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Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Office of the Secretary Of Defense **Date:** May 2021

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0305304D8Z I DoD Enterprise Energy Information Management (EEIM)
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COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	13.918	4.537	3.273	2.227	-	2.227	-	-	-	-	-	-
305: <i>Real Property Accountability</i>	12.027	4.188	1.952	1.878	-	1.878	-	-	-	-	-	-
306: <i>DoD Siting Clearinghouse</i>	1.686	0.349	0.349	0.349	-	0.349	-	-	-	-	-	-
307: <i>Cyber Security</i>	0.205	0.000	0.972	0.000	-	0.000	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

Established in FY 2013, supporting the Department’s goals for audit readiness, energy efficiency, Real Property accountability, and to improve data quality and integration across the full spectrum of Sustainment business functions. DoD Enterprise Energy Information Management is used to conduct Business Process Re-engineering activities, developing and publishing data standards, and to build out data stores and portal requirements for Energy Resiliency and Conservation Investment Program (ERCIP) management. Funding is also used to support the Assistant Secretary of Defense (ASD) Sustainment Senior Real Property Officer accountability requirements, such as, reconciliation of enterprise real property inventory records and development of asset management processes, business rules and associated data standards. A major component of this effort is fielding an enterprise Data Analytics and Integration Support (DAIS) platform coupled with an independent verification and validation capability, providing access to real time data through Web Services Description Language (WSDL) in support of timely, data-driven decision-making.

B. Program Change Summary (\$ in Millions)

	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022 Base</u>	<u>FY 2022 OCO</u>	<u>FY 2022 Total</u>
Previous President's Budget	4.373	3.275	2.601	-	2.601
Current President's Budget	4.537	3.273	2.227	-	2.227
Total Adjustments	0.164	-0.002	-0.374	-	-0.374
• Congressional General Reductions	-	-0.002			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	0.164	-			
• SBIR/STTR Transfer	-	-			
• Program Adjustments	-	-	-0.374	-	-0.374

Change Summary Explanation

The FY 2022 funding request was reduced by \$1.234 million to account for the availability of prior year execution balances.

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Office of the Secretary Of Defense **Date:** May 2021

Appropriation/Budget Activity 0400 / 5					R-1 Program Element (Number/Name) PE 0305304D8Z / DoD Enterprise Energy In formation Management (EEIM)				Project (Number/Name) 305 / Real Property Accountability			
COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
305: Real Property Accountability	12.027	4.188	1.952	1.878	-	1.878	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Real Property Inventory fulfills requirements of Executive Orders to achieve and maintain real property accountability and is a key component supporting both audit readiness and life-cycle asset management activities. This funding provides the department independent verification and validation needed to reconcile data errors, promoting improved data quality and facilitating interoperability with Service systems to provide an enterprise view of asset management across the real property lifecycle from acquisition to disposal. Oversight and configuration management of business rules and standards are used to determine requirements, manage inventory records, and improve business processes. This initiative includes development and procurement of the enterprise data warehouse for integrating existing and future Sustainment systems and database needs. The required Real Property Unique Identifier (RPUID) process is included in this enterprise system.

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

	FY 2020	FY 2021	FY 2022
Title: Real Property Accountability	4.188	1.952	1.878
Description: The ASD Sustainment is the Senior Real Property Officer for DoD, responsible for accountability and utilization of all DoD Real Property Assets. This funding provides the department an enterprise data warehouse coupled with an independent verification and validation capability. The DoD Real Property Accountability efforts are mandated by Executive Order and Public Law for improved reporting and utilization of federal real property, and to support data-driven decisions.			
FY 2021 Plans: Continue to support reconciliation and audit corrective action plan efforts by identifying errors/inconsistencies in Real Property inventory records, asset accountability and management processes, and business rules and associated data. Continue Data Analytics and Integration Support (DAIS) platform and Web Services Description Language (WSDL) implementation to improve data quality supporting multiple analyses.			
FY 2022 Plans: Continue to support reconciliation and audit corrective action plan efforts by identifying errors/inconsistencies in Real Property inventory records, asset accountability and management processes, and business rules and associated data. Continue Data Analytics and Integration Support (DAIS) platform and Web Services Description Language (WSDL) implementation to improve data quality supporting multiple analyses.			
FY 2021 to FY 2022 Increase/Decrease Statement:			

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Office of the Secretary Of Defense		Date: May 2021
Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0305304D8Z / DoD Enterprise Energy Information Management (EEIM)	Project (Number/Name) 305 / Real Property Accountability

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2020	FY 2021	FY 2022
The FY 2022 funding request was reduced by \$0.262 million to account for the availability of prior year execution balances.			
Accomplishments/Planned Programs Subtotals	4.188	1.952	1.878

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

N/A

Remarks

D. Acquisition Strategy

Program utilizes Washington Headquarters Services Acquisition Directorate for EEIM contract support requirements.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Office of the Secretary Of Defense **Date:** May 2021

Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0305304D8Z / DoD Enterprise Energy Information Management (EEIM)	Project (Number/Name) 305 / Real Property Accountability
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Product Development (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
El&E Data Analytics & Integration Platform	C/FFP	FTC : Herndon VA	1.588	1.951	Mar 2020	0.750	Mar 2021	0.703	Mar 2022	-		0.703	Continuing	Continuing	-
Subtotal			1.588	1.951		0.750		0.703		-		0.703	Continuing	Continuing	N/A

Remarks
NA

Support (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
BSI Support Contract Extension	C/FFP	ANSER : Mark Center	8.910	-		-		1.175	Apr 2022	-		1.175	Continuing	Continuing	-
Defense Installation Spatial Data Infrastructure (DISDI) IGI&S Portal	MIPR	USACE : CRREL	0.948	0.350	May 2020	0.202	May 2021	-		-		-	Continuing	Continuing	-
BSI Support Contract Re-compete (7 Month Base)	C/FFP	TBD : Mark Center	0.581	1.887	Apr 2020	1.000	Apr 2021	-		-		-	Continuing	Continuing	-
Subtotal			10.439	2.237		1.202		1.175		-		1.175	Continuing	Continuing	N/A

Remarks
NA

	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals		12.027	4.188	1.952	1.878	-	1.878	Continuing	Continuing	N/A

Remarks
NA

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Exhibit R-4, RDT&E Schedule Profile: PB 2022 Office of the Secretary Of Defense **Date:** May 2021

Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0305304D8Z / DoD Enterprise Energy Information Management (EEIM)	Project (Number/Name) 305 / Real Property Accountability
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ID	Task Name	Start	Finish	2020				2021				2022			
				Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4
1	EI&E DBS PFM Reviews	10/01/18	continuous	[Task spans all quarters from 2020 to 2022]											
2	Develop FY-20 BEA Artifacts	01/01/19	01/30/21	[Task spans from Q1 2019 to Q1 2021]											
3	RPIM Updates	11/01/20	11/30/22	[Task spans from Q4 2020 to Q4 2022]											
4	EI&E BPR	10/01/20	03/20/22	[Task spans from Q4 2020 to Q1 2022]											
5	IV&V	10/01/18	continuous	[Task spans all quarters from 2020 to 2022]											
6	EI&E Processes Auditability	10/01/20	09/30/21	[Task spans from Q4 2020 to Q3 2021]											
7	EI&E Data Analytics & Integrat	10/01/20	09/30/22	[Task spans from Q4 2020 to Q3 2022]											
8	DISDI IGI&S Portal	10/01/20	09/30/22	[Task spans from Q4 2020 to Q3 2022]											

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Exhibit R-4A, RDT&E Schedule Details: PB 2022 Office of the Secretary Of Defense		Date: May 2021
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>PfM</i>				
Sustainment DBS PfM Reviews	1	2019	4	2021
Develop BEA Artifacts	2	2019	4	2020
<i>Real Property Asset Management</i>				
RPIM Updates	1	2018	1	2021
Sustainment BPR	4	2018	2	2020
IV&V	1	2018	4	2021
Sustainment Process & System Auditability	4	2018	4	2020
Sustainment Data Analytics & Integration	1	2019	4	2021
DISDI IGI&S Portal	1	2020	4	2021

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Office of the Secretary Of Defense **Date:** May 2021

Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0305304D8Z / DoD Enterprise Energy Information Management (EEIM)	Project (Number/Name) 306 / DoD Siting Clearinghouse
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COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
306: DoD Siting Clearinghouse	1.686	0.349	0.349	0.349	-	0.349	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

The DoD Siting Clearinghouse is charged by statute to identify technical mitigation measures necessary to overcome degradation of radar from the proliferation of industrial wind turbine development. This research and development is necessary to work with Federally Funded Research and Development Centers (FFRDCs) to study potential technical improvements to radar.

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

	FY 2020	FY 2021	FY 2022
Title: DoD Siting Clearinghouse	0.349	0.349	0.349
Description: The DoD Siting Clearinghouse works with FFRDCs to identify technical mitigation measures necessary to overcome degradation of radar from the proliferation of industrial wind turbine development. This research and development is necessary to study potential technical improvements to radar.			
FY 2021 Plans: Continue to support radar studies as planned through the Wind Turbine Interference Mitigation Forum.			
FY 2022 Plans: Continue to support radar studies as planned through the Wind Turbine Interference Mitigation Forum.			
Accomplishments/Planned Programs Subtotals	0.349	0.349	0.349

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

N/A

Remarks

D. Acquisition Strategy

The Clearinghouse will work this through existing efforts with FFRDCs.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Office of the Secretary Of Defense **Date:** May 2021

Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0305304D8Z / DoD Enterprise Energy Information Management (EEIM)	Project (Number/Name) 306 / DoD Siting Clearinghouse
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Test and Evaluation (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Coordinate Tech Studies of to overcome Impacts to Radar	FFRDC	TBD : TBD	1.686	0.349	Jan 2020	0.349	Jan 2021	0.349	Jan 2022	-		0.349	Continuing	Continuing	-
Subtotal			1.686	0.349		0.349		0.349		-		0.349	Continuing	Continuing	N/A

Remarks
NA

	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	1.686	0.349	0.349	0.349	-	0.349	Continuing	Continuing	N/A

Remarks
NA

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Exhibit R-4, RDT&E Schedule Profile: PB 2022 Office of the Secretary Of Defense **Date:** May 2021

Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0305304D8Z / DoD Enterprise Energy Information Management (EEIM)	Project (Number/Name) 306 / DoD Siting Clearinghouse
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ID	Task Name	Start	Finish	2019				2020				2021	
				Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2
2	Develop FY-20 Program	10/01/18	06/30/19										
3	FY-20 Study Eval	01/01/20	09/31/20										
4	Develop FY-21 Program	10/01/19	06/30/20										
3	FY-21 Study Eval	01/01/21	03/31/21										

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Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0305304D8Z / DoD Enterprise Energy Information Management (EEIM)	Project (Number/Name) 306 / DoD Siting Clearinghouse
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ID	Task Name	Start	Finish	2020				2021				2022	
				Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2
2	Develop FY-21 Program	10/01/19	06/30/20										
3	FY-21 Study Eval	01/01/21	09/31/21										
4	Develop FY-22 Program	10/01/20	06/30/21										
3	FY-22 Study Eval	01/01/22	03/31/22										

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Exhibit R-4A, RDT&E Schedule Details: PB 2022 Office of the Secretary Of Defense		Date: May 2021
Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0305304D8Z / DoD Enterprise Energy Information Management (EEIM)	Project (Number/Name) 306 / DoD Siting Clearinghouse

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
DoD Siting Clearinghouse				
Develop FY 2020 Program	1	2019	4	2019
FY 2020 Study Eval	1	2020	4	2020
Develop FY 2021 Program	4	2019	3	2020
FY 2021 Study Evaluation	1	2021	4	2021

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Office of the Secretary Of Defense **Date:** May 2021

Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0305304D8Z / DoD Enterprise Energy Information Management (EEIM)	Project (Number/Name) 307 / Cyber Security
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COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
307: Cyber Security	0.205	0.000	0.972	0.000	-	0.000	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

The current state of cyber security of energy-related (and other real property-related) control systems (such as the electronic/computer controls on heating, ventilation and air conditioning equipment) is deficient, and the adjusted EEIM baseline supports a multi-year real property-related control systems cyber security initiative to address these issues.

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

	FY 2020	FY 2021	FY 2022
<p>Title: Real Property</p> <p>Description: The current state of cyber security of energy-related (and other real property-related) control systems (such as the electronic/computer controls on heating, ventilation & air conditioning equipment) is deficient. This effort supports a multi-year real property-related control systems cyber security initiative to address these issues. So far it has generated an updated DoD CIO RMF Knowledge Service Portal with controls systems cyber security implementation guidance for practitioners (templates, key references, step-by-step instructions, look-up tables, etc.)</p> <p>Controls systems cyber security Tactics, Techniques and Procedures (TTPS) has transitioned from Joint Base Architecture for Secure Industrial Control Systems (J-BASICS). The department is implementing Platform Resilience Mission Assurance (PRMA) assessments across ten installations.</p> <p>This effort has also generated policy direction to Services and Agencies including a draft Department of Defense Instruction, a draft Department of Defense Manual and Security Handling Guide for data representing energy systems.</p> <p>FY 2021 Plans: Continue to support multiyear real property-related controls systems cyber security risk assessments and development of guidelines and training manuals for future in house procedures. Finalize DoD actions supporting the joint initiative with Department of Energy (DOE) this year.</p> <p>FY 2022 Plans: Support Real Property Data Analysis, Installation Geospatial Information and Services deficits and Clearing House program requirements not covered by shortages in existing elements. Cyber requirements no longer funded by this element starting with FY 2021.</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement:</p>	0.000	0.972	0.000

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Office of the Secretary Of Defense		Date: May 2021
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2020	FY 2021	FY 2022
The FY 2022 funding request was reduced by \$0.972 million to account for the availability of prior year execution balances.			
Accomplishments/Planned Programs Subtotals	0.000	0.972	0.000

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Office of the Secretary Of Defense **Date:** May 2021

Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0305304D8Z / DoD Enterprise Energy In formation Management (EEIM)	Project (Number/Name) 307 / Cyber Security
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Support (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
DISDI Portal	C/FFP	USACE Contracted Vendor : USACE	-	-		0.500	Apr 2021	0.000	Mar 2022	-		0.000	Continuing	Continuing	-
Subtotal			-	-		0.500		0.000		-		0.000	Continuing	Continuing	N/A

Test and Evaluation (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Platform Resilience Mission Assurance (PRMA)	MIPR	ARMAMENT RDEC : BLDG 91 4TH AVE, PICATINNY ARSENAL NJ 07806-5000	0.205	0.000	May 2020	-		-		-		-	Continuing	Continuing	-
Continue to support radar studies as planned through the Wind Turbine Interference Mitigation Forum.	FFRDC	TBD : TBD	-	-		0.472	May 2021	0.000	May 2022	-		0.000	Continuing	Continuing	-
Subtotal			0.205	0.000		0.472		0.000		-		0.000	Continuing	Continuing	N/A

Remarks
NA

	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.205	0.000	0.972	0.000	-	0.000	Continuing	Continuing	N/A

Remarks
NA

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Exhibit R-4, RDT&E Schedule Profile: PB 2022 Office of the Secretary Of Defense **Date:** May 2021

Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0305304D8Z / DoD Enterprise Energy Information Management (EEIM)	Project (Number/Name) 307 / Cyber Security
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ID	Task Name	Start	Finish	2020				2021				2022							
				Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4				
2	Develop FY-21 Program	10/01/19	06/30/20																
3	FY-21 Study Eval	01/01/21	09/31/21																
4	Develop FY-22 Program	10/01/20	06/30/21																
3	FY-22 Study Eval	01/01/22	03/31/22																
3	Develop FY-20 Program	03/01/20	02/28/21																
4	FY20 PRMA Evaluations	07/01/20	09/30/21																
	DISDI IGI&S Portal	10/01/20	09/30/22																

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Exhibit R-4A, RDT&E Schedule Details: PB 2022 Office of the Secretary Of Defense		Date: May 2021
Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0305304D8Z / DoD Enterprise Energy Information Management (EEIM)	Project (Number/Name) 307 / Cyber Security

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>DoD Facility Related Controls Cyber Security Risk Assessment</i>				
FY 2019 PRMA Evaluations	4	2019	3	2020
Develop FY 2020 Program	2	2020	2	2021
FY 2020 PRMA Evaluations	4	2020	4	2021