Sensors and SONAR Systems
Department
NUWC Division Newport, Code 15

NCMA RI Chapter Industry Day
29 October 2020

Mark A. Snyder, Department Head (Acting)

DISTRIBUTION STATEMENT A: Approved For Public Release; Distribution Is Unlimited
Core Values
- Trust / Honesty / Integrity
- Leadership
- Technical and Business Excellence
- Teamwork / Collaboration
- Innovation
- Dedication
- Accountable
- Respect

Core Competencies
- Undersea Warfare (USW) Sensors & Arrays
- Submarine & Surface Ship SONAR Systems
- Maritime Surveillance
- Science & Technology
- Advanced Development

SENSORS AND SONAR SYSTEMS DEPARTMENT

ADVANCED CONCEPTS ENTERPRISE

SCIENCE AND TECHNOLOGY ENTERPRISE

SENSORS AND ARRAYS ENTERPRISE

SURFACE SHIP AND AVIATION SYSTEMS ENTERPRISE

SUBMARINE SYSTEMS ENTERPRISE

SOUND SOLUTIONS FOR THE WARFIGHTER
Strategically Located Offsite Personnel

Our Resources and Expertise Support National and Foreign Military Efforts

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Sensors and SONAR Systems Department

We Advance Timely, Innovative, Integrated, Next Generation Solutions to Maintain FLEET UNDERSEA SUPERIORITY

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Service Cost Centers

Towed Array Handler Equipment Facility (TAHEF)
- Center of Excellence for overhaul of Towed Array Handler Equipment
- Registered to ISO 9001-2000 and aligned with the Towed Systems ISEA Organization
- Land-based test facilities for 276 and 542 systems

Naval Array Technical Support Center (NATSC)
- Established as a result of a NAVSEA initiative to integrate all Towed Array and Tow Cable Repair Level Activity into a consolidated facility
- Responsible for the repair and refurbishment of Surveillance Towed Arrays (SURTASS) A180R and TL-29A; Surface Ship Towed Array TB-37; and Submarine Towed Arrays TB-16, TB-29A and TB-34
- Responsible for the manufacturing of TB-16, AN/SQR-19, TB-34 and SURTASS Tow Cables

Underwater Sound Reference DIVNPT (USRD)
- Rapid array and sensor Calibration/Certification Response Center to accommodate urgent fleet requirements
- Navy’s principal Activity for N.I.S.T. traceable calibration of Tactical Towed Arrays including developmental Towed Arrays and Submarine and Surface Ship coatings and hull sensors
- Towed Array calibrations include platforms: TB-16 (E,F,G), TB-23, TB-29, 29A, TB-34, TB-37 and new Fiber Optic Arrays; and Receive Sensitivity Calibration
Code 15 Contracting
Key Attributes of Procurement Teams

- Senior Leader to facilitate planning, execution, follow-on's and collaboration across C15
- Planning at project level and responsibility to enter & monitor plans in Acquisition Management System (AMS)
- Certified Data Manager(s) (CDMs) in each team to approve CDRL packages
- CDRL Owners and Project Team Responsibilities
- Management of Technical Advisors (TAs)
Projected Contracting $M’s

Increase in Maritime Surveillance

- Services
- Depot / SCC
- Hardware
- Material

FY 20
FY 21
FY 22
Code 15 Outsourced By Skill FY 21 - 22

- Technician: 170.0
- Program Support: 19.7
- Logistician: 8.0
- Cyber: 3.0
- Engineering: 75.0

Driven by SCCs

275.7 FTEs
# Major Code 15 Contractors

<table>
<thead>
<tr>
<th>Contractor</th>
<th>Services</th>
</tr>
</thead>
<tbody>
<tr>
<td>GVI</td>
<td>Towed Array Handler Equipment Facility (TAHEF) Maintenance, Repair &amp; Overhaul</td>
</tr>
<tr>
<td>Leidos</td>
<td>Naval Array Technical Support Center (NATSC)</td>
</tr>
<tr>
<td>Hydroacoustics Inc.</td>
<td>HLF-1 Services &amp; Refurb</td>
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<tr>
<td>L-3 Comms</td>
<td>TB-23/BQ Towed Systems Repair &amp; Support</td>
</tr>
<tr>
<td>Leidos</td>
<td>Towed Array Intermediate Maintenance Activity (IMA)</td>
</tr>
<tr>
<td>SyQwest / Ultra / Massa / USS</td>
<td>Sensors, Hydrophones &amp; Transducers</td>
</tr>
<tr>
<td>GVI Inc.</td>
<td>Wet End Engineering, Test &amp; Evaluation</td>
</tr>
<tr>
<td>MIKEL</td>
<td>Dry End System Eng., Test &amp; Evaluation</td>
</tr>
<tr>
<td>THOR Solutions</td>
<td>Business Operations Support</td>
</tr>
<tr>
<td>SEACORP</td>
<td>Trainers, Training &amp; Human Factor Eng.</td>
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</tbody>
</table>
# Code 15 Projected Contracts – Services

<table>
<thead>
<tr>
<th>Current Contract #</th>
<th>Title</th>
<th>Current Contract Value</th>
<th>Incumbent</th>
<th>Seaport</th>
<th>Follow-On</th>
<th>Expected RFP Release</th>
<th>Strategy</th>
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</thead>
<tbody>
<tr>
<td>N66604-20-D-A000</td>
<td>HLF-1 Services and Hardware</td>
<td>$8.9M</td>
<td>Hydro-acoustics</td>
<td>N</td>
<td>Y</td>
<td>FY22 QTR 1</td>
<td>TBD</td>
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<tr>
<td>N00178-11-D-6705 N401</td>
<td>Business Operations</td>
<td>$20.9M</td>
<td>THOR</td>
<td>Y</td>
<td>Y</td>
<td>FY22 QTR 1</td>
<td>SBSA</td>
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<td>N00178-10-D-6066 N402</td>
<td>SONAR Wet End Services</td>
<td>$30.8M</td>
<td>GVI</td>
<td>Y</td>
<td>Y</td>
<td>FY22 QTR 1</td>
<td>SBSA</td>
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# Code 15 Projected Contracts – Hardware

<table>
<thead>
<tr>
<th>Contract #</th>
<th>Title</th>
<th>Current Contract Value</th>
<th>Incumbent</th>
<th>Seaport</th>
<th>Current Contract Type</th>
<th>Expected RFP Release</th>
<th>Strategy</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEW</td>
<td>WAA &amp; LSA OBE Bottles</td>
<td>N/A</td>
<td>N/A</td>
<td>N</td>
<td>FFP</td>
<td>FY21 QTR 3</td>
<td>TBD</td>
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<tr>
<td>NEW</td>
<td>Hybrid Underwater SONAR Cables</td>
<td>N/A</td>
<td>N/A</td>
<td>N</td>
<td>FFP</td>
<td>FY21 QTR 4</td>
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<tr>
<td>N66604-13-D-2051</td>
<td>TR 317 Transducer Restoration</td>
<td>$5.0M</td>
<td>SyQwest</td>
<td>N</td>
<td>FFP</td>
<td>FY21 QTR 4</td>
<td>TBD</td>
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<tr>
<td>N66604-15-D-0080</td>
<td>DT-705A Sensor</td>
<td>$5.9M</td>
<td>Teledyne</td>
<td>N</td>
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<td>N66604-16-D-0055</td>
<td>TR-233D Transducers</td>
<td>$2.6M</td>
<td>Massa</td>
<td>N</td>
<td>FFP</td>
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<td>N66604-15-D-0449</td>
<td>HFSA Windows</td>
<td>$14.5</td>
<td>Goodrich</td>
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<td>FFP</td>
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<td>TBD</td>
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<tr>
<td>N66604-17-D-A701</td>
<td>CW-1147 &amp; CW-1181D Domes</td>
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<td>Globe Composites</td>
<td>N</td>
<td>FFP</td>
<td>FY22 QTR 1</td>
<td>TBD</td>
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</table>
Opportunities

- ASW Performance Analysis
- Distributed Sensors
- Cyber Security
- Hull Mounted Arrays
- Human Systems Integration
- Next Gen Arrays - Highly Skilled Technicians
- In Service Engineering

- Advanced Sensor Development
- Signal Processing
- Simulation/Stimulation
- Towed System Reliability
- Transducer / Hydrophone Technology
- Test & Evaluation

Keys to Contracting Success:
- Competition
- Advanced Planning
- Sources Sought
- Trusted Partner
Leveraging Partnerships and Collaborations to Enhance Capabilities for the Warfighter

Small Business Advocate
NUWC_NPT_OSBP@navy.mil

Working with Industry, Academia and Navy Labs to Deliver Solutions to the Warfighter Where and When They are Needed