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Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation/Budget Activity 1319: <i>Research, Development, Test & Evaluation, Navy / BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0204575N / <i>Elect Warfare Readiness Supt</i>
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
Total Program Element	304.417	53.412	45.936	61.677	-	61.677	66.393	66.224	66.366	67.694	Continuing	Continuing
2263: <i>Information Warfare System</i>	262.308	35.927	31.624	46.300	-	46.300	48.601	48.072	47.617	48.570	Continuing	Continuing
3426: <i>Maritime Cyber</i>	42.109	17.485	14.312	15.377	-	15.377	17.792	18.152	18.749	19.124	Continuing	Continuing

A. Mission Description and Budget Item Justification

To develop Cyber and Electronic Warfare capabilities that will deny, disrupt, degrade, destroy and manipulate target adversary platforms and Command, Control, Communications, Computer, Cyber, Intelligence, Surveillance, Reconnaissance and Targeting (C5ISRT). This budget item funds countermeasure development, intelligence support, and program management.

Please refer to Top Secret//Sensitive Compartmented Information (TS//SCI) Supplement for more details.

B. Program Change Summary (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	55.528	47.436	65.575	-	65.575
Current President's Budget	53.412	45.936	61.677	-	61.677
Total Adjustments	-2.116	-1.500	-3.898	-	-3.898
• Congressional General Reductions	-	-	-	-	-
• Congressional Directed Reductions	-	-1.500	-	-	-
• Congressional Rescissions	-	-	-	-	-
• Congressional Adds	-	-	-	-	-
• Congressional Directed Transfers	-	-	-	-	-
• Reprogrammings	-	-	-	-	-
• SBIR/STTR Transfer	-2.116	0.000	-	-	-
• Rate/Misc Adjustments	0.000	0.000	-3.898	-	-3.898

Change Summary Explanation

Funding decrease for support of acquisition, exploitation, and intelligence; and shifting of long lead hardware to FY25 as a result of contract award delays associated with classified contracting award process.

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy										Date: March 2023		
Appropriation/Budget Activity 1319 / 7					R-1 Program Element (Number/Name) PE 0204575N / <i>Elect Warfare Readiness Supt</i>				Project (Number/Name) 2263 / <i>Information Warfare System</i>			
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
2263: <i>Information Warfare System</i>	262.308	35.927	31.624	46.300	-	46.300	48.601	48.072	47.617	48.570	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

To develop Cyber and Electronic Warfare capabilities that will counter adversary platforms and counter command, control, communications, computers, combat systems, intelligence, surveillance, reconnaissance, and targeting (C-C5ISR). This budget item funds countermeasure development, intelligence support, test and evaluation, and program management. Please refer to Top Secret//Sensitive Compartmented Information (TS//SCI) Supplement for more details.

Specific countermeasure activities include:

- * Project GRANDSTAND: Provide Indications and Warnings (I&W) of adversary communications. Provide warning of impending fires and targeting solutions for potential kinetic solution. Details held at higher classification.
- * Project KUBOTAN: Provide I&W of adversary communications. Employment would force adversary to change operating posture to a more favorable position. Details held at higher classification.
- * Project PACIFIC HAZE: Countermeasure against adversarial C5ISR collection systems. Employment would support Blue force disposition and assist in Tactical Situation (TACSIT). Details held at higher classification.
- * Project COPPERFIELD: Countermeasure against adversary C5ISR Over the Horizon (OTHR) systems. Employment would support Blue force disposition and assist in Tactical Situation (TACSIT). Details held at higher classification.
- * Project CHATTERBOX: Countermeasure against adversary C5ISR Command and Control (C2) systems. Employment would support Blue force disposition and assist in Tactical Situation (TACSIT). Details held at higher classification.
- * Project VIRTUOSO III: Provide I&W of adversary communications. Countermeasure against adversary C5ISR C2 systems. Employment would force adversary to change operating posture to a more favorable position. Details held at higher classification.
- * Project BECKHAM: Provide I&W of adversary communications. Countermeasure against adversary C5ISR C2 systems. Employment would support Blue force disposition and assist in Tactical Situation (TACSIT), in addition to forcing the adversary to change operating posture to a more favorable position. Details held at higher classification.
- * Project QUIZZIFY: Countermeasure against adversary C5ISR C2 systems. Employment would force adversary to change operating posture to a more favorable method. Details held at higher classification.
- * Project SIREN SONG: Countermeasure against adversary C5ISR collection systems. Employment would support Blue force disposition and assist in Tactical Situation (TACSIT). Details held at higher classification.
- * Emerging Signal Development: Provide collection development for new and emerging technologies through vulnerability research and exploitation development. Employment supports Blue force I&W against adversary communications. Details held at higher classification.
- * Emerging Technology Development: Provide C5ISR countermeasure development for new and emerging technologies through vulnerability research and exploitation development. Details held at higher classification.

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Specific countermeasure intelligence support activities include:

- * FOLKVANGR and VALHALLA: Terrestrial technology research and target development (TRTD) facilities used to identify vulnerabilities associated with adversarial C5ISRT systems and communications that lead to countermeasure development at Navy Cyber Warfare Development Group (NCWDG). Details held at higher classification.
- * MADHATTER and WHITERABBIT: Terrestrial TRTD facilities used to identify vulnerabilities in adversarial C5ISRT systems and communications that lead to countermeasure development at NCWDG. Provide I&W to fleet and national customers against adversarial communications. Details held at higher classification.
- * TRTD maintenance and upgrades. Support the contractual labor for hardware and software upgrades, system administrative support, and Authority to Operate (ATO) compliance in accordance with Risk Management Framework. Provide the requisite test and evaluation of TRTD systems to support modeling and simulation.

Specific program support activities include:

- * Army Special Access Program (SAP) Enterprise Program (ASEP). Provide the hardware, software, and helpdesk support for NCWDG SAP networks to support the management of contractual work.
- * Program Management Services and Support. Support the contractual acquirement of personnel to fulfill critical labor requirements associated with NCWDG's mission.

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

	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Title: Electronic Warfare/Information, Computer Network Operations (IO & CNO), Countermeasure Capability Research & Development NAVIFOR	35.927	31.624	46.300	0.000	46.300
Articles:	-	-	-	-	-
Description: Please refer to Top Secret//Sensitive Compartmented Information Supplement for more details.					
FY 2023 Plans:					
* Project GRANDSTAND: Refurbishment of Outside the Continental U.S. (OCOCNUS) site to support Level Of Effort (LOE) 1 and LOE 2 - I&W and geolocation to fleet and national customers. Procurement of additional hardware to support sustained, near real-time I&W.					
* Project KUBOTAN: Integration testing to support design and development of the optimal delivery system. Explore transition opportunities and expansion of target set. Continue Artificial Intelligence/Machine Learning (AI/ML) efforts for network reconstruction. Continue analysis of adversary communications system. Continue RF propagation modeling software.					
* Project PACIFIC HAZE: Commencement of the Base study to support design and development of a prototype for lab demonstration of the countermeasure.					
* Project COPPERFIELD: Completion of the lab demonstration to support feasibility assessments of employment locations and mechanisms. Commencement of work towards the field demonstration.					

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
<p>* Project CHATTERBOX: Commencement of the Study to support the development of countermeasure prototype, design of the optimal prototype interface, and explore optimal mission employment.</p> <p>* Project VIRTUOSO III: Completion of the Base - hardware and software upgrades to support future countermeasure employment (options 3 and 4). Continue countermeasure development against adversarial C5ISRT C2. Integrate and test countermeasure.</p> <p>* Project BECKHAM: Completion of the study against adversarial C2 systems. Commence development of simple countermeasure techniques. Develop countermeasure test and calibration system.</p> <p>* FOLKVANGR and VALHALLA: Upgraded and maintain facilities to provide additional capabilities against evolving adversarial C5ISRT systems.</p> <p>* MADHATTER and WHITERABBIT: Technology refresh and capability upgrade of systems to increase capability against evolving adversary C5ISRT systems, integrate new advanced technologies and capabilities to reduce manpower intensive tasks, and to maintain security compliance. Support attainment of full three year ATO.</p> <p><i>FY 2024 Base Plans:</i></p> <p>* Project GRANDSTAND: Delivery of LOE 1 and LOE 2, I&W and geolocation to fleet and national customers. Procurement of additional hardware to support sustained, near real-time I&W.</p> <p>* Project KUBOTAN: Completion and demonstration of integration testing of optimal delivery system. Explore transition opportunities and expansion of target set. Continue AI/ML efforts for network reconstruction against evolving adversarial threat. Continue analysis of adversary communications systems to support future work . Continue RF propagation modeling software to support future work and integration. Leverage Applied Research Laboratory (ARL) to support subsequent testing, integration, and operationalization.</p> <p>* Project PACIFIC HAZE: Development of a prototype for field demonstration for the countermeasure.</p> <p>* Project COPPERFIELD: Conduct field demo and acceptance test of countermeasure. Commence transition of capability.</p> <p>* Project CHATTERBOX: Conduct field demonstration and acceptance test of countermeasure. Commence transition of capability.</p> <p>* Project VIRTUOSO III: Conduct field demonstration and acceptance test of countermeasure. Commence transition of capability. Integrate and test countermeasure on NCWDG TRTD site. Continue future study for future iterations against evolving adversarial threats.</p> <p>* Project BECKHAM: Conduct field demonstration and acceptance test of countermeasure. Commence transition of capability. Integrate and test countermeasure on NCWDG TRTD site. Continue future study for future iterations against evolving adversarial threats.</p>					

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
<p>* FOLKVANGR and VALHALLA: Continue upgrades and maintenance of facilities to provide additional capabilities against evolving adversary C5ISRT systems.</p> <p>* MADHATTER and WHITERABBIT: Continue technology refresh and capability upgrade of systems to increase capability against evolving adversary C5ISRT systems. Support sustainment of the ATO.</p> <p>* QUIZZIFY: Continue countermeasure techniques against adversarial C2. Develop countermeasure test and calibration system.</p> <p>* SIREN SONG: Commence countermeasure techniques against adversarial C2 in study and lab demo proof of concept.</p> <p>FY 2024 OCO Plans: N/A</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: FY24 increase provides additional development of offensive Cyber and Electronic Warfare capabilities against adversary platforms and C5ISRT. It further supports the shifting from research and intelligence studies to prototyping and demonstrations. (Please refer to TS//SCI Supplement for more details).</p>					
Accomplishments/Planned Programs Subtotals	35.927	31.624	46.300	0.000	46.300

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

N/A

Remarks

D. Acquisition Strategy

Projects under this program are designated non-Acquisition Category (ACAT). Defense Acquisition Program Models described in Department of Defense Instruction (DoDI) 5000.2 and guidance are the starting basis used with tailored approaches for the unique character of the product being acquired or the need for accelerated acquisition to streamline acquisition processes as appropriate.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Navy												Date: March 2023			
Appropriation/Budget Activity 1319 / 7				R-1 Program Element (Number/Name) PE 0204575N / Elect Warfare Readiness Supt				Project (Number/Name) 2263 / Information Warfare System							
Product Development (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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
Development(1)	Various	Classified : Classified	74.366	0.000		0.000		0.000		-		0.000	0.000	74.366	-
Development	WR	NRL : Washington, DC	30.321	0.000		0.000		0.000		-		0.000	0.000	30.321	-
Support Development	C/FFP	CWG-6 : Ft. Meade	2.123	0.000		0.000		0.000		-		0.000	0.000	2.123	-
System Engineering	C/CPFF	SAIC : Wash D.C.	1.292	0.000		0.000		0.000		-		0.000	0.000	1.292	-
General Development(1)	Various	Classified : Classified	1.800	0.000		0.000		0.000		-		0.000	0.000	1.800	-
Technical Data	C/FFP	Various : Various	3.030	0.000		0.000		0.000		-		0.000	0.000	3.030	-
Software Development	WR	NRL : Washington, DC	1.900	0.000		0.000		0.000		-		0.000	0.000	1.900	-
Hardware/Equipment	Various	DLA, NSA, NAVAIR, GSA : Various	11.551	0.000		0.000		0.000		-		0.000	0.000	11.551	-
System Engineering	WR	NRL : Washington, DC	22.203	0.000		0.000		0.000		-		0.000	0.000	22.203	-
Engineering(1)	Various	Classified : Classified	15.873	0.000		0.000		0.000		-		0.000	0.000	15.873	-
Software Development(1)	Various	Classified : Classified	4.904	0.000		0.000		0.000		-		0.000	0.000	4.904	-
Program	C/CPFF	OakleaSimpon : Ft. Meade	1.283	0.000		0.000		0.000		-		0.000	0.000	1.283	-
Development	MIPR	DOE/INL : Various	1.183	0.000		0.000		0.000		-		0.000	0.000	1.183	-
Countermeasures Development	Various	Various : Various	0.000	0.000		0.000		0.000		-		0.000	0.000	0.000	-
Grandstand	SS/CPFF	ICR : CO	5.760	4.127	Jun 2022	4.982	Dec 2022	4.773	Dec 2023	-		4.773	Continuing	Continuing	Continuing
Kubotan	SS/CPFF	PSU : PA	4.301	4.503	Dec 2022	4.310	Dec 2022	4.973	Dec 2023	-		4.973	Continuing	Continuing	Continuing
Pacific Haze	SS/CPFF	Northrup Grumman : OH	1.848	4.100	May 2022	0.000		0.000		-		0.000	0.000	5.948	5.948
Copperfield	SS/CPFF	Lockheed Martin : PA	1.200	1.656	Apr 2022	0.977	Apr 2023	0.500	Apr 2024	-		0.500	Continuing	Continuing	Continuing
Chatterbox	SS/CPFF	ICR : CO	0.000	1.100	Aug 2022	0.514	Aug 2023	1.500	Aug 2024	-		1.500	Continuing	Continuing	Continuing
Virtuoso III	SS/CPFF	Argon : VA	1.249	2.288	Nov 2021	1.295	Nov 2022	1.326	Nov 2023	-		1.326	Continuing	Continuing	Continuing
Beckham	SS/CPFF	Argon : VA	0.997	0.000		0.430	Nov 2022	2.000	Nov 2023	-		2.000	Continuing	Continuing	Continuing
Emerging Technology	SS/CPFF	Argon : VA	1.765	9.452	Jun 2022	10.095	Jun 2023	13.650	Jun 2024	-		13.650	Continuing	Continuing	Continuing

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Navy **Date:** March 2023

Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0204575N / <i>Elect Warfare Readiness Supt</i>	Project (Number/Name) 2263 / <i>Information Warfare System</i>
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Product Development (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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			
Quizzify	SS/CPFF	PSU : PA	0.600	0.000		0.000		1.000	Nov 2023	-		1.000	0.000	1.600	-
Siren Song	SS/CPFF	PSU : PA	0.000	0.000		0.000		2.000	Nov 2023	-		2.000	0.000	2.000	-
Subtotal			189.549	27.226		22.603		31.722		-		31.722	Continuing	Continuing	N/A

Remarks
1-Due to classification category, will not be on Defense Message System General Service (GENSER) classified exhibits. Renaming cost category item beginning in FY22 to align spending against countermeasure development. Please refer to TS//SCI Supplement for more details.

Support (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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			
Software	WR	NRL : Wash DC	1.538	0.000		0.000		0.000		-		0.000	0.000	1.538	-
Software	WR	NAVWAR : San Diego CA	2.121	0.000		0.000		0.000		-		0.000	0.000	2.121	-
Studies/Analysis	WR	NPS : Monterey CA	1.193	0.000		0.000		0.000		-		0.000	0.000	1.193	-
Program Support - ASEP	MIPR	Army : Ft. Detrick MD	10.148	2.032	Nov 2021	1.893	Nov 2022	2.800	Nov 2023	-		2.800	0.000	16.873	12.558
Software Support	MIPR	JHU APL : Various	1.033	0.000		0.000		0.000		-		0.000	0.000	1.033	-
Software Support	WR	NIWC : Various	1.035	0.000		0.000		0.000		-		0.000	0.000	1.035	-
Software Support	C/CPFF	CMU SEI : Pittsburgh PA	2.700	0.000		0.000		0.000		-		0.000	0.000	2.700	-
General Engineering Support	C/CPFF	PSU ARL : Pittsburgh PA	0.350	0.000		0.000		0.000		-		0.000	0.000	0.350	-
General Engineering Support(1)	C/CPFF	Classified : Classified	0.924	0.000		0.000		0.000		-		0.000	0.000	0.924	-
Test & Evaluation	C/CPFF	PSU ARL : Pittsburgh PA	0.000	0.000		0.000		0.000		-		0.000	0.000	0.000	-
Studies/Analysis	C/FFP	Various : Various	1.250	0.000		0.000		0.000		-		0.000	0.000	1.250	-
Development Support	C/CPFF	SNS One : Maryland	1.430	0.000		0.000		0.000		-		0.000	0.000	1.430	-
Development Support	C/CPFF	MITRE : McLean, VA	0.750	0.000		0.000		0.000		-		0.000	0.000	0.750	-

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Support (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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
Logistics	Various	NAVFAC : MIDLANT VA	0.704	0.000		0.000		0.000		-		0.000	0.000	0.704	-
DEV NET Support(1)	C/CPFF	Classified : Classified	0.000	0.000		0.000		0.000		-		0.000	0.000	0.000	-
Intelligence Support	Various	Classified : Classified	0.000	0.000		0.000		0.000		-		0.000	0.000	0.000	-
Countermeasure Intel Support/BINDER	MIPR	NRL : Washington, DC	8.448	2.000	Dec 2021	3.282	Dec 2022	3.564	Dec 2023	-		3.564	Continuing	Continuing	Continuing
Subtotal			33.624	4.032		5.175		6.364		-		6.364	Continuing	Continuing	N/A

Remarks
 1-Due to classification category, will not be on Defense Message System General Service (GENSER) classified exhibits. Renaming cost category item beginning in FY23 to align spending against intelligence support. Please refer to TS//SCI Supplement for more details.

Test and Evaluation (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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
Developmental Test & Evaluation (DT&E)	Various	Classified : Classified	9.374	0.000		0.000		0.000		-		0.000	0.000	9.374	-
Developmental Test & Evaluation (DT&E)	Various	Various : Various	1.834	0.000		0.000		3.514	Nov 2023	-		3.514	0.000	5.348	-
Developmental Test & Evaluation (DT&E)	SS/CPFF	PSU : PA	0.629	1.087	Dec 2021	1.075	Dec 2022	1.200	Dec 2023	-		1.200	Continuing	Continuing	Continuing
Subtotal			11.837	1.087		1.075		4.714		-		4.714	Continuing	Continuing	N/A

Remarks
 1-Due to classification category, will not be on Defense Message System General Service (GENSER) classified exhibits.

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Management Services (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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			
Program Management Services	Various	Classified : Classified	27.298	3.582	Nov 2021	2.771	Nov 2022	3.500	Nov 2023	-		3.500	Continuing	Continuing	Continuing
Subtotal			27.298	3.582		2.771		3.500		-		3.500	Continuing	Continuing	N/A

Remarks
1-Due to classification category, will not be on Defense Message System General Service (GENSER) classified exhibits. Please refer to TS//SCI Supplement for more details.

	Prior Years	FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	262.308	35.927		31.624		46.300		-		46.300	Continuing	Continuing	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2024 Navy **Date:** March 2023

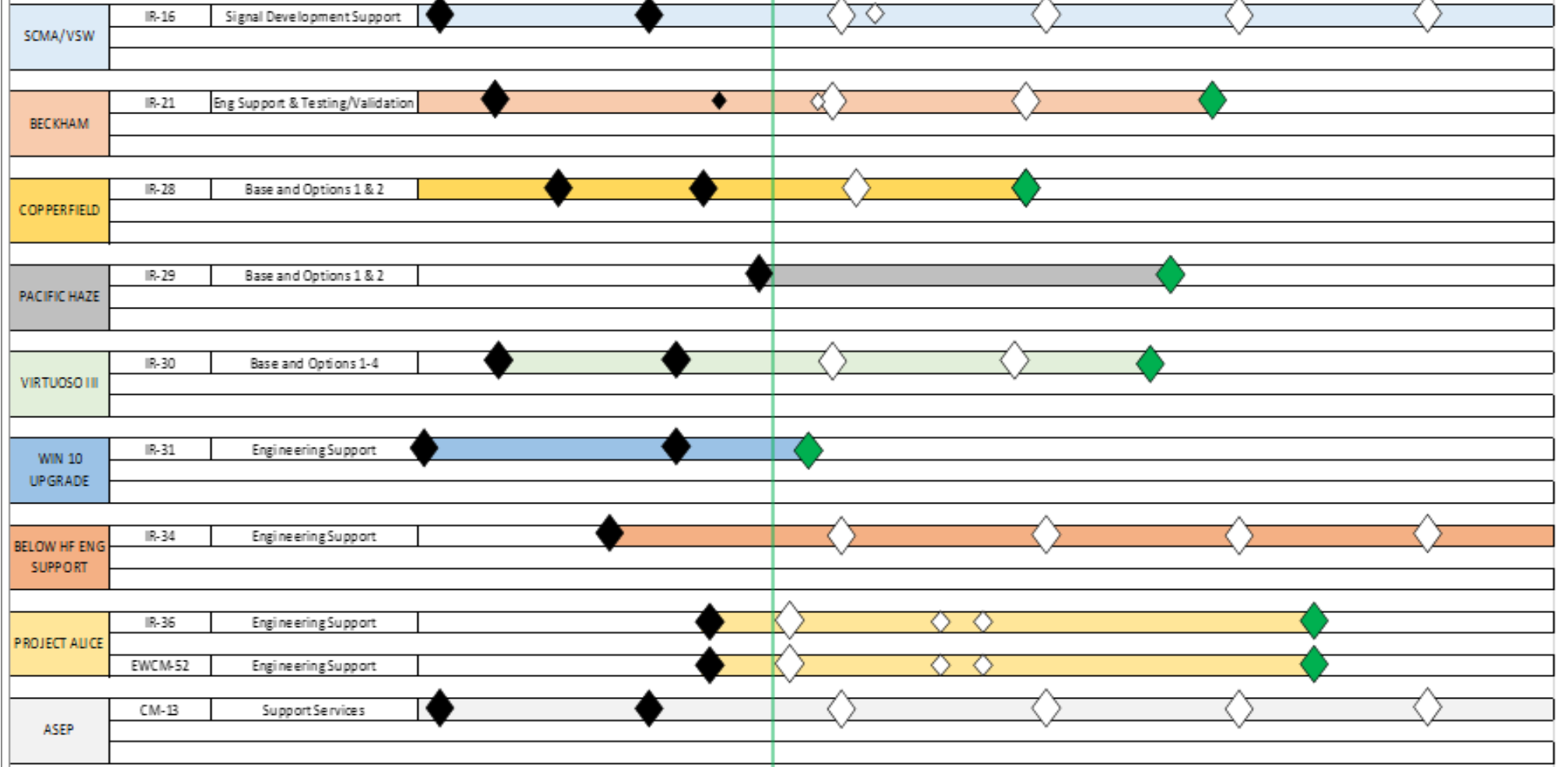
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PRIORITY	SPID	PROJECT	FY21				FY22				FY23				FY24				FY25				FY26							
			Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
			O N D	J F M	A M J	J A S	O N D	J F M	A M J	J A S	O N D	J F M	A M J	J A S	O N D	J F M	A M J	J A S	O N D	J F M	A M J	J A S	O N D	J F M	A M J	J A S				
GRANDSTAND	IR-04	GRANDSTAND LOE 1/2/3																												
CHATTERBOX	IR-05	CHATTERBOX																												
KUBOTA N	IR-09	Technical Support																												
	IR-10	AI/ML																												
	IR-12	SNL Analysis																												
	IR-13	Model Validation																												
	IR-19	RF Builder Upgrades																												
	IR-32	STOIC Upgrades																												
	IR-35	Mission Modeler																												
	IR-39	TACBMO Integration																												
	IR-40	STOIC Algorithms																												
	EWCM-53	Operational Development																												
BENDER	IR-06	Intelligence Support																												
Eng Support FOLKVANGR/ VALHALLA	IR-07	Engineering Support																												
VALHALLA	IR-08	Intelligence Support																												

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Exhibit R-4, RDT&E Schedule Profile: PB 2024 Navy **Date:** March 2023

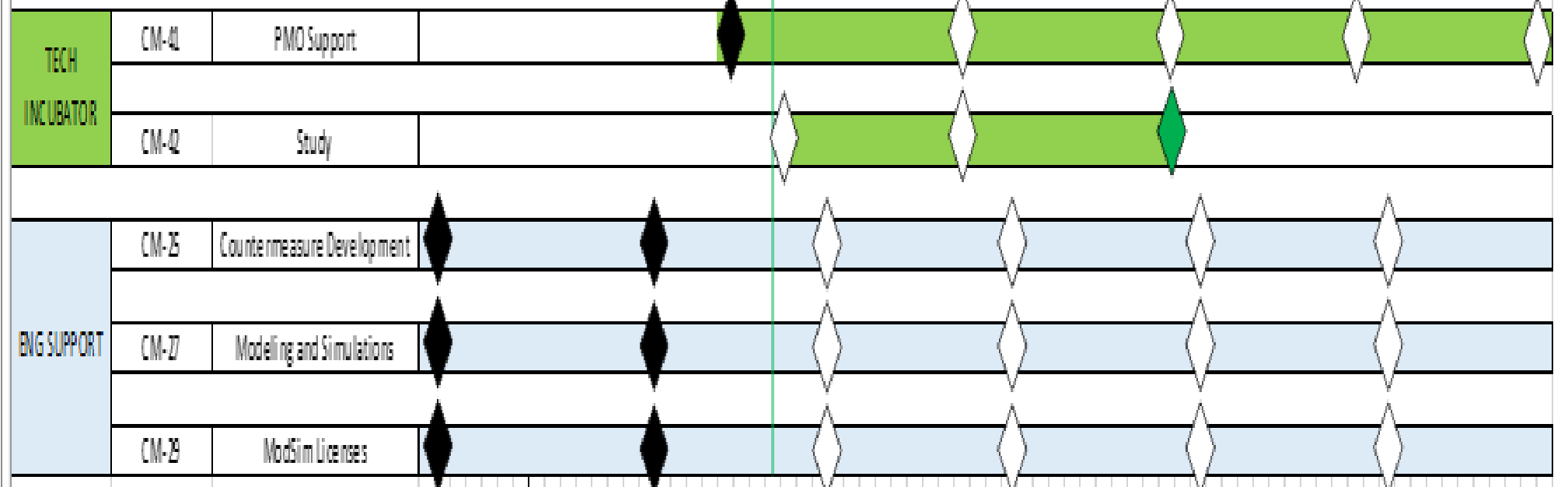
Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0204575N / <i>Elect Warfare Readiness Supt</i>	Project (Number/Name) 2263 / <i>Information Warfare System</i>
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Exhibit R-4, RDT&E Schedule Profile: PB 2024 Navy **Date:** March 2023

Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0204575N / <i>Elect Warfare Readiness Supt</i>	Project (Number/Name) 2263 / <i>Information Warfare System</i>
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- Projected Contract Award
- Previous Contract Award
- Deliverables

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Exhibit R-4A, RDT&E Schedule Details: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0204575N / <i>Elect Warfare Readiness Supt</i>	Project (Number/Name) 2263 / <i>Information Warfare System</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 2263				
Product Development: Grandstand	1	2022	4	2026
Product Development: Kubotan	1	2022	4	2026
Product Development: Pacific Haze	4	2022	4	2024
Product Development: Copperfield	1	2022	1	2024
Product Development: Chatterbox	4	2022	4	2024
Product Development: Virtuoso III	1	2022	4	2024
Product Development: Beckham	1	2022	4	2024
Product Development: Siren Song	1	2023	4	2025
Product Development: Quizzify	1	2022	4	2024
Product Development: Emerging Technology	1	2022	4	2028
Support: Countermeasures Intel Support / Binder	1	2022	4	2028
Test and Evaluation: Mod/Sim	1	2022	4	2028
Management Services: Program Management Services	1	2022	4	2028

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy **Date:** March 2023

Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0204575N / <i>Elect Warfare Readiness Supt</i>	Project (Number/Name) 3426 / <i>Maritime Cyber</i>
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
3426: <i>Maritime Cyber</i>	42.109	17.485	14.312	15.377	-	15.377	17.792	18.152	18.749	19.124	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

Note

Please refer to Top Secret//Sensitive Compartmented Information (TS//SCI) Supplement for more details.

A. Mission Description and Budget Item Justification

Maritime Cyber (Project 3426) - The mission is to develop offensive maritime cyber capabilities to deny, degrade, disrupt, destroy (D4) Great Power Competition (GPC) adversarial maritime systems. This budget item funds intelligence support for tool development as well as tool development to access, maneuver through, and deliver a controlled effect against adversarial maritime assets, in support of U.S. Cyber Command (USCC) and U.S. Indo-Pacific Command (USINDOPACOM) requirements.

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

	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Title: Maritime Cyber	17.485	14.312	15.377	0.000	15.377
Articles:	-	-	-	-	-
Description: Please refer to Top Secret//Sensitive Compartmented Information Supplement for more details.					
FY 2023 Plans:					
* OLD FORESTER - Funds integration of elements of cyber command and control with a developed cyber tool that causes an effect of an adversarial system.					
* WIDOW JANE - Funding supports capabilities to analyze adversarial networks.					
* BUFFALO TRACE - Funding supports analysis and development of cyber tools to cause an effect against adversarial platforms.					
* Naval Postgraduate School (NPS) - Funding supports Engineering Enclave for Maritime Security (EEMS) lab and vulnerability analysis, as well as supports Naval Officer continuing education and professional development.					
* EAGLE RARE - Funding supports the development of tools focused on maneuvering and delivering effects against adversarial maritime platforms.					
* WHISTLE PIG - Funding supports intelligence support to ensure capability development is focused and applicable to current adversarial capabilities.					
* HEAVEN HILL - Funding supports continued development of access vectors and command and control methods to operate on maritime networks.					
* ADDITIONAL CAPABILITY DEVELOPMENT - Funding supports new, innovative methods for integrating and executing an end-to-end kill chain.					

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0204575N / <i>Elect Warfare Readiness Supt</i>	Project (Number/Name) 3426 / <i>Maritime Cyber</i>

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
* Conduct intelligence analysis and vulnerability research to support future development and cyber operations. FY 2024 Base Plans: * Continue development of multiple maritime cyber capabilities against adversary systems. * Conduct intelligence analysis and vulnerability research to support future development and cyber operations. * Expand scope and survivability of kill chain while maintaining previously developed tools. FY 2024 OCO Plans: N/A FY 2023 to FY 2024 Increase/Decrease Statement: FY2024 increase supports continued development of Maritime Cyber D4 capabilities and the testing of operational prototypes.					
Accomplishments/Planned Programs Subtotals	17.485	14.312	15.377	0.000	15.377

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

N/A

Remarks

D. Acquisition Strategy

Projects are designated non-Acquisition Category (ACAT). Defense Acquisition Program Models described in Department of Defense Instruction (DoDI) 5000.2 and guidance are the starting basis used with tailored approaches for the unique character of the product being acquired or the need for accelerated acquisition to streamline acquisition processes as appropriate.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Navy **Date:** March 2023

Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0204575N / <i>Elect Warfare Readiness Supt</i>	Project (Number/Name) 3426 / <i>Maritime Cyber</i>
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Product Development (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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			
CARBONAXE	MIPR	AF/iCR : Auora, CO	0.000	1.020	Dec 2021	0.000		0.000		-		0.000	0.000	1.020	Continuing
CARBONBLADE	MIPR	AF/iCR : Aurora, CO	0.000	0.935	Dec 2021	0.000		0.000		-		0.000	0.000	0.935	Continuing
CARBONCUTLASS	C/BOA	NSMA/iCR : Aurora, CO	0.000	1.258	Jun 2022	0.000		0.000		-		0.000	0.000	1.258	Continuing
ATRALKELPIE	MIPR	MIT/LL : Boston, MA	0.690	0.500	Dec 2021	0.257	Dec 2022	0.581	Dec 2023	-		0.581	Continuing	Continuing	Continuing
PETREL	MIPR	MIT/LL : Boston, MA	0.460	0.400	Dec 2021	0.171	Dec 2022	0.387	Dec 2023	-		0.387	Continuing	Continuing	Continuing
REDWAGON	C/BOA	PSU : PA	0.000	0.512	Nov 2021	0.000		0.000		-		0.000	0.000	0.512	Continuing
BLACKTEMPEST	Various	DOE : Classified	0.100	0.500	Dec 2021	0.095	Dec 2022	0.100	Dec 2023	-		0.100	0.500	1.295	Continuing
BLACKTHUNDER	Various	DOE : Classified	0.000	0.500	Dec 2021	0.000		0.000		-		0.000	0.500	1.000	Continuing
BLACKTORNADO	Various	DOE : Classified	0.000	0.500	Dec 2021	0.000		0.000		-		0.000	0.500	1.000	-
BLACKTRANQUILIZER	Various	DOE : Classified	0.100	1.000	Dec 2021	0.095	Dec 2022	0.100	Dec 2023	-		0.100	1.000	2.295	-
BLACKZOMBIE	Various	DOE : Classified	0.000	1.500	Dec 2021	0.238	Dec 2022	0.100	Dec 2023	-		0.100	0.100	1.938	-
BLACKYIELD	WR	NSWC : Philadelphia, PA	0.000	0.250	Dec 2021	0.000		0.000		-		0.000	0.000	0.250	-
NIGHTLOCK	WR	NSWC : Philadelphia, PA	0.000	0.175	Dec 2021	0.950	Dec 2022	0.000		-		0.000	0.000	1.125	-
HTI (YETI)	Various	DOE : LANL: NM	2.735	0.675	Feb 2022	0.285	Dec 2022	0.000		-		0.000	0.000	3.695	-
POSEIDONSPEAR	C/BOA	NSMA : MD	0.200	0.600	May 2022	0.000		0.000		-		0.000	0.000	0.800	-
GARTERSNAKE	MIPR	MITRE : VA	0.625	0.198	Jan 2022	0.000		0.000		-		0.000	0.000	0.823	-
Additional Classified Tools	Various	Various : Various	0.000	0.000		3.991	Dec 2022	4.256	Dec 2023	-		4.256	0.000	8.247	-
Research and Vulnerability Analysis	WR	NPS : Monterey, CA	1.117	0.800	Nov 2021	0.760	Dec 2022	1.000	Dec 2023	-		1.000	Continuing	Continuing	Continuing
Additional Capability Development Efforts	Various	Various : Various	2.430	2.807	Dec 2021	3.112	Dec 2022	4.057	Dec 2023	-		4.057	Continuing	Continuing	Continuing
Previous Tool Development	Various	Various : Various	20.982	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Subtotal			29.439	14.130		9.954		10.581		-		10.581	Continuing	Continuing	N/A

Remarks
See TS//SCI Addendum for details.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Navy **Date:** March 2023

Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0204575N / <i>Elect Warfare Readiness Supt</i>	Project (Number/Name) 3426 / <i>Maritime Cyber</i>
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Support (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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			
Intelligence Analysis	Various	Various : Various	11.638	2.367	Dec 2021	2.690	Dec 2022	2.896	Dec 2023	-		2.896	Continuing	Continuing	Continuing
Subtotal			11.638	2.367		2.690		2.896		-		2.896	Continuing	Continuing	N/A

Remarks
See TS//SCI Addendum for details.

Test and Evaluation (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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			
Developmental Test & Evaluation (DT&E)	MIPR	USAF : San Antonio, TX	0.065	0.120	Nov 2021	0.238	Dec 2022	0.300	Dec 2023	-		0.300	Continuing	Continuing	Continuing
Subtotal			0.065	0.120		0.238		0.300		-		0.300	Continuing	Continuing	N/A

Management Services (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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			
Program Management	Various	Various : Various	0.967	0.868	Jan 2022	1.430	Dec 2022	1.600	Dec 2023	-		1.600	Continuing	Continuing	Continuing
Subtotal			0.967	0.868		1.430		1.600		-		1.600	Continuing	Continuing	N/A

Remarks
1-Due to classification category, will not be on GENSER classified exhibits. (See Top Secret//Sensitive Compartmented Information Addendum for details).

			Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			42.109	17.485	14.312	15.377	-	15.377	Continuing	Continuing	N/A

Remarks

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Exhibit R-4A, RDT&E Schedule Details: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0204575N / <i>Elect Warfare Readiness Supt</i>	Project (Number/Name) 3426 / <i>Maritime Cyber</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 3426				
Product Development: CARBONAXE	1	2022	4	2028
Product Development: CARBONBLADE	1	2022	4	2028
Product Development: CARBONCUTLASS	1	2022	4	2028
Product Development: ATRALKELPIE	1	2022	4	2028
Product Development: PETREL	1	2022	4	2028
Product Development: REDWAGON	1	2022	1	2023
Product Development: BLACKTEMPEST	1	2022	4	2028
Product Development: BLACKTHUNDER	1	2022	4	2028
Product Development: BLACKTRANQUILIZER	1	2022	4	2028
Product Development: BLACKZOMBIE	1	2022	4	2028
Product Development: BLACKYIELD	1	2022	4	2028
Product Development: NIGHTLOCK	1	2022	4	2028
Product Development: Studies & Analysis	1	2022	4	2028
Product Development: HTI (YETI)	1	2022	3	2023
Product Development: Development Support	1	2022	4	2028
Product Development: POSEIDONSPEAR	1	2022	4	2023
Product Development: GARTERSNAKE	1	2022	4	2023
Product Development: Additional Classified Tools	1	2022	4	2028
Support: Intelligence Analysis	1	2022	4	2028
Test and Evaluation: Test and Evaluation	1	2022	4	2028
Management Services: Program Management	1	2022	4	2028