



# Industry Day Brief

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**Propulsion, Power, & Auxiliary Machinery, Department 40**

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Distribution Statement A: Approved for public release: distribution unlimited



# Department 40

## Propulsion, Power & Auxiliary Systems

### **Mission Statement:**

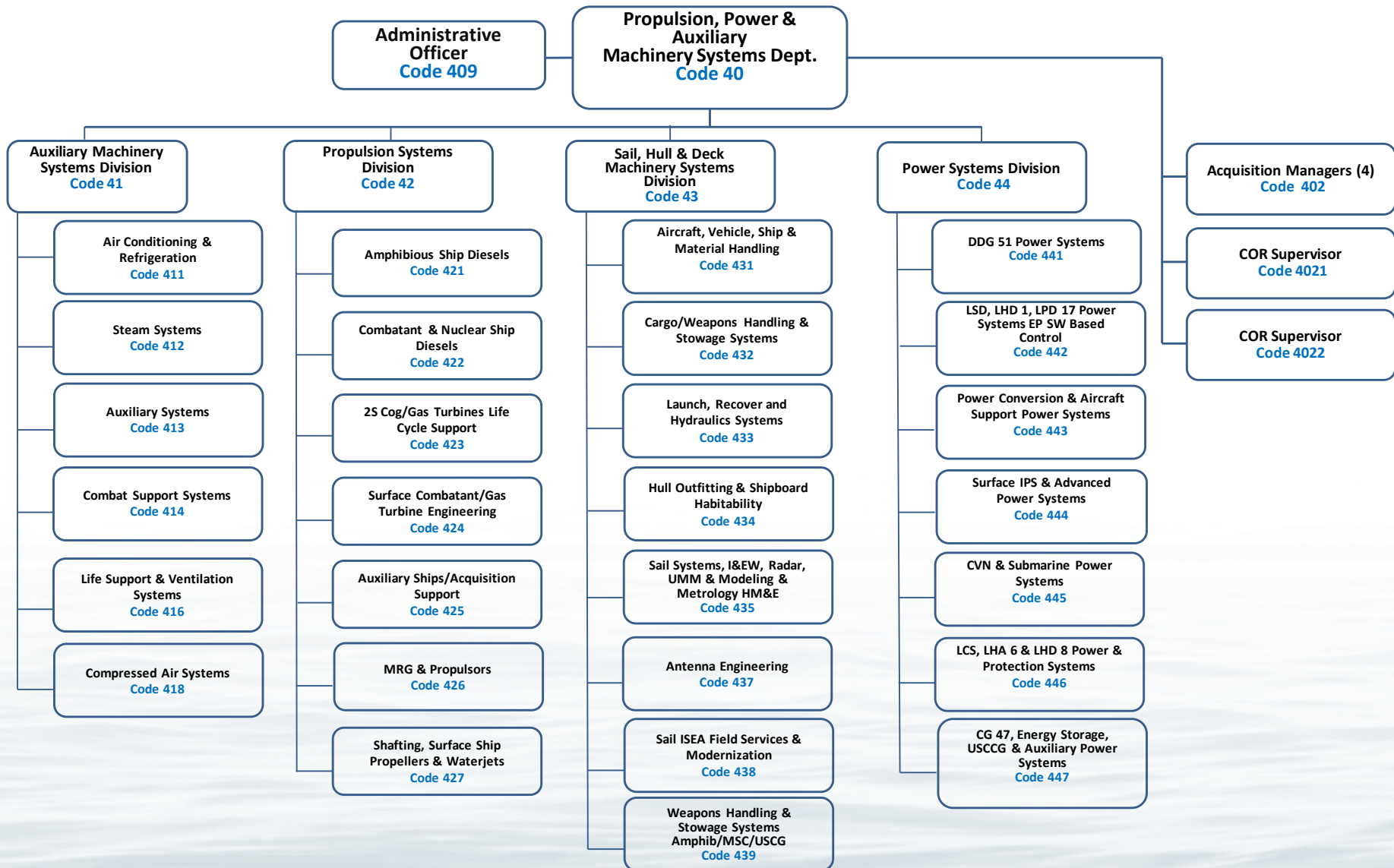
Provide the Navy with Superior Engineering Solutions and Technologies for Propulsion, Power, Auxiliary and Machinery Systems to make our ships and systems operationally superior and affordable throughout their life cycle

### **Vision Statement:**

NAVSEA's Life Cycle Engineering, Technology and Innovation Leader  
Providing superior machinery systems integration for Propulsion,  
Power, Auxiliary and Machinery Systems



# Propulsion, Power & Auxiliary Machinery Systems Department – Code 40 Organizational Chart



# Propulsion, Power & Auxiliary Machinery – Dept 40

## Expanding the Advantage

OTD of Ships/Subs Warfighting Capability & Reliability Cybersecurity Affordability HVL



- High Efficiency Small Capacity – Chiller (HES-C)
- Thermal Management
- Air Conditioning & Refrigeration
- Fluid Distribution Systems
- Compressed Air Systems/Dehydrators



- Advanced CO2 Removal Unit (ACRU)
- Low Pressure Electrolyzer (LPE)
- Central Atmospheric Monitoring System (CAMS)



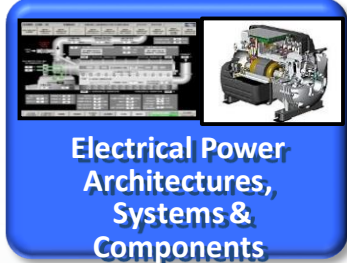
- Full Scale Propulsion Testing
- Propulsion Executive Steering Committee (PESC)
- Marine Gas Turbine, Diesel, Steam, Power Transmission Inspector Program
- Columbia Class Shafting / Propulsor Design Team



- MGTIS/WEBLOG
- Main Propulsion Shaft Procurement
- Marine Gas Turbine (RADCON) Asset Restoration
- Organic/Commercial Depot Management (MGT & Power Train Overhaul)



- CBM+
- Diesel Readiness System (DRS)
- Diesel Maintenance Strategy (DMS)
- Kaplan Meier Survivability Analysis

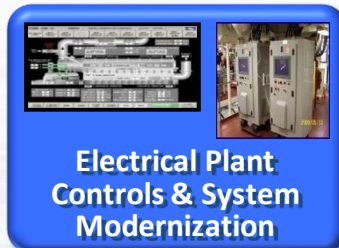


- Electrical Power Competency for Nuclear Ship Applications
- Power Generation, Distribution, Automation
- Electric Drive Propulsion
- High Power Mission Load Interface

Providing affordable, timely, quality engineering, acquisition, repair, modernization & testing services for Propulsion, Power Generation, Auxiliary, and Hull & Deck machinery systems aboard Surface Ships, Aircraft Carriers & Submarines throughout their lifecycle



- Columbia Class Towed Buoy Design Lead
- Payload Handling Systems
- Universal Modular Mast
- Sail System Waterfront ISE
- Towed Buoy Land Based Test Site
- Legacy Towed Buoy Improvement Program



- Engineering of Architectures, System & Component Upgrades
- Electric Plant Management & Control System
- Power System Protection
- Power Electronics
- Active Load Management



- Sanitary / Berthing / Food Service Habitability Repair Contracts
- New Construction Initial Outfitting



- Advanced Weapons Elevator
- Cargo/Weapons, Aircraft Elevators, Upgrades
- Launch & Recovery Systems
- Hydraulic Systems

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## Competitive Contract Requirements – Projected FY21 Announcements

Brief Description	ROM	Anticipated Announcement Date (FY/QTR)	Requiring Technical Code
MRS Hardware for LHDs	\$25M	FY21/Q2	411
Engineering and OSR Support 8(a)	\$20M	FY21/Q2	425
Engineering and Technical Services for Surface Combatant and Carrier Weapons Handling Systems	\$25M	FY21/Q2	432
Engineering and Technical Services for Steering/Hydraulics (SEAPORT)	\$25M	FY21/Q2	433
Engineering and Technical Services for Cranes/Boat Handling (SEAPORT)	\$25M	FY21/Q2	433



## Competitive Contract Requirements – Projected FY21 Announcements

Brief Description	ROM	Anticipated Announcement Date (FY/QTR)	Requiring Technical Code
Test and Assembly of Tow Cable (Multi-year IDIQ)	\$10M	FY21/Q2	437
LPD Small Arms Lockers Material Contract	\$5M	FY21Q1	439
Circuit Breakers	\$60M	FY21/Q1	442
Service Contract for repair and rewind electrical equipment	\$45M	FY21/Q1	445
Engineering services and repair of Degaussing Systems (multiple ship classes)	\$20M	FY21/Q2	447
Material Procurement – UPS and Battery Units	\$1M	FY21/Q2	447

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