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Code 85 Deputy Department Head

1 To and a

Technical Dept. Acquisition Advocate

Presenting to:

NCMA RI Chapter Industry Day 25 October 2022



### **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"



### **Products**



### 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

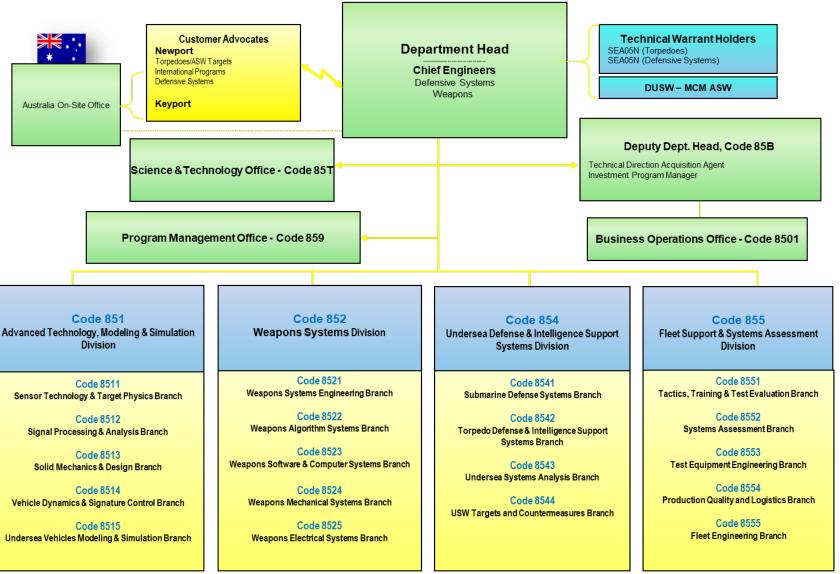
### Acquisition, Fleet Support, & In-Service Engineering

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



# Organization Vehicles, and Defensive Systems Dept. - Code 85





1 Nov 2022



### Resources

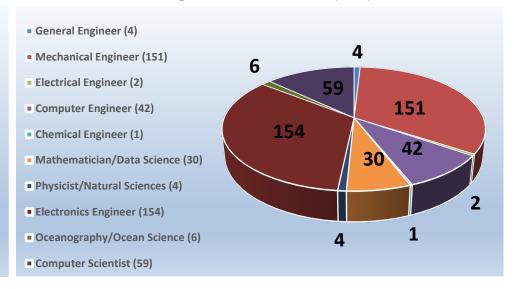


#### Code 85 On Board Count - 541

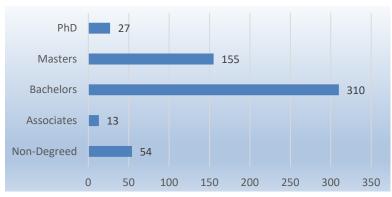
#### **Code 85 Overview**



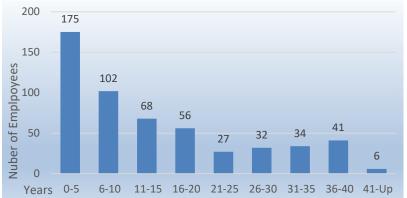
#### **Engineers & Scientists (453)**



#### **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, 406, 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

- AN-SLQ-25E
- Torpedo Modular Upgrade Program (TI/APB).
- Next Generation CM
- Vehicle Array Technologies
- Advanced Navigation
- Advanced Autonomy
- System Requirements/Specs
- Non-Acoustic Technology
- Tactical Software Development
- System Integration / T&E
- Performance M&S
- 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 MK5
- MK 39 EMATT
- Systems integration
- Production Restart
- Production Engineering Support
- System Evaluation and Acceptance Testing Support
- Fleet Introduction Planning
- Contractor Performance
   Assessment and Risk reduction

- 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
- In Service Engineering Agent for HWT and CMs)

**TOTAL: 28%** 

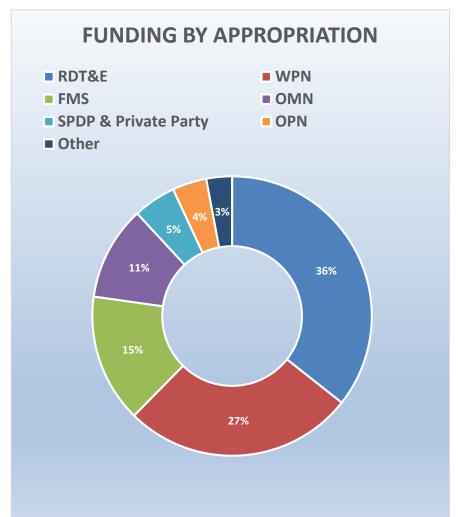
TOTAL: 29%

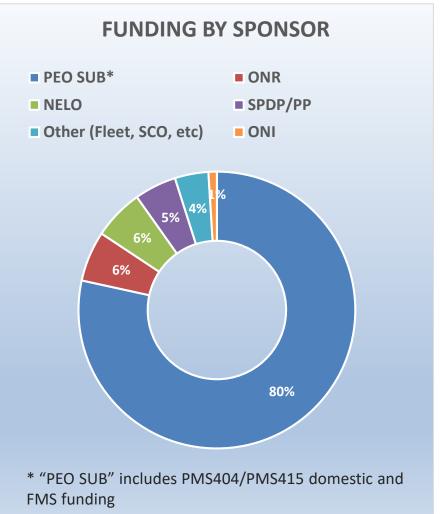
**TOTAL: 16%** 



# **FY23 Funding Projections**







Total LRE for FY23 estimated at \$210-225M



# **Leadership Outlook (1)**



#### **CHALLENGE:**

Increased need to deter adversaries within very challenging timeline.

#### Importance of Make/Buy decisions

- Prioritize work the Government must do
- Increase contracting footprint; surge ("more of the same") or additional responsibilities ("new work")
- Divest (goes to another organization NPT no longer responsible)

#### Where are the priorities?

- Undersea Weapons
  - New capabilities (Long Range, SSW/Deep)
  - Scalable effects
  - Need more bullets
    - Increased Production
- Cheaper Munitions
- Bring Back Mod 4?
- Foreign Partnerships (interoperability)

- Defensive Systems
  - Essential capability for platform survivability
    - Incremental capability to existing systems
    - New/more capable systems



# **Leadership Outlook (2)**



#### Where are the priorities? (cont'd)

- Decoy and Deception
  - Offensive and Defensive needs
  - Multiple effects

#### What Industry must bring to the table

- Reliably build/manufacture what you are contracted to deliver
- Manage/challenge the supply chain/suppliers
  - Government willing to share risk; risk solutions not desired
- Put together the RIGHT team
  - Self reliance within the contractor team
  - o Build coalitions to meet ALL requirements
  - One belly button/accountable organization
    - Limits need for Government to be in the middle to assemble the team and/or require multiple contracts.



# Fiber Optics (PMS 404 Special Area of Interest)



- Design of strengthened, single mode fiber optic cabling for underwater applications
- Large scale production of fiber optic cabling
- Precision winding of optical fiber to accommodate unique space constraints, deployment methods, or very long lengths
- Fiber optic connectors or simple interconnect methods to connect two packs serially
- U.S. produced electro-optical media converter

PMS404 requests vendors with relevant expertise and experience submit a white paper describing specific details of vendors' subject matter expertise. Point of contact for further discussion is Katherine Stankus, PMS404, (202) 781-5008, katherine.f.stankus.civ@us.navy.mil





# **Code 85 Projected Contract Details**



# **Competitive Acquisition Forecast**



# Presented by C/85 Technical Department Acquisition Advocate

Contract	Туре	Scope	PoP w/ options	Projected RFP
Program and Financial Mgmt Svcs	SeaPort	\$8.9M	Five years	FY23 QTR 3
Torp Systems, Fleet Eng Sppt, & Admin Svcs	SeaPort	\$54.1M	Five years	FY23 QTR 3
UW/UD Family of Systems MAC	MAC IDIQ	\$720M	Eight years	FY23 QTR 4



## **Program & Financial Mgmt Services**



- Summary of Contract Scope: Program and Financial Management Services for \$8,935,220
- Contracting Method: SeaPort Task Order
- Anticipated Period of Performance: 5 years (1 base year and 4 option years)
- Acquisition Strategy: TBD (previous order was full & open)
- **Level of Effort**: 96,450 hours
- **Anticipated work location**: 90% on-site/10% contractor site requirement
- **Contract Type**: both CPFF and FFP elements
- **Follow on?** Yes, N00178-04-D-4119/N66604-18-F-3016, awarded to SAIC
- **Does OCOI clause apply?** No
- **Expected RFP release**: FY23 QTR 3



## **Torp Systems, Fleet Eng Sppt, & Admin Svcs**



- Summary of Contract Scope: Torpedo Systems, Fleet Engineering Support, and Administrative Services for \$54,105,000
- **Contracting Method**: SeaPort Task Order
- Anticipated Period of Performance: 5 years (1 base year and 4 option years)
- Acquisition Strategy: TBD (previous order was SB set-aside)
- **Level of Effort**: 802,700 hours
- **Anticipated work location**: 90% on-site/10% contractor site requirement
- **Contract Type**: both CPFF and FFP elements
- **Follow on?** Yes, N00178-04-D-4083/N66604-19-F-3002, awarded to MRC
- **Does OCOI clause apply?** No
- **Expected RFP release**: FY23 QTR 3



# UW/UD Family of Systems MAC (1)



- Summary of Contract Scope: Much larger than current "Mini-MAC" Family of Systems, about \$720M of cost ceiling, but similar tasking scope to the Mini-MAC. Functional Areas are listed on the next slide.
- Contracting Method: MAC IDIQ "Family of Systems"
- Anticipated Period of Performance: 8 years (anticipating an on-ramp period halfway)
- Acquisition Strategy: Full & Open (with potential for set-asides at the order level)
- Level of Effort: 1,508,932 hours
- **Anticipated work location**: 10% on-site/90% contractor site requirement
- Contract Type: a range of CLIN options to include CPFF and FFP, as appropriate at the order level
- Unique Characteristics
  - Basic contracts awarded by Functional Area, which establishes eligibility to compete for orders in that Functional Area
- Follow on? Yes, the MAC constitutes basic contracts N66604-20-D-E001 through N66604-20-D-E017 with the following vendors: Barber Nichols Inc., Booz Allen Hamilton, L3Harris, Leidos, Leonard DRS, Lockheed Martin Sippican, MIKEL, Northrup Grumman Systems Corp, Progeny, QinetiQ, Raytheon, Rite Solutions, SAIC, SEACORP, SECHAN, Sonalysts, Systems Planning & Analysis
- Does OCOI clause apply? No
- Expected RFP release: FY23 QTR 4



# UW/UD Family of Systems MAC (2)



#### **Functional Areas**

Services and supplies under this contract are for research, development, prototyping, operations, maintenance, upgrades and all life cycle phases for the UW/UD FoS and include the following Functional Areas:

- 1. Payloads
- 2. Hull and Structure
- 3. Propulsion
- 4. Energy Storage and Conversion
- 5. Electrical Power
- 6. Software
- 7. Non-Payload Sensors
- 8. Guidance and Control System
- 9. Launch Platform Interface and Shipboard Systems
- 10. Ancillary and Test Equipment
- 11. Modeling and Simulation
- 12. Data Analytics

So far, under the Mini-MAC, we've awarded 6 orders amongst 5 vendors, with orders touching on 8 different Functional Areas.





# **Questions?**