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**Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Navy** **Date:** April 2022

<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 0604030N / <i>Rapid Prototyping, Experimentation &amp; Dem</i>
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COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
Total Program Element	34.895	11.697	0.000	57.000	-	57.000	0.000	0.000	0.000	0.000	0.000	103.592
0385: <i>Rapid Prototype Development</i>	0.000	0.000	0.000	6.420	-	6.420	0.000	0.000	0.000	0.000	0.000	6.420
1036: <i>TETRA</i>	11.995	2.410	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	14.405
1037: <i>MK 38 MOD 4</i>	22.900	9.287	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	32.187
2803: <i>Classified #5</i>	0.000	0.000	0.000	3.500	-	3.500	0.000	0.000	0.000	0.000	0.000	3.500
2804: <i>OCTOPUS</i>	0.000	0.000	0.000	17.580	-	17.580	0.000	0.000	0.000	0.000	0.000	17.580
2805: <i>GRASP-X</i>	0.000	0.000	0.000	3.750	-	3.750	0.000	0.000	0.000	0.000	0.000	3.750
2806: <i>Classified #1</i>	0.000	0.000	0.000	20.000	-	20.000	0.000	0.000	0.000	0.000	0.000	20.000
2807: <i>Hyperspectral Upgrade to Classified #2</i>	0.000	0.000	0.000	5.750	-	5.750	0.000	0.000	0.000	0.000	0.000	5.750

**Note**

The Navy's Rapid Prototyping, Experimentation and Demonstration (RPED) program with oversight and accountability of projects funded by the DON Accelerated Acquisition Board of Directors (AABoD) concluded in FY21. As a result, Navy did not request FY22 RPED funding. To support the Office of the Under Secretary of Defense for Research and Engineering (OUSD(R&E)), Rapid Defense Experimentation Reserve (RDER) initiative, the projects described herein are the Navy RDER projects, or the Navy's portion of joint service RDER projects, as directed by OUSD(R&E).

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

To facilitate rapid modernization of the force, the RDER initiative was established in the Defense Planning Guidance for Fiscal Year 2023-2027, to encourage multi-component experimentation through a campaign of learning. Services, Agencies, and other participating organizations are to identify "best of breed" capabilities developed among the DoD prototyping programs, and execute approved projects through large-scale experiments in order to refine and/or validate the Joint Warfighting Concept (JWC). Organizations are to nominate proposals to the Office of the Under Secretary of Defense for Research and Engineering (OUSD(R&E)) that are multi-component involving Joint Services, International partners and/or other government agencies and link to one or more of the four key supporting concepts ("functional battles") of the Joint Warfighting Concept: Joint Concept for Fires, Joint Concept for Command and Control, Joint Concept for Contested Logistics, and Joint Concept for Information Advantage.

The Department will implement multiple RDER experimentation series through Service nominated projects with execution timelines ranging from one to two years. The USD (R&E) will review project progress, and recommend new projects at least annually with the goal of quickly incorporating the most promising innovative prototypes into experiments, and promptly terminating projects that fail to achieve expectations. To incentivize a disciplined approach to rapidly identify, incorporate, and execute projects largely through the Military Services, the Department will fund approved Service projects for the upcoming fiscal year out of the Department reserves. Funding

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<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 0604030N / <i>Rapid Prototyping, Experimentation &amp; Dem</i>
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decisions on additional funds in follow-on years for new projects, and funding decrements for project terminations will be incorporated in budgets annually based on emerging requirements and periodic assessments of project viability. Services will execute these funds under oversight of the OSD in a manner consistent with the experimentation scenario for which individual projects were selected.

Service experimentation outcomes will be designed to validate required capabilities enabling the JWC by evaluating and integrating prototyped technologies in operationally relevant, multi-domain environments. Experimentation results will facilitate Joint Staff analysis in the evaluation of the Joint Warfighting Concept, assist the Joint Requirements Oversight Counsel in requirements determination, and inform the Deputy's Management Action Group to make budget decisions that effect changes throughout the Department.

Advanced Component Development and Prototypes (ACD&P) efforts necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment are funded in this Program Element (PE). Most of the work in this PE can be classified between Technology Readiness Level (TRL) 6 (system/subsystem model or prototype demonstration in a relevant environment) and TRL 7 (system prototype demonstration in an operational environment).

<b><u>B. Program Change Summary (\$ in Millions)</u></b>	<b><u>FY 2021</u></b>	<b><u>FY 2022</u></b>	<b><u>FY 2023 Base</u></b>	<b><u>FY 2023 OCO</u></b>	<b><u>FY 2023 Total</u></b>
Previous President's Budget	12.046	0.000	0.000	-	0.000
Current President's Budget	11.697	0.000	57.000	-	57.000
Total Adjustments	-0.349	0.000	57.000	-	57.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.349	0.000			
• Rate/Misc Adjustments	0.000	0.000	0.000	-	0.000
• Adjustments to Budget Year	-	-	57.000	-	57.000

**Change Summary Explanation**

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FY 2023 funding increase reflects the fact that the FY 2022 President's Budget request did not include out-year funding.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 Navy										<b>Date:</b> April 2022		
<b>Appropriation/Budget Activity</b> 1319 / 4					<b>R-1 Program Element (Number/Name)</b> PE 0604030N / <i>Rapid Prototyping, Experimentation &amp; Dem</i>				<b>Project (Number/Name)</b> 0385 / <i>Rapid Prototype Development</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
0385: <i>Rapid Prototype Development</i>	0.000	0.000	0.000	6.420	-	6.420	0.000	0.000	0.000	0.000	0.000	6.420
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

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

To facilitate rapid modernization of the force, the RDER initiative was established in the Defense Planning Guidance for Fiscal Year 2023-2027, to encourage multi-component experimentation through a campaign of learning. Services, Agencies, and other participating organizations are to identify "best of breed" capabilities developed among the DoD prototyping programs, and execute approved projects through large-scale experiments in order to refine and/or validate the Joint Warfighting Concept (JWC). Organizations are to nominate proposals to the Office of the Under Secretary of Defense for Research and Engineering (OUSD(R&E)) that are multi-component ? involving Joint Services, International partners and/or other government agencies ? and link to one or more of the four key supporting concepts ("functional battles") of the Joint Warfighting Concept: Joint Concept for Fires, Joint Concept for Command and Control, Joint Concept for Contested Logistics, and Joint Concept for Information Advantage.

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

	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
<b>Title:</b> Rapid Prototype Development	0.000	0.000	6.420	0.000	6.420
<b>Articles:</b>	-	-	-	-	-
<b>FY 2022 Plans:</b> N/A					
<b>FY 2023 Base Plans:</b> Continue to explore promising and innovative maritime domain technologies that support the OUSD(R&E) RDER initiative. Identify technology candidates and prototypes capable of operational demonstrations in relevant environments that facilitate Joint Staff analysis in the evaluation of the Joint Warfighting Concept and assist the Joint Requirements Oversight Counsel in requirements determination.					
<b>FY 2023 OCO Plans:</b> N/A					
<b>FY 2022 to FY 2023 Increase/Decrease Statement:</b> FY 2023 increase associated with the initiation of RDER for Identification of technology candidates and prototypes capable of operational demonstrations in relevant environments.					
<b>Accomplishments/Planned Programs Subtotals</b>	0.000	0.000	6.420	0.000	6.420

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Navy		Date: April 2022
Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0604030N / Rapid Prototyping, Experimentation & Dem	Project (Number/Name) 0385 / Rapid Prototype Development

**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 2023 Navy** **Date:** April 2022

<b>Appropriation/Budget Activity</b> 1319 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604030N / <i>Rapid Prototyping, Experimentation &amp; Dem</i>	<b>Project (Number/Name)</b> 0385 / <i>Rapid Prototype Development</i>
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<b>Support (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
Tech Candidates and Prototypes	TBD	Not Specified : Not Specified	0.000	0.000		0.000		6.420	Dec 2022	-		6.420	0.000	6.420	-
<b>Subtotal</b>			0.000	0.000		0.000		6.420		-		6.420	0.000	6.420	N/A

**Remarks**  
Identification of technology candidates and prototypes approved by the Office of the Under Secretary of Defense for Research and Engineering (OUSD(R&E)) Rapid Defense Experimentation Reserve (RDER) initiative

	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>	0.000	0.000	0.000	6.420	-	6.420	0.000	6.420	N/A

**Remarks**

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**Exhibit R-4, RDT&E Schedule Profile: PB 2023 Navy** **Date:** April 2022

<b>Appropriation/Budget Activity</b> 1319 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604030N / <i>Rapid Prototyping, Experimentation &amp; Dem</i>	<b>Project (Number/Name)</b> 0385 / <i>Rapid Prototype Development</i>
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<b>Proj 0385</b>	<b>FY 2021</b>				<b>FY 2022</b>				<b>FY 2023</b>				<b>FY 2024</b>				<b>FY 2025</b>				<b>FY 2026</b>				<b>FY 2027</b>							
	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				
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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2023 Navy		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 1319 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604030N / <i>Rapid Prototyping, Experimentation &amp; Dem</i>	<b>Project (Number/Name)</b> 0385 / <i>Rapid Prototype Development</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>Proj 0385</b>				
Support identification of RDER technology candidates and prototypes	1	2023	4	2023

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**Exhibit R-2A, RDT&E Project Justification:** PB 2023 Navy **Date:** April 2022

<b>Appropriation/Budget Activity</b> 1319 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604030N / <i>Rapid Prototyping, Experimentation &amp; Dem</i>	<b>Project (Number/Name)</b> 1036 / TETRA
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COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
1036: TETRA	11.995	2.410	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	14.405
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

**Note**

Funds were transferred from the Rapid Prototype Development Project 0385 (PE0604030N) to newly established TETRA Project 1036. TETRA was submitted to the Accelerated Acquisition Board of Directors (AABoD) and approved as a Maritime Accelerated Acquisition (MAA) program. In FY22, TETRA transitions from a N94 Rapid Prototyping Experimentation and Demonstration (RPED) effort to a program of record (PoR) with OPN LI 1611 and OMN/14D4D funds.

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

TETRA is a remotely operated vehicle (ROV) with the capacity for multiple mission payloads as key enabler to Subsea and Seabed Warfare (SSW) as identified in the SSW Initial Capabilities Document (ICD) signed March 2019. TETRA is planned to be a future optional payload for SSNs and SSGNs by expanding current capabilities not offered by either submarines or unmanned undersea vehicles (UUV) through real time situational awareness and SSW effects. This is a Maritime Accelerated Acquisition (MAA), which started in FY19, and will field an Initial Capability (IC) in FY22.

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

	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
<b>Title:</b> TETRA	2.410	0.000	0.000	0.000	0.000
<b>Articles:</b>	-	-	-	-	-
<b>FY 2022 Plans:</b> N/A					
<b>FY 2023 Base Plans:</b> N/A					
<b>FY 2023 OCO Plans:</b> N/A					
<b>Accomplishments/Planned Programs Subtotals</b>	2.410	0.000	0.000	0.000	0.000

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

Line Item	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
• OPN/1611: <i>Small &amp; Medium UUV</i>	0.000	3.500	8.000	-	8.000	10.000	3.500	3.500	0.000	0.000	28.500

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 Navy		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 1319 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604030N / <i>Rapid Prototyping, Experimentation &amp; Dem</i>	<b>Project (Number/Name)</b> 1036 / TETRA

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

<u>Line Item</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u> <u>Base</u>	<u>FY 2023</u> <u>OCO</u>	<u>FY 2023</u> <u>Total</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• OMN/1D4D: <i>Weapons Maintenance</i>	0.000	1.449	2.000	-	2.000	2.000	2.000	2.000	0.000	0.000	9.449

**Remarks**

OPN/1611 and OMN/1D4D numbers shown are only for TETRA efforts

**D. Acquisition Strategy**

Hardware and software development integration supporting product improvement addressing new mission area.

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Navy** **Date:** April 2022

<b>Appropriation/Budget Activity</b> 1319 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604030N / <i>Rapid Prototyping, Experimentation &amp; Dem</i>	<b>Project (Number/Name)</b> 1036 / TETRA
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<b>Product Development (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
Product Development	FFRDC	ARL/UT : Austin, TX	4.095	0.500	Nov 2020	0.000		0.000		-		0.000	0.000	4.595	-
Product Development	WR	NUWC NPT : Newport, RI	6.651	1.547	Oct 2020	0.000		0.000		-		0.000	0.000	8.198	-
Product Development	WR	Portsmouth : Portsmouth, NH	0.619	0.000	Oct 2020	0.000		0.000		-		0.000	0.000	0.619	-
Product Development	WR	NSWC CD : Carderock, MD	0.000	0.000	Oct 2020	0.000		0.000		-		0.000	0.000	0.000	-
Product Development	C/CPAF	HII : Newport News	0.000	0.000	Oct 2020	0.000		0.000		-		0.000	0.000	0.000	-
Product Development	FFRDC	PSU : State College, PA	0.400	0.000		0.000		0.000		-		0.000	0.000	0.400	-
Product Development	WR	PSNS : Bremerton, WA	0.160	0.125	Feb 2021	0.000		0.000		-		0.000	0.000	0.285	-
Product Development	WR	NUWC KPT : Keyport, WA	0.000	0.040	Jul 2021	0.000		0.000		-		0.000	0.000	0.040	-
<b>Subtotal</b>			11.925	2.212		0.000		0.000		-		0.000	0.000	14.137	N/A

<b>Test and Evaluation (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
Testing	WR	COMOPTEVFOR : Norfolk, VA	0.070	0.198	Jul 2021	0.000		0.000		-		0.000	0.000	0.268	-
<b>Subtotal</b>			0.070	0.198		0.000		0.000		-		0.000	0.000	0.268	N/A

	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract	
	<b>Project Cost Totals</b>		11.995	2.410	0.000	0.000	-	0.000	0.000	14.405

**Remarks**

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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2023 Navy		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 1319 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604030N / <i>Rapid Prototyping, Experimentation &amp; Dem</i>	<b>Project (Number/Name)</b> 1036 / TETRA

FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027			
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

<b>Proj 1036</b>	
AA Development: Begin Proc/Limited Qualification Testing	
Tetra System Mods: Thruster Upgrades	
Tetra System Mods: Autonomous L&R	
Tetra System Mods: Endurance Improvements	
Payload Development: Modular Payload Bay Development	
Payload Development: Updated Vehicle Interface Control Document	
Payload Development: Procurement	
Payload Development: Limited Integration Testing	
Virginia CL (VCS) TEMPALT Development: New VCS Stowage Development	
Virginia CL (VCS) TEMPALT Development: VCS TEMPALT Development	
Search Integration Into Tech Baseline: Cooperative Development with IWS5 and PMS425	

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2023 Navy		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 1319 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604030N / <i>Rapid Prototyping, Experimentation &amp; Dem</i>	<b>Project (Number/Name)</b> 1036 / TETRA

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>Proj 1036</b>				
AA Development: Begin Proc/Limited Qualification Testing	1	2021	4	2021
Tetra System Mods: Thruster Upgrades	1	2021	1	2021
Tetra System Mods: Autonomous L&R	1	2021	2	2021
Tetra System Mods: Endurance Improvements	1	2021	2	2021
Payload Development: Modular Payload Bay Development	1	2021	3	2021
Payload Development: Updated Vehicle Interface Control Document	1	2021	1	2021
Payload Development: Procurement	1	2021	3	2021
Payload Development: Limited Integration Testing	3	2021	4	2021
Virginia CL (VCS) TEMPALT Development: New VCS Stowage Development	1	2021	1	2021
Virginia CL (VCS) TEMPALT Development: VCS TEMPALT Development	1	2021	4	2021
Search Integration Into Tech Baseline: Cooperative Development with IWS5 and PMS425	1	2021	4	2021

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**Exhibit R-2A, RDT&E Project Justification:** PB 2023 Navy **Date:** April 2022

<b>Appropriation/Budget Activity</b> 1319 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604030N / <i>Rapid Prototyping, Experimentation &amp; Dem</i>	<b>Project (Number/Name)</b> 1037 / MK 38 MOD 4
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COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
1037: MK 38 MOD 4	22.900	9.287	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	32.187
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

**Note**

The 30mm MK 38 MOD 4 is the next version of the MK 38 Gun Weapon System (GWS). PE 0604030N Project 1037 develops the 30mm MK 38 MOD 4 and integrates it with the AEGIS combat system and shipboard sensors to address additional threats in theatre. PE 0603795N Project 2038 conducts qualification and logistics development of the 30mm MK 38 MOD 4 GWS. PE 0204228N BLI 4217 will procure and install the MK 38 MOD 4 for the Initial Capability on DDG-51 class ships.

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

The MK 38 MOD 4 30mm gun weapon system (GWS) will provide additional surface ship defense capability, addressing unmanned aerial systems (UAS) and high speed maneuverable unmanned surface vehicle (USV) threats. This is a Maritime Accelerated Acquisition (MAA), which will install an Initial Capability (IC) in Q1FY23 on DDG-51 ship class with AEGIS Baseline CP-22-1 combat system.

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

	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
<b>Title:</b> MK 38 MOD 4 30mm Gun Weapon System	9.287	0.000	0.000	0.000	0.000
<b>Articles:</b>	-	-	-	-	-
<b>FY 2022 Plans:</b> -Completed fire control software development. -Completed Gun Weapon System (GWS) integration. -Completed combat system integration.					
<b>FY 2023 Base Plans:</b> N/A					
<b>FY 2023 OCO Plans:</b> N/A					
<b>Accomplishments/Planned Programs Subtotals</b>	9.287	0.000	0.000	0.000	0.000

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

N/A

**Remarks**

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 Navy		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 1319 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604030N / <i>Rapid Prototyping, Experimentation &amp; Dem</i>	<b>Project (Number/Name)</b> 1037 / <i>MK 38 MOD 4</i>

**D. Acquisition Strategy**

Engineering and Technical support for integration of 30mm gun mount and electro-optical sensor with government-owned fire control system and shipboard combat system/sensors was competitively acquired using Other Transactional Authority (OTA) through the Defense Ordnance Technology Consortium (DOTC).

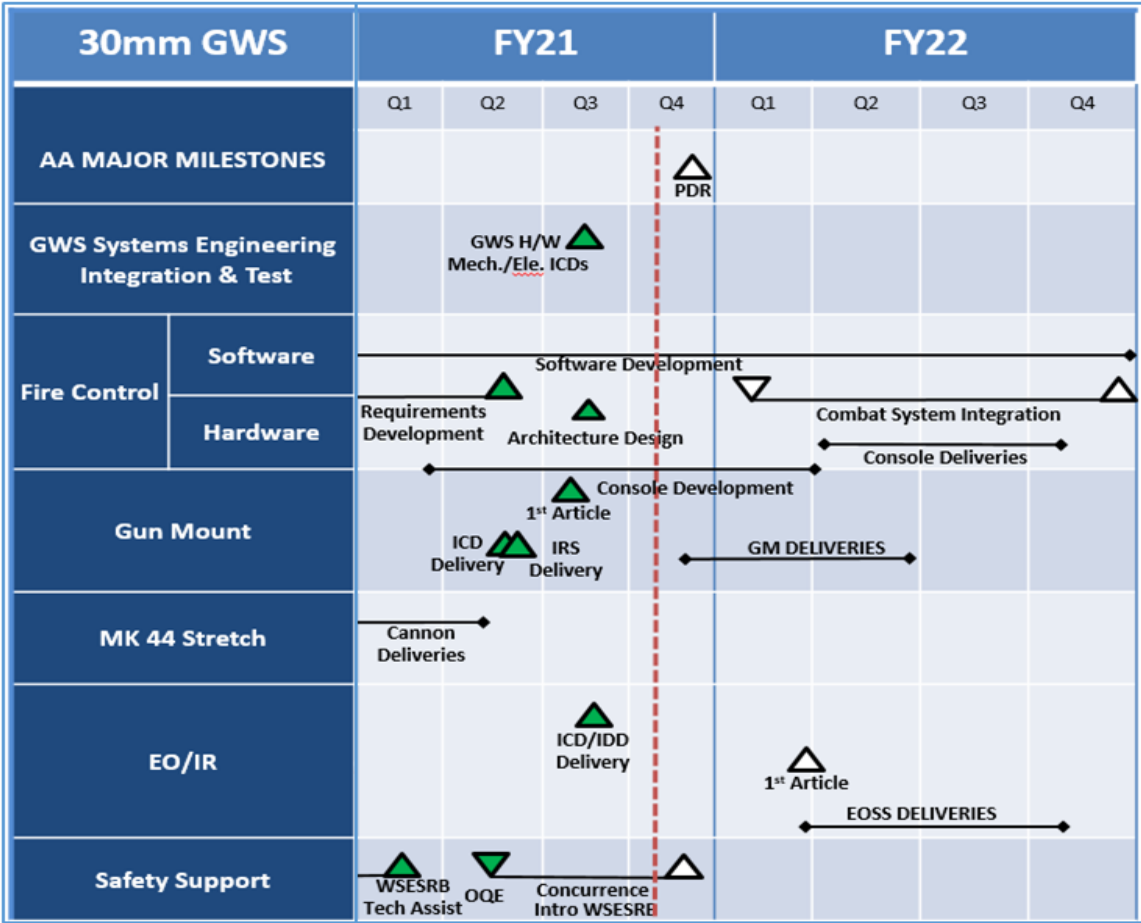
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Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Navy												Date: April 2022			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)					Project (Number/Name)						
1319 / 4				PE 0604030N / Rapid Prototyping, Experimentation & Dem					1037 / MK 38 MOD 4						
Product Development (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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
MOD 4 GWS Development	WR	NSWC DD : Dahlgren, VA	3.215	4.344	Nov 2020	0.000		0.000		-		0.000	0.000	7.559	-
Prototype Procurement	C/FFP	MSI : Rock Hill, SC	6.030	0.000		0.000		0.000		-		0.000	0.000	6.030	-
Combat System Integration	WR	NSWC DD : Dahlgren, VA	1.766	0.000		0.000		0.000		-		0.000	0.000	1.766	-
Procurement of 30/40mm MK 44S cannons	C/FFP	NGIS : Mesa, AZ	1.078	0.000		0.000		0.000		-		0.000	0.000	1.078	-
Fire Control System and Gun Mount Systems Engineering	WR	NSWC DD : Dahlgren, VA	4.671	2.183	Nov 2020	0.000		0.000		-		0.000	0.000	6.854	-
Operations Gun Mount Systems Engineering	WR	NSWC IHD Picatinny : Picatinny, NJ	1.000	0.000		0.000		0.000		-		0.000	0.000	1.000	-
Electro-optical Sensor Systems Engineering and Interface Design	WR	NSWC CR : Crane, IN	0.730	2.100	Nov 2020	0.000		0.000		-		0.000	0.000	2.830	-
Combat System Interface Update	C/CPFF	LOCKHEED MARTIN : Moorestown, NJ	1.680	0.000		0.000		0.000		-		0.000	0.000	1.680	-
Gun Mount Integration	C/FFP	MSI : Rock Hill, SC	0.814	0.000		0.000		0.000		-		0.000	0.000	0.814	-
Electro-optical Sensor Integration	C/FFP	MSI : Rock Hill, SC	0.316	0.000		0.000		0.000		-		0.000	0.000	0.316	-
Test Surface Target Procurement	C/FFP	Gravois : Jeanerette, LA	1.000	0.000		0.000		0.000		-		0.000	0.000	1.000	-
Test Air Target Procurement	WR	NAWC-AD : PAX River, MD	0.600	0.000		0.000		0.000		-		0.000	0.000	0.600	-
Coaxial Gun Procurement & Engineering	WR	NSWC CR : Crane, IN	0.000	0.660	Nov 2020	0.000		0.000		-		0.000	0.000	0.660	-
<b>Subtotal</b>			22.900	9.287		0.000		0.000		-		0.000	0.000	32.187	N/A



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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2023 Navy</b>		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 1319 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604030N / <i>Rapid Prototyping, Experimentation &amp; Dem</i>	<b>Project (Number/Name)</b> 1037 / MK 38 MOD 4



**UNCLASSIFIED**

<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2023 Navy		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 1319 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604030N / <i>Rapid Prototyping, Experimentation &amp; Dem</i>	<b>Project (Number/Name)</b> 1037 / MK 38 MOD 4

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>Proj 1037</b>				
MOD 4 GWS Development	1	2021	4	2022
Gun Weapon System Interface Control Drawings Development	2	2021	3	2021
Fire Control System Software and Interface Development	1	2021	4	2022
Remote Operator Console Development and Delivery	1	2021	4	2022
Gun Mount Deliveries	4	2021	2	2022
Cannon Deliveries	1	2021	2	2021
Electro-optical/Infrared Sensor Deliveries	1	2022	4	2022

**UNCLASSIFIED**

**Exhibit R-2A, RDT&E Project Justification:** PB 2023 Navy **Date:** April 2022

<b>Appropriation/Budget Activity</b> 1319 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604030N / <i>Rapid Prototyping, Experimentation &amp; Dem</i>	<b>Project (Number/Name)</b> 2803 / <i>Classified #5</i>
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COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
2803: <i>Classified #5</i>	0.000	0.000	0.000	3.500	-	3.500	0.000	0.000	0.000	0.000	0.000	3.500
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

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

Details held at a higher classification

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

	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
<b>Title:</b> Classified #5	0.000	0.000	3.500	0.000	3.500
<b>Articles:</b>	-	-	-	-	-
<b>FY 2022 Plans:</b> N/A					
<b>FY 2023 Base Plans:</b> Details held at a higher classification					
<b>FY 2023 OCO Plans:</b> N/A					
<b>FY 2022 to FY 2023 Increase/Decrease Statement:</b> Details held at a higher classification					
<b>Accomplishments/Planned Programs Subtotals</b>	0.000	0.000	3.500	0.000	3.500

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

N/A

**Remarks**

**D. Acquisition Strategy**

N/A



**UNCLASSIFIED**

**Exhibit R-4, RDT&E Schedule Profile: PB 2023 Navy** **Date:** April 2022

<b>Appropriation/Budget Activity</b> 1319 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604030N / <i>Rapid Prototyping, Experimentation &amp; Dem</i>	<b>Project (Number/Name)</b> 2803 / <i>Classified #5</i>
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<b>Proj 2803</b>	<b>FY 2021</b>				<b>FY 2022</b>				<b>FY 2023</b>				<b>FY 2024</b>				<b>FY 2025</b>				<b>FY 2026</b>				<b>FY 2027</b>							
	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				
<p><i>2023PB - 0604030N - 2803</i></p>																																

**UNCLASSIFIED**

<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2023 Navy		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 1319 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604030N / <i>Rapid Prototyping, Experimentation &amp; Dem</i>	<b>Project (Number/Name)</b> 2803 / <i>Classified #5</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>Proj 2803</b>				
Classified	1	2023	4	2023

**UNCLASSIFIED**

**Exhibit R-2A, RDT&E Project Justification:** PB 2023 Navy **Date:** April 2022

<b>Appropriation/Budget Activity</b> 1319 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604030N / <i>Rapid Prototyping, Experimentation &amp; Dem</i>	<b>Project (Number/Name)</b> 2804 / <i>OCTOPUS</i>
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COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
2804: <i>OCTOPUS</i>	0.000	0.000	0.000	17.580	-	17.580	0.000	0.000	0.000	0.000	0.000	17.580
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

**Note**

PRJ 2804- OCTOPUS, is a new start for FY2023.

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

Octopus is an integration of multi-modal communication technologies enabling multi-domain remote command and control (C2), long-range fires, and enhanced communications to support Joint Warfighting operations in a contested environment. Octopus will enable remote C2 by leveraging a rapidly deployed, cabled infrastructure, to employ acoustic, optical, and Radio Frequency (RF) communications and allow remote operators to communicate with air, surface, and subsurface assets. Octopus provides resilient communications to the battlespace Commander in a denied environment. This effort directly supports several of the Combatant Commands Integrated Priority List (IPLs), and will provide insight into Concept of Operations (CONOPs) development in support of the Joint Warfighting Concept (JWC).

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

	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
<b>Title:</b> Octopus	0.000	0.000	17.580	0.000	17.580
<b>Articles:</b>	-	-	-	-	-
<b>FY 2022 Plans:</b> N/A					
<b>FY 2023 Base Plans:</b> This system will integrate and test various existing technologies by first modeling each integrated capability into a Live Virtual Constructed (LVC) operation and mission planning event. Each one of these technologies will be integrated into a common C2 suite, that will allow operators to utilize each type of communication method based on situational requirements and needs. As a milestone test event, Octopus will participate in a Fleet Experiment (Northern Edge 2023) from a remote location to exercise its remote C2 and communications capabilities.					
<b>FY 2023 OCO Plans:</b> N/A					
<b>FY 2022 to FY 2023 Increase/Decrease Statement:</b> 2023 funding increase reflects selection of Octopus as a RDER initiative.					
<b>Accomplishments/Planned Programs Subtotals</b>	0.000	0.000	17.580	0.000	17.580

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 Navy		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 1319 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604030N / <i>Rapid Prototyping, Experimentation &amp; Dem</i>	<b>Project (Number/Name)</b> 2804 / <i>OCTOPUS</i>

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

N/A

**Remarks**

**D. Acquisition Strategy**

Hardware and software design, integration and testing to demonstrate a new capability in support of fleet requirements and to further inform Joint operations. Various performers will be funded based on their technology and level of effort to support integration and test events.

**UNCLASSIFIED**

**Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Navy** **Date:** April 2022

<b>Appropriation/Budget Activity</b> 1319 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604030N / <i>Rapid Prototyping, Experimentation &amp; Dem</i>	<b>Project (Number/Name)</b> 2804 / <i>OCTOPUS</i>
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<b>Product Development (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
C2 Integration, software development and communications enabler development	MIPR	NUWC NP : Newport RI	0.000	0.000		0.000		1.100	Oct 2022	-		1.100	0.000	1.100	-
Communications equipment procurement and cyber security development	MIPR	NUWC NP : Newport RI	0.000	0.000		0.000		0.300	Oct 2022	-		0.300	0.000	0.300	-
System Engineering/ Integration; Technical Management; Subsystem Development; Independent Assesor	MIPR	NIWC PAC : San Diego, CA	0.000	0.000		0.000		6.880	Oct 2022	-		6.880	0.000	6.880	-
Product Procurements for Communications Nodes and mission engineering	MIPR	NIWC PAC : San Diego, CA	0.000	0.000		0.000		2.200	Oct 2022	-		2.200	0.000	2.200	-
<b>Subtotal</b>			0.000	0.000		0.000		10.480		-		10.480	0.000	10.480	N/A

<b>Test and Evaluation (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
Deployment CONOPS Development; T&E Support	MIPR	NAVFAC EXWC : Port Hueneme, CA	0.000	0.000		0.000		0.500	Oct 2022	-		0.500	0.000	0.500	-
Cable Infrastructure Procurement; cable landing design; and Vessel Support	MIPR	NAVFAC EXWC : Port Hueneme, CA	0.000	0.000		0.000		4.300	Oct 2022	-		4.300	0.000	4.300	-
T&E Support; Range Coordination; LVC Support	MIPR	NIWC PAC : San Diego, CA	0.000	0.000		0.000		1.400	Oct 2022	-		1.400	0.000	1.400	-
T&E Support	MIPR	NUWC NP : Newport RI	0.000	0.000		0.000		0.200	Oct 2022	-		0.200	0.000	0.200	-



**UNCLASSIFIED**

Exhibit R-4, RDT&E Schedule Profile: PB 2023 Navy			Date: April 2022	
Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0604030N / Rapid Prototyping, Experimentation & Dem	Project (Number/Name) 2804 / OCTOPUS		
	<b>FY 2023</b>			
	Q1	Q2	Q3	Q4
<i>Proj 2804</i>				
<i>Octopus: Finalize system architecture and requirements</i>				
<i>Octopus: Preliminary design development/review and long lead procurements initiated</i>				
<i>Octopus: Modeling and Simulation created and executed via the LVC event</i>				
<i>Octopus: Lab Based integrated system demonstration and verification</i>				
<i>Octopus: Participation in Tech Demonstration; Risk Reduction Testing</i>				
<i>Octopus: Critical Design Review</i>				

**UNCLASSIFIED**

<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2023 Navy		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 1319 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604030N / <i>Rapid Prototyping, Experimentation &amp; Dem</i>	<b>Project (Number/Name)</b> 2804 / <i>OCTOPUS</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>Proj 2804</b>				
Finalize system architecture and requirements	1	2023	2	2023
Preliminary design development/review and long lead procurements initiated	2	2023	3	2023
Modeling and Simulation created and executed via the LVC event	3	2023	4	2023
Lab Based integrated system demonstration and verification	4	2023	4	2023
Participation in Tech Demonstration; Risk Reduction Testing	4	2023	4	2023
Critical Design Review	4	2023	4	2023

**UNCLASSIFIED**

**Exhibit R-2A, RDT&E Project Justification:** PB 2023 Navy **Date:** April 2022

<b>Appropriation/Budget Activity</b> 1319 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604030N / <i>Rapid Prototyping, Experimentation &amp; Dem</i>	<b>Project (Number/Name)</b> 2805 / GRASP-X
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COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
2805: GRASP-X	0.000	0.000	0.000	3.750	-	3.750	0.000	0.000	0.000	0.000	0.000	3.750
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

**Note**

PRJ 2805- GRASP-X, is a new start for FY2023.

GRASP-X is a follow-on to the FY-20 GRASP Warfighter Lab Incentive Fund (WLIF) project which automated geolocation and reporting against a single threat threat system of interest to USINDOPACOM and the EA-18G Growler. In addition to addressing additional, new signals of interest, GRASP-X also integrates and demonstrates an interface to more rapidly obtain additional overhead collection. GRASP WLIF project was previously funded in Program Element 0603829J.

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

Geo-location and Reporting of Advanced Signals Pacific - eXpanded (GRASP-X) project 2805 is a follow-on project to expand the GRASP capability to additional threat signals of interest to USINDOPACOM. NAVAIR PMA-265 Program Office, EA-18G will transition capability into base Command & Control (C2) and Electromagnetic Support (ES) programs. Initial Operational Capability (IOC) by Q4 FY23.

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

	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
<b>Title:</b> GRASP-X	0.000	0.000	3.750	0.000	3.750
<b>Articles:</b>	-	-	-	-	-
<b>FY 2022 Plans:</b> N/A					
<b>FY 2023 Base Plans:</b> -GRASPX interface to AIM enabled -Field demo, software mods to add 2 new threats, AARGM-ER Precision Strike Options -GRASPx Limited Operations					
<b>FY 2023 OCO Plans:</b> N/A					
<b>FY 2022 to FY 2023 Increase/Decrease Statement:</b> FY23 increase due to selection of GRASP-X as a RDER initiative.					
<b>Accomplishments/Planned Programs Subtotals</b>	0.000	0.000	3.750	0.000	3.750

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 Navy		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 1319 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604030N / <i>Rapid Prototyping, Experimentation &amp; Dem</i>	<b>Project (Number/Name)</b> 2805 / <i>GRASP-X</i>

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

N/A

**Remarks**

**D. Acquisition Strategy**

Leverage existing USINDOPACOM FFRDC (GTRI), AFRL, and NRO contracts to develop, integrate, test, and deliver new capability.

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Navy** **Date:** April 2022

<b>Appropriation/Budget Activity</b> 1319 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604030N / <i>Rapid Prototyping, Experimentation &amp; Dem</i>	<b>Project (Number/Name)</b> 2805 / <i>GRASP-X</i>
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<b>Product Development (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
Systems Engineering	C/CPFF	AFRL : Sarasota, FL	0.000	0.000		0.000		0.230	Oct 2022	-		0.230	0.000	0.230	-
Systems Engineering	C/CPFF	NRO : CO	0.000	0.000		0.000		0.600	Oct 2022	-		0.600	0.000	0.600	-
Systems Engineering	Grant	INDOPACOM : HI, VA	0.000	0.000		0.000		0.310	Oct 2022	-		0.310	0.000	0.310	-
Software Development	C/CPFF	AFRL : Sarasota, FL	0.000	0.000		0.000		0.600	Oct 2022	-		0.600	0.000	0.600	-
Software Development	C/CPFF	NRO : CO	0.000	0.000		0.000		0.580	Oct 2022	-		0.580	0.000	0.580	-
<b>Subtotal</b>			0.000	0.000		0.000		2.320		-		2.320	0.000	2.320	N/A

<b>Support (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
Transition Planning	Grant	NDOPACOM : HI, VA	0.000	0.000		0.000		0.350	Oct 2022	-		0.350	0.000	0.350	-
Training	Grant	NDOPACOM : HI, VA	0.000	0.000		0.000		0.080	Oct 2022	-		0.080	0.000	0.080	-
<b>Subtotal</b>			0.000	0.000		0.000		0.430		-		0.430	0.000	0.430	N/A

<b>Test and Evaluation (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
Testing	Grant	INDOPACOM : HI, CO, VA, CA	0.000	0.000		0.000		0.680	Oct 2022	-		0.680	0.000	0.680	-
Testing	C/CPFF	NRO : CO	0.000	0.000		0.000		0.220	Oct 2022	-		0.220	0.000	0.220	-
<b>Subtotal</b>			0.000	0.000		0.000		0.900		-		0.900	0.000	0.900	N/A





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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2023 Navy		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 1319 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604030N / <i>Rapid Prototyping, Experimentation &amp; Dem</i>	<b>Project (Number/Name)</b> 2805 / GRASP-X

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>Proj 2805</b>				
Milestones: Technical Demonstration	3	2023	3	2023
Milestones: Operational Demonstration	4	2023	4	2023
Milestones: Independant Assessment	4	2023	4	2023
Engineering: Develop Threat Data Sets	1	2023	4	2023
Engineering: Develop Strike Operations	1	2023	4	2023
Engineering: Architecture Development	1	2023	4	2023
Engineering: GRASP SW Modification	2	2023	4	2023
Engineering: Integration	3	2023	4	2023
Deliveries: Technical Documentation	4	2023	4	2023

**UNCLASSIFIED**

**Exhibit R-2A, RDT&E Project Justification:** PB 2023 Navy **Date:** April 2022

<b>Appropriation/Budget Activity</b> 1319 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604030N / <i>Rapid Prototyping, Experimentation &amp; Dem</i>	<b>Project (Number/Name)</b> 2806 / <i>Classified #1</i>
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COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
2806: <i>Classified #1</i>	0.000	0.000	0.000	20.000	-	20.000	0.000	0.000	0.000	0.000	0.000	20.000
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

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

Details held at a higher classification

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

	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
<b>Title:</b> Classified #1	0.000	0.000	20.000	0.000	20.000
<b>Articles:</b>	-	-	-	-	-
<b>FY 2022 Plans:</b> N/A					
<b>FY 2023 Base Plans:</b> Details held at a higher classification					
<b>FY 2023 OCO Plans:</b> N/A					
<b>FY 2022 to FY 2023 Increase/Decrease Statement:</b> Details held at a higher classification					
<b>Accomplishments/Planned Programs Subtotals</b>	0.000	0.000	20.000	0.000	20.000

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

N/A

**Remarks**

**D. Acquisition Strategy**

N/A



**UNCLASSIFIED**

**Exhibit R-4, RDT&E Schedule Profile: PB 2023 Navy** **Date:** April 2022

<b>Appropriation/Budget Activity</b> 1319 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604030N / <i>Rapid Prototyping, Experimentation &amp; Dem</i>	<b>Project (Number/Name)</b> 2806 / <i>Classified #1</i>
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<b>Proj 2806</b>	<b>FY 2021</b>				<b>FY 2022</b>				<b>FY 2023</b>				<b>FY 2024</b>				<b>FY 2025</b>				<b>FY 2026</b>				<b>FY 2027</b>							
	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				
<p><i>2023PB - 0604030N - 2806</i></p>																																

**UNCLASSIFIED**

<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2023 Navy		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 1319 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604030N / <i>Rapid Prototyping, Experimentation &amp; Dem</i>	<b>Project (Number/Name)</b> 2806 / <i>Classified #1</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>Proj 2806</b>				
classified	1	2023	4	2023

**UNCLASSIFIED**

**Exhibit R-2A, RDT&E Project Justification:** PB 2023 Navy **Date:** April 2022

<b>Appropriation/Budget Activity</b> 1319 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604030N / <i>Rapid Prototyping, Experimentation &amp; Dem</i>	<b>Project (Number/Name)</b> 2807 / <i>Hyperspectral Upgrade to Classified #2</i>
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COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
2807: <i>Hyperspectral Upgrade to Classified #2</i>	0.000	0.000	0.000	5.750	-	5.750	0.000	0.000	0.000	0.000	0.000	5.750
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

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

Details held at a higher classification

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

	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
<b>Title:</b> Hyperspectral Upgrade to Classified #2	0.000	0.000	5.750	0.000	5.750
<b>Articles:</b>	-	-	-	-	-
<b>FY 2022 Plans:</b> N/A					
<b>FY 2023 Base Plans:</b> Details held at a higher classification					
<b>FY 2023 OCO Plans:</b> N/A					
<b>FY 2022 to FY 2023 Increase/Decrease Statement:</b> Details held at a higher classification					
<b>Accomplishments/Planned Programs Subtotals</b>	0.000	0.000	5.750	0.000	5.750

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

N/A

**Remarks**

**D. Acquisition Strategy**

N/A



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Exhibit R-4, RDT&E Schedule Profile: PB 2023 Navy											Date: April 2022				
Appropriation/Budget Activity 1319 / 4						R-1 Program Element (Number/Name) PE 0604030N / Rapid Prototyping, Experimentation & Dem					Project (Number/Name) 2807 / Hyperspectral Upgrade to Classified #2				

Proj 2807	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027							
	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				

2023PB - 0604030N - 2807

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2023 Navy		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 1319 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604030N / <i>Rapid Prototyping, Experimentation &amp; Dem</i>	<b>Project (Number/Name)</b> 2807 / <i>Hyperspectral Upgrade to Classified #2</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>Proj 2807</b>				
classified	1	2023	4	2023