

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 4: Advanced Component Development & Prototypes (ACD&P)</i> | R-1 Program Element (Number/Name) PE 0603506N / <i>Surface Ship Torpedo Defense</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 | 778.058 | 11.620 | 8.862 | 0.473 | - | 0.473 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 799.013 |
| 0225: <i>Surface Ship Torpedo Defense (SSTD)</i> | 778.058 | 11.620 | 1.862 | 0.473 | - | 0.473 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 792.013 |
| 9999: <i>Congressional Adds</i> | 0.000 | 0.000 | 7.000 | 0.000 | - | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 7.000 |

A. Mission Description and Budget Item Justification

The Surface Ship Torpedo Defense (SSTD) program provides a detect-to-engage layered torpedo defense capability. The four (4) major efforts that comprise SSTD are the AN/SLQ-25 (NIXIE) system, Torpedo Warning System (TWS), the Countermeasure Anti-Torpedo (CAT), and Acoustic Device Countermeasure (Surface ADC MK2). FY22 funding supports mission readiness for Anti-Torpedo Torpedo Defense System (ATTDS) equipped CVNs. The CAT program developed a canisterized Anti-Torpedo Torpedo (ATT). The TWS and CAT systems make-up the ATTDS.

The ATTDS provides a hard kill torpedo defensive capability on High Value Units (HVV's). The program has developed and fielded five ATTDS Engineering Design Model (EDM) systems on CVNs. Each EDM system is one TWS with a load out of a maximum of eight CATs. In FY20, the ATTDS Program commenced sundown efforts to return the five CVNs to their original configuration. Removal of two systems will complete in FY22. FY22 and FY23 will provide minimal support to the 3 remaining CVN installations with system preservation the primary focus.

Research and development in torpedo defense of new technologies and capabilities developed under the Future Naval Capabilities (FNC), Small Business and Innovative Research (SBIR), and other Research, Development, Test & Evaluation (RDT&E) initiatives are evaluated to determine their effectiveness and impact on improving ship survivability. Evaluations of new and emerging torpedo defense hardware and software in representative acoustic environments, against projected threats using both digital and hardware-in-the-loop simulations is performed. In FY22, there is no development or evaluation of new or existing torpedo defense capabilities.

| B. Program Change Summary (\$ in Millions) | FY 2021 | FY 2022 | FY 2023 Base | FY 2023 OCO | FY 2023 Total |
|---|----------------|----------------|---------------------|--------------------|----------------------|
| Previous President's Budget | 11.759 | 1.862 | 0.000 | - | 0.000 |
| Current President's Budget | 11.620 | 8.862 | 0.473 | - | 0.473 |
| Total Adjustments | -0.139 | 7.000 | 0.473 | - | 0.473 |
| • Congressional General Reductions | - | - | - | - | - |
| • Congressional Directed Reductions | - | - | - | - | - |
| • Congressional Rescissions | - | - | - | - | - |
| • Congressional Adds | - | 7.000 | - | - | - |
| • Congressional Directed Transfers | - | - | - | - | - |
| • Reprogrammings | -0.008 | 0.000 | - | - | - |
| • SBIR/STTR Transfer | -0.131 | 0.000 | - | - | - |
| • Rate/Misc Adjustments | 0.000 | 0.000 | 0.000 | - | 0.000 |

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

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|---|---|
| Appropriation/Budget Activity 1319: <i>Research, Development, Test & Evaluation, Navy / BA 4: Advanced Component Development & Prototypes (ACD&P)</i> | R-1 Program Element (Number/Name) PE 0603506N / <i>Surface Ship Torpedo Defense</i> |
|---|---|

| | | | | | |
|------------------------------|---|---|-------|---|-------|
| • Adjustments to Budget Year | - | - | 0.473 | - | 0.473 |
|------------------------------|---|---|-------|---|-------|

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: 9999: *Congressional Adds*

Congressional Add: *SLQ-25 capability improvements*

Congressional Add: *Surface ship torpedo defense towed decoys*

Congressional Add Subtotals for Project: 9999

Congressional Add Totals for all Projects

| FY 2021 | FY 2022 |
|---------|---------|
| 0.000 | 3.000 |
| 0.000 | 4.000 |
| 0.000 | 7.000 |
| 0.000 | 7.000 |

Change Summary Explanation

FY2021 SBIR reduction of \$0.131 million. FY2021 reprogramming action of \$0.008 million to support a Cancelled Account transaction.

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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| 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 0603506N / Surface Ship Torpedo Defense | | | | Project (Number/Name) 0225 / Surface Ship Torpedo Defense (SSTD) | | | |
| 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 |
| 0225: Surface Ship Torpedo Defense (SSTD) | 778.058 | 11.620 | 1.862 | 0.473 | - | 0.473 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 792.013 |
| Quantity of RDT&E Articles | | - | - | - | - | - | - | - | - | - | | |

A. Mission Description and Budget Item Justification

The Countermeasure Anti-Torpedo (CAT) program developed a canisterized Anti-Torpedo Torpedo (ATT). The Torpedo Warning System (TWS) developed the required torpedo detection, classification and localization (TDCL) systems. The countermeasure TWS and CAT systems make up the Anti-Torpedo Torpedo Defense System (ATTDS). The funding supports mission readiness for Anti-Torpedo Torpedo Defense System (ATTDS) equipped CVNs. In FY21, funding supported the sundown of two systems and mission readiness for four (4) CVN deployment cycles prior to their CVN system shutdown. FY22 and FY23 funding will be very limited to minimal support and system preservation.

The ATTDS provides a hard kill torpedo defensive capability on High Value Units (HVV's). The program has developed and fielded five ATTDS Engineering Design Model (EDM) systems on CVNs. Each EDM system consists one TWS with a load out of a maximum of eight CATs.

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

| | FY 2021 | FY 2022 | FY 2023 Base | FY 2023 OCO | FY 2023 Total |
|---|----------------|----------------|---------------------|--------------------|----------------------|
| Title: Countermeasure Anti-Torpedo (CAT) | 4.677 | 0.321 | 0.108 | 0.000 | 0.108 |
| Articles: | - | - | - | - | - |
| FY 2022 Plans: Land based Fleet support of the system in the first quarter of the year. | | | | | |
| FY 2023 Base Plans: Storage and preservation of CAT units at NUWC Keyport. | | | | | |
| FY 2023 OCO Plans: N/A | | | | | |
| FY 2022 to FY 2023 Increase/Decrease Statement: FY2022 to FY2023 decrease of 0.213 million due to reduction of fleet support. | | | | | |
| Title: Torpedo Warning System (TWS) | 6.943 | 1.541 | 0.365 | 0.000 | 0.365 |
| Articles: | - | - | - | - | - |
| FY 2022 Plans: | | | | | |

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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 0603506N / <i>Surface Ship Torpedo Defense</i> | Project (Number/Name) 0225 / <i>Surface Ship Torpedo Defense (SSTD)</i> |

| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | FY 2021 | FY 2022 | FY 2023 Base | FY 2023 OCO | FY 2023 Total |
|--|----------------|----------------|---------------------|--------------------|----------------------|
| Land based Fleet support of the system in the first quarter of the year. FY 2023 Base Plans: TWS system preservation on four (4) CVN as needed by fleet request. FY 2023 OCO Plans: N/A FY 2022 to FY 2023 Increase/Decrease Statement: FY2022 to FY2023 decrease of 1.176 million due to reduction of fleet support. | | | | | |
| Accomplishments/Planned Programs Subtotals | 11.620 | 1.862 | 0.473 | 0.000 | 0.473 |

| 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/2213: <i>Surface Ship Torpedo Def (SSTD)</i> | 13.241 | 11.010 | 14.325 | - | 14.325 | 14.139 | 2.444 | 2.561 | 2.577 | Continuing | Continuing |
| • WPN/3113: <i>Surface Ship Torpedo Def (SSTD)</i> | 5.811 | 4.545 | 3.789 | - | 3.789 | 4.694 | 4.640 | 5.418 | 5.515 | Continuing | Continuing |

Remarks
 OPN/2213 funds the AN/SLQ-25 System. No ATTDS OPN funding in FY20 and out.
 WPN/3113 funds the Surface Acoustic Device Countermeasure, ADC MK2 Mod 6 and Surface ADC Ready Stowage Lockers. No WPN ATTDS funding in FY20 and out.

D. Acquisition Strategy
 CAT Program: The Program completed a Systems Requirements Review (SRR) and Preliminary Design Review (PDR) on the Engineering Development Model (EDM) design. ARL Penn State (ARL/PSU) has completed a Technical Data Package (TDP) to support the future system builds. CAT system SALVO Software was operational prior to ATTDS system preservation and is currently in fleet use.

 TWS Program: ULTRA developed and produced of five complete sensor sets. Pacific Engineering Incorporated (PEI) and In-Depth Engineering INC. developed the stowage racks and fire control systems respectively. System integration supported fabrication and fielding of the five complete systems. Testing of TWS SALVO software was complete and is currently in Fleet use. It is anticipated that ULTRA will support the program when funding is available.

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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 0603506N / Surface Ship Torpedo Defense | | | | 0225 / Surface Ship Torpedo Defense (SSTD) | | | | | | | |
| 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 |
| Systems Engineering | WR | NUWC : Newport, RI | 52.931 | 6.340 | May 2021 | 0.100 | Nov 2021 | 0.100 | Nov 2022 | - | | 0.100 | 0.000 | 59.471 | - |
| Systems Engineering ATT Dev. | C/CPFF | PSU/ARL : State College, PA | 307.114 | 0.000 | | 0.100 | Feb 2022 | 0.030 | Nov 2022 | - | | 0.030 | 0.000 | 307.244 | - |
| Systems Engineering | C/CPFF | JHU/APL : Baltimore , MD | 1.740 | 0.000 | | 0.000 | | 0.000 | | - | | 0.000 | 0.000 | 1.740 | - |
| Systems Engineering Warhead Dev. | WR | NSWC : Indian Head, MD | 81.690 | 1.300 | Nov 2020 | 0.274 | Nov 2021 | 0.000 | | - | | 0.000 | 0.000 | 83.264 | - |
| Systems Engineering | WR | NUWC : Keyport, WA | 62.773 | 1.781 | Nov 2020 | 0.300 | Nov 2021 | 0.080 | Nov 2022 | - | | 0.080 | 0.000 | 64.934 | - |
| Systems Engineering TDCL | C/CPFF | Ultra : Braintree, MA | 11.640 | 0.000 | | 0.000 | | 0.000 | | - | | 0.000 | 0.000 | 11.640 | Continuing |
| Systems Engineering ATT | WR | ONR : Arlington, VA | 1.680 | 0.000 | | 0.000 | | 0.000 | | - | | 0.000 | 0.000 | 1.680 | - |
| Systems Engineering TDCL | C/CPFF | AAC : Hauppauge, NY | 4.480 | 0.000 | | 0.000 | | 0.000 | | - | | 0.000 | 0.000 | 4.480 | Continuing |
| Systems Engineering | WR | OPTEVFOR : Norfolk, VA | 2.430 | 0.000 | | 0.000 | | 0.000 | | - | | 0.000 | 0.000 | 2.430 | - |
| Systems Engineering | C/CPFF | ArgonST : Manassas, VA | 0.800 | 0.000 | | 0.000 | | 0.000 | | - | | 0.000 | 0.000 | 0.800 | Continuing |
| Systems Engineering TDCL | WR | NSWC : Dahlgren, VA | 10.032 | 0.000 | | 0.000 | | 0.000 | | - | | 0.000 | 0.000 | 10.032 | Continuing |
| Systems Engineering TDCL | WR | SPAWAR : San Diego, CA | 11.118 | 0.000 | | 0.000 | | 0.000 | | - | | 0.000 | 0.000 | 11.118 | Continuing |
| Systems Engineering | C/CPFF | UT/ARL : Arlington, TX | 0.600 | 0.000 | | 0.000 | | 0.000 | | - | | 0.000 | 0.000 | 0.600 | Continuing |
| Systems Engineering | C/CPFF | Alion : Bridgeport, CT | 14.858 | 0.000 | | 0.000 | | 0.000 | | - | | 0.000 | 0.000 | 14.858 | Continuing |
| Systems Engineering | WR | NUWC DET : Norfolk, VA | 41.781 | 0.000 | | 0.100 | Oct 2021 | 0.000 | | - | | 0.000 | 0.000 | 41.881 | - |
| Systems Development | C/CPFF | Ultra : Braintree, MA | 129.519 | 1.600 | Dec 2020 | 0.626 | Dec 2021 | 0.207 | Dec 2022 | - | | 0.207 | 0.000 | 131.952 | Continuing |
| Integrated Logistic Spt | WR | NSWC Crane : Crane, IN | 1.113 | 0.000 | | 0.000 | | 0.000 | | - | | 0.000 | 0.000 | 1.113 | Continuing |
| Systems Engineering | C/CPFF | PEI : Roca, NE | 4.745 | 0.000 | | 0.000 | | 0.000 | | - | | 0.000 | 0.000 | 4.745 | - |

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

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| Appropriation/Budget Activity 1319 / 4 | R-1 Program Element (Number/Name) PE 0603506N / Surface Ship Torpedo Defense | Project (Number/Name) 0225 / Surface Ship Torpedo Defense (SSTD) |
|--|--|--|

| 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 | | | |
| Systems Engineering | WR | CARDEROCK : Bethesda, MD | 1.630 | 0.000 | | 0.000 | | 0.000 | | - | | 0.000 | 0.000 | 1.630 | - |
| Systems Engineering | C/CPFF | CGI : Washington, DC | 0.200 | 0.000 | | 0.000 | | 0.000 | | - | | 0.000 | 0.000 | 0.200 | - |
| Systems Engineering | C/BA | Dam Neck : Virginia Beach, VA | 0.022 | 0.000 | | 0.000 | | 0.000 | | - | | 0.000 | 0.000 | 0.022 | - |
| Systems Engineering | C/BA | NSWC Panama City : Panama City, FL | 0.255 | 0.000 | | 0.000 | | 0.000 | | - | | 0.000 | 0.000 | 0.255 | - |
| Systems Engineering | C/BA | Devron 26 : Not Specified | 0.139 | 0.000 | | 0.000 | | 0.000 | | - | | 0.000 | 0.000 | 0.139 | - |
| Systems Engineering | WR | Puget Sounds : Norfolk, VA | 0.200 | 0.000 | | 0.000 | | 0.000 | | - | | 0.000 | 0.000 | 0.200 | - |
| Systems Engineering | WR | NAVAIR (NAWC WD) : Patuxent River, MD | 0.140 | 0.000 | | 0.000 | | 0.000 | | - | | 0.000 | 0.000 | 0.140 | - |
| Systems Engineering | WR | NORFOLK SHIPYARD : Norfolk, VA | 0.150 | 0.000 | | 0.000 | | 0.000 | | - | | 0.000 | 0.000 | 0.150 | - |
| Systems Engineering | WR | NORFOLK PLANNING YARD : Norfolk, VA | 0.090 | 0.000 | | 0.000 | | 0.000 | | - | | 0.000 | 0.000 | 0.090 | - |
| Subtotal | | | 743.870 | 11.021 | | 1.500 | | 0.417 | | - | | 0.417 | 0.000 | 756.808 | N/A |

Remarks
FY23 decrease of \$1.083M from FY22 to support storage and preservation of both CAT and TWS units.

| 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 | | | |
| Earned Value Mgmt. Spt. | C/CPAF | Pioneer : Virginia | 0.050 | 0.000 | | 0.000 | | 0.000 | | - | | 0.000 | 0.000 | 0.050 | - |

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

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| Appropriation/Budget Activity 1319 / 4 | R-1 Program Element (Number/Name) PE 0603506N / Surface Ship Torpedo Defense | Project (Number/Name) 0225 / Surface Ship Torpedo Defense (SSTD) |
|--|--|--|

| 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 Support | C/FFP | EG&G : Gaithersburg, Md. | 2.846 | 0.000 | | 0.000 | | 0.000 | | - | | 0.000 | 0.000 | 2.846 | Continuing |
| DAWDF | Various | Not Specified : Not Specified | 0.237 | 0.000 | | 0.000 | | 0.000 | | - | | 0.000 | 0.000 | 0.237 | Continuing |
| Program Management Support | C/CPAF | Tech-Marine : Washington, DC | 9.930 | 0.000 | | 0.000 | | 0.000 | | - | | 0.000 | 0.000 | 9.930 | Continuing |
| Travel | Various | PMS 415 : Not Specified | 1.444 | 0.069 | Apr 2021 | 0.062 | Jan 2022 | 0.056 | Jan 2023 | - | | 0.056 | 0.000 | 1.631 | Continuing |
| Program Management Support | C/CPFF | SPA : Alexandria, VA | 0.575 | 0.000 | | 0.000 | | 0.000 | | - | | 0.000 | 0.000 | 0.575 | Continuing |
| Program Management Support | C/CPAF | Booz Allen : Washington, DC | 18.706 | 0.530 | Feb 2021 | 0.000 | | 0.000 | | - | | 0.000 | 0.000 | 19.236 | - |
| Program Management Support | C/CPAF | Alion : Washington, DC | 0.400 | 0.000 | | 0.000 | | 0.000 | | - | | 0.000 | 0.000 | 0.400 | - |
| Program Management Support | C/CPAF | Synchron : Washington, DC | 0.000 | 0.000 | | 0.300 | Oct 2021 | 0.000 | | - | | 0.000 | 0.000 | 0.300 | - |
| Subtotal | | | 34.188 | 0.599 | | 0.362 | | 0.056 | | - | | 0.056 | 0.000 | 35.205 | N/A |

Remarks
FY23 decrease of \$0.302M is due to the ramping down of this level of effort, project funding ends in FY23.

| | 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 | 778.058 | 11.620 | 1.862 | 0.473 | - | 0.473 | 0.000 | 792.013 | N/A |

Remarks

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

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| Appropriation/Budget Activity 1319 / 4 | R-1 Program Element (Number/Name) PE 0603506N / Surface Ship Torpedo Defense | Project (Number/Name) 0225 / Surface Ship Torpedo Defense (SSTD) |
|--|--|--|

| | <u>FY20</u> | | | | <u>FY21</u> | | | | <u>FY22</u> | | | | <u>FY23</u> | | | | <u>FY24</u> | | | | <u>FY25</u> | | | | <u>FY26</u> | | | | | | | |
|-----|--------------------------------------|----|----|----|-------------|----|----|----|---------------------|----|----|----|--------------|----|----|----|-------------|----|----|----|-------------|----|----|----|-------------|----|----|----|--|--|--|--|
| | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | | | | |
| CAT | ATT PRE/ POST DEPLOYMENT MAINTENANCE | | | | | | | | CAT and TWS Support | | | | | | | | | | | | | | | | | | | | | | | |
| TWS | TWS PRE/POST DEPLOYMENT MAINTENANCE | | | | | | | | CAT and TWS Support | | | | | | | | | | | | | | | | | | | | | | | |
| CVN | CVN-77 MK48/LFA Improvement | | | | | | | | CVN-69 DEMIL | | | | CVN-71 DEMIL | | | | | | | | | | | | | | | | | | | |

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| Exhibit R-4A, RDT&E Schedule Details: PB 2023 Navy | | Date: April 2022 |
| Appropriation/Budget Activity 1319 / 4 | R-1 Program Element (Number/Name) PE 0603506N / <i>Surface Ship Torpedo Defense</i> | Project (Number/Name) 0225 / <i>Surface Ship Torpedo Defense (SSTD)</i> |

Schedule Details

| Events by Sub Project | Start | | End | |
|-----------------------|---------|------|---------|------|
| | Quarter | Year | Quarter | Year |
| Proj 0225 | | | | |
| CAT - Preservation | 1 | 2022 | 1 | 2023 |
| TWS - Preservation | 1 | 2022 | 1 | 2023 |

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| Appropriation/Budget Activity 1319 / 4 | R-1 Program Element (Number/Name) PE 0603506N / <i>Surface Ship Torpedo Defense</i> | Project (Number/Name) 9999 / <i>Congressional Adds</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 |
|---------------------------------|-------------|---------|---------|--------------|-------------|---------------|---------|---------|---------|---------|------------------|------------|
| 9999: <i>Congressional Adds</i> | 0.000 | 0.000 | 7.000 | 0.000 | - | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 7.000 |
| Quantity of RDT&E Articles | | - | - | - | - | - | - | - | - | - | | |

A. Mission Description and Budget Item Justification

Surface Ship Torpedo Defense (SSTD) provides a layered torpedo defense capability to protect surface ships. The AN/SLQ-25 (NIXIE) is the Navy's primary SSTD system, providing towed persistent torpedo countermeasure capability, currently protecting over 180 surface ships.

Project C750: Congressional Add (\$3.000M) - AN/SLQ-25 Capability improvements to the ongoing technical refresh of the AN/SLQ - Legacy System.

Project C751: Congressional Add (\$4.000M) - AN/SLQ25 Development of capability. Improvements of the Towed Systems and Towing Systems.

B. Accomplishments/Planned Programs (\$ in Millions)

| | FY 2021 | FY 2022 |
|---|---------|---------|
| Congressional Add: SLQ-25 capability improvements | 0.000 | 3.000 |
| FY 2021 Accomplishments: N/A | | |
| FY 2022 Plans: Capabilities improvements in the AN/SLQ-25 Tech refresh effort to include software development and hardware development of the electronic packages. Development will also include an improved tow system and tow cable. | | |
| Congressional Add: Surface ship torpedo defense towed decoys | 0.000 | 4.000 |
| FY 2021 Accomplishments: N/A | | |
| FY 2022 Plans: Capabilities improvements to the AN/SLQ-25 Tech refresh effort, to include, technical data package completion, electronics design and development, towed system improvements to include the development of the towed decoy and towing system. | | |
| Congressional Adds Subtotals | 0.000 | 7.000 |

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

N/A

Remarks

D. Acquisition Strategy

Single year congressional funding to increase the capability of the AN/SLQ-25 Tow Acoustic System.

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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 0603506N / <i>Surface Ship Torpedo Defense</i> | Project (Number/Name) 9999 / <i>Congressional Adds</i> |

| 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 |

| | |
|--|----------------------|
| Proj 9999 | |
| Congressional Adds: Project C750 SLQ-25 Improvements | ████████████████████ |
| Congressional Adds: Project C751 SSTD Towed Decoys | ████████████████████ |

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| Exhibit R-4A, RDT&E Schedule Details: PB 2023 Navy | | Date: April 2022 |
| Appropriation/Budget Activity 1319 / 4 | R-1 Program Element (Number/Name) PE 0603506N / <i>Surface Ship Torpedo Defense</i> | Project (Number/Name) 9999 / <i>Congressional Adds</i> |

Schedule Details

| Events by Sub Project | Start | | End | |
|--|---------|------|---------|------|
| | Quarter | Year | Quarter | Year |
| Proj 9999 | | | | |
| Congressional Adds: Project C750 SLQ-25 Improvements | 3 | 2022 | 4 | 2023 |
| Congressional Adds: Project C751 SSTD Towed Decoys | 3 | 2022 | 4 | 2023 |