DEPARTMENT 30
OVERVIEW AND
CONTRACTS FORECAST

Theresa Steck
Machinery Research, Logistics & Ship Integrity, Department 30

11 May 2016
Machinery Research, Logistics & Ship Integrity Department - Code 30

Machinery Research, Logistics & Ship Integrity Department
Code 30
Thomas Perotti

Integrated Logistics Engineering, Readiness & Training Division
Code 31
Dawn Ware

Logistics Integration & ILS Certifications
Code 311
Kenneth Kucowski

Training & Logistics Knowledge Management
Code 312
Thomas Bodman

Provisioning & Supply Support
Code 315
Brian Finley

PMS & ILS Feedbacks
Code 316
Albert DiFelice

Automation & Controls R&D
Code 321
Timothy Scherer

Electric Power R&D
Code 322
Lyle Plesnick

Machinery Technology R&D
Code 323
Daniel Evans

Machinery Silencing R&D
Code 324
Alan Palmer

Energy Conversion R&D
Code 325
Audrey Bauer

Advanced Machinery Systems Integration
Code 326
Timothy Klingensmith

Research Programs
Code 327
Lisa Dalessandro

Machinery Research & Silencing Division
Code 32
Alfred Twardowski

Materials, Structures, Environmental & Protection Division
Code 33
Theresa Steck

Metallic Materials, Fuels/Lubes & Structural Integrity
Code 331
James Soisson

Corrosion & Coatings
Code 332
Jeffrey Duckworth

Advanced Machinery Systems Hardening
Code 333
Jeffrey Gosch

Solid Waste, P2 & HAZMAT ISE
Code 335
Timothy Kurylo

Damage Control, Recoverability & Chem Bio Defense
Code 336
Joseph Roche

Wastewater ISE
Code 334
Ramon (Tony) Morales

Materials, Structures, Environmental & Protection Division
Code 33
Theresa Steck

Operational Procedures
Code 313
John Ayres

Technical Manuals
Code 314
Naeemah Abdur Rauf

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Mission Statement:
Provide leadership, management, and execution of the Navy’s Machinery Hull, Mechanical and Electrical (HM&E) research and development, ship integrity, environmental compliance and protection, system calibration, and logistics and training initiatives. These programs and products support the Command’s core equities and technical capabilities, which will allow NSWCPD to remain the Navy’s primary choice for HM&E Machinery Systems Engineering.

Vision Statement:
Naval machinery engineering excellence through affordable research and development, logistics, and ship integrity solutions.
Division 31 – Integrated Logistics Engineering, Readiness & Training

31 Division Head
Dawn Ware

311 Logistics Integration & ILS Certifications Branch
Ken Kucowski
- Logistics Process Management
- Availability ILS Support for Surface Fleet, Aircraft Carriers & Submarines

312 Logistics Knowledge Mgmt Branch
Tom Bodman
- ILS Knowledge Management/NAVLOGTD
- Remedy/Distance Support
- NAVSEA Enterprise Commonality

313 Operational Procedures Branch
John Ayres
- Steam, Diesel, Gas Turbine, and Auxiliary EOSS
- SDOSS, AFOSS, CTOSS, FOSS, BOSS, etc.
- EOSS Feedbacks & semi-annual updates

314 Technical Manuals Branch
Naeemah Abdur Rauf
- Surface, Submarine, Carrier Tech Manuals, and NSTMs
- TM Deficiency/Evaluation Report (TMDER) processing
- Technical Manual Maintenance Activity (TMMA)

315 Provisioning & Supply Support Branch
Brian Finley
- TSA for Surface Ship, Submarine, and Carrier Provisioning
- Diminished Manufacturing Sources & Material Shortages (DMSMS)

316 PMS and ILS Feedbacks Branch
Skip DiFelice
- Surface Ship, Submarine and Carrier PMS
- ILS Feedbacks Processing
- Specifications & Standards Management

317 Shipboard Instrumentation & System Calibration (SISCAL) Branch
Ed Gormley
- Engineering Agent – Shipboard Calibration Programs
- Develop Hull-Specific Calibration Requirements Lists (CRLs)
- Perform Initial and Tri-Annual MCS Calibration Navy-wide

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Machinery Research, Logistics & Ship Integrity Department - Code 30

Division 32 – Machinery Research & Silencing

321 Automation & Controls R&D Branch
Timothy Scherer
- Cybersecurity and Resilient Control of Machinery Systems
- Complex Machinery Control and Integrated Power Mgmt
- Autonomous and Agent Based Control Systems
- Control System Architectures and Design Methods
- Survivability and Recoverability Analysis
- Unmanned System Control
- Advanced Sensor Technologies
- High Energy Electrical Systems
- Electric Machinery
- Power Generation, Distribution & Conversion
- Electric Actuation
- Electric Machinery & System Modeling & Simulation

322 Electric Power R&D Branch
Lyle Plesnick
- Machinery and Electrical Systems Modeling and Simulation
- Structural and Acoustic Measurement and Modeling
- Fluid System Silencing
- Undersea Power Systems
- Undersea Integrated Propulsion Systems

323 Machinery Technology R&D Branch
Daniel Evans
- Machinery Silencing Design
- Airborne & Structureborne Acoustic Modeling
- Machinery Vibration Prognostics
- Machinery Microbalancing
- Machinery Resilient Mounts
- Submarine Design Acoustic Assessment
- Acoustic Data Acquisition and Analysis

324 Machinery Silencing R&D & E Branch
Scott Palmer
- Energy Conversion and Recovery Systems
- Combustion Engine Technologies
- Advanced Life Support/Atmosphere Control
- Advanced Auxiliary Systems
- Electrochemical Power/Fuel Cells
- Chemical and Hybrid Energy Storage Modules
- Thermal Management
- Applied Superconductivity
- Membrane Separation Technologies

325 Energy Conversion R&D Branch
Audrey Bauer
- Machinery Systems Design, Eval & Optimization (SEAQUEST)
- Energy Fuel Consumption Calculators and Trade-off Analysis
- Model Scale Experiments to evaluate Machinery Design Concepts
- 3-D Modeling-Virtual and Immersive Environments
- Advanced Laser Metrology
- Additive Manufacturing/3D Printing

326 Advanced Machinery Systems Integration Branch
Timothy Klingensmith
- Research Programs

327 Research Programs Branch
Lisa Dalessandro
- Research Programs

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## Competitive Contract Requirements - Projected FY16 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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<tbody>
<tr>
<td>ILS Services for Naval Hull, Mechanical, Electrical, and Weapons Handling Systems and Equipment</td>
<td>$20-30M</td>
<td>FY16 / Q3</td>
<td>316</td>
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<tr>
<td>R&amp;D Engineering and Program Management Services</td>
<td>$10-20M</td>
<td>FY16 / Q3</td>
<td>325</td>
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<tr>
<td>Damage Control and Fire Protection Engineering Support Services</td>
<td>$5-8M</td>
<td>FY16 / Q3-4</td>
<td>336</td>
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<tbody>
<tr>
<td>Shipboard Weapons System Fire Protection, Fire Doctrine, and Fire Hazard Analysis Support</td>
<td>$5-8M</td>
<td>FY16 / Q3-4</td>
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<td>Motor Operated Pilot Valve Production</td>
<td>$7-12M</td>
<td>FY16 / Q4</td>
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<td>Post-Delivery ILS and Program Management Support</td>
<td>$35-45M</td>
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<td>Description</td>
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<tr>
<td>EOSS Support and Technical Documentation</td>
<td>$7-12M</td>
<td>FY17 / Q1</td>
<td>313</td>
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<tr>
<td>Information Technology and Cybersecurity Training</td>
<td>$5-10M</td>
<td>FY17 / Q1</td>
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<td>Blue Collar Services in Support of Materials, Structures, Environnmental &amp; Protection Programs</td>
<td>$35-50M</td>
<td>FY17 / Q1</td>
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<tr>
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<td>Lube Oil and Water Testing Services</td>
<td>$10-20M</td>
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<tr>
<td>Solid Waste Processing Equipment Services</td>
<td>$10-15M</td>
<td>FY17 / Q1-2</td>
<td>335</td>
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<td>Information Technology and Engineering Services</td>
<td>$10-15M</td>
<td>FY17 / Q2</td>
<td>321/326</td>
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<tr>
<td>Description</td>
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<td>White Collar Services in Support of Materials, Structures, Environmental &amp; Protection Programs</td>
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<td>FY17 / Q2-3</td>
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<td>New Acquisition Integrated Logistics Support</td>
<td>$10-20M</td>
<td>FY17 / Q3</td>
<td>314</td>
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