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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2020 Navy **Date:** March 2019

<b>Appropriation/Budget Activity</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy / BA 4: Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>					<b>R-1 Program Element (Number/Name)</b> PE 0603739N / <i>Navy Logistic Productivity</i>							
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020 Base</b>	<b>FY 2020 OCO</b>	<b>FY 2020 Total</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
Total Program Element	48.607	2.882	2.913	3.857	-	3.857	3.943	4.086	4.125	4.207	Continuing	Continuing
2955: <i>JEDMICS</i>	45.563	2.301	2.913	2.880	-	2.880	2.896	3.043	3.107	3.169	Continuing	Continuing
3223: <i>Logistics R&amp;D</i>	3.044	0.581	0.000	0.977	-	0.977	1.047	1.043	1.018	1.038	Continuing	Continuing

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

JUSTIFICATION FOR BUDGET ACTIVITY: This program is funded under ADVANCED COMPONENT DEVELOPMENT AND PROTOTYPES because it includes all efforts necessary to evaluate integrated technologies, representative models or prototype systems in a high fidelity and realistic operating environment.

Includes development and evaluation of incentive systems for improving the productivity of civilian and military personnel. Identifies barriers to increased productivity and evaluates the effect of removing them. Develops techniques for easing the introduction of new technology to the work place. Identifies and evaluates methods for improving the quality of work-life.

Excludes civilian and military manpower and their related costs and military construction costs which are included in appropriate Management and Support elements in this program.

<b><u>B. Program Change Summary (\$ in Millions)</u></b>	<b><u>FY 2018</u></b>	<b><u>FY 2019</u></b>	<b><u>FY 2020 Base</u></b>	<b><u>FY 2020 OCO</u></b>	<b><u>FY 2020 Total</u></b>
Previous President's Budget	2.995	4.059	4.018	-	4.018
Current President's Budget	2.882	2.913	3.857	-	3.857
Total Adjustments	-0.113	-1.146	-0.161	-	-0.161
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-1.146			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.113	0.000			
• Program Adjustments	0.000	0.000	-0.161	-	-0.161
• Rate/Misc Adjustments	0.000	0.000	0.000	-	0.000

## **Change Summary Explanation**

The FY 2020 funding request was reduced by \$.161 million to account for the availability of prior year execution balances. The increase from FY 2019 to FY 2020 is due to new supply chain optimization initiatives, Next Generation Radio Frequency Identification (RFID) technology, and to accommodate additional material studies and analysis.

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Navy										Date: March 2019		
Appropriation/Budget Activity 1319 / 4					R-1 Program Element (Number/Name) PE 0603739N / Navy Logistic Productivity				Project (Number/Name) 2955 / JEDMICS			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
2955: JEDMICS	45.563	2.301	2.913	2.880	-	2.880	2.896	3.043	3.107	3.169	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

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

In FY85 Congress directed the Services and Defense Logistics Agency to permanently capture, manage and control engineering data in digital format so it would be available to support competitive spares re-procurement. The Joint Engineering Data Management Information & Control System (JEDMICS) program manages and controls 100,000,000 engineering images and has 13,000 authorized users responsible for over 77,000 user sessions per month. Over 1.2 million digital images are retrieved each month. New data and new users are added each month as DoD re-engineers its business processes to take advantage of digital data that is managed and controlled for corporate reuse. The JEDMICS system is deployed at 5 interoperable sites that service user locations worldwide. Data stored in JEDMICS is used for Logistics Support, Spares re-procurement, Weapons Systems procurement, Engineering, Maintenance, Distribution, Manufacturing, Air National Guard and Deployed Engineering Technical Services organizations. JEDMICS facilitates work process re-design since it brings the electronic drawings to the desktop, shop floor or flight line in real time eliminating walk, wait and slack time to retrieve drawings. Additionally, Administrative Lead Time, Repair Turn Around Time, Engineering Change Proposal processing time, demilitarization time, and all cycle times dependent on engineering data have decreased with the real time availability of digital engineering data. JEDMICS also facilitates Electronic Commerce since it produces digital technical data packages that can be forwarded along with an electronic order. Funds are for Commercial Off The Shelf (COTS) test, evaluation and integration. JEDMICS development efforts are required to integrate and test COTS upgrades.

**B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)**

	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020 Base</b>	<b>FY 2020 OCO</b>	<b>FY 2020 Total</b>
<b>Title:</b> JEDMICS Development	2.249	2.861	2.828	0.000	2.828
<b>Articles:</b>	-	-	-	-	-
<b>Description:</b> Conduct development efforts associated with JEDMICS software releases. Conduct COTS requirements definition, evaluation, integration and testing of annual baseline releases. Conduct technology insertion of the JEDMICS system that is required to protect the \$21B digital data asset managed in JEDMICS.					
These annual releases are necessary to incorporate changes that are essential to keeping the system running within the Navy's Enterprise. They include Service mandated Information Technology changes, storage capability increases for emerging engineering data formats, changes to accommodate commercial hardware and software end-of-life product obsolescence, and defenses for newly recognized Information Assurance vulnerabilities affecting the systems various software applications.					
<b>FY 2019 Plans:</b>					

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Navy				Date: March 2019		
Appropriation/Budget Activity 1319 / 4		R-1 Program Element (Number/Name) PE 0603739N / Navy Logistic Productivity		Project (Number/Name) 2955 / JEDMICS		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Develop and integrate JEDMICS Software Release 3.0.20. <b>FY 2020 Base Plans:</b> Develop and integrate JEDMICS Software Release 3.0.21. <b>FY 2020 OCO Plans:</b> N/A <b>FY 2019 to FY 2020 Increase/Decrease Statement:</b> The decrease from FY 2019 to FY 2020 is due to a reduction to system integration testing.						
<b>Title:</b> JEDMICS Test <b>Articles:</b> <b>Description:</b> Conduct test and readiness reviews and functional performance tests on JEDMICS system. <b>FY 2019 Plans:</b> Complete DT of JEDMICS Software Release 3.0.19. Initiate DT of JEDMICS Software Release 3.0.20. <b>FY 2020 Base Plans:</b> Complete DT of JEDMICS Software Release 3.0.20. Initiate DT of JEDMICS Software Release 3.0.21. <b>FY 2020 OCO Plans:</b> N/A <b>FY 2019 to FY 2020 Increase/Decrease Statement:</b> There is no change from FY 2019 to FY 2020.		0.026 -	0.026 -	0.026 -	0.000 -	0.026 -
<b>Title:</b> JEDMICS Evaluation & Review <b>Articles:</b> <b>Description:</b> Conduct technical evaluations and configuration control reviews of JEDMICS system. <b>FY 2019 Plans:</b> Conduct technical evaluations and reviews for JEDMICS Software Release 3.0.21. <b>FY 2020 Base Plans:</b> Conduct technical evaluations and review for JEDMICS Software Release 3.0.22. <b>FY 2020 OCO Plans:</b>		0.026 -	0.026 -	0.026 -	0.000 -	0.026 -

# UNCLASSIFIED

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2020 Navy				<b>Date:</b> March 2019	
<b>Appropriation/Budget Activity</b> 1319 / 4		<b>R-1 Program Element (Number/Name)</b> PE 0603739N / Navy Logistic Productivity		<b>Project (Number/Name)</b> 2955 / JEDMICS	
<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>		<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020 Base</b>	<b>FY 2020 OCO</b>
N/A					
<b>FY 2019 to FY 2020 Increase/Decrease Statement:</b> There is no change from FY 2019 to FY 2020.					
<b>Accomplishments/Planned Programs Subtotals</b>		2.301	2.913	2.880	0.000
<b>C. Other Program Funding Summary (\$ in Millions)</b> N/A					
<b>Remarks</b>					
<b>D. Acquisition Strategy</b> Competitively awarded requirements type contract for engineering, design, development and test efforts. Performance-based reviews conducted quarterly by the Project Management Office.					
<b>E. Performance Metrics</b> <ol style="list-style-type: none"> <li>1. Complete testing, integration, &amp; upgrade of three major embedded Commercial Off-the-Shelf products.</li> <li>2. Test &amp; integrate system Information Assurance Vulnerability Management software patch upgrades four times.</li> <li>3. Complete development, testing, &amp; integration of a minimum twenty corrected high-priority software problem reports.</li> </ol>					

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2020 Navy</b>													<b>Date:</b> March 2019		
<b>Appropriation/Budget Activity</b> 1319 / 4						<b>R-1 Program Element (Number/Name)</b> PE 0603739N / Navy Logistic Productivity				<b>Project (Number/Name)</b> 2955 / JEDMICS					

<b>Support (\$ in Millions)</b>				<b>FY 2018</b>		<b>FY 2019</b>		<b>FY 2020 Base</b>		<b>FY 2020 OCO</b>		<b>FY 2020 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Development Support	C/IDIQ	Smartertronix : Hollywood, MD	1.489	0.157	Oct 2017	0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Development Support	C/IDIQ	KBR/Wyle : Lexington Park, MD	0.000	0.000		0.160	Oct 2018	0.000		-		0.000	0.000	0.160	0.160
Development Support	TBD	TBD : TBD	0.000	0.000		0.000		0.160	Oct 2019	-		0.160	0.000	0.160	-
Software Development	Various	Northrop Grumman Information : McLean, VA	39.610	2.092	Nov 2017	2.701	Nov 2018	2.668	Nov 2019	-		2.668	Continuing	Continuing	Continuing
Prior Year Support no Longer Funded in Budget Year or Out years	Various	Various : Various	0.216	0.000		0.000		0.000		-		0.000	0.000	0.216	-
<b>Subtotal</b>			41.315	2.249		2.861		2.828		-		2.828	Continuing	Continuing	N/A

**Remarks**

Remarks: Funds are for development efforts associated with Commercial Off The Shelf (COTS) obsolescence on the fully deployed COTS Intensive Joint Engineering Data Management Information & Control System. Funds are for COTS evaluation, integration, and test and evaluation. The common baseline will be maintained and obsolete COTS software and hardware will be replaced. Baseline releases will protect joint interoperability, upgrade operating systems for security patches and supportable versions, support integration to replace obsolete COTS, and upgrade the Oracle database to supportable versions.

<b>Test and Evaluation (\$ in Millions)</b>				<b>FY 2018</b>		<b>FY 2019</b>		<b>FY 2020 Base</b>		<b>FY 2020 OCO</b>		<b>FY 2020 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Developmental Test & Evaluation	MIPR	WR-ALC/TILAB : Robins AFB, GA	2.572	0.026	Oct 2017	0.026	Oct 2018	0.026	Oct 2019	-		0.026	Continuing	Continuing	Continuing
<b>Subtotal</b>			2.572	0.026		0.026		0.026		-		0.026	Continuing	Continuing	N/A

**Remarks**

Supports testing and evaluation of baseline releases in a user environment.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2020 Navy												Date: March 2019			
Appropriation/Budget Activity 1319 / 4						R-1 Program Element (Number/Name) PE 0603739N / Navy Logistic Productivity				Project (Number/Name) 2955 / JEDMICS					
Management Services (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Support	WR	Naval Air Warfare Center : NAS Patuxent River, MD	0.305	0.015	Oct 2017	0.015	Oct 2018	0.015	Oct 2019	-		0.015	Continuing	Continuing	Continuing
Travel	Various	Various : Various	0.288	0.011	Jul 2018	0.011	Jul 2019	0.011	Jul 2020	-		0.011	Continuing	Continuing	Continuing
Prior Year Mgmt no Longer Funded in Budget Year or Out years	Various	Various : Various	1.083	0.000		0.000		0.000		-		0.000	0.000	1.083	-
Subtotal			1.676	0.026		0.026		0.026		-		0.026	Continuing	Continuing	N/A
Remarks Supports program compliance reviews and program related travel by government employees.															
			Prior Years	FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			45.563	2.301		2.913		2.880		-		2.880	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2020 Navy

Date: March 2019

Appropriation/Budget Activity  
1319 / 4

R-1 Program Element (Number/Name)  
PE 0603739N / Navy Logistic Productivity

Project (Number/Name)  
2955 / JEDMICS

JEDMICS	FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024			
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
Aquisition Milestones																												
Page/Group/Row																												
IOC		Release 3.0.18 ▲				Release 3.0.19 ▲				Release 3.0.20 ▲				Release 3.0.21 ▲				Release 3.0.22 ▲				Release 3.0.23 ▲				Release 3.0.24 ▲		

2020DON - 0603739N - 2955

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2020 Navy																				Date: March 2019								
Appropriation/Budget Activity 1319 / 4										R-1 Program Element (Number/Name) PE 0603739N / Navy Logistic Productivity										Project (Number/Name) 2955 / JEDMICS								
Requirements: Service IPT/ECPs	FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024			
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
				3.0.20 ▼				3.0.21 ▼				3.0.22 ▼				3.0.23 ▼				3.0.24 ▼				3.0.25 ▼				3.0.26 ▼



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**Appropriation/Budget Activity**  
1319 / 4

**R-1 Program Element (Number/Name)**  
PE 0603739N / Navy Logistic Productivity

2020DON - 0603739N - 2955

**UNCLASSIFIED**

**Exhibit R-4, RDT&E Schedule Profile: PB 2020 Navy**

Date: March 2019

**Appropriation/Budget Activity**

1319 / 4

R-1 Program Element (Number/Name)	Program Element Description	Program Element Status	Program Element Comments

PE 0603739N / Navy Logistic Productivity

Project (Number/Name)	Start Date	End Date	Status	Manager	Budget (USD)	Actual Cost (USD)	Variance (USD)	Progress (%)	Risk Level	Notes
101/Alpha	2023-01-15	2023-03-31	Completed	J. Doe	120000	118000	2000	100	Low	Minor budget variance.
102/Beta	2023-02-01	2023-05-15	In Progress	A. Smith	250000	260000	-10000	75	Medium	Costs slightly over budget.
103/Gamma	2023-03-10	2023-06-30	On Hold	M. Chen	80000	80000	0	20	High	Project paused due to resource allocation.
104/Delta	2023-04-01	2023-07-31	Planned	S. Kim	150000	150000	0	0	Medium	Initial planning phase.
105/Epsilon	2023-05-01	2023-08-31	Not Started	L. Garcia	90000	90000	0	0	Low	Awaiting client approval.

2955 / JEDMICS

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2020DON - 0603739N - 2955

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Navy

R-1 Line #63

**R-1 Program Element (Number/Name)**  
PE 0603739N / Navy Logistic Productivity

**Project (Number/Name)**  
2955 / JEDMICS

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PE 0603739N: *Navy Logistic Productivity*  
Navy

R-1 Line #63

**Project (Number/Name)**  
2955 / JEDMICS

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Exhibit R-4, RDT&E Schedule Profile: PB 2020 Navy																							Date: March 2019					
Appropriation/Budget Activity 1319 / 4												R-1 Program Element (Number/Name) PE 0603739N / Navy Logistic Productivity								Project (Number/Name) 2955 / JEDMICS								
Alpha/Beta Testing	FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024			
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
				3.0.19				3.0.20				3.0.21				3.0.22				3.0.23				3.0.24				3.0.25
Deliveries																												
2020DON - 0603739N - 2955																												

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PE 0603739N: *Navy Logistic Productivity*  
Navy

R-1 Line #63

**Project (Number/Name)**  
2955 / JEDMICS

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2020DON - 0603739N - 2955

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2020 Navy			<b>Date:</b> March 2019
<b>Appropriation/Budget Activity</b> 1319 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603739N / Navy Logistic Productivity	<b>Project (Number/Name)</b> 2955 / JEDMICS	

**Schedule Details**

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>JEDMICS</b>				
Aquisition Milestones: IOC: IOC Release 3.0.18	2	2018	2	2018
Aquisition Milestones: IOC: IOC Release 3.0.19	2	2019	2	2019
Aquisition Milestones: IOC: IOC Release 3.0.20	2	2020	2	2020
Aquisition Milestones: IOC: IOC Release 3.0.21	2	2021	2	2021
Aquisition Milestones: IOC: IOC Release 3.0.22	2	2022	2	2022
Aquisition Milestones: IOC: IOC Release 3.0.23	2	2023	2	2023
Aquisition Milestones: IOC: IOC Release 3.0.24	2	2024	2	2024
Aquisition Milestones: Requirements: Service IPT/ECPs: Service IPT/ECPs Release 3.0.20	4	2018	4	2018
Aquisition Milestones: Requirements: Service IPT/ECPs: Service IPT/ECPs Release 3.0.21	4	2019	4	2019
Aquisition Milestones: Requirements: Service IPT/ECPs: Service IPT/ECPs Release 3.0.22	4	2020	4	2020
Aquisition Milestones: Requirements: Service IPT/ECPs: Service IPT/ECPs Release 3.0.23	4	2021	4	2021
Aquisition Milestones: Requirements: Service IPT/ECPs: Service IPT/ECPs Release 3.0.24	4	2022	4	2022
Aquisition Milestones: Requirements: Service IPT/ECPs: Service IPT/ECPs Release 3.0.25	4	2023	4	2023
Aquisition Milestones: Requirements: Service IPT/ECPs: Service IPT/ECPs Release 3.0.26	4	2024	4	2024
Aquisition Milestones: Contract Award: 2018 Contract Award	1	2018	1	2018
Aquisition Milestones: Contract Award: 2019 Contract Award	1	2019	1	2019
Aquisition Milestones: Contract Award: 2020 Contract Award	1	2020	1	2020

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Exhibit R-4A, RDT&E Schedule Details: PB 2020 Navy			Date: March 2019	
Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0603739N / Navy Logistic Productivity		Project (Number/Name) 2955 / JEDMICS	
	Start		End	
Events by Sub Project	Quarter	Year	Quarter	Year
Aquisition Milestones: Contract Award: 2021 Contract Award	1	2021	1	2021
Aquisition Milestones: Contract Award: 2022 Contract Award	1	2022	1	2022
Aquisition Milestones: Contract Award: 2023 Contract Award	1	2023	1	2023
Aquisition Milestones: Contract Award: 2024 Contract Award	1	2024	1	2024
Aquisition Milestones: Software & Hardware Evaluation/Integration: Software Hardware Evaluation/Integration Release 3.0.19	1	2018	3	2018
Aquisition Milestones: Software & Hardware Evaluation/Integration: Software Hardware Evaluation/Integration Release 3.0.20	1	2019	3	2019
Aquisition Milestones: Software & Hardware Evaluation/Integration: Software Hardware Evaluation/Integration Release 3.0.21	1	2020	3	2020
Aquisition Milestones: Software & Hardware Evaluation/Integration: Software Hardware Evaluation/Integration Release 3.0.22	1	2021	3	2021
Aquisition Milestones: Software & Hardware Evaluation/Integration: Software Hardware Evaluation/Integration Release 3.0.23	1	2022	3	2022
Aquisition Milestones: Software & Hardware Evaluation/Integration: Software Hardware Evaluation/Integration Release 3.0.24	1	2023	3	2023
Aquisition Milestones: Software & Hardware Evaluation/Integration: Software Hardware Evaluation/Integration Release 3.0.25	1	2024	3	2024
Test & Evaluation Milestones: Risk Assesment: Risk Assessment Release 3.0.19	3	2018	3	2018
Test & Evaluation Milestones: Risk Assesment: Risk Assessment Release 3.0.20	3	2019	3	2019
Test & Evaluation Milestones: Risk Assesment: Risk Assessment Release 3.0.21	3	2020	3	2020
Test & Evaluation Milestones: Risk Assesment: Risk Assessment Release 3.0.22	3	2021	3	2021
Test & Evaluation Milestones: Risk Assesment: Risk Assessment Release 3.0.23	3	2022	3	2022
Test & Evaluation Milestones: Risk Assesment: Risk Assessment Release 3.0.24	3	2023	3	2023
Test & Evaluation Milestones: Risk Assesment: Risk Assessment Release 3.0.25	3	2024	3	2024
Test & Evaluation Milestones: Developmental/Functional Testing: Developmental/Functional Testing Release 3.0.19	4	2018	4	2018



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Exhibit R-4A, RDT&E Schedule Details: PB 2020 Navy			Date: March 2019	
Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0603739N / Navy Logistic Productivity		Project (Number/Name) 2955 / JEDMICS	
	Start		End	
Events by Sub Project	Quarter	Year	Quarter	Year
Test & Evaluation Milestones: Developmental/Functional Testing: Developmental/Functional Testing Release 3.0.20	4	2019	4	2019
Test & Evaluation Milestones: Developmental/Functional Testing: Developmental/Functional Testing Release 3.0.21	4	2020	4	2020
Test & Evaluation Milestones: Developmental/Functional Testing: Developmental/Functional Testing Release 3.0.22	4	2021	4	2021
Test & Evaluation Milestones: Developmental/Functional Testing: Developmental/Functional Testing Release 3.0.23	4	2022	4	2022
Test & Evaluation Milestones: Developmental/Functional Testing: Developmental/Functional Testing Release 3.0.24	4	2023	4	2023
Test & Evaluation Milestones: Developmental/Functional Testing: Developmental/Functional Testing Release 3.0.25	4	2024	4	2024
Test & Evaluation Milestones: Alpha/Beta Testing: Alpha/Beta Testing Release 3.0.19	4	2018	1	2019
Test & Evaluation Milestones: Alpha/Beta Testing: Alpha/Beta Testing Release 3.0.20	4	2019	1	2020
Test & Evaluation Milestones: Alpha/Beta Testing: Alpha/Beta Testing Release 3.0.21	4	2020	1	2021
Test & Evaluation Milestones: Alpha/Beta Testing: Alpha/Beta Testing Release 3.0.22	4	2021	1	2022
Test & Evaluation Milestones: Alpha/Beta Testing: Alpha/Beta Testing Release 3.0.23	4	2022	1	2023
Test & Evaluation Milestones: Alpha/Beta Testing: Alpha/Beta Testing Release 3.0.24	4	2023	4	2023
Test & Evaluation Milestones: Alpha/Beta Testing: Alpha/Beta Testing Release 3.0.25	4	2024	4	2024
Deliveries: Engineering Change Package: Engineering Change Package Release 3.0.18	2	2018	2	2018
Deliveries: Engineering Change Package: Engineering Change Package Release 3.0.19	2	2019	2	2019
Deliveries: Engineering Change Package: Engineering Change Package Release 3.0.20	2	2020	2	2020
Deliveries: Engineering Change Package: Engineering Change Package Release 3.0.21	2	2021	2	2021
Deliveries: Engineering Change Package: Engineering Change Package Release 3.0.22	2	2022	2	2022

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Exhibit R-4A, RDT&E Schedule Details: PB 2020 Navy			Date: March 2019		
Appropriation/Budget Activity 1319 / 4		R-1 Program Element (Number/Name) PE 0603739N / Navy Logistic Productivity		Project (Number/Name) 2955 / JEDMICS	
		Start		End	
Events by Sub Project		Quarter	Year	Quarter	Year
Deliveries: Engineering Change Package: Engineering Change Package Release 3.0.23		2	2023	2	2023
Deliveries: Engineering Change Package: Engineering Change Package Release 3.0.24		2	2024	2	2024

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Navy										Date: March 2019		
Appropriation/Budget Activity 1319 / 4					R-1 Program Element (Number/Name) PE 0603739N / Navy Logistic Productivity				Project (Number/Name) 3223 / Logistics R&D			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
3223: Logistics R&D	3.044	0.581	0.000	0.977	-	0.977	1.047	1.043	1.018	1.038	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

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

Stable annual funding is required to facilitate implementation and execution of a robust, flexible Logistics R&D program that will provide the means for Naval Supply Systems Command (NAVSUP) to effectively pursue solutions to mission-related capability and technology gaps. The NAVSUP Logistics R&D program has an established infrastructure and business process for ensuring that R&D funds are applied to projects that address high priority enterprise needs established in accordance with OPNAV goals and the NAVSUP Commander's Guidance.

From a process perspective, Logistics R&D investments are governed by a NAVSUP enterprise-wide Executive Steering Group (ESG) chaired by the NAVSUP Vice Commander, and comprised of SES and Command leadership representatives. The ESG ratifies capability and technology gaps identified by all activities within the enterprise, and then assesses and prioritizes all proposed Logistics R&D initiatives in accordance with their potential for filling the established gap and generating return on investment.

The established Logistics R&D business management process has currently identified capability/technology gaps in the following general areas: 1) the need to develop formalized food service management techniques that focus on increased efficiency of new and existing systems and facilities. 2) the need to modernize quality of life (QOL) services to improve overall services, offer additional desired features and reduce total ownership costs, 3) the need to assess clothing protection for the warfighter in areas of thermal/flame threats, protective footwear, and physical (hearing, vibration, etc.) clothing/accessories, 4) the need to develop logistics data access and information sharing through enhanced Graphical User Interfaces (GUI) and web-based data services, 5) the need to develop a capability that allows Integrated Logistics Support (ILS) repair and modernization tools, 6) the need to leverage breakthrough technologies to improve supply chain processing. This modest R&D investment will establish a NAVSUP Logistics R&D Program to explore additional technologies and significantly increase potential cost savings.

**B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)**

	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020 Base</b>	<b>FY 2020 OCO</b>	<b>FY 2020 Total</b>
<b>Title:</b> Supply Chain Optimization	0.000	0.000	0.355	0.000	0.355
<b>Articles:</b>	-	-	-	-	-
<b>Description:</b> Enable innovation in our supply chain processes in the areas of data sciences, logistics IT application development, and quality engineering through incorporation of Science, Technology, Engineering, and Math (STEM) projects performed by interns and academia.					
Perform market research on emerging supply chain technologies and methods that could be adopted to support the DoN/DoD material supply chain.					

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Navy			Date: March 2019			
Appropriation/Budget Activity 1319 / 4		R-1 Program Element (Number/Name) PE 0603739N / Navy Logistic Productivity	Project (Number/Name) 3223 / Logistics R&D			
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Developed a new functionality (software supporting data structure and migration of current data) within Ordinance Information System (OIS) that provides visibility of serialized assets use and requirements.  <b>FY 2019 Plans:</b> N/A  <b>FY 2020 Base Plans:</b> Additive Manufacturing/3D Printing: Continue to drive towards SECNAV Additive Manufacturing (AM) goals and enable NAVSUP logistics innovation projects. Integrate AM as an order fulfillment strategy to increase readiness and improve maintenance and sustainment operations through reducing long-lead times and eliminating obsolescence-related issues. Furthermore, the technology enables improvements to current systems (e.g., weight reduction, part count reduction, increased system performance) through designs that are not possible by conventional manufacturing techniques. (\$112K)  Data Sciences and Logistics Engineering STEM Projects: Continued innovation in our supply chain processes in the areas of Data Sciences, Data Analytics, Logistics IT application development, and Quality Engineering through incorporation of Science, Technology, Engineering, and Math (STEM) projects performed by computer science interns and academia, which allows us to bridge the gaps in new methods of data utilization and industry trends. (\$43K)  Artificial Intelligence (AI) for custom code: Develop an AI solution to allow for business constraints to be dynamically adapted to current solutions, whether a Commercial Off the Shelf (COTS), Government Off the Shelf (GOTS) or a custom solution. DoD unique business rules exist while multiple systems implement business rules with differing logic. Given the DoD unique business rules that exist and multiple systems that implement business rules in many different ways, the AI can learn from all of those existing applications. The objective is for AI development that can automate learning to ensure the gaps that exist in out-of-the box solutions are identified and implemented before a product is released. (\$100K)  Artificial Intelligence for (AI) for Information Assurance (IA) vulnerabilities: Current IA processes require many highly qualified resources. IA and security processes require extensive hours to accomplish vital tasks that keep our Sailors' data safe and this dependency on humans introduces risk. Develop an AI automated learning solution to ensure future vulnerabilities that could be exploited to gain unauthorized system access to enterprise logistics systems are identified and corrected before the vulnerability is exploited. Specific areas to be addressed will include non-stop and true continuous monitoring of enterprise logistics IT systems. The AI						

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Navy				Date: March 2019		
Appropriation/Budget Activity 1319 / 4		R-1 Program Element (Number/Name) PE 0603739N / Navy Logistic Productivity		Project (Number/Name) 3223 / Logistics R&D		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
solution developed will provide consistent, secure, and scalable security measures to be implemented during all phases of the development cycle in a flexible, scalable and agile means. (\$100K)  <b>FY 2020 OCO Plans:</b> N/A  <b>FY 2019 to FY 2020 Increase/Decrease Statement:</b> The increase from FY 2019 to FY 2020 is due to the new initiative for supply chain optimization.						
<b>Title:</b> Quality of Life Services Modernization & Cost Reduction (Initiative 2)  <b>Articles:</b>  <b>Description:</b> NAVSUP Quality of Life (QOL) services include subsistence in kind (SIK) food service, retail, postal, laundry, vending, barber shop, household goods and disbursing/Navy Cash, are in many cases inefficient, costly to operate, and lack easy access to the comprehensive information required to make informed management decisions impacting execution of routine supporting business processes. QOL services aims to leverage new technology which will improve support information systems, security, health, etc., and reduce total ownership costs. NAVSUP owns the Food Service Program for the Navy as part of logistics and quality of life programs and is responsible for managing the overall policy including training, food safety, and implementation of "Go for Green" program for the Navy. "Go for Green" is a DoD program that promotes healthful food and beverage choices in order to optimize the performance, readiness, and health of our service members. Future funding may include projects such as new platforms being developed to focus on human performance, physical training and nutrition applications that will be integrated with the "Go for Green" DoD effort.  <b>FY 2019 Plans:</b> N/A  <b>FY 2020 Base Plans:</b> N/A  <b>FY 2020 OCO Plans:</b> N/A  <b>FY 2019 to FY 2020 Increase/Decrease Statement:</b> N/A		0.252 -	0.000 -	0.000 -	0.000 -	0.000 -
<b>Title:</b> Readiness through Logistics Solutions  <b>Articles:</b>		0.128 -	0.000 -	0.361 -	0.000 -	0.361 -

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Navy				Date: March 2019		
Appropriation/Budget Activity 1319 / 4		R-1 Program Element (Number/Name) PE 0603739N / Navy Logistic Productivity		Project (Number/Name) 3223 / Logistics R&D		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
<p><b>Description:</b> Supply chain improvements are required to support logistics efficiency and Fleet readiness through logistics solutions technological improvements. Develop technological capabilities that improve Naval Logistics in part or in its record (from manufacture, storage, delivery, use, maintenance, and disposal).</p> <p><b>FY 2019 Plans:</b> N/A</p> <p><b>FY 2020 Base Plans:</b> RFID Interface: Perform case study assessment of Next Generation RFID technology and Real Time Location System (RTLS) graphical user interface scalability. FY 2019 prototype must be proofed via tangible real-world industrial environments. Case studies will demonstrate technology by monitoring logistics information such as forklift flow optimization and aviation aircraft engine monitoring at long term storage facilities. (\$361K)</p> <p><b>FY 2020 OCO Plans:</b> N/A</p> <p><b>FY 2019 to FY 2020 Increase/Decrease Statement:</b> The increase from FY 2019 to FY 2020 is to support RFID technology and Real Time Location System (RTLS) research.</p>						
<p><b>Title:</b> Clothing Protection for the Warfighter</p> <p><b>Articles:</b></p> <p><b>Description:</b> Identify challenges to effectively manage durability and safety aspects of common work/combat uniforms for the warfighter. Eliminate risk of hazardous factors such as fire, weather, and general wear/tear to maximize readiness and strength in Fleet uniforms. Assist with specifications associated with permanent press finish related to the rollout of the Navy's Type III uniform.</p> <p><b>FY 2019 Plans:</b> N/A</p> <p><b>FY 2020 Base Plans:</b> "Green" Laundering Services: Validate new "green" shipboard laundering formulas for Navy uniforms subject to shipboard laundering. The new "green" formulation is a replacement of harsh chemicals with high acidity, with an enzymatic detergent that requires lower water temperatures and lower water consumption wash cycles, and a potential reduction of the wear and fading effects on uniforms, as well as a reduction of these chemical products stowed on-board in large quantities. Validation will allow NAVSUP to understand the effects of the chemicals on</p>		0.201 -	0.000 -	0.261 -	0.000 -	0.261 -

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Navy				Date: March 2019		
Appropriation/Budget Activity 1319 / 4		R-1 Program Element (Number/Name) PE 0603739N / Navy Logistic Productivity		Project (Number/Name) 3223 / Logistics R&D		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
appearance, color change, and special finishes on Navy uniforms. An updated shipboard formulation will further support OPNAV's Environmental Readiness Program. (\$75K)						
Product Lifecycle Management (PLM) digital platform: Enhance efficiency in the management and standardization of materials documentations in support of uniform development of USN Uniforms and Materials. Over the years, the Navy Clothing and Textile Research Facility (NCTRF) has amassed extensive data on USN uniforms, fabrics and trims. With each garment and material update, multiple files must be created or amended manually and then stored in various server locations. As time goes on, employees transition and files multiply; the man hours to locate, research and review information on current uniforms and materials has increased. Incorporation of a PLM digital platform will streamline the garment creation process and reduce costs by effectively managing USN uniforms and materials with a product lifecycle management tool. Effort includes development, trial and inclusion of this tool into navy clothing and textile research efforts. (\$61K)						
Navy Boot Enhancement: Develop, select and integrate Foreign Object Damage (FOD) and slip resistant outsole. An evaluation conducted in FY18 revealed that the outsole of the current boot was not FOD-resistant and has poor split resistance in flight deck environments. Determine the characteristics of an outsole (tread design and rubber compound) that meet the FOD-resistance and slip requirements of multiple Navy environments. The objective is to develop a common outsole that meets or exceeds safety boot requirements for all Navy communities and work environments. (\$75K)						
E-yarn Development for embedded garment performance monitoring: Initiate a study related to the incorporation of e-yarns to support monitoring of personnel data to support safety goals. Technology changes driving new ship design will require a real-time connection between the ship and the sailor for delivery and receipt of information and data to and from the sailor. The challenge is connecting all the systems together with the sailor into intelligible human-system interfaces, so that, the ship of the future will be securely controlled by fewer sailors located anywhere on board. Study will research innovative multi-functional garment systems with embedded technologies to become the structure for robust human-systems interface. (\$50K)						
FY 2020 OCO Plans: N/A						
FY 2019 to FY 2020 Increase/Decrease Statement: The increase from FY 2019 to FY 2020 is to accommodate additional material studies and analysis.						
Accomplishments/Planned Programs Subtotals		0.581	0.000	0.977	0.000	0.977

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2020 Navy		<b>Date:</b> March 2019
<b>Appropriation/Budget Activity</b> 1319 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603739N / <i>Navy Logistic Productivity</i>	<b>Project (Number/Name)</b> 3223 / <i>Logistics R&amp;D</i>
<b>C. Other Program Funding Summary (\$ in Millions)</b> N/A		
<b>Remarks</b>		
<b>D. Acquisition Strategy</b> NAVSUP R&D executed through firm fixed price negotiated contracts and NAVSUP support. Performance-based reviews conducted quarterly by the Project Management Office.		
<b>E. Performance Metrics</b> Development of capability and technology gaps initiatives are monitored quarterly by the NAVSUP R&D Program Management Office.		



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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2020 Navy** **Date:** March 2019

<b>Appropriation/Budget Activity</b> 1319 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603739N / Navy Logistic Productivity	<b>Project (Number/Name)</b> 3223 / Logistics R&D
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Product Development (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Effective Food Service Management	C/FFP	Various : Various	0.000	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Quality of Life Services Modernization & Cost Reduction (Initiative 1)	C/FFP	BSC : Mechanicsburg, PA	0.259	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Quality of Life Services Modernization & Cost Reduction (Initiative 2)	C/FFP	Various : Various	0.785	0.252	Jan 2018	0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Readiness through Logistics Solutions	C/FFP	SSDM : Scott AFB, IL	1.075	0.128	Dec 2017	0.000		0.355	Dec 2019	-		0.355	Continuing	Continuing	Continuing
Clothing Protection for the Warfighter	C/FFP	NCTRF : Natick, MA	0.925	0.201	Dec 2017	0.000		0.361	Oct 2019	-		0.361	Continuing	Continuing	Continuing
Supply Chain Optimization	C/FFP	Varios : Varios	0.000	0.000		0.000		0.261	Dec 2019	-		0.261	Continuing	Continuing	Continuing
<b>Subtotal</b>			3.044	0.581		0.000		0.977		-		0.977	Continuing	Continuing	N/A

**Remarks**

NLP funding of \$581K was dispersed through the following projects: Sea Service Deployment Module (SSDM), Navy Type III Uniform, Augmented Reality Technology, and the Whissler Apparel Model. Sea Service Deployment Module will modernize a unit move information technology system to facilitate FY15 JROCM mandates, pending IA certification requirements as well as (Naval) forces required use of the force deployment planning and execution business procedures. These projects will conduct comprehensive research, testing, and evaluations to provide solid result of improvements needed to sustain the Fleet uniform initiatives.

	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>	3.044	0.581	0.000	0.977	-	0.977	Continuing	Continuing	N/A

**Remarks**

In previous plans, NAVSUP forecast budget requirements based on projections rooted in the current year's capability gaps. As our priorities and Strategic Guidance evolves so does our budget requirements. Through leveraging new technologies, NAVSUP will enhance efforts for supply ashore and distant support. We will strengthen our supply chain information technology and management solutions for supply and financial requirements. We will collaborate with partners to improve the quality-of-life experiences and expand services to deployed forces. NAVSUP will continue to build an ethical and effective workforce dedicated to the mission by developing new technological programs that are advantageous to the warfighter. We will reduce risk and minimize vulnerabilities to protect against disruptions to supply chain and business systems. All of our actions will follow a culture of moral excellence to successfully execute the current and future missions of NAVSUP.

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**Exhibit R-4, RDT&E Schedule Profile: PB 2020 Navy**

**Date:** March 2019

**Appropriation/Budget Activity**

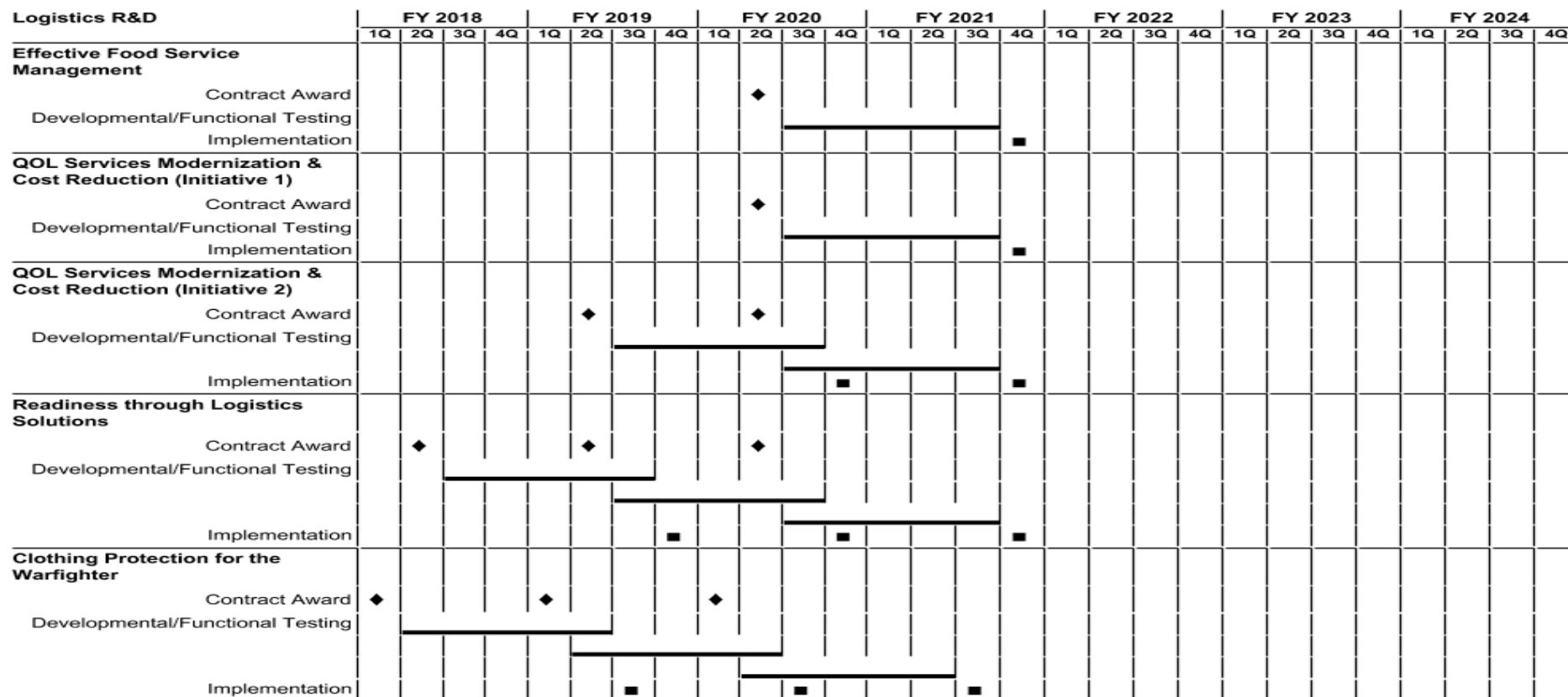
1319 / 4

**R-1 Program Element (Number/Name)**

PE 0603739N / Navy Logistic Productivity

**Project (Number/Name)**

3223 / Logistics R&D



2020DON - 0603739N - 3223

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Exhibit R-4A, RDT&amp;E Schedule Details: PB 2020 Navy

Date: March 2019

Appropriation/Budget Activity

1319 / 4

R-1 Program Element (Number/Name)

PE 0603739N / Navy Logistic Productivity

Project (Number/Name)

3223 / Logistics R&amp;D

## Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>Logistics R&amp;D</b>				
Supply Chain Optimization: Contract Award: FY 2020 Contract Award	2	2020	2	2020
Supply Chain Optimization: Developmental/Functional Testing: Developmental/Functional Testing	3	2020	3	2021
Supply Chain Optimization: Implementation: Implementation	4	2021	4	2021
QOL Services Modernization & Cost Reduction (Initiative 1): Contract Award:	2	2020	2	2020
QOL Services Modernization & Cost Reduction (Initiative 1): Developmental/Functional Testing: Developmental/Functional Testing	3	2020	3	2021
QOL Services Modernization & Cost Reduction (Initiative 1): Implementation: Implementation	4	2021	4	2021
QOL Services Modernization & Cost Reduction (Initiative 2): Contract Award: FY 2020 Contract Award	2	2020	2	2020
QOL Services Modernization & Cost Reduction (Initiative 2): Contract Award: FY 2020 Developmental/Functional Testing	3	2020	3	2021
Readiness through Logistics Solutions: Contract Award: FY 2018 Contract Award	2	2018	2	2018
Readiness through Logistics Solutions: Contract Award: FY 2020 Contract Award	2	2020	2	2020
Readiness through Logistics Solutions: Developmental/Functional Testing: FY 2018 Developmental/Functional Testing	3	2018	3	2019
Readiness through Logistics Solutions: Developmental/Functional Testing: FY 2020 Developmental/Functional Testing	3	2020	3	2021
Readiness through Logistics Solutions: Implementation: FY 2018 Implementation	4	2019	4	2019
Readiness through Logistics Solutions: Implementation: FY 2020 Implementation	4	2021	4	2021
Clothing Protection for the Warfighter: Contract Award: FY 2018 Contract Award	1	2018	1	2018
Clothing Protection for the Warfighter: Contract Award: FY 2020 Contract Award	1	2020	1	2020

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Exhibit R-4A, RDT&E Schedule Details: PB 2020 Navy			Date: March 2019		
Appropriation/Budget Activity 1319 / 4		R-1 Program Element (Number/Name) PE 0603739N / Navy Logistic Productivity		Project (Number/Name) 3223 / Logistics R&D	
		Start		End	
Events by Sub Project		Quarter	Year	Quarter	Year
Clothing Protection for the Warfighter: Developmental/Functional Testing: FY 2018 Developmental/Functional Testing		2	2018	2	2019
Clothing Protection for the Warfighter: Developmental/Functional Testing: FY 2020 Developmental/Functional Testing		2	2020	2	2021
Clothing Protection for the Warfighter: Implementation: FY 2018 Implementation		3	2019	3	2019
Clothing Protection for the Warfighter: Implementation: FY 2020 Implementation		3	2021	3	2021