



National Shipbuilding Research Program

Program Update

Surface Preparation & Coatings
Panel Meeting

March 24-25, 2009

Atlanta, GA

Program Funding and Ops: 2009 & beyond

• FY 2009 Funding

- Not in Navy budget & no Congressional add
- PEOs (Ships, Carriers) have committed \$4.5M – *on board*
- \$700K for Documents for Ship Cost Reduction (Specs initiative)
- \$500K for Naval Engineering Education initiative (COMNAVSEA)
- \$500K for SecNav 'Culture of Quality' study (Asst SecNav for RDA)

• ECB Spending Decisions To Date

- Phase 2 of ongoing major (RA) projects
- Shipyards' engagement in Navy Product Data Initiative
- New round of panel projects
 - » \$777K, 9 projects covering 8 panels
 - » 4 additional projects on standby pending receipt of more funding
 - » Details follow...

NEW Panel Projects

2008 Selected Panel Projects

| Project | Participants | Panel | NSRP Funding |
|--|---|----------|------------------|
| Risk Reduction in the Primary Scantling Design and Approval Process for Structurally Complex Vessels | NASSCO, ABS | PDMT | \$99,876 |
| Implementation of Navy Standard Welding Procedures | Edison Welding Institute, NGSB-NN | Welding | \$97,014 |
| Retention of Pre-Construction Primer | Atlantic Marine, Elzly Technology Corporation, NASSCO, BIW, NAVSEA 05P23, NGSB-Gulf Coast | SPC | \$91,580 |
| Developing Emissions Factors for Electrodes Commonly Used within the Shipbuilding Industry for use in Regulatory Reporting | Concurrent Technologies Corporation, Penn State University Applied Research Laboratory, Softek Systems, Inc., BAE Systems Norfolk Repair, BIW | Env. | \$92,091 |
| Assessing the Need for 50% Relative Humidity during Tank Painting | Elzly Technology Corporation, Desert Polymers, NASSCO | SPC | \$47,687 |
| Ship Production Rigging Planning Guide | NASSCO, Bath Iron Works, Noran Engineering | SPPT | \$99,720 |
| Performance-Based Language for Preservative Coating Removal in New Construction Shipyards | Bath Iron Works, Collier Scott Shannon PLLC, Electric Boat, NASSCO, Northrop Grumman Shipbuilding Newport News, Northrop Grumman Shipbuilding Gulf Coast, Shipbuilders Council of America | FTRM | \$59,200 |
| Leadership 2010 - Improving Supervision | Alaska Ship & Drydock | Crosscut | \$89,800 |
| Interim SCIM and STEP Implementation | Intergraph Corporation, NGSB-GC, NGIT, Product Data Services Corporation, NSWCCD | Systems | \$99,870 |
| | | | \$776,838 |

Standby List

| Project | Participants | Panel | NSRP Funding |
|---|--|---------|--------------|
| Pilot Tool for Linking Ship Design to Shipyard Simulation | Mississippi State University, ShipConstructor USA, VT Halter, Bollinger, Bender Shipbuilding, Todd Pacific, Atlantic Marine, Northrop Grumman - GC | SPPT | \$98,813 |
| Comparison of SAW and Tandem Electrode Gas Shielded Processes for Productivity and Distortion in Thin Panel Butt Joints for Thin Panel Structures | Todd Pacific Shipyard, Nassco, CD-adapco, Weaver Engineering, Dwight Laboratories, Machinists Inc., ESAB, Wolf Robotics, Abicor Binzel Corp. | Welding | \$100,000 |
| Cost-Effective Specifications and Requirements Definition | ABS, NASSCO, BIW, NGSB, Bollinger, Victoria Dlugokecki, Malone Consulting, Tedesco Consulting | PDMT | \$100,000 |
| Vessel General NPDES Permit Applicability to Shipyard Vessels and Operations | BAE Systems Ship Repair Norfolk, CH2M HILL | Env. | \$28,000 |

~~Electrical Working Group~~ *Technologies Panel*

- **Both DPEO-Ships have expressed need for a group to address electrical problem areas in shipbuilding**
 - Recently IDed cableways, connectors, and splicing as particularly in need of greater efficiencies
- **7 ECB member yards reps IDed**
 - NGSB-NN Gary Zimak, Chair
 - NGSB-GC(A) Erik Bjorkner, Vice Chair
 - NGSB-GC(P) John Walks
 - BIW Greg Stevens
 - Bollinger Dennis Fanguy
 - EB Steve DiCarlo
 - NASSCO Ian Kelly
- **ECB approved forming a *NEW PANEL***

Documents for Ship Cost Reduction

- **Effort picking up speed**
- **NAVSEA working on**
 - Shock
 - Vibration/Noise
 - Welding (NVR Chp 8, MIL-STD-1689, -278)
 - Motors (MIL-M-17060)
 - Switchgear
 - MIL-STD-777 Schedule of Piping
 - Electromagnetic Interference & Environmental Effects
 - Radar Engineering
- **Planning on 15 SY visits by May 2009**
- **As 1 spec is finished, a new one takes its place**

Recent Meetings & Events

| <u>Dates</u> | <u>Event / Location</u> | <u>Comments</u> |
|--------------|---|----------------------------|
| Mar 9-11 | National Ship Repair Industry Conf <i>Washington, DC</i> | |
| Mar 10-11 | ShipTech 2009 <i>Biloxi, MS</i> | ECB speakers NSRP booth |
| Mar 11 | Product Design & Materials in conj. with DFP Workshop <i>Biloxi, MS</i> | Panel Meeting |
| Mar 12 | Electrical Technologies <i>Biloxi, MS</i> | Panel Meeting |

Upcoming Meetings & Events

| <u>Dates</u> | <u>Event / Location</u> | <u>Comments</u> |
|--------------|---|------------------------|
| Mar 24-25 | Surface Prep & Coatings <i>Atlanta, GA</i> | Panel Meeting |
| Apr 7-8 | Welding (sponsored by ESAB Welding) <i>Hanover, PA</i> | Panel Meeting |
| Apr 8-9 | ASNE Day 2009 <i>National Harbor, MD</i> | |
| May 6-7 | Shipyard Prod'n, Business, Systems Product Design & Mat'l, & Crosscut Initiatives <i>San Diego, CA</i> | Joint Panel Meeting |
| June 10-11 | Facilities, Tooling & Risk Management <i>New Orleans, LA</i> | Panel Meeting |

Upcoming Meetings & Events

| <u>Dates</u> | <u>Event / Location</u> | <u>Comments</u> |
|--------------|--|---------------------|
| Sept 15-17 | NSRP All-Panel Meeting <i>Philadelphia, PA</i> | Joint Panel Meeting |
| Oct 21-23 | SNAME Maritime Technology Conference & Expo <i>Providence, RI</i> | NSRP Booth |

For More Information -- *New, Improved** Website!

www.nsrp.org

The screenshot shows the homepage of the National Shipbuilding Research Program (NSRP). At the top, the logo features an American flag and the text "NATIONAL SHIPBUILDING RESEARCH PROGRAM" and "ADVANCED SHIPBUILDING ENTERPRISE". Below the logo is a search bar and the tagline "Reducing Naval Ship Construction & Repair Costs".

On the left side, there is a navigation menu with the following items: Home, About Us, Project Information, Ship Production Panels, Events, Industry Initiatives, Key Downloads, Links, and Contact Us. Below the menu is a "Quick Links" section with categories: Solutions, Small Business Opportunities, Navy Product Data Initiative, Project Information Requests, and Strike Up/Strike Down.

The main content area features a large image of a "Perable Automated Bulkhead Straightener" with the caption "Perable Automated Bulkhead Straightener Demos a Success... more". Below this is a "Major Program Initiatives" section with six categories: Shipyard Production Processes, Systems Technology, Business Process Technologies, Product Design & Materials Technology, Facilities, Tooling & Risk Management, and Crosscut Initiatives. Each category has a small representative image.

Below the initiatives is an "About NSRP" section. It states: "The National Shipbuilding Research Program was created to reduce the cost of building and maintaining U.S. Navy warships. NSRP is a collaboration of 13 major U.S. shipyards focused on industry-wide implementation of solutions to common cost drivers (for more information, click on map below)".

At the bottom of the main content area is a map of the United States with the text "NSRP ASE" and various logos of participating shipyards and organizations, including Lockheed Martin, BENDIS, and others.

At the bottom of the page, there are links for Home, Links, Site Map, and Privacy Policy.

Questions?