



NATIONAL SHIPBUILDING RESEARCH PROGRAM
ADVANCED SHIPBUILDING ENTERPRISE

Reducing Naval Ship Construction & Repair Costs

Electrical Technologies Panel Meeting

Program Update

Funding

- \$15M/yr funding for FY10 and FY11 – sources:
 - PEOs (Ships, Subs, Carriers)
 - NAVSEA 05
 - Defense Appropriations Bill (FY10)
- FY 12 funding dependent on proven program value through current projects
 - \$5M in President's Budget
 - Remainder from PEOs and Congress



Project Solicitations

- Panel Project Solicitation -- Closed
 - Whitepapers being reviewed; Project Selection on 30 Nov
- Research Announcement
 - Solicitation released on 24 September 2011
 - Proposals due on 11 February 2011
 - Orals (for competitive proposals) will be held the week of 28 March 2011
 - Project Selection will be the week of 11 April 2011
- Anticipate having ~ \$10M available for major projects



Other Initiatives



Specifications Review

Documents for Ship Cost Reduction (DSCR)

- NSRP working with NAVSEA to ID and review specification changes that will reduce cost without impacting quality
- NSRP has performed assessments of changes to the following...
 - MIL-STD-777 (piping & valves)
 - MIL-DTL-17060 (60Hz, AC motors)
 - MIL-STD-1689 / Tech. Pub 278 (welding)
 - Virtual Shelf (Commonality)
 - MIL-STD-167-1A (mechanical vibration)
 - Shock Testing requirements
 - Use of software tool for identifying EMI testing reqts



Specifications Review

Documents for Ship Cost Reduction (DSCR)

- Next Steps
 - New Specification Initiatives
 - Deck coverings – combine 10 specs into 4; remove redundancies and inconsistencies
 - Shock – New heavy weight testing machine; reduce reliance on floating platform
 - Welding – Standardize processes with American Welding Society (result of NSRP panel project!!)
 - Shipyards can also draft a change proposal and submit through the review process
 - Template proposal letter sent to Specs Working Group members
 - Proposals can be submitted anytime to ATI



Strategic Investment Plan 2010

- SIP 2010 being finalized by Working Group
 - Anticipate final approval at November ECB meeting
- NSRP Organization & Operations Manual being drafted
 - Anticipate publication in Spring 2011
- Major highlights discussed on following slides...



SIP 2010

- Major Initiative changes:
 - 4 instead of 6
 - Business Process Technologies and Systems Technology combined
 - Crosscut (Workforce Development) combined with FTRM to make Infrastructure and Support
- Panels – same 10, a few editorial name changes
- Structure mimics major shipbuilding processes:
 - Design
 - Production
 - Business / IT
 - Support functions
- Document changes:
 - New 2-book system that makes updating easier
 - Answers the desire for the SIP to read more like an “Executive Summary” that provides high level information
 - Updated discussion of the Major Initiatives and how they interact with new strategic priorities



Executive Control Board

Major Initiatives

Ship Design &
Material
Technologies

Shipyards
Production
Technologies

Business Processes
& Information
Technologies

Infrastructure &
Support

Panels



Proposed Documents

Strategic Investment Plan

- Record of Changes
- Endorsements
- Introduction (brief explanation of NSRP)
- Summary of Industry and Navy Priorities (currently Navy big 3)
- Focus Areas (combined ECB/Navy strategic guidance)

Update every 2 years

NSRP Organization & Operations

- NSRP CONOPS (MI/Panel structure; project activities; history)
 - Program History
 - Organization / Structure
 - R&D Project Process
- Benchmarking
- Methodology
- Acknowledgements
- Glossary
- References (project book, etc.)

Update sections as necessary



Recent Meetings & Events

Dates	Event	Comments
Aug 4-5	Crosscut Initiatives <i>Seattle, WA</i>	Panel Meeting
Aug 17-18	Welding Technology <i>Idaho Falls, ID</i>	Panel Meeting
Sept 14-15	Fleet Maintenance & Modernization Symposium <i>Virginia Beach, VA</i>	Conference
Sept 28-29	Joint Panel Meeting – Business Process/Product Design & Materials/Shipyard Production Process Technologies/Systems Technology <i>Washington, DC</i>	Panel Meeting
Nov 2	Electrical Technologies Panel Meeting <i>Seattle/Bellevue, WA</i>	Panel Meeting in conj. w/ SNAME / SPS



Upcoming Meetings & Events

Dates	Event	Comments
Nov 3-5	SNAME Ship Production Symposium Call for Papers Closed <i>Bellevue, WA</i>	Conference
Nov 3-4	Facilities, Tooling & Risk Management <i>Mobile, AL</i>	Panel Meeting
Nov 9-10	Environmental Technologies <i>Jacksonville, FL</i>	Panel Meeting
Nov 17-18	Crosscut Initiatives <i>Norfolk, VA</i>	Panel Meeting
Dec 7-9	Business Process Tech., Shipyard Production Process Tech., Systems Tech. <i>New Orleans, LA</i>	Panel Meeting
Mar 15-16, 2011	ShipTech <i>Biloxi, MS</i>	Conference



For More Information

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SEARCH

Reducing Naval Ship Construction & Repair Costs

Program Information | Projects | Ship Production Panels | Industry Initiatives | Solicitation

VIDEO GALLERY Gallery

- Remote Climbing Robot for Automated Welding Processes**
Demo of a mobile, autonomous, robotic welding platform that
- Portable Automated Bulkhead and Hull Straightener**
The focus of this project expanded existing technology used in

Proposal Writing Workshop
October 27, 2010
Charlotte, NC

For additional Information:
[Proposal Writing Workshop](#)

Proposal Writing Workshop

ABSTRACT SUBMISSION

[Solicitation Information](#)
[Current Research Announcement](#)

TECHNOLOGY TRANSFER

- [NSRP Proposal Writing Workshop](#)
October 27, 2010
Charlotte, NC
- [Electrical Technologies Panel Meeting](#)
November 2, 2010
Seattle, WA

MAJOR PROGRAM INITIATIVES

- SHIPYARD PRODUCTION PROCESS TECHNOLOGIES
- SYSTEMS TECHNOLOGY
- BUSINESS PROCESS TECHNOLOGIES
- PRODUCT DESIGN & MATERIAL TECHNOLOGIES
- FACILITIES, TOOLING & RISK MANAGEMENT
- CROSSCUT INITIATIVES

- PROJECT SELECTION PRESS RELEASE
- PROJECT BOOK
- NEWS BULLETIN
- PROPOSAL WRITING WORKSHOP

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