CLASSIFICATION:

| EXHIBIT R-2, RDT&E Budget Item Justification | | | | | | DATE: | | |
|---------------------------------------------------|---------|---------|---------|----------------|---------|---------------|---------|--|
| | | | | | | February 2004 | | |
| APPROPRIATION/BUDGET ACTIVITY | | | | R-1 ITEM NOMEN | CLATURE | | | |
| RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA | | | | | | | | |
| COST (\$ in Millions) | FY 2003 | FY 2004 | FY 2005 | FY 2006 | FY 2007 | FY 2008 | FY 2009 | |
| Total PE Cost | 15.957 | 23.827 | 3.020 | 3.047 | 3.673 | 3.025 | 3.085 | |
| SSN-21 Developments/1946 | 3.818 | 3.655 | 3.020 | 3.047 | 3.673 | 3.025 | 3.085 | |
| SEAFAC Range Upgrade/9233 | 12.139 | 20.172 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |

Defense Emergency Response funds (DERF) Funds:

Not Applicable

A. (U) MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

1946 SSN-21 Developments: The SEAWOLF Submarine is a multi-mission ship that provides unprecedented performance capabilities. It is the quietest, most heavily-armed attack submarine the Navy has ever built. The design of the SEAWOLF is based on an extensive research and development program and incorporates technological advancements to provide: order of magnitude improvement in ship quieting; improved acoustic sensors; more capable combat systems; greater weapon capacity and capability; quieter launch; weapon launch at high ship speed; advanced reactor; improved performance machinery program; an advanced propulsor; increased operating depth; improved ship control; and enhanced survivability. Beginnning in FY05, SEAFAC Range Upgrade funding is included in 1946.

9233 SEAFAC Range Upgrade: The SEAWOLF Class submarine is a multi-mission ship that provides numerous unprecedented submarine performance capabilities such as more capable combat systems, greater weapons capacity and capability, advanced reactor, improved acoustic sensors, increased operating depth, improved ship control, and enhanced survivability. Among these capabilities is an unprecedented acoustic stealth performance as a result of an order of magnitude improvement in ship quieting. Maintaining the acoustic stealth advantage and upholding the effectiveness and survivability of the SEAWOLF and future class submarines require that radiated acoustic signatures are periodically measured and understood. To this end, Southeast Alaska Acoustic Measurement Facility (SEAFAC) range will be upgraded with new underwater acoustic measurement systems capable of measuring new generation quiet-class submarines stationed in the Pacific fleet. The SEAFAC Range Upgrade Program comprises of a multi-year effort to design, develop, procure, install and test High Gain Measurement Systems (HGMS) in the Static and Underway Sites at SEAFAC. Efforts to upgrade the Static Site began in FY03 and efforts to upgrade the Underway Site begin in FY04. (Note: Project 1946 and OPN BLI 094200 fund FY05 and future SEAFAC upgrades.)

CLASSIFICATION:

| EXHIBIT R-2a, RDT&E Project Justification | | | | | | DATE: | |
|-------------------------------------------|---------|---------|---------|-------------------|------------|---------|---------|
| | | | | | | Februa | ry 2004 |
| APPROPRIATION/BUDGET ACTIVITY | | | | PROJECT NUMBE | R AND NAME | | |
| RDT&E, N / BA-5 | | | | 1946 / SSN-21 Dev | velopments | | |
| COST (\$ in Millions) | FY 2003 | FY 2004 | FY 2005 | FY 2006 | FY 2007 | FY 2008 | FY 2009 |
| Project Cost | 3.818 | 3.655 | 3.020 | 3.047 | 3.673 | 3.025 | 3.085 |
| RDT&E Articles Qty | | | | | | | |

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

The SEAWOLF Submarine is a multi-mission ship that provides unprecedented performance capabilities. It is the quietest, most heavily-armed attack submarine the Navy has ever built. The design of the SEAWOLF is based on an extensive research and development program and incorporates technological advancements to provide: order of magnitude improvement in ship quieting; improved acoustic sensors; more capable combat systems; greater weapon capacity and capability; quieter launch; weapon launch at high ship speed; advanced reactor; improved performance machinery program; an advanced propulsor; increased operating depth; improved ship control; and enhanced survivability. Beginnning in FY05, SEAFAC Range Upgrade funding is included in 1946

CLASSIFICATION:

| EXHIBIT R-2a, RDT&E Project Justification | n | DATE: | |
|-------------------------------------------|---------------------------------------|---------------------------------------|--|
| | | February 2004 | |
| APPROPRIATION/BUDGET ACTIVITY | PROGRAM ELEMENT NUMBER AND NAME | PROJECT NUMBER AND NAME | |
| RDT&E, N / BA-5 | 0604561N / SSN-21 Developments | 1946 / SSN-21 Developments | |
| | · · · · · · · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · · · · | |

B. Accomplishments/Planned Program

| | FY 03 | FY 04 | FY 05 | |
|--------------------------------------|-------|-------|-------|--|
| Accomplishments/Effort/Subtotal Cost | 0.337 | 0.769 | 0.887 | |
| RDT&E Articles Quantity | | | | |

FY-03 Accomplishments: Complete the analysis and reporting in compliance with Class plan and DOT&E requirements resulting from the Operational Evaluation (OPEVAL)/Technical Evaluation (TECHEVAL). FY-04 and FY-05 Plan: Conduct follow-on OPEVAL testing for the class.

| | FY 03 | FY 04 | FY 05 | |
|--------------------------------------|-------|-------|-------|--|
| Accomplishments/Effort/Subtotal Cost | 0.450 | 0.675 | 0.175 | |
| RDT&E Articles Quantity | | | | |

FY-03 Accomplishments: Conduct component shock tests and analysis and continue shock qualification for CFE and GFE in compliance with Class plans and DOT&E requirements. FY-04 and FY-05 Plan: Completion of component shock tests and analysis for CFE and GFE in compliance with Class Plans and DOT&E requirements. Perform shock qualifications for the Global Command and Control System (GCCS) for the Common Submarine Radio Room (CSRR).

| | FY 03 | FY 04 | FY 05 | |
|--------------------------------------|-------|-------|-------|--|
| Accomplishments/Effort/Subtotal Cost | 0.000 | 0.000 | 1.500 | |
| RDT&E Articles Quantity | | | | |

FY-05 Plan: System test and validation, and corrective action efforts are planned for the SEAFAC Static Site. System development, engineering, and integration efforts are planned for the SEAFAC Underway Site.

CLASSIFICATION:

| | OGRAM ELEMENT NUMI 04561N / SSN-21 Develop | | PROJECT NUMBER AND N 1946 / SSN-21 Development | |
|----------------------------------------------------------|-----------------------------------------------|-----------------------|---------------------------------------------------|-------------------------------------------------|
| T&E, N / BA-5 | | | | |
| | 04561N / SSN-21 Develop | pments | 1946 / SSN-21 Development | ts |
| ccomplishments/Planned Program (Cont.) | | | | |
| complianments/rialmed riogram (cont.) | | | | |
| | | | | |
| | FY 03 | FY 04 | FY 05 | |
| Accomplishments/Effort/Subtotal Cost | 2.321 | 1.523 | 0.208 | |
| RDT&E Articles Quantity | | | | |
| FY-03 Accomplishments: Re-engineering and correction | | | | |
| Continue risk management efforts in all high risk areas. | | ng of NPE Systems and | I investigation of acoustic deficien | cies. FY-05 Plan: Re-engineering and correction |
| of SCS and Dry Deck Shelter (DDS) Interface (TIDS Mig | ration). | | | |
| | | | | |
| | | | | |
| | | | | |
| | FY 03 | FY 04 | FY 05 | |
| Accomplishments/Effort/Subtotal Cost | 0.710 | 0.688 | 0.250 | |
| RDT&E Articles Quantity | | | | |
| , | | | | |
| FY-04 Plan: Development of prototype for External Hydro | aulic Pump. | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | FY 03 | FY 04 | FY 05 | |
| Accomplishments/Effort/Subtotal Cost | 0.000 | 0.000 | 0.000 | |
| RDT&E Articles Quantity | | | | |
| | | | | |
| | 0.000 | 0.000 | 0.000 | |

CLASSIFICATION:

| EXHIBIT R-2a, RDT&E Project Justification | | | | | DATE: | | |
|---------------------------------------------------|----------------|--------------------|---------|----------------------------|-------|---------------|--|
| | | | | | | February 2004 | |
| APPROPRIATION/BUDGET ACTIVITY | PROGRAM ELE | EMENT NUMBER AND I | NAME | PROJECT NUMBER AND NAI | ME | | |
| RDT&E, N / BA-5 | 0604561N / SSI | N-21 Developments | | 1946 / SSN-21 Developments | | | |
| C. PROGRAM CHANGE SUMMARY: | | | | | | | |
| Funding: | | FY 2003 | FY 2004 | FY 2005 | | | |
| Previous President's Budget: (FY 04 President's 0 | Controls) | 3.883 | 3.708 | | | | |
| Current BES/President's Budget: (FY05 Presiden | | 3.818 | 3.655 | 3.020 | | | |
| Total Adjustments | | -0.065 | -0.053 | | | | |
| Summary of Adjustments | | | | | | | |
| Section 8094: Management Improve | ments | 0.000 | -0.010 | 0.000 | | | |
| Section 8029: FFRDC Reduction | monto | 0.000 | -0.011 | | | | |
| Section 8126: Efficiencies | | 0.000 | -0.032 | | | | |
| SBIR FY03 | | -0.055 | 0.000 | | | | |
| BSO Adjustments | | -0.010 | 0.000 | | | | |
| Misc Adjustments | | 0.000 | 0.000 | | | | |
| Inflation | | 0.000 | 0.000 | | | | |
| Non Purchase Inflation | | 0.000 | 0.000 | | | | |
| FY05 ITR RDT&E Rebalancing | | 0.000 | 0.000 | | | | |
| NSCF Rates - NSWC | | 0.000 | 0.000 | | | | |
| Subtotal | | -0.065 | -0.053 | | | | |
| Subiolai | | -0.003 | -0.033 | -0.037 | | | |
| | | | | | | | |
| | | | | | | | |
| Schedule: | | | | | | | |
| Not applicable. | | | | | | | |
| пот арріїсавіе. | | | | | | | |
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| | | | | | | | |
| Technical: | | | | | | | |
| Not applicable | | | | | | | |
| Not applicable. | | | | | | | |
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CLASSIFICATION:

| EXHIBIT R-2a, RDT&E Project Justification | | | | | | | DATE: | | | |
|-------------------------------------------|--------------|-----------------------------------------------------------|--------------|---------|------------|-------------|---------|-----------------|---------|--|
| | | | | | | | | Februa | ry 2004 | |
| APPROPRIATION/BUDGET ACTIVITY | PROGRAM EI | EMENT NUM | IBER AND NAN | 1E | PROJECT NU | JMBER AND N | AME | | | |
| RDT&E, N / BA-5 | 0604561N / S | 0604561N / SSN-21 Developments 1946 / SSN-21 Developments | | | | | ts | | | |
| D. OTHER PROGRAM FUNDING SUMMARY: | | | | | | | | To | Total | |
| Line Item No. & Name | FY 2003 | FY 2004 | FY 2005 | FY 2006 | FY 2007 | FY 2008 | FY 2009 | <u>Complete</u> | Cost | |

E. ACQUISITION STRATEGY:

- (U) To deliver three SEAWOLF submarines under cost cap.
- (U) To continue to correct SEAWOLF Acoustics deficiencies.
- (U) To increase commonality with Virginia Class Submarines.
- (U) Continue to review all areas for possible cost reductions.

F. MAJOR PERFORMERS:

Naval Surface Warfare Center (NSWC) Carderock, MD - FY-03 \$1.721; FY-04 \$.862; FY-05 \$1.675 (Acoustics, NPE, Shock, Test & Evaluation, SEAFAC and Tech Insertion).

Naval Undersea Warfare Center (NUWC) Newport RI - FY-05 \$.793 (Test and Evaluation)

SPAWAR San Diego CA - FY-03 - .\$700: FY04 - \$450 - Multi-Function Crypto System Development and Shock Qualification

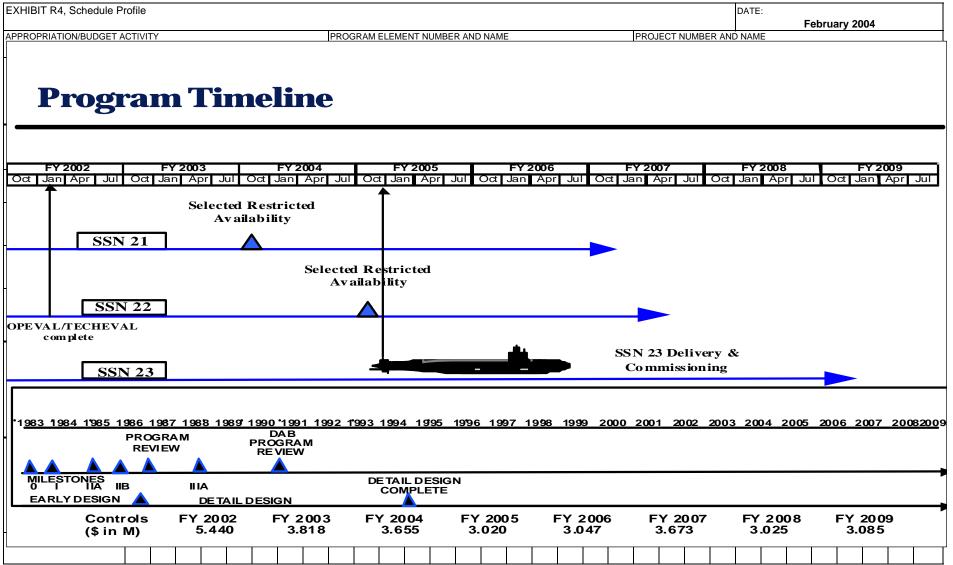
CLASSIFICATION:

| | | | | | | | | DATE: | | | | |
|--------------------------------|---------|-------------------------|---------------|-------|---------------|---------------|---------------|-------|---------------|---------------------|---------------|--------------------------|
| Exhibit R-3 Cost Analysis (pag | je 1) | | | | | | | | | February 200 |)4 | |
| APPROPRIATION/BUDGET ACTIV | ITY | PROGRAM E | LEMENT | | | PROJECT NU | MBER AND N | IAME | | | | |
| RDT&E, N / BA-5 | | | SN-21 Develop | | | 1946 / SSN-21 | | ts | • | _ | | |
| Cost Categories | | Performing | Total PY | | FY 03 | | FY 04 | FY 05 | FY 05 | 0 | Tatal | Tanant Value |
| | | Activity & Location | Cost | Cost | Award Date | | Award Date | Cost | Award Date | Cost to Complete | Total Cost | Target Value of Contract |
| Primary Hardware Development | и турс | NSWC Carderock/Various | 0031 | 0031 | Date | 0031 | Date | 1.50 | + | Complete | 1.500 | |
| Ancillary Hardware Development | | | | | | | | | | | 0.000 | |
| Systems Engineering | SS/CPFF | General Dynam Groton CT | 369.541 | 0.055 | Various | 0.075 | Various | 0.10 |) Various | 0.200 | 369.971 | 369.971 |
| Systems Engineering | SS/CPFF | NGNN Newport News VA | 118.601 | 0.429 | Various | 0.500 | Various | 0.00 |) Various | 0.200 | 119.730 | 119.631 |
| Systems Engineering | WR/RC | NSWC Carderock, MD | 317.639 | 1.721 | Various | 0.862 | Various | 0.17 | 5 Various | 4.085 | 324.482 | |
| Systems Engineering | WR/RC | NUWC Newport, RI | 49.158 | 0.395 | Various | 0.793 | Various | 0.26 | Various | 0.000 | 50.606 | |
| Systems Engineering | Various | Various | 469.369 | 0.553 | Various | 0.885 | Various | 0.27 | Various | 8.087 | 479.165 | |
| Licenses | | | | | | | | | | | 0.000 | |
| Tooling | | | | | | | | | | | 0.000 | |
| GFE | | | | | | | | | | | 0.000 | |
| Award Fees | | | | | | | | | | | 0.000 | |
| Subtotal Product Development | | | 1,324.308 | 3.153 | | 3.115 | | 2.30 | 6 | 12.572 | 1,345.454 | |
| | | | | | | | | | | | | |
| Development Support | | | | | | | | | | | 0.000 | |
| Software Development | | | | | | | | | | | 0.000 | |
| Training Development | | | | | | | | | | | 0.000 | |
| Integrated Logistics Support | | | | | | | | | | | 0.000 | |
| Configuration Management | | | | | | | | | | | 0.000 | |
| Technical Data | | | | | | | | | | | 0.000 | |
| GFE | | | | | | | | | | | 0.000 | |
| Award Fees | | | | | | | | | | | 0.000 | |
| Subtotal Support | | | 0.000 | 0.000 | | 0.000 | | 0.00 |) | 0.000 | 0.000 | |
| Remarks: | | | | | | | | | | | | |

CLASSIFICATION:

| | | | | | | | | DATE: | | | | |
|----------------------------------|---------|-------------------------|---------------|-------|------------|---------------------------|--------------|-------|---------|--------------|-----------|--------------|
| Exhibit R-3 Cost Analysis (pag | e 2) | | | | | | | DATE. | | February 200 |)4 | |
| APPROPRIATION/BUDGET ACTIVI | | PROGRAM E | LEMENT | | | PROJECT NU | IMBER AND N | IAME | | | · - | |
| RDT&E, N / BA-5 | | 0604561N / S | SN-21 Develop | ments | | 1946 / SSN-2 ² | 1 Developmen | ts | | | | |
| Cost Categories | | Performing | Total | | FY 03 | | FY 04 | | FY 05 | | | |
| | Method | Activity & | | FY 03 | Award | | Award | FY 05 | Award | Cost to | Total | Target Value |
| | & Type | Location | | Cost | Date | Cost | Date | Cost | Date | Complete | 1 | of Contract |
| Developmental Test & Evaluation | | General Dynam Groton CT | 68.994 | 0.00 | | 0.000 | | 0.000 | | 0.000 | ł | |
| Developmental Test & Evaluation | WR | NSWC Carderock MD | 95.800 | 0.1 | | 0.100 | | 0.000 | | 0.000 | ł | |
| Developmental Test & Evaluation | Various | Various | 124.296 | 0.1 | 55 Various | 0.440 | Various | 0.714 | Various | 0.402 | | |
| Operational Test & Evaluation | | | | | | | | | | | 0.000 | |
| Tooling | | | | | | | | | | | 0.000 | |
| GFE | | | | | | | | | | | 0.000 | |
| Award Fees | | | | | | | | | | | 0.000 | |
| Subtotal T&E | | | 289.090 | 0.3 | 05 | 0.540 | | 0.714 | | 0.402 | 291.051 | |
| | | | | | | | | | | | | |
| Contractor Engineering Support | | | | | | | | | | | 0.000 | |
| Government Engineering Support | | | | | | | | | | | 0.000 | |
| Program Management Support & ETS | Various | Various | 48.075 | 0.3 | 60 | 0.000 | | 0.000 | | 0.000 | 48.435 | |
| Travel | | | | | | | | | | | 0.000 | |
| Labor (Research Personnel) | | | | | | | | | | | 0.000 | |
| SBIR Assessment | | | | | | | | | | | 0.000 | |
| Subtotal Management | | | 48.075 | 0.3 | 60 | 0.000 | | 0.000 | | 0.000 | 48.435 | |
| Remarks: | | | | | | | | | | | | |
| Total Cost | | | 1,661.473 | 3.8 | 18 | 3.655 | | 3.020 | | 12.830 | 1,684.796 | |
| Remarks: | | | | | | | | | | | | |

CLASSIFICATION:



CLASSIFICATION:

| EXHIBIT R-2a, RDT&E Project Justification | | | | | | | DATE: | | |
|-------------------------------------------|------------------|----------------|---------|---------|-----------------|--------------|---------------|---------|--|
| | | | | | | | February 2004 | | |
| APPROPRIATION/BUDGET ACTIVITY | PROGRAM ELEM | ENT NUMBER AND | NAME | | PROJECT NUMBE | ER AND NAME | | | |
| RDT&E, N / BA-5 | 0604561N / SSN-2 | 1 Developments | | | 9233 / SEAFAC R | ange Upgrade | | | |
| COST (\$ in Millions) | FY 2002 | FY 2003 | FY 2004 | FY 2005 | FY 2006 | FY 2007 | FY 2008 | FY 2009 | |
| Project Cost | 0.000 | 12.139 | 20.172 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| RDT&E Articles Qty | | | | | | | | | |

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

The SEAWOLF Class submarine is a multi-mission ship that provides numerous unprecedented submarine performance capabilities such as more capable combat systems, greater weapons capacity and capability, advanced reactor, improved acoustic sensors, increased operating depth, improved ship control, and enhanced survivability. Among these capabilities is an unprecedented acoustic stealth performance as a result of an order of magnitude improvement in ship quieting.

Maintaining the acoustic stealth advantage and upholding the effectiveness and survivability of the SEAWOLF and future class submarines require that radiated acoustic signatures are periodically measured and understood. To this end, Southeast Alaska Acoustic Measurement Facility (SEAFAC) range will be upgraded with new underwater acoustic measurement systems capable of measuring new generation quiet-class submarines stationed in the Pacific fleet. The SEAFAC Range Upgrade Program comprises of a multi-year effort to design, develop, procure, install and test High Gain Measurement Systems (HGMS) in the Static and Underway Sites at SEAFAC. Efforts to upgrade the Static Site began in FY03 and efforts to upgrade the Underway Site begin in FY04.

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CLASSIFICATION:

| B. Accomplishments/Planned Program Accomplishments/Effort/Subtotal Cost 0.00 RDT&E Articles Quantity FY03 Actual: Preliminary and detailed design efforts for the SEAFAC Processing System; and submarine Total Ship Monitoring System Int FY04 Plan: Continuance of Static Site system development, integration | 2 Static Site High Gain Measurement erface were conducted. Static Site is | material procurement and system of | FY 05 0.000 spension Systems; Beamforming, Analevelopment efforts were initiated. | alysis and |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------|
| Accomplishments/Planned Program Accomplishments/Effort/Subtotal Cost 0.00 RDT&E Articles Quantity FY03 Actual: Preliminary and detailed design efforts for the SEAFAC Processing System; and submarine Total Ship Monitoring System Int FY04 Plan: Continuance of Static Site system development, integration | D2 FY 03 D0 12.139 C Static Site High Gain Measurement erface were conducted. Static Site in | FY 04 20.172 t Systems, Array Handling and Susmaterial procurement and system of | FY 05 0.000 spension Systems; Beamforming, Analevelopment efforts were initiated. | alysis and |
| Accomplishments/Effort/Subtotal Cost 0.00 RDT&E Articles Quantity FY03 Actual: Preliminary and detailed design efforts for the SEAFAC Processing System; and submarine Total Ship Monitoring System Int FY04 Plan: Continuance of Static Site system development, integration | 2 Static Site High Gain Measurement erface were conducted. Static Site is | t Systems, Array Handling and Susmaterial procurement and system of | 0.000 spension Systems; Beamforming, Analevelopment efforts were initiated. | alysis and |
| Accomplishments/Effort/Subtotal Cost 0.00 RDT&E Articles Quantity FY03 Actual: Preliminary and detailed design efforts for the SEAFAC Processing System; and submarine Total Ship Monitoring System Int FY04 Plan: Continuance of Static Site system development, integration | 2 Static Site High Gain Measurement erface were conducted. Static Site is | t Systems, Array Handling and Susmaterial procurement and system of | 0.000 spension Systems; Beamforming, Analevelopment efforts were initiated. | alysis and |
| RDT&E Articles Quantity FY03 Actual: Preliminary and detailed design efforts for the SEAFAC Processing System; and submarine Total Ship Monitoring System Int FY04 Plan: Continuance of Static Site system development, integration | Static Site High Gain Measuremen erface were conducted. Static Site i | t Systems, Array Handling and Sus material procurement and system o | pension Systems; Beamforming, Analevelopment efforts were initiated. | alysis and |
| FY03 Actual: Preliminary and detailed design efforts for the SEAFAC Processing System; and submarine Total Ship Monitoring System Int FY04 Plan: Continuance of Static Site system development, integration | erface were conducted. Static Site r | material procurement and system of | levelopment efforts were initiated. | alysis and |
| Processing System; and submarine Total Ship Monitoring System Int FY04 Plan: Continuance of Static Site system development, integration | erface were conducted. Static Site r | material procurement and system of | levelopment efforts were initiated. | alysis and |
| | | | | |
| FY (| 02 FY 03 | FY 04 | FY 05 | |
| Accomplishments/Effort/Subtotal Cost | | | | |
| RDT&E Articles Quantity | | | | |
| Accomplishments/Effort/Subtotal Cost RDT&E Articles Quantity | 02 FY 03 | FY 04 | FY 05 | |
| IDI) I & E Articles () Hentity | | | | |

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CLASSIFICATION:

| EXHIBIT R-2a, RDT&E Project Justification | | | | | | DATE: | |
|-------------------------------------------------|----------------|------------------|-----------|---------|--------------------------|-------|---------------|
| | | | | | | | February 2004 |
| APPROPRIATION/BUDGET ACTIVITY | PROGRAM ELE | MENT NUMBER | AND NAME | | PROJECT NUMBER AND N | AME | |
| RDT&E, N / BA-5 | 0604561N / SSN | N-21 Development | s | | 9233 / SEAFAC Range Upgr | ade | |
| | 1 | - | | | | | |
| C. PROGRAM CHANGE SUMMARY: | | | | | | | |
| Funding: | | FY 2003 | FY 2004 | FY 2005 | | | |
| Previous President's Budget: (FY 04 President's | Controls) | 0.000 | 9.774 | 0.000 | | | |
| Current BES/President's Budget: (FY05 Preside | nt's Controls) | 12.139 | 20.172 | 0.000 | | | |
| Total Adjustments | | 12.139 | 10.398 | 0.000 | | | |
| Summary of Adjustments | | | | | | | |
| Business Process Reform | | -0.051 | 0.000 | 0.000 | | | |
| Economic Assumptions | | -0.071 | 0.000 | 0.000 | | | |
| IT Cost Growth | | -0.023 | 0.000 | 0.000 | | | |
| SEAFAC Range Upgrade | | 12.750 | 0.000 | 0.000 | | | |
| Management Improvements | | 0.000 | -0.054 | 0.000 | | | |
| Efficencies Revisions | | 0.000 | -0.173 | 0.000 | | | |
| FY03 SBIR | | -0.331 | 0.000 | 0.000 | | | |
| Inflation Savings | | -0.135 | 0.000 | 0.000 | | | |
| SEAFAC Underway HGA Upgrades | | 0.000 | 10.625 | 0.000 | | | |
| Subtotal | | 12.139 | 10.398 | 0.000 | | | |
| Schedule: | | | | | | | |
| Not applicable. | | | | | | | |
| Not applicable. | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Technical: | | | | | | | |
| Not applicable. | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | D 1 CHODD | NO 110T 1 | | 111 | | |

R-1 SHOPPING LIST - Item No. 114

Exhibit R-2a, RDTEN Project Justification (Exhibit R-2a, page 12 of 16)

CLASSIFICATION:

| EXHIBIT R-2a, RDT&E Project Justification | | | | | | | DATE: | | | |
|-----------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------|-----------------------|---------|--------------|-------------|---------|-----------------|---------|--|
| | | | | | | | | Februa | ry 2004 | |
| | | LEMENT NUM | | ΛE | PROJECT NU | | | | | |
| RDT&E, N / BA-5 | 0604561N/S | SN-21 Develop | ments | | 9233 / SEAFA | C Range Upg | rade | | | |
| D. OTHER PROGRAM FUNDING SUMMARY: | | | | | | | | To | Total | |
| Line Item No. & Name FY 2002 | FY 2003 | FY 2004 | FY 2005 | FY 2006 | FY 2007 | FY 2008 | FY 2009 | <u>Complete</u> | Cost | |
| Not applicable. | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| E. ACQUISITION STRATEGY: * | | | | | | | | | | |
| Not applicable. | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| F. MAJOR PERFORMERS: ** | | | | | | | | | | |
| SAIC and subcontractors for in-water HGMS (array) design Naval Surface Warfare Center (NSWC) Carderock Division | , development , MD for syster | and installation m engineering, | n. integration, an | d test. | | | | | | |
| | | | | | | | | | | |
| * Not required for Budget Activities 1,2,3, and 6 ** Required for DON and OSD submit only. | | | | | | | | | | |

CLASSIFICATION:

| E 1317 D 0 0 1 4 1 1 1 1 | 4. | | | | | | | DATE: | | - 1 | | |
|------------------------------------|----------|-------------------|------------------|--------|---------|--------------|-------------|-------|-------|--------------|--------|--------------|
| Exhibit R-3 Cost Analysis (page 1) | age 1) | | | | | | | | | February 200 |)4 | |
| APPROPRIATION/BUDGET ACT | IVITY | PROGRAM | 1 ELEMENT | | | PROJECT NU | JMBER AND I | NAME | | | | |
| RDT&E, N / BA-5 | | 0604561N | / SSN-21 Develop | ments | | 9233 / SEAFA | C Range Upg | grade | | | | |
| Cost Categories | Contract | Performing | Total | | FY 03 | | FY 04 | | FY 05 | | | |
| | Method | Activity & | PY | FY 03 | Award | FY 04 | Award | FY 05 | Award | Cost to | Total | Target Value |
| | & Type | Location | Cost | Cost | Date | Cost | Date | Cost | Date | Complete | Cost | of Contract |
| Primary Hardware Development | Various | SAIC | | 9.583 | Various | 13.584 | Various | | | | 23.167 | 7 |
| Ancillary Hardware Development | | | | | | 1.023 | Various | | | | 1.023 | 3 |
| Component Development | | | | | | | | | | | 0.000 | |
| Ship Integration | | | | | | | | | | | 0.000 |) |
| Ship Suitability | | | | | | | | | | | 0.000 |) |
| Systems Engineering | WR | NSWC Carderock MD | | 2.556 | TBD | 4.239 | TBD | | | | 6.795 | 5 |
| Training Development | | | | | | | | | | | 0.000 | |
| Licenses | | | | | | | | | | | 0.000 |) |
| Tooling | | | | | | | | | | | 0.000 |) |
| GFE | | | | | | | | | | | 0.000 |) |
| Award Fees | | | | | | | | | | | 0.000 | D |
| Subtotal Product Development | | | 0.000 | 12.139 | | 18.846 | | 0.000 | | 0.000 | 30.985 | 5 |

Remarks: Award dates are dependent upon availability of funds at the beginning of each fiscal year as dictated by the CRA.

| Development Support | | | | | | | 0.000 | |
|------------------------------|--|-------|-------|-------|-------|-------|-------|---|
| Software Development | | | | | | | 0.000 | |
| Training Development | | | | | | | 0.000 | |
| Integrated Logistics Support | | | | | | | 0.000 | |
| Configuration Management | | | | | | | 0.000 | |
| Technical Data | | | | | | | 0.000 | |
| GFE | | | | | | | 0.000 | |
| Award Fees | | | | | | | 0.000 | |
| Subtotal Support | | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | • |

Remarks:

CLASSIFICATION:

| | | | | | | | | DATE: | | | | |
|------------------------------------------------------------------------------------------|----------|-------------------|----------------|--------|-------|--------------|-------------|-------|-------|--------------|-------------------------|--------------|
| Exhibit R-3 Cost Analysis (pag | je 2) | | | | | | | | | February 200 |)4 | |
| Exhibit R-3 Cost Analysis (pagaPPROPRIATION/BUDGET ACTIV | ÎTY | PROGRAM | ELEMENT | | | PROJECT NU | IMBER AND I | NAME | | | | |
| RDT&E, N / BA-5 | | 0604561N / | SSN-21 Develop | oments | | 9233 / SEAFA | | ırade | | | | |
| Cost Categories | Contract | Performing | Total | | FY 03 | | FY 04 | | FY 05 | | | |
| | Method | Activity & | PY | FY 03 | Award | | Award | FY 05 | Award | Cost to | Total | Target Value |
| | & Type | Location | Cost | Cost | Date | Cost | Date | Cost | Date | Complete | | of Contract |
| Developmental Test & Evaluation | WR | NSWC Carderock MD | | | | 1.326 | TBD | | | | 1.326 | |
| Operational Test & Evaluation | | | | | | | | | | | 0.000 | |
| Live Fire Test & Evaluation | | | | | | | | | | | 0.000 | |
| Test Assets | | | | | | | | | | | 0.000 | |
| Tooling | | | | | | | | | | | 0.000 | |
| GFE | | | | | | | | | | | 0.000 | |
| Award Fees | | | | | | | | | | | 0.000 | |
| Subtotal T&E | | | 0.000 | 0.00 | 0 | 1.326 | | 0.000 | | 0.000 | 1.326 | |
| Contractor Engineering Support Government Engineering Support Program Management Support | | | | | | | | | | | 0.000 0.000 0.000 | |
| Travel | | | | | | | | | | | 0.000 | |
| Labor (Research Personnel) | | | | | | | | | | | 0.000 | |
| SBIR Assessment | | | | | | | | | | | 0.000 | |
| Subtotal Management | | | 0.000 | 0.00 | 0 | 0.000 | | 0.000 |) | 0.000 | 0.000 | |
| Remarks: | | | | | | | | | | | | |
| Total Cost | | | 0.000 | 12.13 | 9 | 20.172 | | 0.000 |) | 0.000 | 32.311 | |
| Remarks: | | | | | | | | | | | | |

CLASSIFICATION:

| Exhibit R-4a, Schedule Detail | | | DATE: February 2004 | | | | | |
|-----------------------------------------------|-----------|---------------|---------------------|---------|--------------|---------|---------|---------|
| APPROPRIATION/BUDGET ACTIVITY | PROGRAM E | LEMENT | MBER AND NAME | | | | | |
| RDT&E, N / BA-5 | | SN-21 Develop | ments | | 9233 / SEAFA | | | |
| Schedule Profile | FY 2002 | FY 2003 | FY 2004 | FY 2005 | FY 2006 | FY 2007 | FY 2008 | FY 2009 |
| Static Site Prelim Design & Concept Studies | | 2Q-4Q | | | | | | |
| Static Site Prelim Design Review | | 4Q | | | | | | |
| Static Site Detailed Design | | 4Q | 1Q | | | | | |
| Static Site Critical Design Review | | | 1Q | | | | | |
| Static Site System Development | | 4Q | 1Q-4Q | | | | | |
| Underway Site Prelim Design & Concept Studies | | | 1Q-3Q | | | | | |
| Underway Site Prelim Design Review | | | 3Q | | | | | |
| Underway Site Detailed Design | | | 2Q-4Q | | | | | |
| Underway Site Critical Design Review | | | 4Q | | | | | |
| Underway Site System Development | | | 2Q-4Q | | | | | |
| Test Planning | | 4Q | 1Q | | | | | |
| Developmental Testing | | 4Q | 1Q-4Q | | | | | |
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