

Undersea Warfare (USW) Electromagnetic Systems Department (Code 34) Overview

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USW Electromagnetic Systems



Mission/Purpose

Serve as the Navy's principal activity for developing, acquiring, installing, modernizing and maintaining the world's most capable USW Electromagnetic systems including Antennas, Periscopes, Electronic Warfare, Communications, Electro-Optics Systems, and Electromagnetic Compatibility

Vision

Dominance of Electromagnetic Spectrum

USW Electromagnetic Systems Department Description

The Undersea Warfare Electromagnetic Systems Department (Code 34) serves as the U.S. Navy's principle research, development, test and evaluation (RDT&E) agent and conducts and manages a full spectrum program for undersea warfare communications and electromagnetic systems. This includes antennas, periscopes, electronic/information warfare, electro-optics systems, and electromagnetic compatibility for submarines, unmanned vehicles, undersea warfare networks and distributed undersea warfare systems and sensors.

Product Areas & Roles



IMAGING (AEA, TDA, ISEA)

- Integrated Submarine Imaging Systems (ISIS)
- MTI Photonics Mast (PMP, PMV)
- Low Profile Photonics Mast (LPPM)
- Hull Penetrators/Dip Loops
- National Maintenance
- Imaging and Sensor Development



ELECTRONIC WARFARE (AEA, TDA, ISEA, ATD)

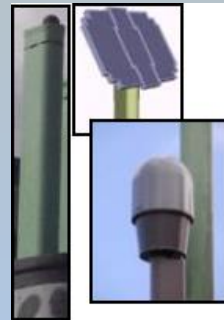
- AN/BLQ-10
- RADAR
- Surveillance Sensors
- Signature Reduction
- Periscope & Imaging Mast
- Automatic Direction Finders
- UxS Sensors
- Information Warfare
- Special Projects
- Advanced Development

COMMUNICATIONS (LSI, AEA, TDA)

- Common Submarine Radio Room Integration & Test
- Communications at Depth
- Submarine SATCOM
- Submarine ADNS SE (IP WAN)
- UUV & Sensor Communications
- Interior Communications Systems
- Submarine Comms & Antenna TDA
- Special Projects & Assessments

COMMUNICATIONS ANTENNAS (AEA, ISEA, TDA)

- Multifunction Mast (OE-538)
- SubHDR (OE-562A)
- Periscope EHF Antenna (OE-499)
- Submarine Antenna Technology
- Towed Buoys/ Buoyant Cable
- Off-Board Sensors
- Special Projects
- Expendable/Tethered Buoys



ELECTROMAGNETIC ENVIRONMENTAL EFFECTS (E3)

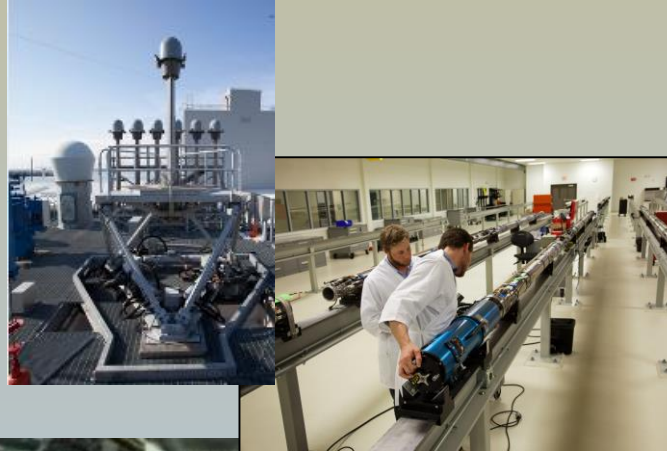
- Electromagnetic Compatibility
- EMI Assessments/Testing

Major Facilities

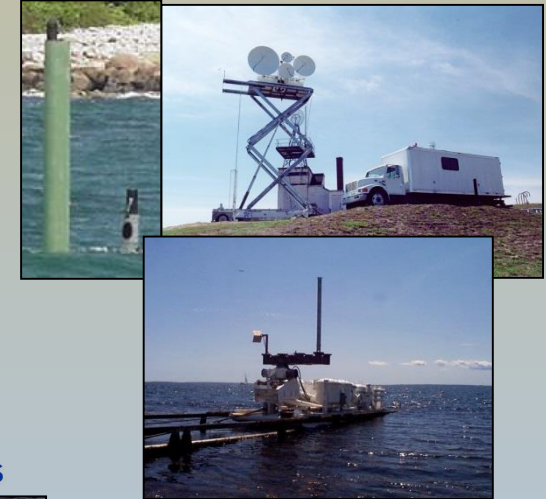
Overwater Arch



Electromagnetic Sensor Facility



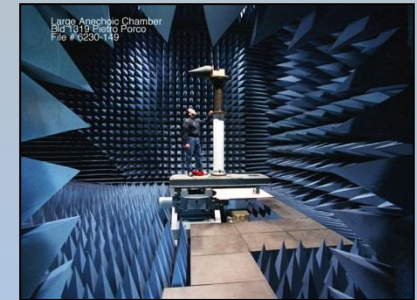
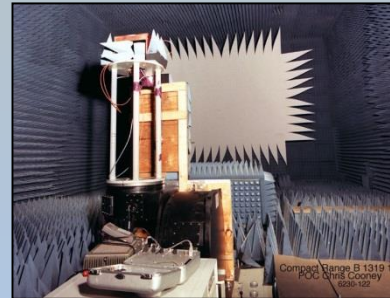
**Fishers Island, NY
Overwater Sled**



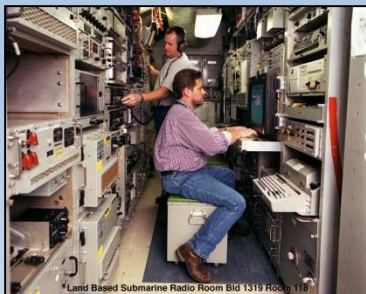
Submarine Radio Rooms



RF Test Chambers



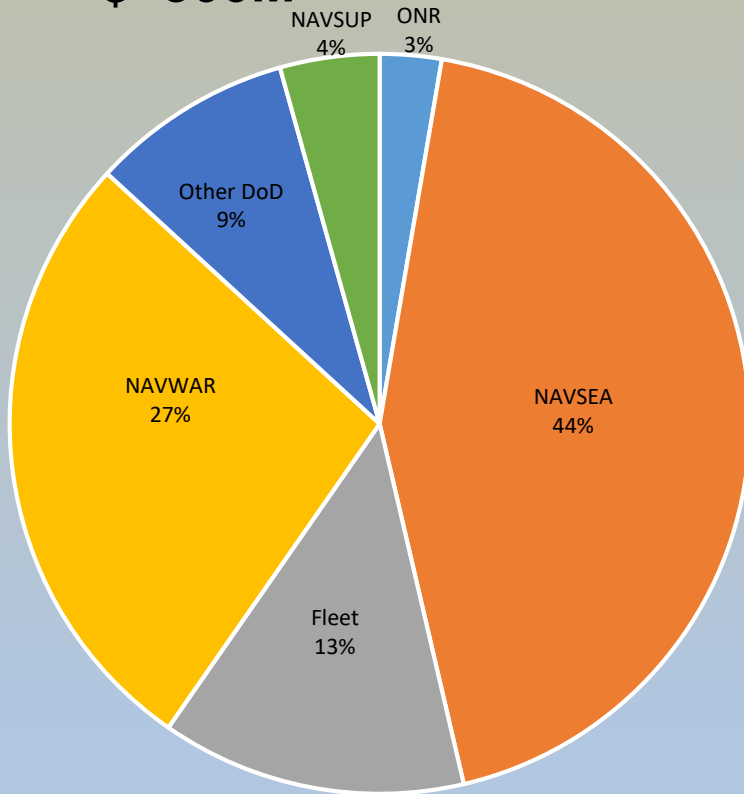
**EW Test
Facilities**



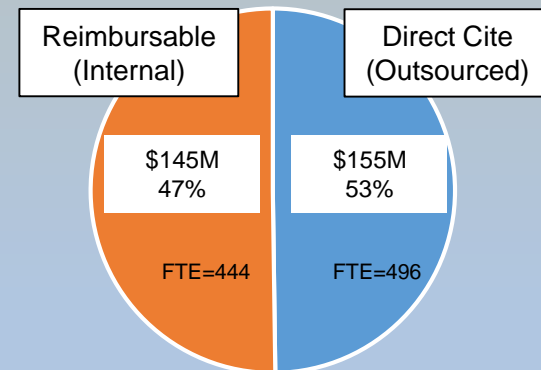
USW Electromagnetic Systems

Code 34 Business Profile

Our FY24 Customers \$~300M



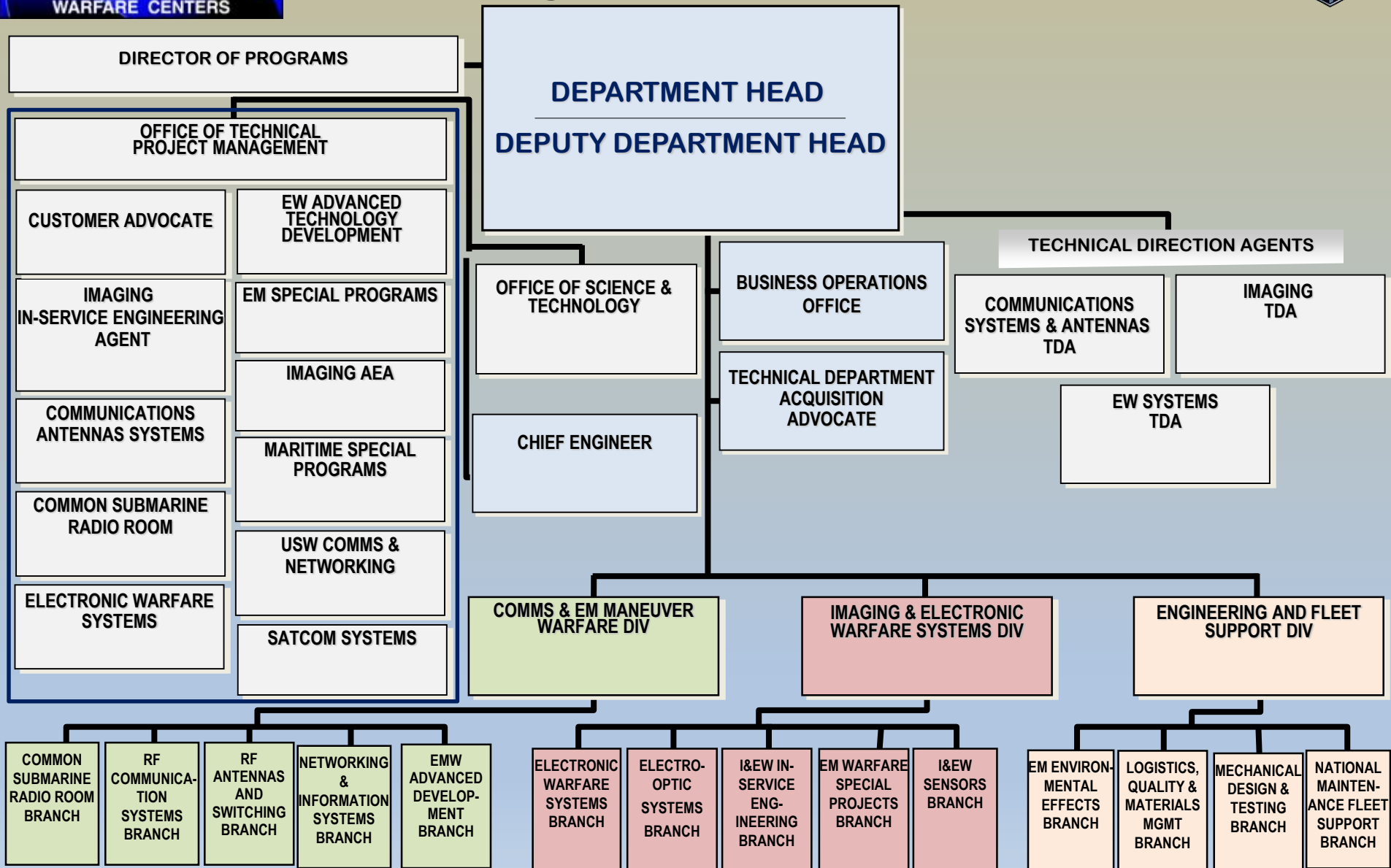
- Total workforce of 444 personnel (FY24 & FY25)
 - 95% of the workforce are scientists, engineers and technicians with 112 advanced degrees
- ~ 53% of total program funding is outsourced
- Demand signal is strong and is projected to continue to increase



Code 34 maintains a strong business partnership with industry to provide best value to our customers



USW Electromagnetic Systems Department





Contract Portfolio



- Portfolio is Program Centric
 - Primarily buy services
 - Contracts are mostly aligned with 34 Programs AORs
 - Scopes are Program/Systems Engineering and Technical Services
 - Mostly Seaport NXG
- We do have several Department wide Services Contracts (none this cycle)
 - Scopes are not Program/Systems specific
 - Broad use across Department and mostly non-Engineering
- We have a few 'self contained' Program/Project contracts
 - These are driven by higher classification levels (TS/SCI) and Fleet support
 - These are special projects and usually have significant GFP (shipsets)
- We have a number of IDIQ production, spares and repair contracts
 - Most are sole source to the OEM in support of our Repair Facilities
 - We are increasing our BPAs and IDIQs to provide BTP/TTS parts

EVERYTHING PRESENTED IS PRELIMINARY!! THE RFP IS WHAT THE OFFICIAL REQUIREMENTS FOR THESE WILL BE!!



LRAE Overview



Title	RFP Release (Planned)	Current Contract/TO#	Last RFP#	Est. Ceiling \$
Ant RFDACS Spares IDIQ (FO)	FY25 Q1	N6660420DR000	N6660420R0339	~\$55M (MAC)
EW Lab Svcs (FO)	FY25 Q2	N0017819D8361 N6660421F3012	N6660420R3013	~\$10M
SP NIT Eng & Fleet Svcs (FO)	FY25 Q3	N0017819D8361 N6660421F3011	N6660420R3019	~\$50M
SatCom Eng & Tech Svcs (FO)	FY25 Q3	N0017819D8498 N6660421F3007	N6660421R3001	~\$60M
I&EW Eng & Tech Svcs (FO)	FY25 Q3	N0017819D8424 N6660424F3004	N6660423R3008	~\$150M (5yr)
Ant Eng & Tech Svcs (FO)	FY25 Q3	N0017819D8411 N6660422F3000	N6660420R3015	~\$55M
SP EM Eng & Fleet Svcs (FO)	FY26 Q1	N0017819D8623 N6660422F3011	N6660422R3002	~\$55M
Comms Eng & Tech Svcs (FO)	FY26 Q1	N0017819D8690 N6660422F3016	N6660421R3015	~\$45M

Ant RFDACS Production/Spares (FO)



- Antenna Radio Frequency Distribution and Control System (RFDACS). Build to Print (BTP) and Test to Specification (TTS) for Level III Technical Data Package (TDP) for new shipsets and spare parts. Multiple ECPs anticipated during ordering period due to COTS obsolescence and Fleet requirement changes.
- MAC IDIQ / 5yr ordering period / Unrestricted / \$55M
- Primarily FFP Systems-Spares w/ some CPFF Eng Svcs for NRE
- Unique Characteristics
 - Manufacturing capabilities (at Ktr facilities)
 - Strong DMSMS capabilities (COTS obsolescence)
 - Multiple ECP/NORs agility during production run
 - Proactive Supply Chain Management experience
- Follow on to N66604-20-D-R000 (SERCO)
 - Awarded Contract Solicitation Number: N66604-20-R-0339
- Expected RFP release FY25 QTR 1

EW Lab Svcs (FO)

- Fixed and Mobile (Electronic Warfare) EW Lab operations support; System Admin, Lab CM, Calibration, Mobile Lab maintenance, Test Coordination and Readiness, Equipment tracking and shipment, Test Event support, Disaster Recovery and Contingency Operations. “Keep the lights on and the labs ready to support testing”
- Seaport NXG / 5yr POP / Small Biz / 40K hrs
- FFP/CPFF / \$10M / 15% ODC/Labor
- Unique Characteristics
 - Info Assurance Techs (IAT)
 - CDL Drivers to drive the Mobile Labs (Vans)
 - Equipment CM tracking, calibration, event scheduling & coordination
- Follow on to N00178-19-D-8361 / N66604-21-F-3012 (Purvis)
 - Awarded Contract Solicitation Number: N66604-20-R-3013
- Expected RFP release FY25 QTR 2

SP NIT Eng & Fleet Svcs (FO)

- Engineering and Fleet Services for the Special Projects (SP) Network and Information Technology (NIT) programs. Lifecycle support of NIT shipboard equipment including TEMPALTs, Carry-On augmentation equipment, SOVT and cyber security accreditations.
- Seaport NXG / 5yr POP / Unrestricted / 350K hrs
- CPFF / \$50M / 100% ODC/Labor
- Unique Characteristics
 - Cyber Security workforce
 - TEMPALT and Fleet support of NIT shipsets and carry-on equipment
 - Extensive Shipset GFP with maintenance and upgrade tasking
 - Extensive TDY and CAP->GFP ODC efforts
- Follow on to N00178-19-D-8361 / N66604-21-F-3011 (Purvis)
 - Awarded Contract Solicitation Number: N66604-20-R-3019
- Expected RFP release FY25 QTR 3

SatCom Eng & Tech Svcs (FO)

- Engineering and Technical Services for the Satellite Communications (SatCom) programs. SubHDR National Maintenance Center (NMC), SatCom Integration Facility (SESIF), Submarine Mast Motion Table (SMMT) and broad spectrum SatCom Engineering and Technical services support.
- Seaport NXG / 5yr POP / Unrestricted / 450K hrs
- CPFF / \$60M / 20% ODC/Labor
- Unique Characteristics
 - NMC, SESIF & SMMT repair and test facility expertise
 - Fleet SatCom Engineering and Technical support
 - NMC Inventory management
- Follow on to N00178-19-D-8498 N66604-21-F-3007 (Serco)
 - Awarded Contract Solicitation Number: N66604-21-R-3001
- Expected RFP release FY25 QTR 3

I&EW Eng & Tech Svcs (FO)

- Engineering and Technical Services for the Imaging, Electronic Warfare (EW) programs (I&EW). There will be added scope and LOE for RADAR and EW ATD programs/projects. Support across TDA, AEA and ISEA areas of responsibility.
- Seaport NXG / 5yr POP / Unrestricted / 1,500K hrs
- CPFF / \$150M / 30% ODC/Labor
- Unique Characteristics
 - Multiple key personnel w/ exp in Imaging, EW and RADAR systems
 - Prototyping and Moderation Facilities
 - Integrated I&EW/RADAR systems expertise
- Follow on to N00178-19-D-8424 / N66604-24-F-3004 (Rite-Solutions)
 - Awarded Contract Solicitation Number: N66604-23-R-3008
- OCOI may apply to subsequent Sponsor Production Contracts
- Expected RFP release FY25 QTR 3

Ant Eng & Tech Svcs (FO)

- Engineering and Technical Services for the Antenna programs. Broad scope from experimental design and test, development, production support, in service and overhaul. Support across S&T, ATD, TDA, AEA and ISEA areas of responsibility.
- Seaport NXG / 5yr POP / Unrestricted / 450K hrs
- CPFF / \$55M / 25% ODC/Labor
- Unique Characteristics
 - Multiple key personnel w/ exp across a range of Antenna technologies
 - Challenging tasking fitting lots a performance in small volume
 - Experimental S&T, RDT&E, AEA, ISEA and Repair Facility SMEs
- Follow on to N00178-19-D-8411 / N66604-22-F-3000 (RDSI)
 - Awarded Contract Solicitation Number: N66604-22-R-3015
- Expected RFP release FY25 QTR 3

SP EM Eng & Fleet Svcs (FO)

- Engineering and Fleet Services for the Special Projects (SP) Electronic Warfare (EW) and augmentation systems supporting Fleet TEMPALT systems and carry-on equipment, UAVs and Buoy Systems. Broad spectrum support from development, test, installation, repair, maintenance, upgrade and fleet technical support.
- Seaport NXG / 5yr POP / Unrestricted / 300K hrs
- CPFF / \$55M / 75% ODC/Labor
- Unique Characteristics
 - TEMPALT and Fleet support of shipsets and carry-on equipment
 - Extensive Shipset GFP with maintenance and upgrade tasking
 - Extensive TDY and CAP->GFP ODC efforts
- Follow on to N00178-19-D-8623 / N66604-22-F-3011 (SeaCorp)
 - Awarded Contract Solicitation Number: N66604-22-R-3002
- Expected RFP release FY26 QTR 1

Comms Eng & Tech Svcs (FO)

- Engineering and Technical Services for the Communication (Comms) programs. These include Exterior, Internal and Undersea Comms systems for the Design Agent (DA), TDA and AEA and various ATD and Special Projects.
- Seaport NXG / 5yr POP / Unrestricted / 450K hrs
- CPFF / \$45M / 15% ODC/Labor
- Unique Characteristics
 - Key personnel with KSA in Submarine Radio Rooms and Networks
 - DA Radio Room build, test and baseline for multiple versions
 - Tech Assists to AEA, ISEA and Fleet support Activities
- Follow on to N00178-19-D-8690 / N66604-22-F-3016 (TCI)
 - Awarded Contract Solicitation Number: N66604-21-R-3015
- Expected RFP release FY26 QTR 1

TDAA Closing Comments



- 34's Portfolio is mature and we are doing follow-ons with similar scope, similar LOE, similar ceilings.
- The new RFPs are very likely to be similar to the last RFP
 - Get the last RFP
 - Read the last RFP
 - Be Ready for a similar RFP
- The SSEB Teams will (just like your capture teams)
 - Read the RFP and create a list all the RFP questions
 - Evaluated whether your bid answered the questions
 - Please answer the questions the RFP asks
- 34 is a heavily leveraged Department and depends on our contractors to provide a considerable amount of Engineering, Technical and Fleet services for our multiple programs.
 - We have complex missions to deliver to the Fleet
 - We can't do it without our Contractor Partners
 - Bid, win and join the 34 Team