

UNCLASSIFIED

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

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>
---	---

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	283.962	39.502	55.528	47.436	-	47.436	65.575	64.055	64.664	66.366	Continuing	Continuing
2263: <i>Information Warfare System</i>	231.895	29.813	37.366	32.374	-	32.374	47.554	47.849	47.570	47.617	Continuing	Continuing
3426: <i>Maritime Cyber</i>	52.067	9.689	18.162	15.062	-	15.062	18.021	16.206	17.094	18.749	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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Previous President's Budget	42.702	62.006	0.000	-	0.000
Current President's Budget	39.502	55.528	47.436	-	47.436
Total Adjustments	-3.200	-6.478	47.436	-	47.436
• Congressional General Reductions	-	-	-	-	-
• Congressional Directed Reductions	-	-6.478	-	-	-
• Congressional Rescissions	-	-	-	-	-
• Congressional Adds	-	-	-	-	-
• Congressional Directed Transfers	-	-	-	-	-
• Reprogrammings	-1.546	0.000	-	-	-
• SBIR/STTR Transfer	-1.654	0.000	-	-	-
• Program Adjustments	0.000	0.000	0.000	-	0.000
• Rate/Misc Adjustments	0.000	0.000	0.000	-	0.000
• Adjustments to Budget Year	-	-	47.436	-	47.436

Change Summary Explanation

FY 2023 funding request was reduced by \$2.563 million to account for availability of prior year execution balances.

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

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2023 Navy										Date: April 2022		
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 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
2263: <i>Information Warfare System</i>	231.895	29.813	37.366	32.374	-	32.374	47.554	47.849	47.570	47.617	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 Supplement for more details.

Specific countermeasure activities include:

- * Project GRANDSTAND: Disrupt adversary communications. Provides warning of impending fires and targeting solutions for potential kinetic solution.
- * Project KUBOTAN: Disrupt adversary communications. Employment would force adversary to change operating posture to a more favorable position.
- * Project ACTIVERAIN: Countermeasure against adversary C5ISR systems.
- * Project COPPERFIELD: Countermeasure against adversary C5ISR systems.
- * Project CHATTERBOX: Countermeasure against adversary C5ISR systems.
- * Project VIRTUOSO III: Countermeasure against adversary C5ISR systems.
- * Project BECKHAM: Countermeasure against adversary C5ISR systems.
- * Emerging Technology Development: Provides countermeasure development for new and emerging technologies through vulnerability research and exploit development.

Specific countermeasure intelligence support activities include:

- * VALHALLA: Terrestrial technology research and target development (TRTD) facilities used to identify vulnerable adversary C5ISR systems or links that lead to countermeasure development at NCWDG.
- * MADHATTER and WHITERABBIT: Terrestrial TRTD facilities used to identify vulnerable adversary C5ISR systems or links that lead to countermeasure development at NCWDG.

* Test and evaluation. Modeling and simulation.

Specific program support activities include:

- * ASEP computer networks and associated support.
- * Program Management Services.

UNCLASSIFIED

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

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

	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
<p>Title: Electronic Warfare / Information and Computer Network Operations (IO & CNO) and Countermeasure Capability Research & Development</p> <p align="right">Articles:</p> <p>Description: Please refer to Top Secret//Sensitive Compartmented Information Supplement for more details.</p> <p>FY 2022 Plans:</p> <ul style="list-style-type: none"> * Project GRANDSTAND: Develop automated capability for targeting of adversary for friendly kinetic response options. Begin study on electronic attack capability against adversary systems. * Project KUBOTAN: Using analysis of alternatives and limited objective experiments to develop requirements, technology maturation, and risk reduction studies of optimal design of capability. Utilize artificial intelligence/ machine learning (AI/ML) for adversary network reconstruction. Conduct analysis of adversary communications systems. Improve radio frequency (RF) propagation modeling software for evolving criteria. * Project PACIFIC HAZE: Deliver study for countermeasure feasibility and prototype. * Project COPPERFIELD: Deliver lab demonstration of vulnerabilities. * Project CHATTERBOX: Develop feasibility and development plan for countermeasure. * Project VIRTUOSO III: Complete hardware and software upgrades. Begin vulnerability analysis and countermeasure feasibility. * Project BECKHAM: Procure initial equipment for infrastructure development. Develop processing and replication of adversary systems resulting in countermeasure development and testing. Incorporate friendly systems with BECKHAM. * Emerging Technology Development: Conduct mobile 5G wireless study on release 16 and trained AI countermeasure tool against 5G infrastructure. Conduct vulnerability analysis of unique adversary C5ISR systems. Explore emerging technologies, capabilities, and industry internal research and development (IRAD) capabilities. * FOLKVANGR and VALHALLA: Upgrade facilities to provide additional capabilities against evolving adversary C5ISR systems. * MADHATTER and WHITERABBIT: Upgrade facilities to maintain security compliance. <p>FY 2023 Base Plans:</p> <ul style="list-style-type: none"> * Project GRANDSTAND: Continue study on product electronic attack capability. * Project KUBOTAN: Design and develop optimal delivery system. Explore transition opportunities and expansion of target set. Continue AI/ML efforts for network reconstruction. Continue analysis of adversary communications system. Continue RF propagation modeling software. 	29.813	37.366	32.374	0.000	32.374
	-	-	-	-	-

UNCLASSIFIED

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

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
<p>* Project PACIFIC HAZE: Design and develop prototype and conduct field test of countermeasure.</p> <p>* Project COPPERFIELD: Deliver prototype and conduct field test of countermeasure.</p> <p>* Project CHATTERBOX: Develop countermeasure prototype, design optimal prototype interface, and explore optimal mission employment.</p> <p>* Project VIRTUOSO III: Continue countermeasure development against adversary C5ISRT systems. Integrate and test countermeasure.</p> <p>* Project BECKHAM: Develop and build one additional prototype and associated infrastructure. Develop simple countermeasure techniques. Develop countermeasure test and calibration system.</p> <p>* Emerging Technology Development: Conduct and conclude mobile 5G wireless study on release 17 and improve AI developed countermeasures. Explore unintentional RF aperture vulnerabilities and exploits to deliver electronic warfare and cyber effects. Explore and develop new RF signature decoys to enable desired friendly tactical situation (TACSIT) and deny adversary C5ISRT systems. Explore emerging technologies, capabilities, and industry internal research and development (IRAD) capabilities.</p> <p>* FOLKVANGR and VALHALLA: Upgraded facilities to provide additional capabilities against evolving adversary 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.</p> <p>FY 2023 OCO Plans: N/A</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: FY23 decrease of \$4.992M from FY22 in Information Warfare Systems (2263) is due to a reduction of efforts pertaining to operationalizing Project KUBOTAN through prototype development and field testing in FY23 and completion of PACIFIC HAZE efforts in FY22. KUBOTAN is expected to transition from studies and analysis to the deliverance of a prototyped capability to existing fleet infrastructure by FY24.</p>					
Accomplishments/Planned Programs Subtotals	29.813	37.366	32.374	0.000	32.374

C. Other Program Funding Summary (\$ in Millions) N/A
Remarks

UNCLASSIFIED

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

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.

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Navy												Date: April 2022			
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 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
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	2.500	3.260	Feb 2021	4.127	Apr 2022	4.100	Feb 2023	-		4.100	Continuing	Continuing	Continuing
Kubotan	SS/CPFF	PSU : PA	1.000	3.301	Jun 2021	3.303	Jun 2022	3.762	Jun 2023	-		3.762	Continuing	Continuing	Continuing
Pacific Haze	SS/CPFF	Northrup Grumman : OH	0.000	1.848	Sep 2021	4.100	May 2022	0.000		-		0.000	0.000	5.948	-
Copperfield	SS/CPFF	Lockheed Martin : PA	0.000	1.200	Jul 2021	1.100	Jul 2022	2.650	Jul 2023	-		2.650	Continuing	Continuing	Continuing
Chatterbox	SS/CPFF	ICR : CO	0.000	0.000		1.100	Feb 2022	0.526	Feb 2023	-		0.526	Continuing	Continuing	Continuing
Virtuoso III	SS/CPFF	Argon : VA	0.000	1.249	Aug 2021	2.288	Aug 2022	1.326	Aug 2023	-		1.326	Continuing	Continuing	Continuing
Beckham	SS/CPFF	Argon : VA	0.000	0.997	Jul 2021	1.200	Sep 2022	1.000	Jul 2023	-		1.000	Continuing	Continuing	Continuing
Emerging Technology	SS/CPFF	Argon : VA	0.000	1.765	Jun 2021	11.446	Jun 2022	13.135	Jun 2023	-		13.135	Continuing	Continuing	Continuing

UNCLASSIFIED

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

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>
--	---	--

Product Development (\$ in Millions)				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			
Subtotal			175.329	13.620		28.664		26.499		-		26.499	Continuing	Continuing	N/A

Remarks
1-Due to classification category, will not be on 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 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			
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	8.558	1.590	Oct 2020	2.032	Nov 2021	1.938	Nov 2022	-		1.938	0.000	14.118	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	-
Logistics	Various	NAVFAC : MIDLANT VA	0.704	0.000		0.000		0.000		-		0.000	0.000	0.704	-

UNCLASSIFIED

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

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>
--	---	--

Support (\$ in Millions)				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			
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	0.000	8.448	Dec 2020	2.000	Dec 2021	0.000		-		0.000	Continuing	Continuing	Continuing
Subtotal			23.586	10.038		4.032		1.938		-		1.938	Continuing	Continuing	N/A

Remarks
1-Due to classification category, will not be on 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 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			
Mod & Sim(1)	Various	Classified : Classified	9.374	0.000		0.000		0.000		-		0.000	0.000	9.374	-
Operational Test & Evaluation	Various	Various : Various	1.834	0.000		0.000		0.000		-		0.000	0.000	1.834	-
Mod/Sim	SS/CPFF	PSU : PA	0.000	0.629	Dec 2020	1.087	Dec 2021	1.100	Dec 2022	-		1.100	Continuing	Continuing	Continuing
Subtotal			11.208	0.629		1.087		1.100		-		1.100	Continuing	Continuing	N/A

Remarks
1-Due to classification category, will not be on GENSER classified exhibits.

Management Services (\$ in Millions)				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			
Program Management Services	Various	Classified : Classified	21.772	5.526	Oct 2020	3.583	Nov 2021	2.837	Nov 2022	-		2.837	Continuing	Continuing	Continuing
Subtotal			21.772	5.526		3.583		2.837		-		2.837	Continuing	Continuing	N/A

UNCLASSIFIED

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

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>
--	---	--

Management Services (\$ in Millions)				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			

Remarks
1-Due to classification category, will not be on GENSER classified exhibits. Please refer to TS//SCI Supplement for more details.

	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	231.895	29.813	37.366	32.374	-	32.374	Continuing	Continuing	N/A

Remarks

UNCLASSIFIED

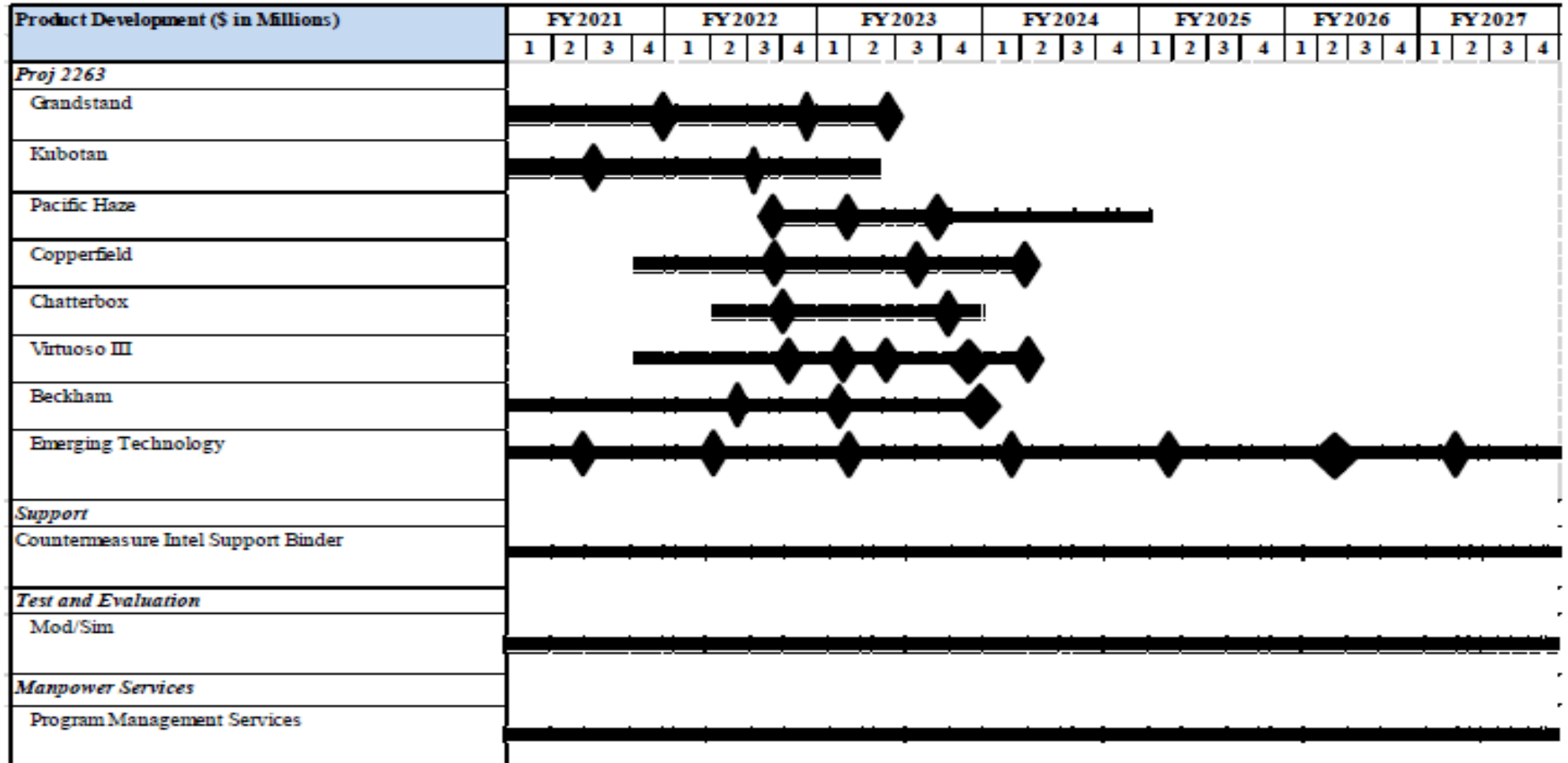
Exhibit R-4, RDT&E Schedule Profile: PB 2023 Navy

Date: April 2022

Appropriation/Budget Activity
1319 / 7

R-1 Program Element (Number/Name)
PE 0204575N / *Elect Warfare Readiness Su*
pt

Project (Number/Name)
2263 / *Information Warfare System*



UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2023 Navy		Date: April 2022
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	2021	2	2023
Product Development: Kubotan	1	2021	1	2023
Product Development: Pacific Haze	3	2022	3	2024
Product Development: Copperfield	4	2021	2	2024
Product Development: Chatterbox	2	2022	4	2023
Product Development: Virtuoso III	4	2021	2	2024
Product Development: Beckham	1	2021	1	2024
Product Development: Emerging Technology	1	2021	4	2027
Support: Countermeasures Intel Support / Binder	1	2021	4	2027
Test and Evaluation: Mod/Sim	1	2021	4	2027
Management Services: Program Management Services	1	2023	4	2027

UNCLASSIFIED

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

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>
--	---	--

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
3426: <i>Maritime Cyber</i>	52.067	9.689	18.162	15.062	-	15.062	18.021	16.206	17.094	18.749	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

Note
Please refer to Top Secret//Sensitive Compartmented Information Supplement for more details.

A. Mission Description and Budget Item Justification

Maritime Cyber(3426) - The mission is to develop offensive maritime cyber capabilities to deny, degrade, disrupt, destroy (D4) adversary systems. This budget item funds: tool development to counter adversary systems.

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

	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Title: Maritime Cyber	9.689	18.162	15.062	0.000	15.062
Articles:	-	-	-	-	-
Description: Please refer to Top Secret//Sensitive Compartmented Information Supplement for more details.					
FY 2022 Plans: *Continue development of multiple maritime cyber capabilities against adversary systems. *Conduct intelligence analysis and vulnerability research to support future development and cyber operations.					
FY 2023 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.					
FY 2023 OCO Plans: N/A					
FY 2022 to FY 2023 Increase/Decrease Statement: The decrease of \$3.1M from FY 2022 to FY 2023 is due to a reduction of maritime cyber D4 capabilities deliveries and testing of operational prototypes.					
Accomplishments/Planned Programs Subtotals	9.689	18.162	15.062	0.000	15.062

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

N/A

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2023 Navy		Date: April 2022
Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0204575N / <i>Elect Warfare Readiness Su</i> <i>pt</i>	Project (Number/Name) 3426 / <i>Maritime Cyber</i>

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

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.

UNCLASSIFIED

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

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>
--	---	--

Product Development (\$ in Millions)				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			
Classified Tool #1	MIPR	DOE : Classified	11.657	1.820	Jan 2021	0.800	Nov 2021	0.200	Dec 2022	-		0.200	Continuing	Continuing	Continuing
Classified Tool #2	MIPR	AF/iCR : Aurora, CO	3.378	0.500	Mar 2021	0.500	Nov 2021	0.300	Dec 2022	-		0.300	Continuing	Continuing	Continuing
Classified Tool #3	MIPR	AF/iCR : Aurora, CO	0.000	1.000	Mar 2021	1.000	Nov 2021	1.250	Nov 2022	-		1.250	Continuing	Continuing	Continuing
Classified Tool #4	MIPR	AF/iCR : Aurora, CO	0.300	0.000		0.500	Nov 2021	0.750	Dec 2022	-		0.750	Continuing	Continuing	Continuing
Classified Tool #5	MIPR	AF/iCR : Aurora, CO	0.300	0.000		0.500	Nov 2021	0.500	Dec 2022	-		0.500	Continuing	Continuing	Continuing
Classified Tool #6	MIPR	MIT/LL : Boston, MA	1.250	0.600	Dec 2021	0.940	Nov 2021	0.970	Dec 2022	-		0.970	Continuing	Continuing	Continuing
Classified Tool #7	MIPR	DOE : Classified	0.200	0.000		1.800	Nov 2021	1.000	Dec 2022	-		1.000	Continuing	Continuing	Continuing
Classified Capability #1	MIPR	DOE/LANL : Los Alamos, NM	2.210	0.525	Nov 2020	0.905	Nov 2021	1.100	Dec 2022	-		1.100	Continuing	Continuing	Continuing
Classified Capability #2	MIPR	ARGON/DRT : Germantown, MD	0.200	0.000	Dec 2021	0.525	Nov 2021	0.000		-		0.000	0.000	0.725	-
Classified Capability #3	MIPR	MITRE : McLean, VA	0.200	0.425	Mar 2021	0.352	Jan 2022	0.000		-		0.000	0.000	0.977	-
Research and Vulnerability Analysis	MIPR	NPS : Monterey, CA	0.517	0.600	Dec 2020	0.369	Nov 2021	0.500	Dec 2022	-		0.500	Continuing	Continuing	Continuing
Additional Capability Development Efforts	Various	Various : Various	0.770	1.660	Mar 2021	0.000	Dec 2021	2.386	Dec 2022	-		2.386	Continuing	Continuing	Continuing
Previous Tool Development	Various	Various : Various	20.982	0.000		0.000		0.000		-		0.000	0.000	20.982	-
Subtotal			41.964	7.130		8.191		8.956		-		8.956	Continuing	Continuing	N/A

Remarks
See TS//SCI Addendum for details.

Support (\$ in Millions)				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			
Intelligence Analysis	Various	Various : Various	0.200	2.415	Mar 2021	7.400	Dec 2021	4.500	Dec 2022	-		4.500	Continuing	Continuing	Continuing
Previous Intelligence Analysis Efforts	Various	Various : Various	9.023	0.000		0.000		0.000		-		0.000	0.000	9.023	0.585
Subtotal			9.223	2.415		7.400		4.500		-		4.500	Continuing	Continuing	N/A

UNCLASSIFIED

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

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>
--	---	--

Support (\$ in Millions)				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			

Remarks
See TS//SCI Addendum for details.

Test and Evaluation (\$ in Millions)				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			
Test and Evaluation	MIPR	USAF : San Antonio, TX	0.030	0.035	Jun 2021	0.100	Nov 2021	0.100	Dec 2022	-		0.100	0.000	0.265	-
Subtotal			0.030	0.035		0.100		0.100		-		0.100	0.000	0.265	N/A

Management Services (\$ in Millions)				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			
Program Management	C/CPFF	Classified : Classified	0.850	0.000		2.471	Jan 2022	1.506	Dec 2022	-		1.506	Continuing	Continuing	Continuing
Program Management	MIPR	AFLCMC/HNJJ : Hanscom AFB	0.000	0.109	Oct 2020	0.000		0.000		-		0.000	0.000	0.109	-
Subtotal			0.850	0.109		2.471		1.506		-		1.506	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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals		52.067	9.689	18.162	15.062	15.062	Continuing	Continuing	N/A

Remarks

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2023 Navy

Date: April 2022

Appropriation/Budget Activity
1319 / 7

R-1 Program Element (Number/Name)
PE 0204575N / Elect Warfare Readiness Su
pt

Project (Number/Name)
3426 / Maritime Cyber

	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY			
	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
Proj 3426																												
Classified Tool #1			v. 1.0				v. 2.0				v. 3.0																	
Classified Tool #2			v. 2.2				v. 2.3				v. 3.0				v. 4.0													
Classified Tool #3				v1.0				v2.0					v. 3.0															
Classified Tool #4			v 1.0					v. 2.0				v. 3.0																
Classified Tool #5			v 1.0					v. 2.0				v. 3.0																
Classified Tool #6				v1.0				v. 2.0				v. 3.0																
Classified Tool #7								v. 1.0				v. 2.0																
Classified Capability #1								v 2.0				v 2.5																
Classified Capability #2									v 1.5																			
Classified Capability #3	v 1.0								v 1.5																			
Research and Vulnerability Analysis	Continuous Effort (with Deliverables)																											
Additional Tool Development Efforts	Continuous Effort (with Deliverables)																											
Intelligence Analysis																												
Program Support: Support																												

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2023 Navy		Date: April 2022
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: Primary Hardware Development	1	2021	4	2022
Product Development: System Engineering	1	2021	4	2022
Product Development: Software Development	1	2021	4	2022
Product Development: Development	1	2021	4	2022
Product Development: Classified Tool #1	1	2023	4	2027
Product Development: Classified Tool #2	1	2023	4	2027
Product Development: Classified Tool #3	1	2023	4	2027
Product Development: Classified Tool #4	1	2023	4	2027
Product Development: Classified Capability #1	1	2023	4	2027
Product Development: Classified Tool, Other	1	2023	4	2027
Support: Studies & Analysis	1	2021	4	2022
Support: Development Support	1	2021	4	2022
Support: Intelligence Analysis	1	2023	4	2027
Management Services: Program Management Support	1	2023	4	2027