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

<b>Appropriation/Budget Activity</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy / BA 5: System Development &amp; Demonstration (SDD)</i>	<b>R-1 Program Element (Number/Name)</b> PE 0604574N / <i>Navy Tactical Computer Resources</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	27.584	4.267	4.177	4.279	-	4.279	4.014	4.100	4.182	4.268	Continuing	Continuing
3360: <i>Common Processing System (CPS)</i>	9.649	1.453	1.497	1.576	-	1.576	1.433	1.463	1.494	1.525	Continuing	Continuing
3361: <i>Common Display System (CDS)</i>	17.935	2.814	2.680	2.703	-	2.703	2.581	2.637	2.688	2.743	Continuing	Continuing

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

Common Processing System (CPS) and Common Display System (CDS) programs support developing computing infrastructure in a competitively sourced environment. The Common Display System (CDS) & Common Processing System (CPS) provide technical replacements for obsolete display and processing equipment (such as AN/UYQ-70) for multiple warfare systems aboard Surface Combatants and Large Deck class ships.

CPS equipment suite provides computer processing and memory, data storage and extraction, network systems, and Input/Output (I/O) interfaces to host software applications of Navy combat systems. These upgrades support AEGIS Modernization, AEGIS new construction, AEGIS Ashore, Ship Self Defense System (SSDS) MK2 modernization and new construction for all large deck platforms, Surface Electronic Warfare Improvement Program (SEWIP), and other Navy programs. Funding provides for technical management and Engineering Change Proposals (ECP) development for the common baseline. Funding also supports future tech refresh development efforts. Procurement and development funds provided by user programs support program unique requirements.

CDS suite consists of the Technology Insertion (TI) 16 MOD 1 configuration, a follow-on to previous designs beginning with the TI 12 variant. The Navy's TI 16 MOD 1 display and peripheral solutions include Common Display System (CDS) consoles, Thin Client Displays (TCDs), Multi-Mission Displays (MMDs), and peripheral equipment. Upgrades that include these support AEGIS modernization, AEGIS new construction, AEGIS Ashore, DDG-1000, Ship Self Defense System (SSDS) MK 2, Gun Weapon System (GWS), SEWIP, and other Navy programs. Funding provides for technical management and Engineering Change Proposals (ECP) development for the common baseline along with future tech refresh development efforts. Procurement and development funds provided by user programs support program unique requirements.

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<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2024 Navy	<b>Date:</b> March 2023
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<b>Appropriation/Budget Activity</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy / BA 5: System Development &amp; Demonstration (SDD)</i>	<b>R-1 Program Element (Number/Name)</b> PE 0604574N / <i>Navy Tactical Computer Resources</i>
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<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>
Previous President's Budget	4.290	4.177	4.179	-	4.179
Current President's Budget	4.267	4.177	4.279	-	4.279
Total Adjustments	-0.023	0.000	0.100	-	0.100
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.023	0.000			
• Rate/Misc Adjustments	0.000	0.000	0.100	-	0.100

**Change Summary Explanation**

No significant changes.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 Navy										<b>Date:</b> March 2023		
<b>Appropriation/Budget Activity</b> 1319 / 5					<b>R-1 Program Element (Number/Name)</b> PE 0604574N / Navy Tactical Computer Resources				<b>Project (Number/Name)</b> 3360 / Common Processing System (CPS)			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
3360: Common Processing System (CPS)	9.649	1.453	1.497	1.576	-	1.576	1.433	1.463	1.494	1.525	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

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

CPS equipment suite provides computer processing and memory, data storage and extraction, network systems, and Input/Output (I/O) interfaces to host software applications of Navy combat systems. These upgrades support AEGIS Modernization, AEGIS new construction, AEGIS Ashore, Ship Self Defense System (SSDS) MK2 modernization and new construction for all large deck platforms, Surface Electronic Warfare Improvement Program (SEWIP), and other Navy programs. Funding provides for technical management and Engineering Change Proposals (ECP) development for the common baseline. Funding also supports future tech refresh development efforts. Procurement and development funds provided by user programs support program unique requirements.

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

	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>
<b>Title:</b> Common Processing System (CPS)	1.453	1.497	1.576	0.000	1.576
<b>Articles:</b>	-	-	-	-	-
<b>FY 2023 Plans:</b>					
Continue system-engineering support of CPS development efforts required to support various Combat and Weapon System Configurations. Development efforts include but are not limited to continued qualification of cabinets along with associated parts and procurement of testing equipment, both of which impact SSDS, SEWIP, and other Navy programs. Address obsolescence issues as they are identified within the CPS equipment suite and future tech refresh development efforts.					
<b>FY 2024 Base Plans:</b>					
Continue system-engineering support of CPS development efforts required to support various Combat and Weapon System Configurations. Development efforts include but are not limited to continued qualification of cabinets along with associated parts and procurement of testing equipment, both of which impact SSDS, SEWIP, and other Navy programs. Address obsolescence issues as they are identified within the CPS equipment suite and future tech refresh development efforts.					
<b>FY 2024 OCO Plans:</b>					
N/A					
<b>FY 2023 to FY 2024 Increase/Decrease Statement:</b>					

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 Navy		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604574N / Navy Tactical Computer Resources	<b>Project (Number/Name)</b> 3360 / Common Processing System (CPS)

<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>
FY24 increase is based on inflation and rate adjustments.					
<b>Accomplishments/Planned Programs Subtotals</b>	1.453	1.497	1.576	0.000	1.576

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

N/A

**Remarks**

**D. Acquisition Strategy**

CPS Contract Award.



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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2024 Navy</b>		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604574N / Navy Tactical Computer Resources	<b>Project (Number/Name)</b> 3360 / Common Processing System (CPS)

Fiscal Year	RDT&E/N/BA-5																PE 0604574N / Navy Tactical Computer Resources																3360 / Common Processing System (CPS)															
	2022				2023				2024				2025				2026				2027				2028																							
	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																				
Common Processing System (CPS) TI12 H Sustainment Contract									Sustainment Contract																																							
Common Processing System (CPS) TI 16 (MK6 MOD 1)					Sustainment Contract																																											
Common Processing System (CPS) TI 16 (MK6 MOD X)													Contract Award								Production Contract																											

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2024 Navy		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604574N / Navy Tactical Computer Resources	<b>Project (Number/Name)</b> 3360 / Common Processing System (CPS)

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>Proj 3360</b>				
Common Processing System (CPS): TI12H Sustainment Contract	1	2022	4	2024
Common Processing System (CPS): TI16 (MK6 MOD1) Production Contract	1	2022	3	2025
Common Processing System (CPS): TI16 (MK6 MOD X) Production Contract	2	2025	4	2028

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 Navy										<b>Date:</b> March 2023		
<b>Appropriation/Budget Activity</b> 1319 / 5					<b>R-1 Program Element (Number/Name)</b> PE 0604574N / Navy Tactical Computer Resources				<b>Project (Number/Name)</b> 3361 / Common Display System (CDS)			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
3361: Common Display System (CDS)	17.935	2.814	2.680	2.703	-	2.703	2.581	2.637	2.688	2.743	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

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

CDS suite consists of the Technology Insertion (TI) 16 MOD 1 configuration, a follow-on to previous designs beginning with the TI 12 variant. The Navy's TI 16 MOD 1 display and peripheral solutions include Common Display System (CDS) consoles, Thin Client Displays (TCDs), Multi-Mission Displays (MMDs), and peripheral equipment. Upgrades that include these support AEGIS modernization, AEGIS new construction, AEGIS Ashore, DDG-1000, Ship Self Defense System (SSDS) MK 2, Gun Weapon System (GWS), SEWIP, and other Navy programs. Funding provides for technical management and Engineering Change Proposals (ECP) development for the common baseline along with future tech refresh development efforts. Procurement and development funds provided by user programs support program unique requirements.

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

	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>
<b>Title:</b> Common Display System (CDS)	2.814	2.680	2.703	0.000	2.703
<b>Articles:</b>	-	-	-	-	-
<b>FY 2023 Plans:</b>					
Continue system engineering support of CDS development efforts required to support various Combat and Weapon System Configurations. Development efforts include but are not limited to drawing updates and upgrade of equipment design, both of which impact SSDS, SEWIP, and other Navy programs. Address obsolescence's issues as they are identified within the CDS equipment suite. Support engineering analysis of issues identified within field configuration to develop resolution plan to improve reliability, readiness, or reduce operating costs, and future tech refresh development efforts.					
<b>FY 2024 Base Plans:</b>					
Continue system engineering support of CDS development efforts required to support various Combat and Weapon System Configurations. Development efforts include but are not limited to drawing updates and upgrade of equipment design, both of which impact SSDS, SEWIP, and other Navy programs. Address obsolescence's issues as they are identified within the CDS equipment suite. Support engineering analysis of issues identified within field configuration to develop resolution plan to improve reliability, readiness, or reduce operating costs, and future tech refresh development efforts.					
<b>FY 2024 OCO Plans:</b>					

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 Navy		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604574N / Navy Tactical Computer Resources	<b>Project (Number/Name)</b> 3361 / Common Display System (CDS)

<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>
N/A					
<b><i>FY 2023 to FY 2024 Increase/Decrease Statement:</i></b> FY24 increase is based on inflation and rate adjustments.					
<b>Accomplishments/Planned Programs Subtotals</b>	2.814	2.680	2.703	0.000	2.703

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

**Remarks**

**D. Acquisition Strategy**  
CDS Contract award.

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

<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604574N / Navy Tactical Computer R esources	<b>Project (Number/Name)</b> 3361 / Common Display System (CDS)
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<b>Product Development (\$ in Millions)</b>				<b>FY 2022</b>		<b>FY 2023</b>		<b>FY 2024 Base</b>		<b>FY 2024 OCO</b>		<b>FY 2024 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Systems Engineering	WR	NSWC : PHD	1.130	0.398	Oct 2021	0.412	Oct 2022	0.445	Oct 2023	-		0.445	Continuing	Continuing	Continuing
Systems Engineering	WR	NSWC : Dahlgren	9.854	1.137	Oct 2021	1.027	Oct 2022	0.894	Oct 2023	-		0.894	Continuing	Continuing	Continuing
Systems Engineering	C/CPFF	General Dynamics : Fairfax, VA	2.495	0.506	Oct 2021	0.515	Oct 2022	0.506	Oct 2023	-		0.506	0.000	4.022	-
Systems Engineering	C/CPIF	DRS Technologies : Gaithersburg, MD	2.620	0.628	Oct 2021	0.401	Oct 2022	0.528	Oct 2023	-		0.528	0.000	4.177	-
Systems Engineering	C/CPIF	TBD : TBD	1.370	0.145	Oct 2021	0.140	Oct 2022	0.145	Oct 2023	-		0.145	0.000	1.800	-
<b>Subtotal</b>			17.469	2.814		2.495		2.518		-		2.518	Continuing	Continuing	N/A

<b>Management Services (\$ in Millions)</b>				<b>FY 2022</b>		<b>FY 2023</b>		<b>FY 2024 Base</b>		<b>FY 2024 OCO</b>		<b>FY 2024 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Program Management Services	Various	Various : Various	0.466	0.000		0.185	Oct 2022	0.185	Oct 2023	-		0.185	Continuing	Continuing	Continuing
<b>Subtotal</b>			0.466	0.000		0.185		0.185		-		0.185	Continuing	Continuing	N/A

	<b>Prior Years</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Project Cost Totals</b>	17.935	2.814	2.680	2.703	-	2.703	Continuing	Continuing	N/A

**Remarks**

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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2024 Navy</b>		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604574N / Navy Tactical Computer Resources	<b>Project (Number/Name)</b> 3361 / Common Display System (CDS)

Fiscal Year	RDT&E,N/BA-5																PE 0604574N / Navy Tactical Computer Resources																3361 / Common Display System (CDS)															
	2022				2023				2024				2025				2026				2027				2028																							
	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																				
Common Display System (CDS) TI12 H Sustainment Contract					Sustainment Contract																																											
Common Display System (CDS) TI 16 (MK6 MOD 1)					Sustainment Contract																																											
Common Display System (CDS) TI 16 (MK6 MOD X)									Contract Award																																							

Production Contract

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2024 Navy		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604574N / Navy Tactical Computer Resources	<b>Project (Number/Name)</b> 3361 / Common Display System (CDS)

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>Proj 3361</b>				
Common Display System (CDS): T112H Sustainment Contract	1	2022	3	2026
Common Display System (CDS): T116 (MK6 MOD1) Production Contract	1	2022	3	2025
Common Display System (CDS): T116 (MK6 MOD X) Production Contract	2	2024	4	2028