



Industry Day Brief

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October 2020

Distribution Statement A: Approved for public release: distribution unlimited



Department 20

Machinery Programs and Platforms

Mission Statement:

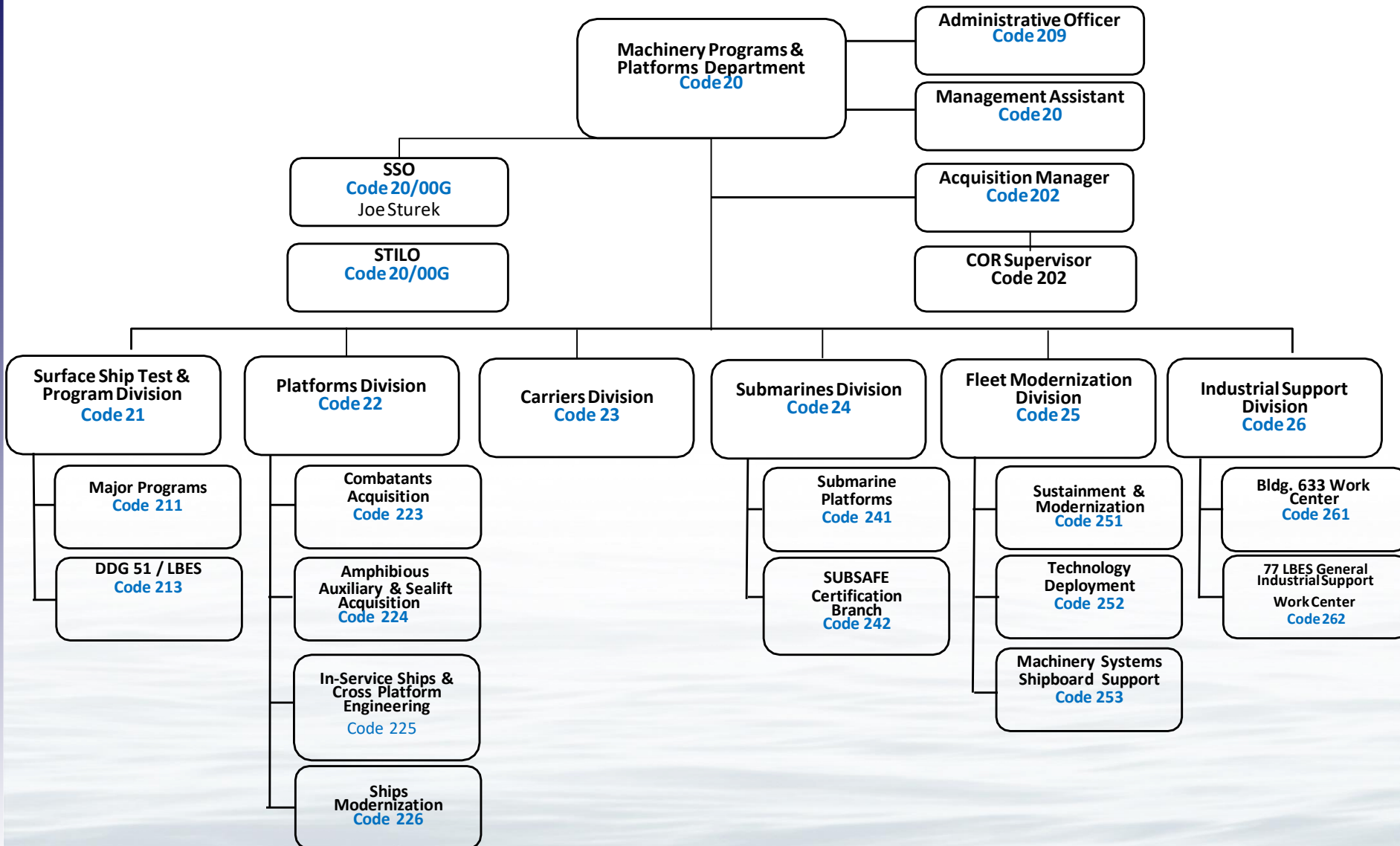
Provide program and platform leadership to the Command and the Navy to execute Hull, Mechanical and Electrical (HM&E) Machinery System integration initiatives through the successful management of Research and Development, Acquisition, Test and Evaluation, In-Service Engineering and Modernization programs. These programs allow NSWCPD to remain as the Navy's primary choice for HM&E Machinery Systems Engineering.

Vision Statement:

Provide superior machinery systems integration for the Navy using high quality program and platform management practices which focus on acquisition, Fleet readiness, sustainment, modernization, testing, system integration and financial accountability



Machinery Programs & Platforms Department – Department 20 Organizational Chart



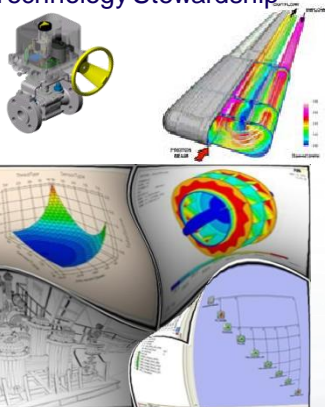
Full Spectrum Engineering

Build An Affordable Future Fleet

Sustain the Current Fleet

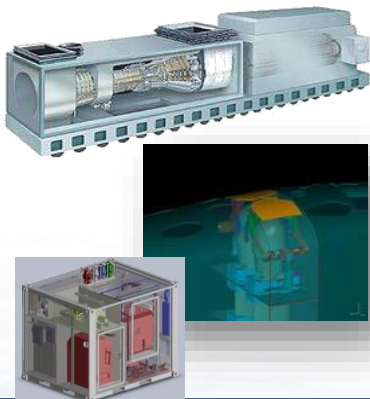
Science & Technology

- Applied Research
- System Research/Analysis
- Concept Exploration and Design Studies
- Distributed Computation & Predictive Modeling
- Systems Technology Development Roadmaps
- Cooperative Research with Industry and Academia
- Technology Stewardship



Research & Development

- Proof of Concepts
- Hardware & Component Development
- Proof of Principle Demonstrations
- Advanced Machinery Systems Integration
- Analysis of Alternatives
- Center for Innovative Machinery Design and Integration (CIMDI)



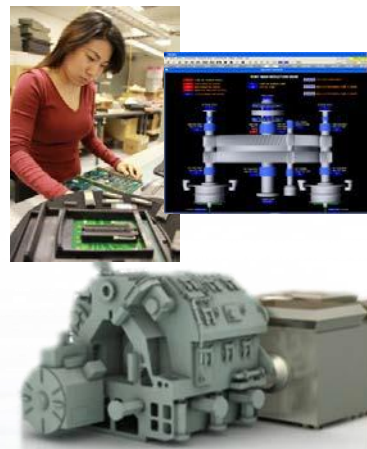
Test & Evaluation

- Over 120 Test Facilities
- Full Scale Machinery System Testing
- Total Life Cycle HM&E System Design, Test, and Evaluation
- Shipboard System Testing
- Qualification Testing
- Operational Assessment
- Systems and Software Verification and Validation



Engineering

- Systems Engineering
- Software Development
- Integrated Systems Design
- Ship Design and Acquisition Support
- Life Cycle Management and Technical Health Assessment
- Modeling and Simulation



Fleet Support

- Emergent Engineering Support
- Ship Modernization
- Integrated Logistics Products
- Machinery Maintenance Requirements
- Condition Based Maintenance and Assessment
- Training



Facility Complexes

Propulsion & Power Systems



Auxiliary & Life Support Systems



Machinery Network, Sensors & Data Systems



Undersea Vehicle Sail & Deployed Systems



Cargo, Weapons Handling & Hull Systems



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NAVSEA WARFARE CENTERS



Competitive Contract Requirements

Department 20 Projected FY 21 Announcements

Description	ROM	Anticipated Announcement Date (FY/QTR)	Requiring Technical Code
Test Site Design	\$25,000,00	21/Q3	21
Major Test Site Equipment refurbishment	\$70,000,000	21/Q4	21
Integrated Master Schedule Support	\$35,000,000	21/Q4	22
Ship Modernization Programmatic Support	20,000,000	21/Q1	226
Ship Modernization Waterfront Support	\$20,000,000	21/Q1	226

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Naval Foundry and Propeller Center

Mission Statement:

Designs and manufactures advanced propulsion components for the U.S. Navy. NFPC specializes in advance propulsion engineering, castings and precision machining





NAVSEA WARFARE CENTERS

Competitive Contract Requirements NFPC Projected FY 21 Announcements

Description	ROM	Anticipated Announcement Date (FY/QTR)	Requiring Technical Code
Refractory Tile	\$535K	FY21/Q2	NFPC
Isothermic/exothermic risers	\$250K	Fy21/Q2	NFPC
K-Monel Hardware	\$250K \$250k	FY21/Q2 FY21/Q3	NFPC
Misc Hardware	\$250K	FY21/Q3	NFPC

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