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<b>Exhibit R-2, RDT&amp;E Budget Item Justification: FY 2018 Army</b>	<b>Date: May 2017</b>
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<b>Appropriation/Budget Activity</b> 2040: Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support	<b>R-1 Program Element (Number/Name)</b> PE 0604256A / Threat Simulator Development
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<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
Total Program Element	-	27.157	25.675	22.862	-	22.862	23.885	24.658	25.297	25.954	-	-
976: Army Threat Sim (ATS)	-	27.157	25.675	22.862	-	22.862	23.885	24.658	25.297	25.954	-	-

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

This Program Element (PE) supports the design, development, acquisition, integration and fielding of realistic mobile threat simulators and realistic threat simulation products utilized in Army training and developmental and operational tests. This PE originally funded simulators representing Soviet equipment, but scope was expanded to address emerging world threats. Army Threat Simulator and Threat Simulation products are utilized to populate test battlefields for United States (U.S.) Army Test and Evaluation Command (ATEC), to conduct developmental and operational tests, and to support Program Executive Office (PEO) required user testing in System Integration Laboratories and hardware/simulation in-the-loop facilities. Army threat simulator and threat simulation products developed or fielded under this PE support Army-wide, non-system specific threat product requirements. Each capability is pursued in concert and coordination with existing Army and tri-service capabilities to eliminate duplication of products and services, while providing the proper mix of resources needed to support Army testing and training. These battlefield simulators represent systems (e.g. missile systems, command, control and communications systems, electronic warfare systems, etc.) that are used to portray a realistic threat environment during testing of U.S. weapon systems. Simulator development is responsive to Office of the Secretary of Defense and Government Accountability Office guidance for the Army to conduct operational testing in a realistic threat environment. Actual threat equipment is acquired when appropriate (in lieu of development) and total package fielding is still required (i.e., instrumentation, operations and maintenance, manuals, new equipment training, etc.). Threat simulator development is accomplished under the auspices of the Project Manager for Instrumentation, Targets and Threat Simulators (PM ITTS) and the Director, Operational Test and Evaluation, Threat Simulator Investment Working Group.

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>
Previous President's Budget	27.535	25.675	21.232	-	21.232
Current President's Budget	27.157	25.675	22.862	-	22.862
Total Adjustments	-0.378	0.000	1.630	-	1.630
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.378	-			
• Adjustments to Budget Years	0.000	0.000	1.555	-	1.555
• CivPay Adjustments	0.000	0.000	0.075	-	0.075

**UNCLASSIFIED**

<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> FY 2018 Army		<b>Date:</b> May 2017	
<b>Appropriation/Budget Activity</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army / BA 6: RDT&amp;E Management Support</i>		<b>R-1 Program Element (Number/Name)</b> PE 0604256A / <i>Threat Simulator Development</i>	
<b>Congressional Add Details (\$ in Millions, and Includes General Reductions)</b> <b>Project:</b> 976: <i>Army Threat Sim (ATS)</i> Congressional Add: <i>Integrated Threat Distributed Cyber Environments</i>		<b>FY 2016</b>	<b>FY 2017</b>
		7.500	-
Congressional Add Subtotals for Project: 976		7.500	-
Congressional Add Totals for all Projects		7.500	-

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Exhibit R-2A, RDT&E Project Justification: FY 2018 Army										Date: May 2017		
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0604256A / Threat Simulator Development				Project (Number/Name) 976 / Army Threat Sim (ATS)			
COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
976: Army Threat Sim (ATS)	-	27.157	25.675	22.862	-	22.862	23.885	24.658	25.297	25.954	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

This Project supports the design, development, acquisition, integration and fielding of realistic mobile threat simulators and realistic threat simulation products utilized in Army training and developmental and operational tests. Project originally funded simulators representing Soviet equipment, but scope was expanded to address emerging world threats. Army Threat Simulator and Threat Simulation products are utilized to populate test battlefields for United States (U.S.) Army Test and Evaluation Command (ATEC), to conduct developmental and operational tests, and to support Program Executive Office (PEO) required user testing in System Integration Laboratories and hardware/simulation in-the-loop facilities. Army threat simulator and threat simulation products developed or fielded under this Project support Army-wide, non-system specific threat product requirements. Each capability is pursued in concert and coordination with existing Army and tri-service capabilities to eliminate duplication of products and services, while providing the proper mix of resources needed to support Army testing and training. These battlefield simulators represent systems (e.g. missile systems, command, control and communications systems, electronic warfare systems, etc.) that are used to portray a realistic threat environment during testing of U.S. weapon systems. Simulator development is responsive to Office of the Secretary of Defense and General Accounting Office guidance for the Army to conduct operational testing in a realistic threat environment. Actual threat equipment is acquired when appropriate (in lieu of development) and total package fielding is still required (i.e., instrumentation, operations and maintenance, manuals, new equipment training, etc.). Threat simulator development is accomplished under the auspices of the Project Manager for Instrumentation, Targets and Threat Simulators (PM ITTS) and the Director, Operational Test and Evaluation, Threat Simulator Investment Working Group.

Beginning in FY 2018, this Project will support the Next Generation Mobile Communication Network Infrastructure Test Range (MCNITR) activity.

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
<b>Title:</b> Network Exploitation Test Tool (NETT).	3.410	3.883	3.675
<b>Description:</b> Continues Engineering Manufacturing and Development (EMD) for the NETT as a comprehensive Computer Network Operations (CNO) tool. Integrates new tools, tactics, and techniques into NETT to portray evolving Threat environments.			
<b>FY 2016 Accomplishments:</b> Continued EMD for the NETT. NETT will be a comprehensive CNO tool, designed for Test and Evaluation (T&E), to portray evolving hostile and malicious Threat effects within the cyber domain. The program provides an integrated suite of open-source/ open-method exploitation tools, which will be integrated with robust reporting and instrumentation capabilities. NETT issued by Threat CNO teams to replicate the tactics of state and non-state Threat and will be supported by a robust CNO development environment. The Cyber domain will be the most rapidly changing domain in which our systems operate. The NETT program to research new capabilities and to use an in-depth process to clean, fix, and integrate required Threat tools, tactics, and techniques			

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<b>Appropriation/Budget Activity</b> 2040 / 6		<b>R-1 Program Element (Number/Name)</b> PE 0604256A / <i>Threat Simulator Development</i>		<b>Project (Number/Name)</b> 976 / <i>Army Threat Sim (ATS)</i>	
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>			<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
that are needed during T&E. Focus areas to include continued Threat integration, instrumentation, distributed collaboration, and remote agent development.					
<b>FY 2017 Plans:</b> Will continue EMD for the NETT. NETT will be a comprehensive Computer Network Operations (CNO) tool, designed for T&E, to portray evolving hostile and malicious Threat effects within the cyber domain. The program will provide an integrated suite of open-source/open-method exploitation tools which will be integrated with robust reporting and instrumentation capabilities. NETT will be used by Threat CNO teams to replicate the tactics of state and non-state Threat and will be supported by a robust CNO development environment. The Cyber domain will be the most rapidly changing domain in which our systems operate. The NETT program will research these new capabilities and will use an in-depth process to clean, fix, and integrate required Threat tools, tactics, and techniques that will be needed during T&E. Focus areas will include continued Threat integration, instrumentation, distributed collaboration between multiple users, targets and attack visualization, data collection and remote agent development.					
<b>FY 2018 Plans:</b> NETT is a comprehensive CNO tool, designed for T&E, to portray evolving hostile and malicious Threat effects within the cyber domain. The program will continue to provide an integrated suite of open-source/open-method exploitation tools which will be integrated with robust reporting and instrumentation capabilities. NETT is used by Threat CNO teams to replicate the tactics of state and non-state Threat and is supported by a robust CNO development environment. The Cyber domain will be the most rapidly changing domain in which our systems operate. The NETT program will continue research of these capabilities and will use an in-depth process to clean, fix, and integrate required Threat tools, tactics, and techniques that will be needed during T&E. Focus areas include continued Threat integration, instrumentation, distributed collaboration between multiple users, targets and attack visualization, data collection and remote agent development.					
<b>Title:</b> Threat Systems Management Office's (TSMO) Threat Operations <b>Description:</b> TSMO's Threat Operations program manages, maintains, and sustains a mission ready suite of threat systems within the Army's Threat inventory. <b>FY 2016 Accomplishments:</b> The Threat Operations program funded the operation, maintenance, management, and sustainment capability for Threat systems used to portray a realistic threat environment during Army testing and training within the Army's Threat inventory in order to support multiple Army test events including (Network Integration Evaluation - NIE/Army Warfighter Assessments - AWA) and anticipated excursion test events for numerous Systems Under Test (SUT)/Programs of Record (POR) currently identified through Fiscal Year (FY) 2017. FY16 funding provided for acquisition life cycle management support and operations, maintenance, spares, new equipment, training, special tools and instrumentation, additional Department of Defense (DoD) Information			2.959	3.395	3.627

**UNCLASSIFIED**

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2016</b>	<b>FY 2017</b>
Assurance Certification and Accreditation Process (DIACAP) updates, etc. of new threat systems fielded into the Army's Threat inventory.			
<b>FY 2017 Plans:</b> The Threat Operations program will fund the operation, maintenance, management, and sustainment capability for Threat systems used to portray a realistic threat environment during Army testing and training within the Army's Threat inventory in order to support multiple Army test events including (Network Integration Evaluation - NIE/Army Warfighter Assessments - AWA) and anticipated excursion test events for numerous Systems Under Test (SUT)/Programs of Record (POR) currently identified through FY17.			
<b>FY 2018 Plans:</b> The Threat Operations program will fund the operation, maintenance, management, and sustainment capability for Threat systems used to portray a realistic threat environment during Army testing and training within the Army's Threat inventory in order to support multiple Army test events including NIE/AWA and anticipated excursion test events for numerous SUT/POR currently identified through FY18.			
<b>Title:</b> Integrated Threat Force (ITF), formerly named Threat Battle Command Center (TBCC) <b>Description:</b> Continues the EMD phase for the ITF program to continue hardware/software development and threat systems integration in support to the build-out of the threat force architecture.		3.823	1.965
<b>FY 2016 Accomplishments:</b> Continued the EMD phase for Increment 4 of the ITF program to enhance the ITF's Threat Battle Command applications, the Command, Control, Communication (C3) interfaces with the Increment 1 - 3 threat systems as well as enhance the Command and Control (C2) functionality of the TBCC. FY16 supported the continued design and development of distributed C2 functionality from the TBCC.			
<b>FY 2017 Plans:</b> Will continue the EMD phase for Increment 4 of the ITF program to enhance the ITF's Threat Battle Command applications, the C3 interfaces with the Increment 1 - 3 threat systems as well as enhance the C2 functionality of the Threat Battle Command Center (TBCC). FY17 funding is expected to finish the design and development of distributed C2 functionality and fulfill the KPPs for Increment 4.			
<b>Title:</b> Threat Computer Network Operations Teams (TCNOT) <b>Description:</b> The TCNOT supports Army Test and Evaluation events by maintaining a team of highly qualified, trained, and certified CNO professionals who execute cyber operations against systems under test. The TCNOT program was		3.003	4.051
			5.764

**UNCLASSIFIED**

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2016</b>	<b>FY 2017</b>
designated a "Threat CNO Team" under Army Regulation (AR) 380-53 and is accredited as a United States Strategic Command (USSTRATCOM)/National Security Agency (NSA) certified "Red Team".			
<b><i>FY 2016 Accomplishments:</i></b> Funding supported unique training, credentials, and authorizations involving organizations such as the Intelligence and Security Command (INSCOM), NSA, Headquarters Department of Army (HQDA)-G2, and industry. FY16 funded requirements such as continued research of the intelligence-based TCNO TTP and threat portrayal capabilities up to the Nation State level; development of the necessary, highly specialized TCNO Training program; development, research, and analysis of continually emerging foreign threat capabilities; and data collection capability.			
<b><i>FY 2017 Plans:</i></b> Funding will support unique training, credentials, and authorizations involving organizations such as INSCOM, NSA, HQDA-G2, and industry. FY17 will fund requirements such as continued research of the intelligence-based TCNO TTP and threat portrayal capabilities up to the Nation State level; development of the necessary, highly specialized TCNO Training program; development, research, and analysis of continually emerging foreign threat capabilities; and data collection capability.			
<b><i>FY 2018 Plans:</i></b> Funding will support unique training, credentials, and authorizations involving organizations such as INSCOM, NSA, HQDA-G2, and industry. FY18 will fund requirements such as continued research of the intelligence-based TCNO TTP and threat portrayal capabilities up to the Nation State level; development of the necessary, highly specialized TCNO Training program; development, research, and analysis of continually emerging foreign threat capabilities; and data collection capability.			
<b><i>Title:</i></b> Threat Computer Network Operations (CNO) Fidelity Enhancements  <b><i>Description:</i></b> Threat CNO Fidelity Enhancements establishes high-fidelity Threat malware and real-world tools, tactics, techniques, and procedures of Threat employment of CNO using commercial Information Technologies (IT) intended to engage complex U.S. operations.		1.312	1.333
<b><i>FY 2016 Accomplishments:</i></b> Program continued to validate high-fidelity Threat malware and real-world tools, tactics, techniques, and procedures of Threat employment of CNO using commercial IT technologies intended to engage complex U.S. operations. Continued the development of state and non-state threat targeting packages that are "current", accurately profiling attack trends and timelines, intent, levels of sophistication, and threat training that will not be available to evaluate the exploitation of existing vulnerabilities in Enterprise Business Systems and network enabled systems. These threat packages range from "technological nomads" operating			1.402

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>			<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
autonomously to state level forces using both active and passive network attack to selectively degrade or disrupt Army Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance (C4ISR) and Enterprise Business Systems.					
<b>FY 2017 Plans:</b> Program will continue to validate high-fidelity Threat malware and real-world tools, tactics, techniques, and procedures of Threat employment of CNO using commercial IT technologies intended to engage complex U.S. operations. Will continue to develop state and non-state threat targeting packages that are "current", accurately profiling attack trends and timelines, intent, levels of sophistication, and threat training that will not be available to evaluate the exploitation of existing vulnerabilities in Enterprise Business Systems and network enabled systems. These threat packages range from "technological nomads" operating autonomously to state level forces using both active and passive network attack to selectively degrade or disrupt Army C4ISR and Enterprise Business Systems.					
<b>FY 2018 Plans:</b> Program will continue to validate high-fidelity Threat malware and real-world tools, tactics, techniques, and procedures of Threat employment of CNO using commercial IT technologies intended to engage complex U.S. operations. Will continue to develop state and non-state threat targeting packages that are "current", accurately profiling attack trends and timelines, intent, levels of sophistication, and threat training that will not be available to evaluate the exploitation of existing vulnerabilities in Enterprise Business Systems and network enabled systems. These threat packages range from "technological nomads" operating autonomously to state level forces using both active and passive network attack to selectively degrade or disrupt Army C4ISR and Enterprise Business Systems.					
<b>Title:</b> Advanced Networked Electronic Support Threat Sensors (NESTS)  <b>Description:</b> Program will begin prototype design and implementation to deliver advanced threat Electronic Support (ES) platforms.			2.392	4.701	2.500
<b>FY 2016 Accomplishments:</b> The Advanced NESTS program will increase existing threat ES capabilities to match the U.S. Intelligence Community performance assessments of real-world threat capabilities. This program seeks to replicate emerging real-world threat capabilities targeting advanced U.S. communication systems operating up to 18GHz. Program to establish the detailed design and begin the integration effort.					
<b>FY 2017 Plans:</b> The Advanced NESTS program will continue to increase existing threat Electronic Support (ES) capabilities to match the U.S. Intelligence Community performance assessments of real-world threat capabilities. This program seeks to replicate emerging					

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
real-world threat capabilities targeting advanced U.S. communication systems operating up to 18GHz. Program will continue the detailed design and the integration effort.				
<b>FY 2018 Plans:</b> The Advanced NESTS program will continue to increase existing threat ES capabilities to match the U.S. Intelligence Community performance assessments of real-world threat capabilities. This program seeks to replicate emerging real-world threat capabilities targeting advanced U.S. communication systems operating up to 18GHz. Program will continue the detailed design and the integration effort. The program will pursue Full Operational Capability (FOC) during FY18.				
<b>Title:</b> Advanced Jammer Suite (Next Generation Electronic Attack (EA))  <b>Description:</b> Begin development of the infrastructure and testing capacity for persistent portrayal of operationally realistic threat network environments and expertise needed to accurately characterize, plan, and assess the effects of both U.S. and adversary cyber capabilities. Enables ability to provide cyber attack capabilities from a realistic threat environment.		1.758	4.394	3.000
<b>FY 2016 Accomplishments:</b> The Advanced Jammer Suite expanded the Army's open air and alternatives for Electronic Attack (EA) in a test environment by using variations of jamming to include direct jamming, open air jamming and Global Positioning System (GPS) jamming. Program kept the current jamming threat as an asset to the Army for use in testing, at lower test costs. The Advanced Jammer Suite expands the Army alternative EA in a test environment by using appropriate jamming techniques for the applied testing environment and procured upgraded injection jamming units, as well as develop new and future jamming threats, to include satellite jamming threats. This threat development includes, but is not limited to, techniques such as Frequency Follower Direct Sequence Spread Spectrum (DSSS) threat jamming; Digital Radio Frequency Modulation (DRFM) "spoofing;" and, extended Radio Frequency (RF) range into the Extremely High Frequency (EHF) range.				
<b>FY 2017 Plans:</b> The Advanced Jammer Suite expands the Army's open air and alternatives for EA in a test environment by using variations of jamming to include direct jamming, open air jamming and GPS jamming. This program will keep the current jamming threat as an asset to the Army for use in testing, at lower test costs. The Advanced Jammer Suite expands the Army alternative EA in a test environment by using appropriate jamming techniques for the applied testing environment. This program continues the threat representation for the Army in the jamming domain. This program will continue to procure upgraded injection jamming units, as well as develop new and future jamming threats, to include satellite jamming threats. This threat development would include, but is not limited to techniques such as Frequency Follower Direct Sequence Spread Spectrum (DSSS) threat jamming; Digital Radio Frequency Modulation (DRFM) "spoofing;" and, extended RF range into the Extremely High Frequency (EHF) range.				
<b>FY 2018 Plans:</b>				



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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2016</b>	<b>FY 2017</b>
The Advanced Jammer Suite will continue to expand the Army's open air and alternatives for EA in a test environment by using variations of jamming to include direct jamming, open air jamming and GPS jamming. It will keep the current jamming threat as an asset to the Army for use in testing, at lower test costs, and expands the Army alternative EA in a test environment by using appropriate jamming techniques for the applied testing environment. This program continues the threat representation for the Army in the jamming domain. This program will develop new and future jamming threats, to include satellite jamming. This threat development would include, but is not limited to, techniques such as Frequency Follower DSSS threat jamming; DRFM "spoofing;" and, extended RF range into the EHF range.			
<b>Title:</b> Threat Information Environment  <b>Description:</b> Begin development of the infrastructure and testing capacity for persistent portrayal of operationally realistic threat network environments and expertise needed to accurately characterize, plan, and assess the effects of both U.S. and adversary cyber capabilities. Enables ability to provide cyber attack capabilities from a realistic threat environment.  <b>FY 2016 Accomplishments:</b> This capability provided the infrastructure and testing capacity for routine and consistent portrayal of operationally realistic, threat representative environments and expertise and the means to accurately characterize, plan, and assess the effects of cyber adversaries. This program leveraged partnerships across the U.S. Army Cyber Command (ARCYBER)/ the 1st Information Operations Command (1st IO CMD), the Research, Development, and Engineering Command (RDECOM)/ the Army Research Laboratory (ARL), and the Aviation/Missile Research and Development Center (AMRDEC) to ensure intellectual capital and manning is available to execute the capability. Army cost avoidance through this program due to corrected vulnerabilities and threat mitigation in Army systems would be both common and substantial.		1.000	-
<b>Title:</b> Threat Battle Command Force (TBCF)  <b>Description:</b> The Threat Battle Command Force (TBCF) incorporates remote operations via distributed C2 while maintaining valid Threat tactics, techniques, and procedures (TTP) during T&E and training events.  <b>FY 2017 Plans:</b> The Threat Battle Command Force (TBCF) incorporates remote operations via distributed C2 while maintaining valid Threat tactics, techniques, and procedures (TTP) during T&E and training events. This program will integrate the Next Generation Electronic Support Suite, Next Generation Electronic Attack Suite and Computer Network Operations into future Threat C2 operations.  <b>FY 2018 Plans:</b>		-	1.953
			2.237

**UNCLASSIFIED**

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2016</b>	<b>FY 2017</b>
Integrate the Next Generation Electronic Support Suite, Next Generation Electronic Attack Suite and Computer Network Operations into future Threat C2 operations.			
<b>Title:</b> Next Generation Mobile Communication Network Infrastructure Test Range  <b>Description:</b> Next Generation MCNITR provides a mobile, dynamic closed loop cellular communications network infrastructure implementing multiple technologies capable of providing a realistic commercial RF signals environment needed for testing and training of U.S. forces in urban and suburban battle space environments. The Next Generation MCNITR program acquires a capability that simulates real-world RF signals environment and that supports representative threat force reliance of network enabled devices dependent on advanced cellular technology.  <b>FY 2018 Plans:</b> Will determine system functional requirements to full design specifications to meet threat and operational test requirements.		-	-
<b>Accomplishments/Planned Programs Subtotals</b>		19.657	22.862
		<b>FY 2016</b>	<b>FY 2017</b>
<b>Congressional Add:</b> Integrated Threat Distributed Cyber Environments  <b>FY 2016 Accomplishments:</b> Development of these provisions enabled real-time cyber causality assessment against the realistic cyber threat environment while retaining the ability to rapidly reconfigure required environments as the cyber threat adapts and proliferates. This capability utilized automated configuration and control of threat cyber environment operations in order to meet current demands. This capability is a solution to existing challenges of implementing, sustaining, and reconfiguring actual foreign network technology to replicate threat cyber environment requirements.		7.500	-
<b>Congressional Adds Subtotals</b>		7.500	-
<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			