



NATIONAL SHIPBUILDING RESEARCH PROGRAM
ADVANCED SHIPBUILDING ENTERPRISE

Reducing Naval Ship Construction & Repair Costs

Surface Preparation & Coatings 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

Shipyard
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 1-2	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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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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