



Undersea Warfare Weapons, Vehicles, and Defensive Systems Department



*Code 85 Department Head
&
Technical Dept. Acquisition Advocate*
Presenting to:

NCMA RI Chapter Industry Day 2024

Presentation Outline



Department Leadership Overview

Mission & Vision

Products

Organization / Department Resources

Customers & Funding Projections

Leadership Thoughts & Outlook

Code 85 Projected Contract Details

Contracts Details

Questions

Department Mission & Vision



Mission

“Provide integrated full spectrum undersea Weapon, Autonomous, and Defensive System solutions to the warfighter through technical expertise, cooperative innovation, engineering, and life cycle stewardship.”

Vision

“Undersea Dominance through superior Autonomous and Defensive Systems”

Philosophy

“Operate with Excellence; Commit to Success”

Science and Technology for:

- Torpedoes / Targets
- Autonomous Undersea Vehicles (AUVs)
- Countermeasures/Counterweapons

System Development, Integration & Test

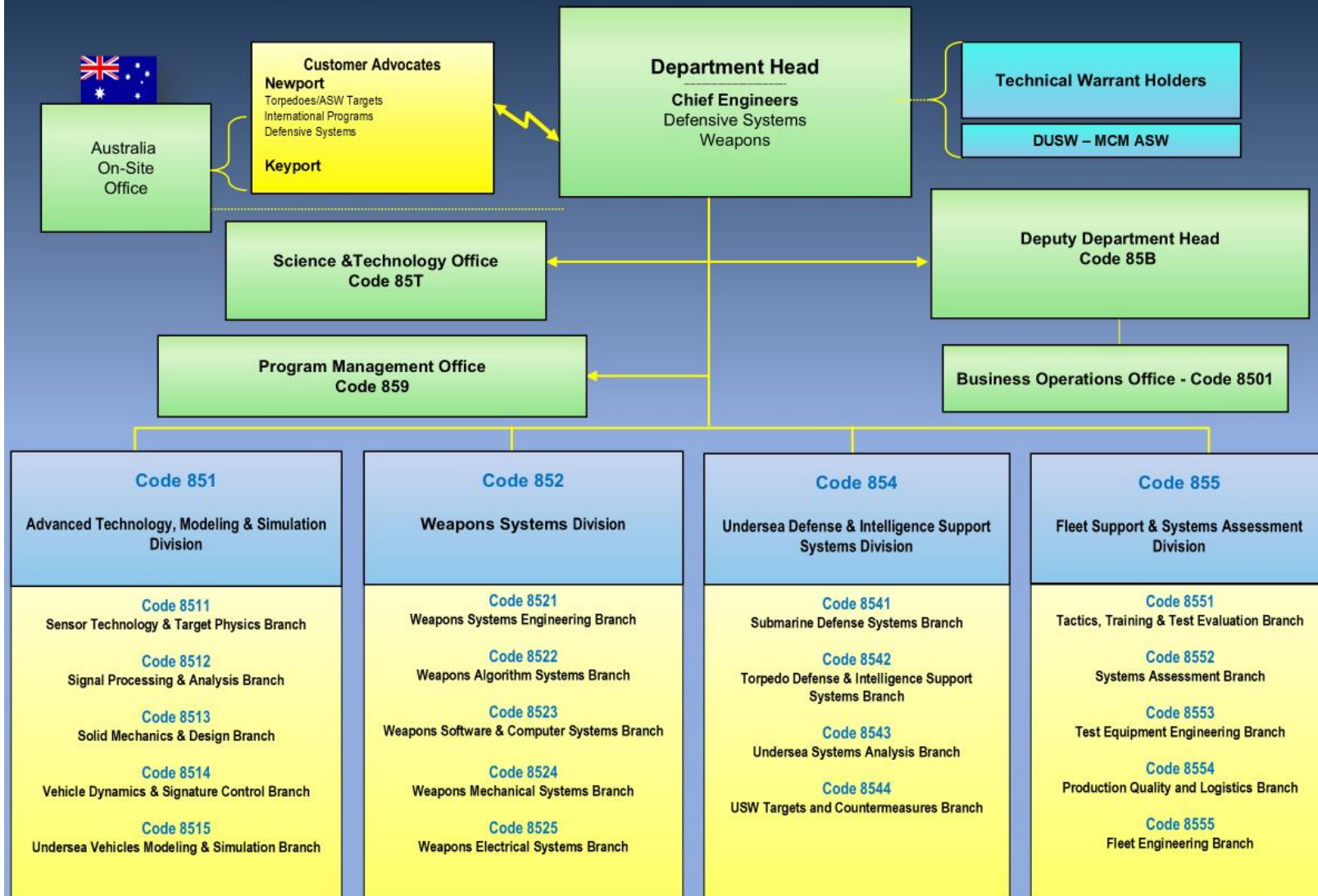
- AUVs
- Mobile ASW Targets and Torpedoes
- Undersea Defensive Systems
- T&E, Assessments, and M&S

Acquisition, Fleet Support, & In-Service Engineering

- HW and LW Torpedoes
- Mobile ASW Targets
- Undersea Defensive Systems

Organization

USW Weapons, Vehicles, and Defensive Systems Dept. ~ Code 85

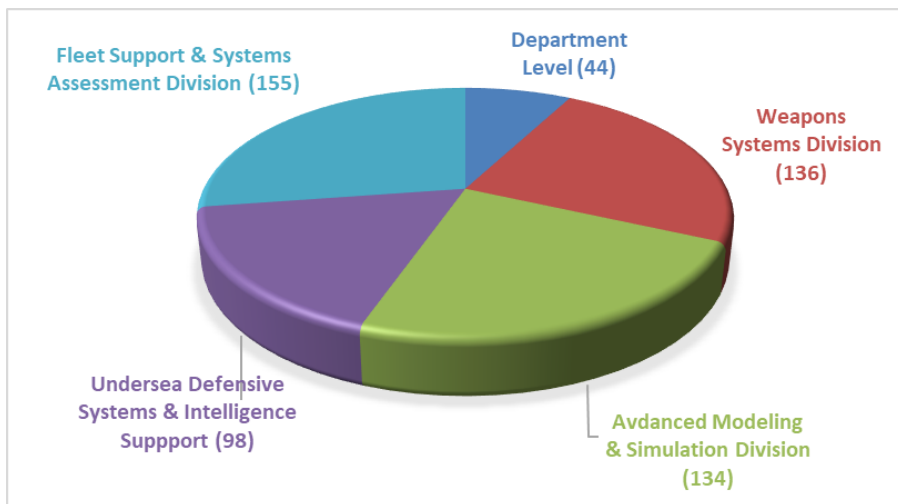


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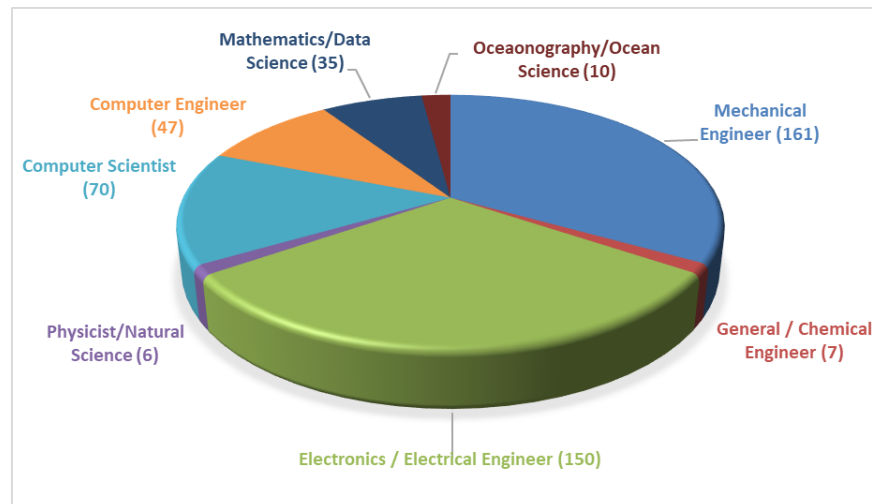
Resources

Code 85 On Board Count - 567

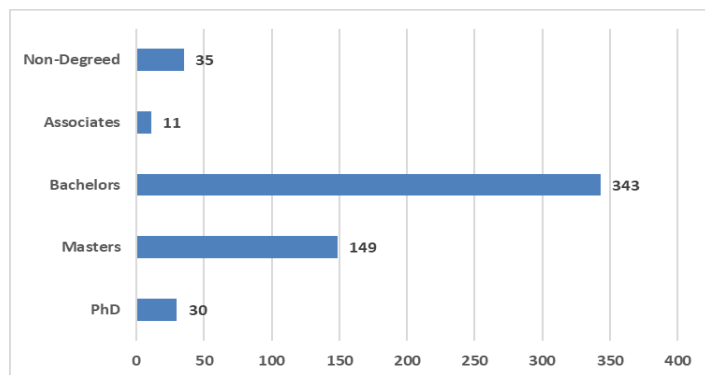
Code 85 Overview



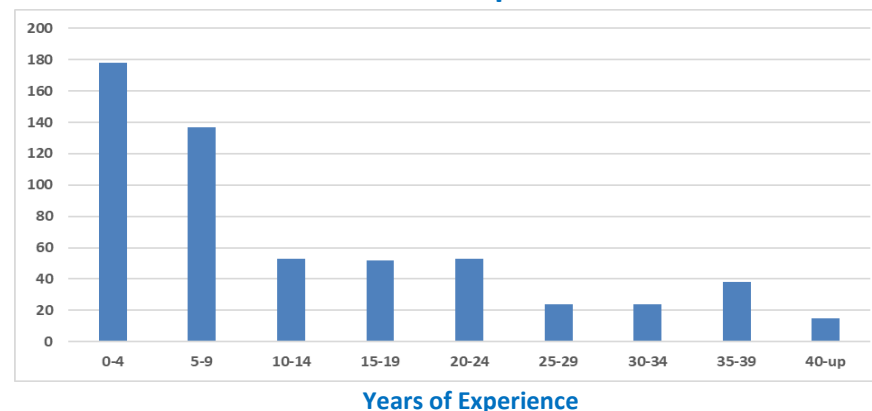
Engineers & Scientists (485)



Code 85 Education



Code 85 Experience



Continuously Managing The Balance of People, Training, Knowledge, and Right Work

Customers



DARPA, SCO, ONR, Internal Investment, ILIR/IAR, NELO, & Private Partnerships

PMS 404, 406, 415, 495, NELO, ONI, RDSA, International Sales

PMS 404, 406, 415, NELO International Sales

PMS 404, 415, NELO, International Sales, Fleet



- Biometrics
- Advanced Propulsion
- Non-Acoustic Technologies
- Supercavitation Technologies
- Advanced Sensor Technologies
- Next Generation CM/CCM
- G&C Technology
- Vehicle Array technologies
- Propulsion, Silencing & Hydrodynamics
- Broad band
- Fiber Optics
- Stealth
- Tactical oceanography
- Next Gen M&S/Live Virtual Constructive
- New targets and decoys

TOTAL: 16%

- AN-SLQ-25E
- Torpedo Modular Upgrade Program (TI/APB).
- Next Generation CM (ADC MK5)
- Vehicle Array Technologies
- Advanced Navigation
- Advanced Autonomy
- System Requirements/Specs
- Non-Acoustic Technology
- Tactical Software Development
- System Integration / T&E
- Performance M&S
- Test Equipment
- **Technical Direction Agent (HWT/LWT and CMs)**

TOTAL: 27%

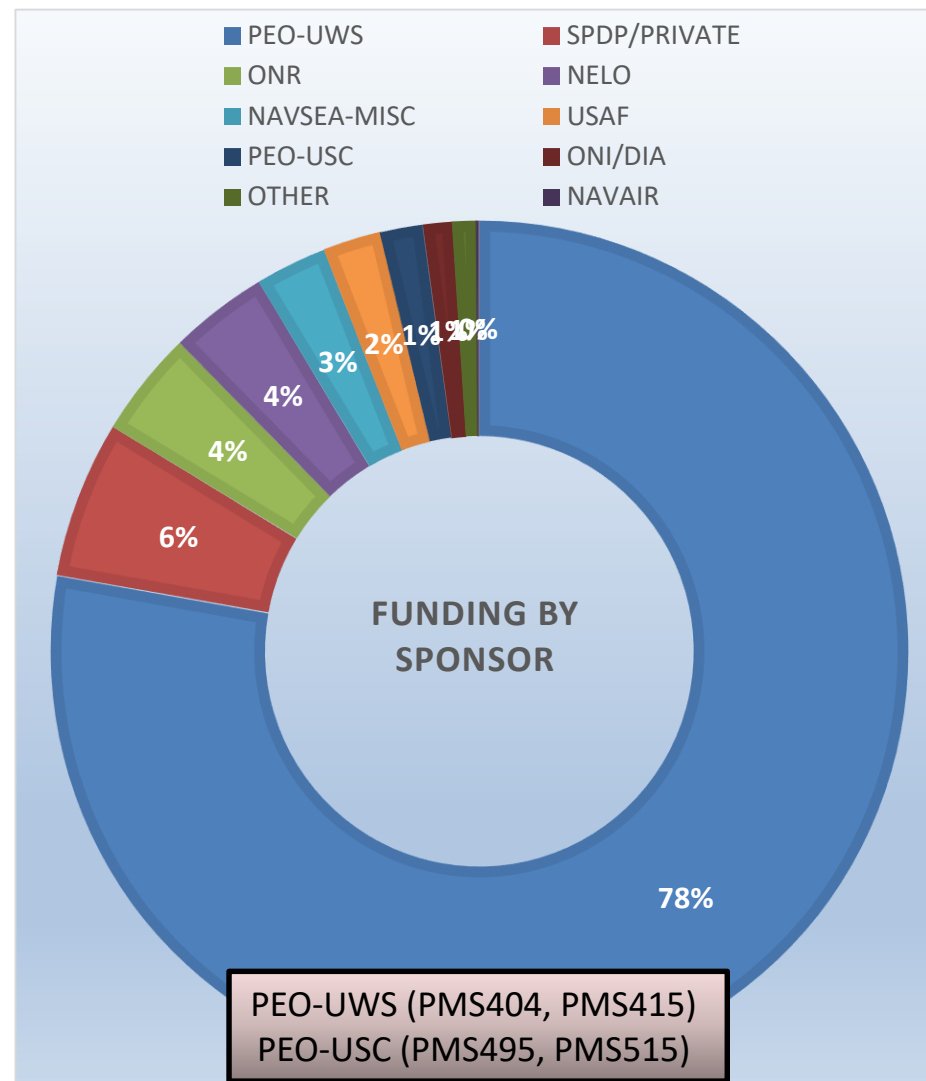
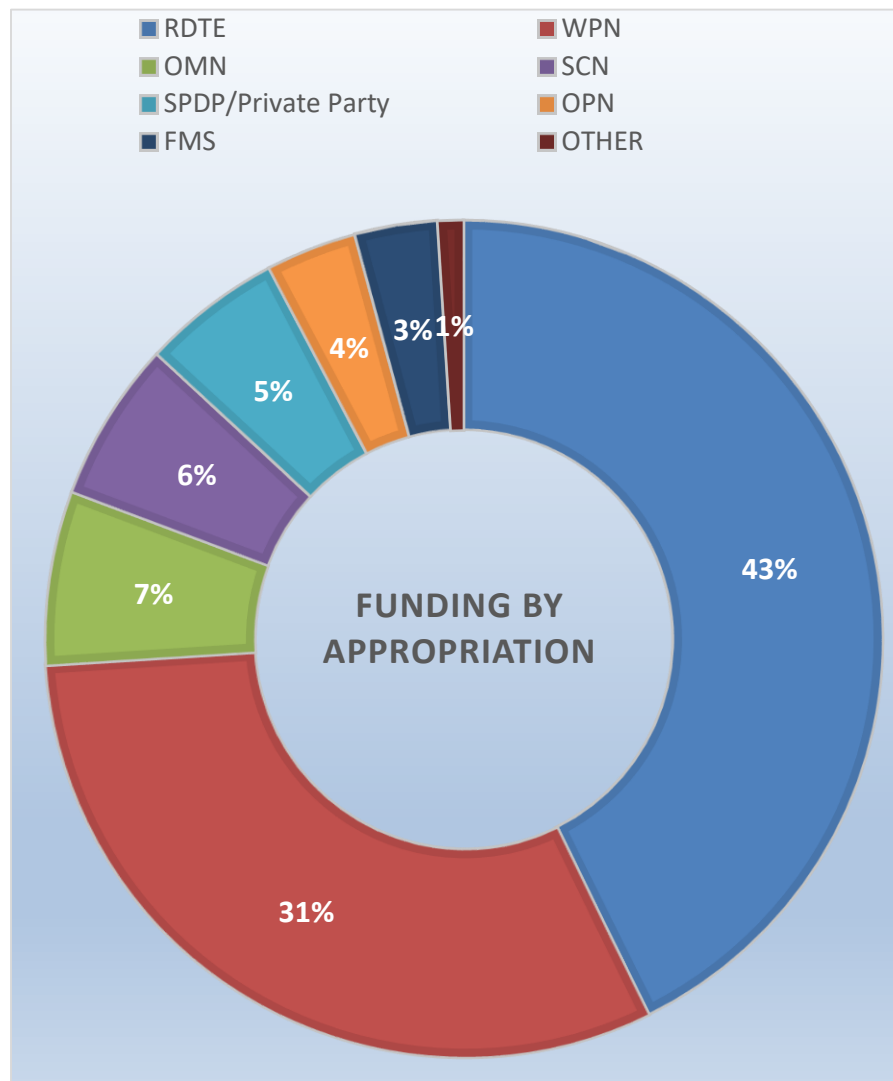
- AN-SLQ-25
- MK30 Mod 1/2
- Technology Refresh Engineering
- Signal Analysis System
- HWT/LWT Sonar Tech Insertion
- ADC CMs
- MK 39 EMATT
- Systems integration
- Production Engineering Support
- System Evaluation and Acceptance Testing Support
- Fleet Introduction Planning
- Test Equipment

TOTAL: 29%

- AN/SLQ-25
- Countermeasures ADC 2/3/4
- Signal Analysis System
- MK30 Mod 1/2
- MK 39 EMATT
- Weapon performance assessment
- Fleet T&E support
- Fleet Failure Analysis / CA
- Reliability Management
- SCC training
- SW Downloads
- Fleet Procedures
- IMA Certifications
- ORDALT Development
- Test Equipment
- **In Service Engineering Agent for HWT and CMs)**

TOTAL: 28%

FY25 Funding Projections



Total LRE for FY25 estimated at \$300-305M

Code 85 Perspective



Priorities

- Capabilities that impact the Davidson Window with appropriate scale
- Capability within a near term horizon (next 5-7)
- Next Generation Systems and Scalable effects

Challenge

- Deliver capability quickly within a resource constraint environment

What we need from Industry

- Reliably build/manufacture what you are contracted to deliver
- Manage/challenge the supply chain/suppliers
 - Government willing to share risk
- Put together the RIGHT team
 - Self reliance within the contractor team
- Flexibility -- Surge

Code 85 Projected Contract Details

Competitive Acquisition Forecast

Presented by
C/85 Technical Department Acquisition Advocate

Major Contracts

| Contract | Type | Scope | PoP w/ options | Projected RFP |
|---|----------|------------|-------------------|---------------|
| PTF Services | SeaPort | \$200-250M | Five years | FY25 Q1 |
| Surface Ship Torpedo Defense Services | SeaPort | \$45-50M | Five years | FY25 Q1 |
| UW/UD Family of Systems MAC | MAC IDIQ | ≥\$250M | ≥Five years | FY25 Q4 |

Propulsion Test Facility (PTF) Services



- **Summary of Contract Scope:** Operate and maintain the PTF Complex and provide engineering and technical services for \$200–250M
 - **Contracting Method:** SeaPort Task Order
 - **Anticipated Period of Performance:** 5 years (1 base year and 4 option years)
 - **Acquisition Strategy:** Full and open competition
 - **Level of Effort:** 959,400 hours
 - **Anticipated work location:** 90% on-site/10% contractor site requirement
 - **Contract Type:** CPFF
 - **Follow on?** Yes, N66604-20-F-3003, awarded to SAIC
 - **Does OCOI clause apply?** No
 - **Expected RFP release:** FY25 Q1
-
- Held an Industry Day at the PTF at the end of AUG
 - Significant increase in scope from current contract as demand for PTF services has sharply increased over the past four years

Surface Ship Torpedo Defense Services



- **Summary of Contract Scope:** The new task order will support the continued development, system engineering, hardware and software design and fabrication, ship integration, test and data analysis, and cybersecurity for torpedo defense systems (Nixie and Torpedo Warning System), acoustic device countermeasures, and emergent technologies for around \$45–50M
- **Contracting Method:** SeaPort Task Order
- **Anticipated Period of Performance:** 5 years (1 base year and 4 option years)
- **Acquisition Strategy:** Full and open competition
- **Level of Effort:** 227,266 hours
- **Anticipated work location:** 98% on-site/2% contractor site requirement
- **Contract Type:** CPFF
- **Follow on?** Yes, N00178-04-D-4119/N66604-18-F-3013, awarded to SAIC
- **Does OCOI clause apply?** No
- **Expected RFP release:** FY25 Q1

Competitive Acquisition Forecast (2)



UTIC OTA Contracts and Family of Systems MAC Orders

| Contract | Type | Scope | PoP w/ options | Projected RFP |
|--|--|------------|-------------------|---------------|
| MK 48 MOD 9 | UTIC OTA | \$140-160M | Five years | FY25 Q2 |
| ADC MK6 Defiant | UTIC OTA | \$20-30M | Five Years | FY25 Q1 |
| Otto Fuel 2 Test Bed Engine | UTIC OTA | \$900-950K | Five Years | FY25 Q2 |
| Tuning Box Test manufacture & install | FoS MAC (Ancillary & Test Equipment) | \$500K | TBD | FY25 Q2 |
| Warhead Add-On Sensor Warhead Electronic System Test Set (WWTS) | FoS MAC (Ancillary & Test Equipment) | \$2-4M | TBD | TBD |

Pursuing a Follow-On MAC: Longer Period of Performance / Higher Ceiling

Questions?