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Exhibit R-2, RDT&E Budget Item Justification: PB 2021 Office of the Secretary Of Defense **Date:** February 2020

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 6:</i> <i>RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0203345D8Z / <i>Defense Operations Security Initiative (DOSI)</i>
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COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
Total Program Element	7.549	9.892	8.037	3.099	-	3.099	3.164	3.180	3.248	3.313	Continuing	Continuing
345: <i>Defense Operations Security Initiative</i>	7.549	9.892	8.037	3.099	-	3.099	3.164	3.180	3.248	3.313	Continuing	Continuing

Program MDAP/MAIS Code:
Project MDAP/MAIS Code(s): 003

A. Mission Description and Budget Item Justification

DOSI establishes and leads the Department's next generation Operations Security (OPSEC) capability development and affiliated investment strategy. Investments support DoD's current and emerging OPSEC capability gaps, including countering advances in non-U.S. Intelligence, Surveillance, and Reconnaissance (ISR) capabilities and denying the understanding of U.S. capability, capacity, readiness and critical technology and information from adversaries. These investments spur Department innovation and preserve U.S. technology superiority. DOSI Analysis and Engineering Studies lead the community's ability to sustain and maximize technology advantage as they are transitioned to Service and Agency programs for sustainment, maintenance, and capacity programming. Test and evaluation analyses establish measure and countermeasure effectiveness in current and emerging operational environments.

B. Program Change Summary (\$ in Millions)	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Previous President's Budget	9.985	3.037	3.099	-	3.099
Current President's Budget	9.892	8.037	3.099	-	3.099
Total Adjustments	-0.093	5.000	0.000	-	0.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	5.000			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.091	-			
• Departmental Adjustment	-0.002	-	-	-	-

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

Project: 345: *Defense Operations Security Initiative*

Congressional Add: *Cyber Kinetic Range Capabilities - Development of Playas Training and Research Center (PTRC) as a facility of interest in the execution of the Cyber Kinetic Combat Environment activities.*

FY 2019	FY 2020
7.000	5.000

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

	FY 2019	FY 2020
Congressional Add Subtotals for Project: 345	7.000	5.000
Congressional Add Totals for all Projects	7.000	5.000

Change Summary Explanation

Congressional Add in FY2020 for Cyber Kinetic Combat Environment.

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Appropriation/Budget Activity 0400 / 6					R-1 Program Element (Number/Name) PE 0203345D8Z / Defense Operations Security Initiative (DOSI)				Project (Number/Name) 345 / Defense Operations Security Initiative			
COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
345: Defense Operations Security Initiative	7.549	9.892	8.037	3.099	-	3.099	3.164	3.180	3.248	3.313	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
Project MDAP/MAIS Code: 003												

A. Mission Description and Budget Item Justification

DOSI establishes and leads the Department's next generation Operations Security (OPSEC) capability development and affiliated investment strategy. Investments support DoD's current and emerging OPSEC capability gaps, including countering advances in non-U.S. Intelligence, Surveillance, and Reconnaissance (ISR) capabilities and denying the understanding of U.S. capability, capacity, readiness and critical technology and information from adversaries. These investments spur Department innovation and preserve U.S. technology superiority. DOSI analyses and engineering activities lead the community's ability to sustain and maximize technology advantages as they are transitioned to Service and Agency programs for sustainment, maintenance, and capacity programming. Results of tests and evaluations enable the community to identify OPSEC measure and countermeasure effectiveness in current and emerging operational environments.

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

	FY 2019	FY 2020	FY 2021
Title: Defense Operations Security Initiative	2.892	3.037	3.099
<p>Description: RDT&E investments focused on countering advances in non-U.S. ISR capabilities and denying understanding of U.S. capability, capacity, readiness and critical technology and information. These investments spurred Department innovation towards preserving U.S. information and technology superiority. DOSI's analyses and engineering activities enabled the OPSEC community's ability to sustain and maximize technological advantages.</p> <p>FY 2019 Accomplishments:</p> <ul style="list-style-type: none"> - Development of critical infrastructure protection playbook for utilization by Commanders of OCONUS bases possessing key infrastructure of targeting interest to non-U.S. ISR - Development of unique signature emulation and denial technologies to counter A2/AD capabilities and present operational dilemmas - Development of unique technical prototypes to protect critical technology and information <p>FY 2020 Plans:</p> <ul style="list-style-type: none"> - Oversee research, development, and testing on next generation capabilities that counter foreign ISR capabilities and deny understanding of U.S. capability, capacity, readiness and critical technology and information. - Developing unique technical cyber prototypes to protect critical technology and information. 			

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2019	FY 2020	FY 2021
<ul style="list-style-type: none"> - Developing OPSEC cyber framework for enabling signature management towards denying collection and exploitation of critical technology and information. - Developing unique technical capability to protect specific ground systems and units from non-U.S. ISR capabilities. <p>FY 2021 Plans:</p> <ul style="list-style-type: none"> - Continue to oversee research, development, and testing on next generation capabilities that counter foreign ISR capabilities and deny understanding of U.S. capability, capacity and readiness. - Continue to provide oversight and advocacy for transitioning developed capabilities into formalized program offices and program executive offices across DoD Components. - Continue to participate in Defense RDT&E processes to advance basic and applied research, science, and technology, and technology development and testing to elevate OPSEC capability and capacity across the Department. <p>FY 2020 to FY 2021 Increase/Decrease Statement: No significant change.</p>			
Accomplishments/Planned Programs Subtotals	2.892	3.037	3.099

	FY 2019	FY 2020
<p>Congressional Add: Cyber Kinetic Range Capabilities - Development of Playas Training and Research Center (PTRC) as a facility of interest in the execution of the Cyber Kinetic Combat Environment activities.</p> <p>FY 2019 Accomplishments: - -Conducted Proof of Concept (POC) 2 demonstrating multi-discipline training potential.</p> <ul style="list-style-type: none"> - Developed plans and documentation to support establishment of secure facilities at Socorro and Playas. - Conducted POC 3 integrating airborne and terrestrial effects, introducing Joint Information Operations Range (JIOR) access and exercise classified capabilities. <p>FY 2020 Plans: - Establish Full Operating Capability for Government Furnished Equipment Cell network system.</p> <ul style="list-style-type: none"> - Advance JIOR connectivity, remote access, trenching fiber build. - Perform Radio Frequency (RF) survey for fiber network infrastructure development. - Validate open air RF operations, airspace and Electronic Attack spectrum clearance expansion. - Support additional POC for warfighter requirements development and infrastructure build. - Build/upgrade Playas security infrastructure. - Build/upgrade network connectivity to support terrestrial and airborne integration. 	7.000	5.000
Congressional Adds Subtotals	7.000	5.000

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

<u>Line Item</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>			<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Cost To</u>	
			<u>Base</u>	<u>OCO</u>	<u>Total</u>					<u>Complete</u>	<u>Total Cost</u>
• 0203345D8Z O&M DW: <i>Defense Operations Security Initiative</i>	1.954	2.738	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

Remarks

D. Acquisition Strategy

The acquisition, management, and contracting strategy involves the following:

- Adhere to guidance outlined in DoD 5000, Directive 7, Federal Acquisition Regulations (FAR), and FAR Supplement Policies and Procedures.
- RDT&E OPSEC capabilities, systems, tools, products, and services through a disciplined, yet agile, process that ensures signature management and signature obfuscation capabilities are available for DoD components.
- Sustain an acquisition process that is responsive and responsible to internal and external customers and stakeholders.
- Continue to support the warfighter's need for capabilities that dominate today's dynamic, networked battlespace by providing strategy across the DoD for the planning and execution of OPSEC.