cost for a variety of it, including direction finding and beamforming functions; ecifications to support advanced interference mitigation a force jamming); mature interface specifications of interfactions; standardize application interfaces across cyber, Epol (C2) of these capabilities to better address emerging the	f nediate W and nreat			
FY 2019 Plans: Will research enhanced next generation techniques for distributed s geolocation of advanced threats and inform requirements for future situational awareness technique susceptibility to adversarial use of cyber hardening of sensor component technology for front-end sensor	hardware designs; will investigate state of the art electronext generation RF deception and jamming; will investig	onic ate			

PE 0602270A: *Electronic Warfare Technology* Army

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Army		Date:	February 2018	3	
Appropriation/Budget Activity 2040 / 2	R-1 Program Element (Number/Name) PE 0602270A / Electronic Warfare Technology	Project (Number 906 / Tactical Elec Research		Applied	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2017	FY 2018	FY 2019	
radio for use in an open multifunction ISR platform to be utilized in shared multi-function next generation hardware for Radar, SIGINT and impact of executing multi-function capabilities from a commor protection capability; and will perform laboratory sensing data colle function sensor.	and EW; perform tradeoff studies to understand the feasibn RF array with consideration for advancing threat electronic	•			
FY 2018 to FY 2019 Increase/Decrease Statement:  Decrease due to conclusion of work to mature interface specification.	ions of intermediate processing functions to enable multi m	ission			
EW and SIGINT operations.	, ,				
Title: Electronic Warfare Architectures and Countermeasures		1.000	-		
<b>Description:</b> This effort investigates and evaluates the technical scountermeasures. Work being accomplished under PE 0603270A	·				
Title: Multi Function Electronic Warfare (MFEW) Technique Deve	lopment	-	1.004	0.50	
<b>Description:</b> This effort investigates and develops electronic warf such as networked command and control nodes or improvised expand counter-fire radars. The techniques developed are system ag countermeasure applications, and they can be used to improve the future EW system capabilities. Work being accomplished under P	plosive device threats, and radars, such as ground surveilla nostic and applicable to a wide variety of EW and electronic e performance and expand the functionality of both current	ince			
FY 2018 Plans: Investigate and perform vulnerability analysis on emerging comme EW techniques and methods (such as active, reactive, surgical ar communications systems while maximizing waveform jamming eff power.	nd protocol based software) to defeat specific commercial	ming			
FY 2019 Plans: Will investigate and perform vulnerability analysis on emerging thr ground surveillance radar, and counter-fire radar systems) and masurgical, and protocol based software) with the goals of maximizing time, and reducing jamming power to defeat Army relevant threats	ature EW techniques and methods (such as active, reactive ig EW waveform jamming effectiveness, minimizing transm				
FY 2018 to FY 2019 Increase/Decrease Statement:					

PE 0602270A: *Electronic Warfare Technology* Army

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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 0602270A / Electronic Warfare Technology	906 /	<b>Project (Number/Name)</b> 906 <i>I Tactical Electronic Warfare Applied</i> <i>Research</i>			
B. Accomplishments/Planned Programs (\$ in Millions)  Decrease effort in MFEW to meet Army priority for Network/C3I.			FY 2017	FY 2018	FY 2019	

**Accomplishments/Planned Programs Subtotals** 

24.528

27.144

20.203

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

N/A

Remarks

D. Acquisition Strategy

**E. Performance Metrics** 

N/A

PE 0602270A: Electronic Warfare Technology Army

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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 0602270A I Electronic Warfare Technology				Project (Number/Name) CYB I Applied Offensive Cyber				
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
CYB: Applied Offensive Cyber	-	0.000	0.000	5.368	-	5.368	4.945	4.945	5.044	5.145	0.000	25.447

#### Note

Army

Project funding was realigned in FY19 from Project 906, Tactical Electronic Warfare Applied Research to Project CYB, Applied Offensive Cyber. Funding was realigned in accordance with Volume 2B, Chapter 18, of the DoD Financial Management Regulation (FMR), requiring all "cyberspace activities" funding move into pure budget Projects.

# A. Mission Description and Budget Item Justification

This Project designs, creates, evaluates, and applies emerging cyber techniques and cyber situational awareness technologies to enhance Army capabilities. This Project leverages behavioral Modeling and Simulation to mitigate risks and investigates cyber collection and mapping technologies to offer real time cyber situational awareness to enable interpretation of current threats and predict future enemy activities. This allows commanders to develop operational courses of action in time to act decisively and in a pre-emptive manner.

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.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2017	FY 2018	FY 2019
Title: Offensive Information Operations Technologies	-	-	5.368
<b>Description:</b> This effort designs, codes and evaluates cyber architectures, software, tools and techniques that identify and capture data traversing targeted networks for the purpose of Cyber Electro Magnetic Activity (CEMA) or otherwise countering adversary communications. Cyber capabilities include detection, identification, exploitation, direction finding (DF), geolocation, and denial of service. Work being accomplished under PE 0603270A/Projects CY3 and K15 and PE 0602270A/Project 906 complements this effort. Project funding was realigned in FY19 from Project 906, Tactical Electronic Warfare Applied Research to Project CYB, Applied Offensive Cyber. Funding was realigned in accordance with Volume 2B, Chapter 18, of the DoD Financial Management Regulation (FMR), requiring all "cyberspace activities" funding move into pure budget Projects			
FY 2019 Plans: Will investigate utilizing Machine Learning for threat assessment, decision aid, and mission choreography; will determine algorithm design needs for recognition and Battle Damage Assessment for the purposes of survey, network topology understanding, and effect assessment; will refine CEMA interface definitions to include a mechanism for service/capability discovery to address solidifying mission management across Unified Land Operations platforms.			
FY 2018 to FY 2019 Increase/Decrease Statement:			

PE 0602270A: Electronic Warfare Technology

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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 0602270A / Electronic Warfare Technology	Project (Number/Name) CYB / Applied Offensive Cyber					
B. Accomplishments/Planned Programs (\$ in Millions)				FY 2018	FY 2019		
Project funding was realigned in FY19 from Project 906, Tactical Electronic Warfare Applied Research to Project CYB, Applied							
Offensive Cyber. Funding was realigned in accordance with Volume							
Regulation (FMR), requiring all "cyberspace activities" funding move into pure budget Projects							
Accomplishments/Planned Programs Subtotals				-	5.368		

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

N/A

Remarks

D. Acquisition Strategy

N/A

**E. Performance Metrics** 

N/A

PE 0602270A: *Electronic Warfare Technology* Army

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