### APPROPRIATION/BUDGET ACTIVITY
- **RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA-06**

<table>
<thead>
<tr>
<th>R-1 ITEM NOMENCLATURE</th>
<th>0035885N - Tactical Cryptologic Activities</th>
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<tbody>
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<td>Total PE Cost</td>
<td>0.000</td>
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<td>1.004</td>
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<td>0037</td>
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<td>1.508</td>
<td>2.011</td>
<td>2.514</td>
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**Quantity of RDT&E Articles**

(U) **MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:**

This program will provide advanced technologies and capabilities to current Electronic Warfare/Electronic Intelligence system programs of record (POR). By developing 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 will address 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. In order to effectively achieve these objectives the program has budgeted for a progressive increase in funding from FY07 through FY10 to account for increased cost projected in the development of new and burgeoning technologies.

(U) **JUSTIFICATION FOR BUDGET ACTIVITY:**

This project supports implementation of FORCEnet.
### (U) B. Accomplishments/Planned Program

<table>
<thead>
<tr>
<th></th>
<th>FY 05</th>
<th>FY 06</th>
<th>FY 07</th>
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<tbody>
<tr>
<td>JIIOR Management</td>
<td>0.000</td>
<td>0.000</td>
<td>1.004</td>
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<tr>
<td>RDT&amp;E Articles Quantity</td>
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**FY05 ACCOMPLISHMENTS:** N/A

**FY06 PLAN:** N/A

**FY07 PLAN:**
- Electromagnetic Data/Information Compression Techniques: Develop Electromagnetic Data/Information compression techniques that will allow for the compression, transmission, de-compression, re-compression and long term storage of targeted data/information without degradation. Efficient compression techniques will improve bandwidth utilization and increase the information exchange rate via the GIG. Commercial-off-the-shelf technology will be utilized to the greatest extent possible but due to the unique requirements of certain Electromagnetic data/information analyst/customers it may be necessary to modify commercial technology or develop government technology to meet those requirements.
- Remote Specific Emitter Identification/Unintentional Modulation on the Pulse (SEI/UMOP) Processing: Determine the minimum number of pulses required to be digitally forwarded for SEI/UMOP extraction at a remote site that consistently produces accurate SEI/UMOP measurements that are compliant with the national standard.
- Antenna Technology Development and Advances: To continue to meet changing environmental and technology requirements, propose that CNSG continue to invest in advanced antenna technology in partnership with NRL, CNO, ONI, DNR, Combatant Fleet Commanders, and National partners.

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R-1 SHOPPING LIST - Item No. 159
<table>
<thead>
<tr>
<th>APPROPRIATION/BUDGET ACTIVITY</th>
<th>PROGRAM ELEMENT NUMBER AND NAME</th>
<th>PROJECT NUMBER AND NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>RDT&amp;E, N / BA-6</td>
<td>0305885N - Tactical Cryptologic Activities</td>
<td>0037</td>
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</table>

(U) PROGRAM CHANGE SUMMARY:

<table>
<thead>
<tr>
<th>(U) Funding:</th>
<th>FY 2005</th>
<th>FY 2006</th>
<th>FY 2007</th>
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<tbody>
<tr>
<td>FY 06 President’s Budget</td>
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<td>FY 07 FMB Submit</td>
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Summary of Adjustments
ELINT Transformation. 1.004

(U) Schedule:
Not Applicable

(U) Technical:
Not Applicable
**UNCLASSIFIED**  
**FY2007 PRESIDENTS BUDGET**

### EXHIBIT R-2a, RDT&E Project Justification

**DATE:** FEB 2006

<table>
<thead>
<tr>
<th>Appropriation/Budget Activity</th>
<th>Program Element Number and Name</th>
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(U) **D. OTHER PROGRAM FUNDING SUMMARY:**

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<tbody>
<tr>
<td>Not Applicable</td>
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(U) **E. ACQUISITION STRATEGY:** *

Not Applicable

(U) **F. MAJOR PERFORMERS:**

NONE

(U) **G. PERFORMANCE METRICS:**

NONE

* Not required for Budget Activities 1,2,3, and 6
**CLASSIFICATION:**

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<td>RDT&amp;E, N / BA-06</td>
<td>0305885N TACTICAL CYRPTOLOGIC ACTIVITIES</td>
<td>PROJECT 0037</td>
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Remarks: Funding will not be acquired until FY-07. Currently in the process of development for FY-07 execution.

R-1 SHOPPING LIST - Item No. 159