



Sensors and SONAR Systems Department

NUWC Division Newport, Code 15

NCMA RI Chapter Industry Day

29 October 2020

Mark A. Snyder, Department Head (Acting)

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SENSORS AND SONAR SYSTEMS DEPARTMENT

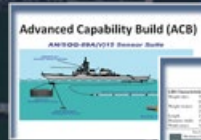
Core Values

- 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

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ADVANCED CONCEPTS ENTERPRISE



SCIENCE AND TECHNOLOGY ENTERPRISE



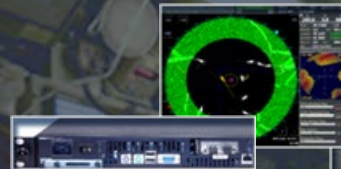
SENSORS AND ARRAYS ENTERPRISE



SOUND SOLUTIONS FOR THE WARFIGHTER



SURFACE SHIP AND AVIATION SYSTEMS ENTERPRISE



SUBMARINE SYSTEMS ENTERPRISE





Sensors & SONAR Systems Department

15 *Department Head*

15A *Deputy Department Head*

1501 *Director, Business Operations*

15T *Director, Undersea Sensors*

159 *Director, Programs & Contracts*

Department Contract Manager (DCM)

15E *Director, Engineering*

Chief Systems Analyst

15A Customer Advocacy

Surface Ship USW

*Towed Systems,
Sensors and
Acoustics*

Maritime Surveillance

151 Science and Technology Division

1511 Automation Algorithm Development

1512 Devices, Sensors and Materials R&D

1513 Signal Processing Algorithm Development

152 Advanced Concepts Division

1521 Developmental Systems Engineering

1522 Prototype Development

1523 Technology Integration

1524 Concepts and Experimentation

153 Sensors and Arrays Division

1531 Underwater Sound Reference

1532 Towed and Deployed Arrays Engineering

1533 Hull Arrays and Distributed Sensors Engineering

1534 Handling Systems Engineering

1535 Fleet Sensors and Cables Engineering

154 Submarine Systems Division

1541 Submarine and Surveillance Systems Engineering

1542 Systems Analysis and Passive Systems Engineering

1543 Submarine and Surveillance Systems Integration

1544 Submarine and Surveillance Test, Evaluation and Analysis

1545 Submarine and Surveillance Training, Logistics and Fleet Support

155 Surface Ship and Aviation Systems Division

1551 Surface and Aviation Systems Engineering

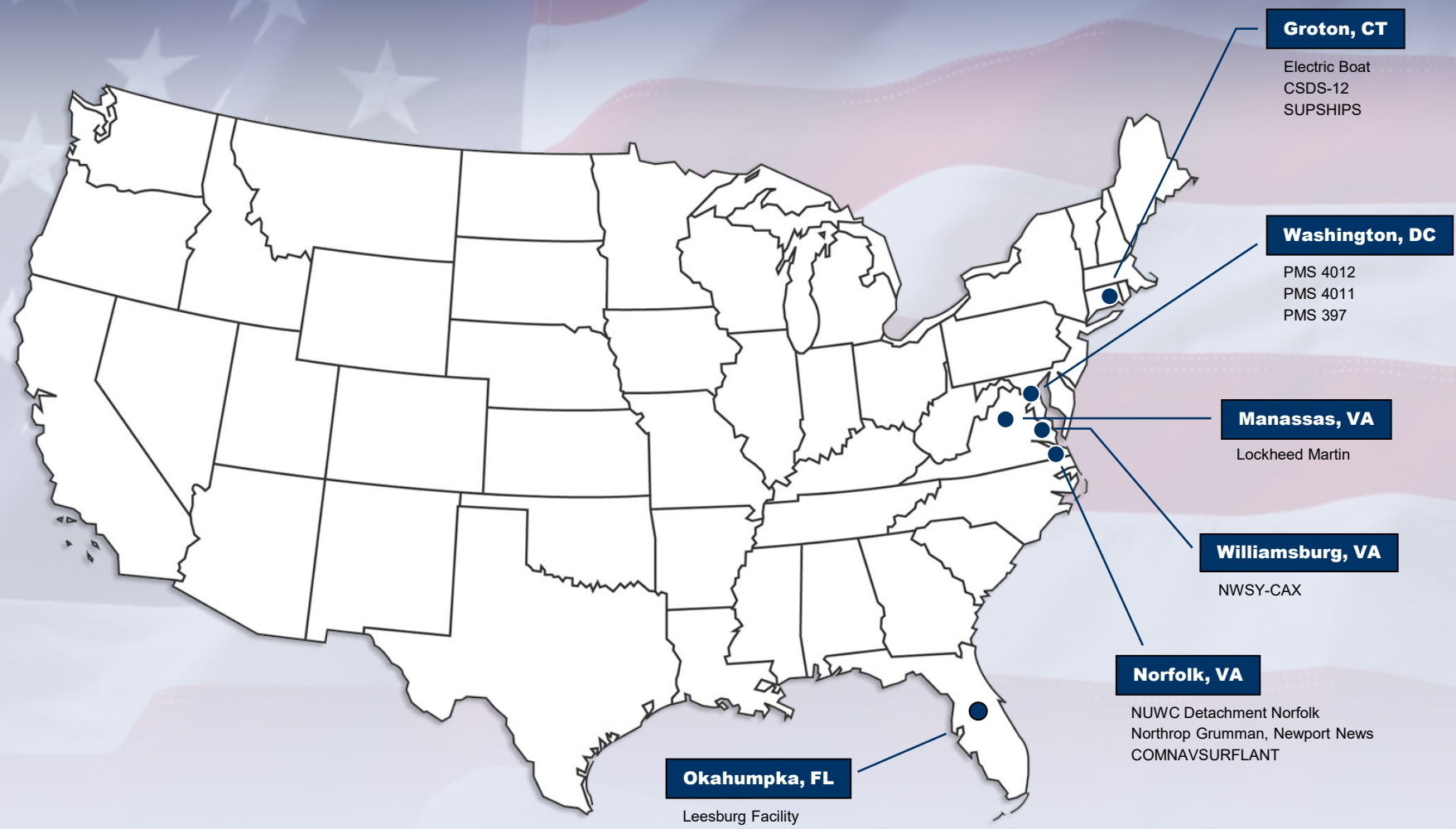
1552 Active Systems Engineering

1553 Surface and Aviation Systems Integration

1554 Surface and Aviation Test, Evaluation and Analysis

1555 Surface and Aviation Training, Logistics and Fleet Support

Strategically Located Offsite Personnel



Our Resources and Expertise Support National and Foreign Military Efforts

Sensors and SONAR Systems Department

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

PEOPLE



ISEA
In-service
Engineering

PRODUCTS AND CAPABILITIES



*We Provide
Sound Solutions
for the
Warfighter*

S&T
Science and
Technology

THE FLEET

DARPA

PEO-AIR

OSD

ACADAMIA

NAVY WARFARE CENTERS



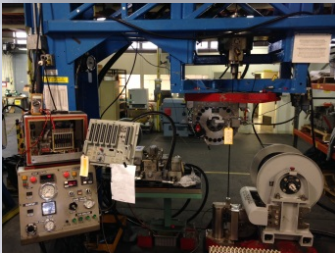
INDUSTRY

SPONSORS, STAKEHOLDERS, AND PARTNERS

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)

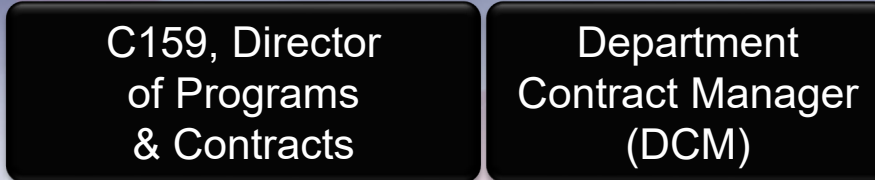
- Rapid array and sensor Calibration/Certification Response Center to accommodate urgent fleet requirements
- Navy's principal Activity for N.I.S.T. traceable calibration of Tactical Towed Arrays including developmental Towed Arrays and Submarine and Surface Ship coatings and hull sensors
- Towed Array 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

Contract Management Structure

Administration of AMS will be at the Procurement IPT Level



TDAA

- Planning / Coordination
- AMS Oversight
- Contract Strategy
- COR Coordination

C15 Procurement IPTs (AMS)

2/20/20

Department Contracts
15

S&T, CIP & Investment
151

Advanced Concepts
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Hull Sensor Systems
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Service Cost Centers
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Towed Systems
153

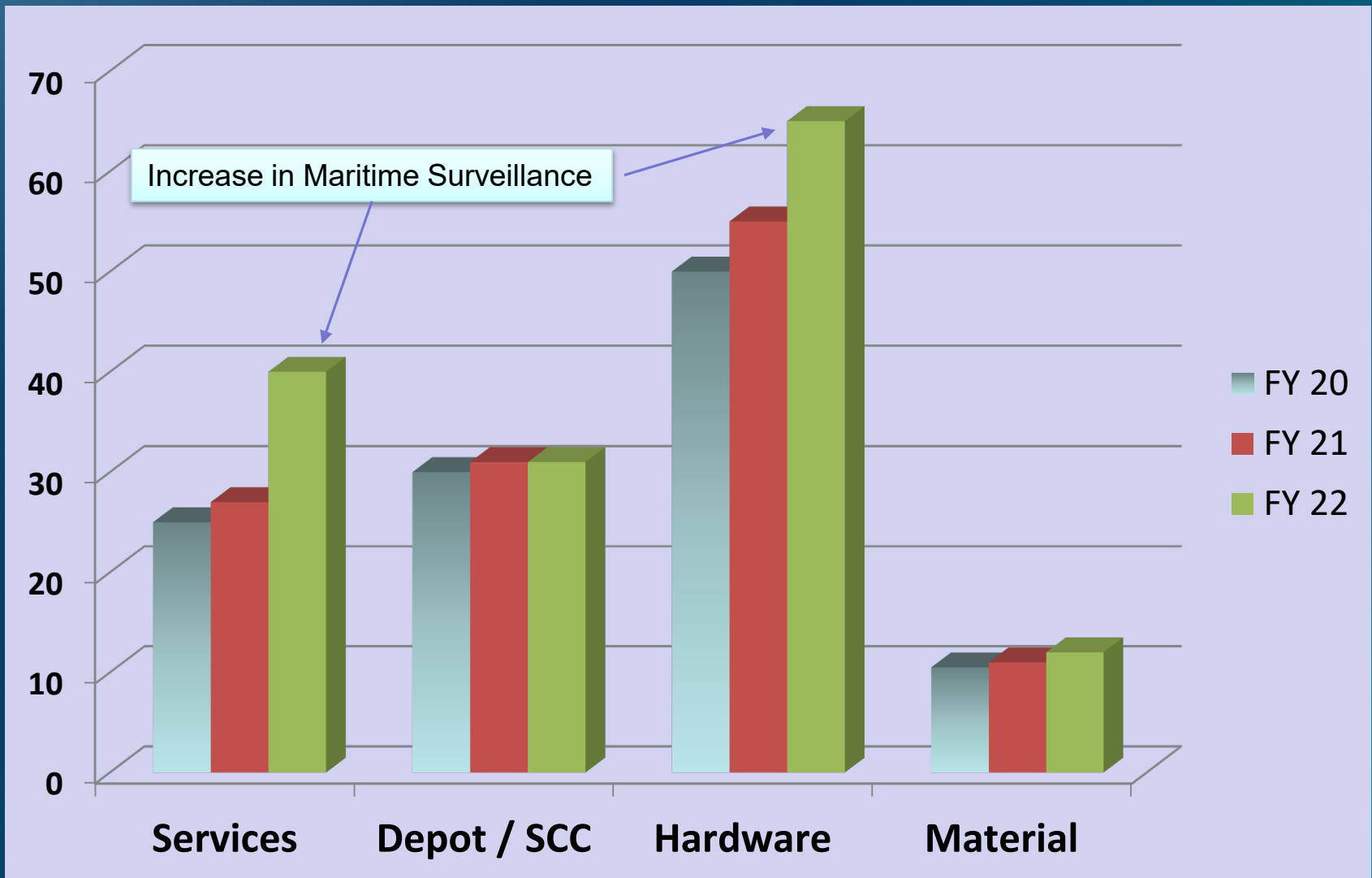
Submarine Systems
154

Surface Ship Systems
155

□ Key Attributes of Procurement Teams

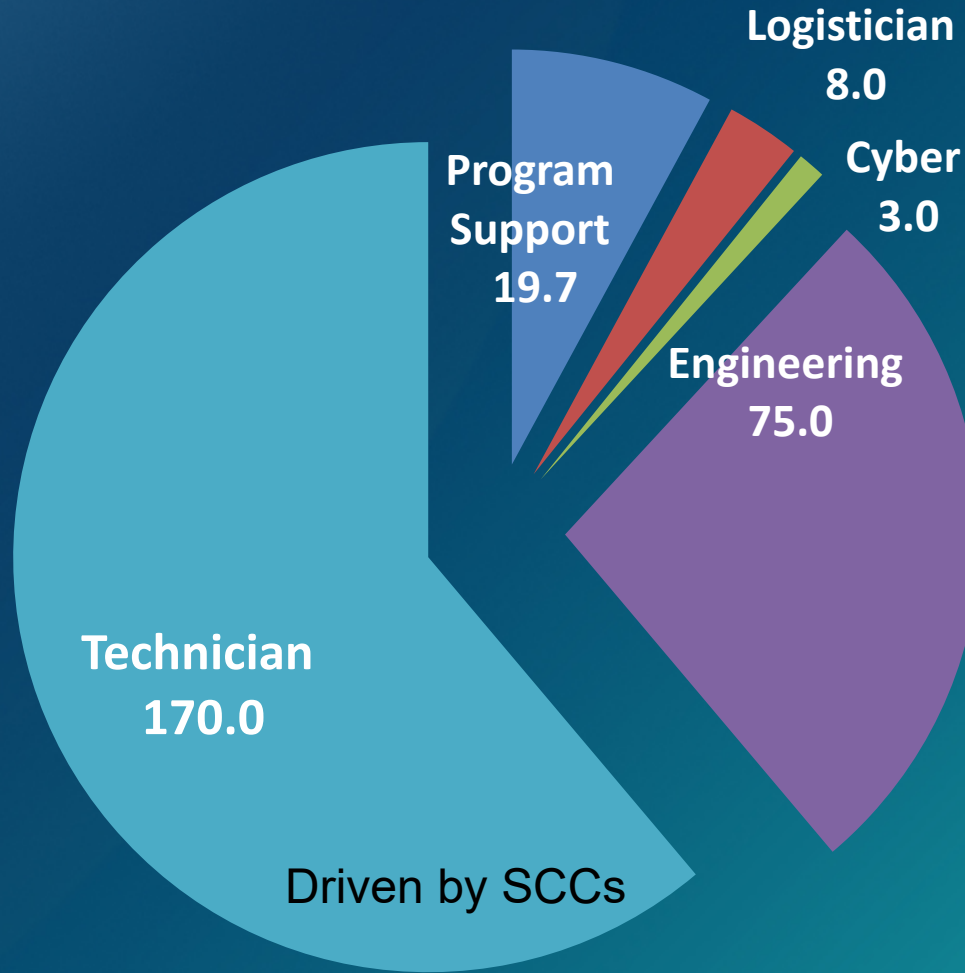
- Senior Leader to facilitate planning, execution, follow-on's and collaboration across C15
- Planning at project level and responsibility to enter & monitor plans in Acquisition Management System (AMS)
- Certified Data Manager(s) (CDMs) in each team to approve CDRL packages
- CDRL Owners and Project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

Projected Contracting \$M's





Code 15 Outsourced By Skill FY 21 - 22



275.7 FTEs



Major Code 15 Contractors

GVI	Towed Array Handler Equipment Facility (TAHEF) Maintenance, Repair & Overhaul
Leidos	Naval Array Technical Support Center (NATSC)
Hydroacoustics Inc.	HLF-1 Services & Refurb
L-3 Comms	TB-23/BQ Towed Systems Repair & Support
Leidos	Towed Array Intermediate Maintenance Activity (IMA)
SyQwest / Ultra / Massa / USS	Sensors, Hydrophones & Transducers
GVI Inc.	Wet End Engineering, Test & Evaluation
MIKEL	Dry End System Eng., Test & Evaluation
THOR Solutions	Business Operations Support
SEACORP	Trainers, Training & Human Factor Eng.



Code 15 Projected Contracts – Services

Current Contract #	Title	Current Contract Value	Incumbent	Seaport	Follow-On	Expected RFP Release	Strategy
N66604-20-D-A000	HLF-1 Services and Hardware	\$8.9M	Hydro-acoustics	N	Y	FY22 QTR 1	TBD
N00178-11-D-6705 N401	Business Operations	\$20.9M	THOR	Y	Y	FY22 QTR 1	SBSA
N00178-10-D-6066 N402	SONAR Wet End Services	\$30.8M	GVI	Y	Y	FY22 QTR 1	SBSA



Code 15 Projected Contracts – Hardware

Contract #	Title	Current Contract Value	Incumbent	Seaport	Current Contract Type	Expected RFP Release	Strategy
NEW	WAA & LSA OBE Bottles	N/A	N/A	N	FFP	FY21 QTR 3	TBD
NEW	Hybrid Underwater SONAR Cables	N/A	N/A	N	FFP	FY21 QTR 4	TBD
N66604-13-D-2051	TR 317 Transducer Restoration	\$5.0M	SyQwest	N	FFP	FY21 QTR 4	TBD
N66604-15-D-0080	DT-705A Sensor	\$5.9M	Teledyne	N	FFP	FY21 QTR 4	TBD
N66604-16-D-0055	TR-233D Transducers	\$2.6M	Massa	N	FFP	FY21 QTR 4	TBD
N66604-15-D-0449	HFSA Windows	\$14.5	Goodrich	N	FFP	FY22 QTR 1	TBD
N66604-17-D-A701	CW-1147 & CW-1181D Domes	\$4.7M	Globe Composites	N	FFP	FY22 QTR 1	TBD



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**

QUESTIONS?

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TEAM 15

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