Industry Day Brief

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Department 20

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Machinery Programs & Platforms – Department 20
& Naval Foundry and Propeller Center

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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.
## Full Spectrum Engineering

### 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
## Competitive Contract Requirements

**Department 20 Projected FY 21 Announcements**

<table>
<thead>
<tr>
<th>Description</th>
<th>ROM</th>
<th>Anticipated Announcement Date (FY/QTR)</th>
<th>Requiring Technical Code</th>
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</thead>
<tbody>
<tr>
<td>Test Site Design</td>
<td>$25,000,00</td>
<td>21/Q3</td>
<td>21</td>
</tr>
<tr>
<td>Major Test Site Equipment refurbishment</td>
<td>$70,000,00</td>
<td>21/Q4</td>
<td>21</td>
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<tr>
<td>Integrated Master Schedule Support</td>
<td>$35,000,00</td>
<td>21/Q4</td>
<td>22</td>
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<tr>
<td>Ship Modernization Programmatic Support</td>
<td>20,000,000</td>
<td>21/Q1</td>
<td>226</td>
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<tr>
<td>Ship Modernization Waterfront Support</td>
<td>$20,000,00</td>
<td>21/Q1</td>
<td>226</td>
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</table>
Mission Statement:

Designs and manufactures advanced propulsion components for the U.S. Navy. NFPC specializes in advance propulsion engineering, castings and precision machining.
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<tr>
<td>Refractory Tile</td>
<td>$535K</td>
<td>FY21/Q2</td>
<td>NFPC</td>
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<tr>
<td>Isothermic/exothermic risers</td>
<td>$250K</td>
<td>FY21/Q2</td>
<td>NFPC</td>
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<tr>
<td>K-Monel Hardware</td>
<td>$250K</td>
<td>FY21/Q2</td>
<td>NFPC</td>
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<tr>
<td>Misc Hardware</td>
<td>$250K</td>
<td>FY21/Q3</td>
<td>NFPC</td>
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