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| Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Navy | DATE: February 2012 |
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| APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 6: <i>RDT&E Management Support</i> | R-1 ITEM NOMENCLATURE PE 0305885N: <i>Tactical Cryptologic Activities</i> |
|--|---|

| COST (\$ in Millions) | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total | FY 2014 | FY 2015 | FY 2016 | FY 2017 | Cost To Complete | Total Cost |
|-----------------------------------|---------|---------|--------------|-------------|---------------|---------|---------|---------|---------|------------------|------------|
| Total Program Element | 1.850 | 2.764 | 2.795 | - | 2.795 | 2.835 | 1.877 | 1.913 | 1.946 | Continuing | Continuing |
| 0037: <i>TACT COMBAT OPER SYS</i> | 1.850 | 2.764 | 2.795 | - | 2.795 | 2.835 | 1.877 | 1.913 | 1.946 | Continuing | Continuing |

A. Mission Description and Budget Item Justification

SURFACE ELECTRONIC CAPABILITY AUGMENTATION CAPABILITY SUPPORT: This is a continuing program that will provide advanced technologies and capabilities to current Electronic Warfare (EW) / Electronic Intelligence (ELINT) System Programs of Record (POR). The program develops concepts of data / information exchange within the Global Information Grid (GIG). To comply with the intent of the GIG, this program addresses compression, transmission, decompression, re-compression and long-term storage of targeted data / information without degradation. This program will become an enabler for future capabilities such as remote operation of surface, subsurface, and air EW/ELINT open architecture PORs. A holistic approach to data / information format, processing transmission, and storage will require developments in antenna technology, communications capabilities, operational concepts, and software development.

CONTENTHFLT MARITIME OPERATIONS CENTER (MOC): The Maritime Operations Center (MOC) visualization system provides the common operational picture (COP) in support of the Commander's mission requirements. The system design permits the connection of numerous data feeds at various security classification levels in order to project and adjust the COP as required on multiple output displays electronically.

| B. Program Change Summary (\$ in Millions) | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total |
|---|----------------|----------------|---------------------|--------------------|----------------------|
| Previous President's Budget | 1.859 | 2.764 | 2.795 | - | 2.795 |
| Current President's Budget | 1.850 | 2.764 | 2.795 | - | 2.795 |
| Total Adjustments | -0.009 | - | - | - | - |
| • Congressional General Reductions | - | - | | | |
| • Congressional Directed Reductions | - | - | | | |
| • Congressional Rescissions | - | - | | | |
| • Congressional Adds | - | - | | | |
| • Congressional Directed Transfers | - | - | | | |
| • Reprogrammings | - | - | | | |
| • SBIR/STTR Transfer | - | - | | | |
| • Rate/Misc Adjustments | - | - | - | - | - |
| • Congressional General Reductions | -0.009 | - | - | - | - |
| Adjustments | | | | | |

Change Summary Explanation

Technical: Not applicable.

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| Schedule: Not applicable. | | |

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|--|----------------|----------------|---------------------|--|----------------------|----------------|----------------|--|----------------|-------------------------|-------------------|
| Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy | | | | | | | | DATE: February 2012 | | | |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 6: RDT&E Management Support | | | | R-1 ITEM NOMENCLATURE PE 0305885N: Tactical Cryptologic Activities | | | | PROJECT 0037: TACT COMBAT OPER SYS | | | |
| COST (\$ in Millions) | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total | FY 2014 | FY 2015 | FY 2016 | FY 2017 | Cost To Complete | Total Cost |
| 0037: TACT COMBAT OPER SYS | 1.850 | 2.764 | 2.795 | - | 2.795 | 2.835 | 1.877 | 1.913 | 1.946 | Continuing | Continuing |
| Quantity of RDT&E Articles | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| A. Mission Description and Budget Item Justification <p>SURFACE ELECTRONIC CAPABILITY AUGMENTATION CAPABILITY SUPPORT: This is a continuing program that will provide advanced technologies and capabilities to current Electronic Warfare (EW) / Electronic Intelligence (ELINT) System Programs of Record (POR). The program develops concepts of data / information exchange within the Global Information Grid (GIG) as envisioned by Chief of Naval Operations (CNO) and outlined within the FORCEnet concept. To comply with the intent of the GIG, this program addresses compression, transmission, decompression, re-compression and long-term storage of targeted data / information without degradation. This program will become an enabler for future capabilities such as remote operation of surface, subsurface, and air EW/ELINT open architecture PORs. A holistic approach to data / information format, processing transmission, and storage will require developments in antenna technology, communications capabilities, operational concepts, and software development.</p> <p>COMTENTHFLT MARITIME OPERATIONS CENTER (MOC): The Maritime Operations Center (MOC) visualization system provides the common operational picture (COP) in support of the Commander's mission requirements. The system design permits the connection of numerous data feeds at various security classification levels in order to project and adjust the COP as required on multiple output displays electronically.</p> | | | | | | | | | | | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | | | | | | | FY 2011 | FY 2012 | FY 2013 | |
| Title: Surface Electronic Capability Augmentation Capability Support Description: Development of antenna technology, communication, capabilities, operational concepts and software. FY 2011 Accomplishments: Develop concepts of data/information exchange within the Global Information Grid (GIG) as envisioned by Chief of Naval Operations (CNO) and outlined within the FORCEnet concept. FY 2012 Plans: Develop concepts of data/information exchange within the Global Information Grid (GIG) as envisioned by Chief of Naval Operations (CNO) and outlined within the FORCEnet concept. FY 2013 Plans: Develop concepts of data/information exchange within the Global Information Grid (GIG) as envisioned by Chief of Naval Operations (CNO) and outlined within the FORCEnet concept. Continuation of the Maritime Operations Center (MOC) visualization system. This system will provide the common operational picture (COP) in support of the Commander's mission | | | | | | | | 1.850 | 1.764 | 1.795 | |
| Articles: | | | | | | | | 0 | 0 | 0 | |

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| Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy | | DATE: February 2012 | | |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 6: RDT&E Management Support | | R-1 ITEM NOMENCLATURE PE 0305885N: Tactical Cryptologic Activities | PROJECT 0037: TACT COMBAT OPER SYS | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | | | |
| requirements. The system design permits the connection of numerous data feeds at various security classification levels in order to project and adjust the COP as required on multiple output displays electronically. | | FY 2011 | FY 2012 | FY 2013 |
| Title: CONTENTHFLT Maritime Operations Center (MOC) Articles: Description: Development of MOC Visualization System FY 2012 Plans: Development of the Maritime Operations Center (MOC) visualization system. This system will provide the Common Operational Picture (COP) in support of the Commander's mission requirements. The system design permits the connection of numerous data feeds at various security classification levels in order to project and adjust the COP as required on multiple output displays electronically. FY 2013 Plans: Continuation of the Maritime Operations Center (MOC) visualization system. This system will provide the Common Operational Picture (COP) in support of the Commander's mission requirements. The system design permits the connection of numerous data feeds at various security classification levels in order to project and adjust the COP as required on multiple output displays electronically. | | - | 1.000 0 | 1.000 0 |
| Accomplishments/Planned Programs Subtotals | | 1.850 | 2.764 | 2.795 |
| C. Other Program Funding Summary (\$ in Millions) N/A | | | | |
| D. Acquisition Strategy Not required. | | | | |
| E. Performance Metrics Provide advanced technologies and capabilities to current Electronic Warfare/Electronic Intelligence System Programs of Record (POR). | | | | |