



# NATIONAL SHIPBUILDING RESEARCH PROGRAM

## ADVANCED SHIPBUILDING ENTERPRISE

*Reducing Naval Ship Construction & Repair Costs*

# Surface Preparation and Coatings

Stephen Cogswell – BAE Systems Southeast Shipyards

Judie Blakey – NASSCO

February 3, 2011

Las Vegas, NV



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# Anti Trust Rules

- Regarding your company's and/or your competitors' products and services
  - Do not discuss current or future prices.
  - Do not discuss any increase or decrease in price.
  - Do not discuss standardizing or stabilizing prices.
  - Do not discuss controlling sales or allocating markets for any product.
  - Do not discuss future design or marketing strategies.
- Regarding your company's and/or your competitors' selection of their supplier companies:
  - Do not discuss refusing to deal with a company because of its pricing or distribution practices.
  - Do not discuss strategies or plans to award business or remove business from a specific company.
- Regarding your company's and/or competitors' trade secrets:
  - Do not discuss trade secrets or confidential information of your company or any other participant.



# NSRP SPC Representatives

BAE Systems Southeast – Steve Cogswell  
Bender – J. W Napper  
Bath Iron Works – Robert Cloutier/Pete Lockwood  
GD Electric Boat – Mark Panosky/F. Glynn/Skip Castro  
Fleet Rep – TBD  
NG Ingalls/ Avondale – Jay Pertuit/Steve Smoak  
NASSCO – Judie Blakey  
NG Newport News – Arcino Quiero  
Todd – Mark Edmonds  
Fincantieri Marine Group – Phillip Sagaser  
VT Halter Marine-  
Bollinger Shipyards-  
CWP/Naval Shipyards – Charlie Simmons

Panel Chair – Steve Cogswell- BAE Systems Southeast  
Panel Vice-Chair – Judie Blakey - NASSCO  
NAVSEA 05P23 – Mark Ingle



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# Meeting Objectives

- Provide updates on NSRP SPC activities and Panel Projects
  - Cost of QA for 009-32
  - Salt Mitigation
  - Alternative Environmental Recorder for 009-32
  - Evaluation of “Spot and Sweep” Blasting as a Cost Effective method of Underwater and Outer Hull Surface Preparation
  - Compatibility of “Single Coat” Tank Coatings with Retained Pre-construction Primer
- Discuss issues and opportunities from the conference
  - Standard review/new technologies, Mega Rust update, open discussion
- Discuss SSRAC process and potential proposals



# NSRP Panel Project Value Package



## Value Statement: *Project Name*

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**Problem**

- A clear, succinct description of the problem the project addressed (or is addressing) and how the problem drives up costs in shipbuilding / ship repair.

**Proposed Solution**

- A clear, succinct description of the solution to the problem that was to have been (or is being) developed by the project.

**Outcome**

- What was accomplished by the project? How did that compare to the goals originally envisioned?
- What was produced or developed?
- What else of value was learned through the project?


**Value**

(Check the Project Results Template in the final report)

- In broad terms, what value was delivered?
- What baseline and "to-be" metrics were proposed?
- For those metrics, what was actually realized, observed or demonstrated?
- What other beneficial results came out of the project?
- How could—or will—the value delivered reduce costs in Navy shipbuilding and/or ship repair?
- (Where applicable) What was the Technology Readiness Level of the technology being created/developed at the start of the project? What TRL was realized at project end? (You might consider use of the below graphic in reporting this outcome.)

An inset text box or other graphic that summarizes key points can be very effective visually.

**Technology Readiness Levels**



TRL 9: Actual Technology system qualified through successful mission operations.

TRL 8: Actual Technology system completed and qualified through test and demonstration.

TRL 7: Technology prototype demonstration in an operational environment.

TRL 6: Technology demonstration in a relevant environment.

TRL 5: Technology validation in relevant environment.

TRL 4: Technology validation in laboratory.


TRL 3: Analytical and experimental critical function and / or characteristic proof of concept.

TRL 2: Technology concept and / or application formulated.

TRL 1: Basic principles observed.

**Technology Transfer & Implementation**

- Describe in general terms the technology transfer activities undertaken during and after the project's period of performance.
- To what extent were the project results implemented by project team members?
- What implementations have been made external to the project team?
- What other entities have confirmed plans to implement the project results?
- What other entities could be suited for project results implementation (if justified by the business case)?
- (Where applicable) What shipbuilding and/or ship repair programs will be favorably impacted in terms of cost project?



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Value Statement  
Project Name  
Month 2011



# Upcoming Meetings & Events

- NSRP SPC Panel Meetings
  - Tentatively June 21-22, 2011 in Green Bay/ Fincantieri Marine Group
  - Late September, 2011 in Seattle or Joint Panel Session in Philadelphia?
- Other Meetings
  - March 13-17, 2011 – CORROSION 2011 , Houston, TX
  - March 14-15 – ShipTech, Biloxi, MS
  - June 6-9, 2011 – Mega Rust 2011, Norfolk, VA
  - May 18-20, 2011 – ACA Marine Coatings Meeting, Virginia Beach, VA
  - Late July, 2011 - SSRAC
  - July 31 - August 5, 2011 – DoD Corrosion Conference 2011, Palm Springs, CA
  - August 30-31, 2011 – FMMS, San Diego, CA



# Why Does it Work? PARTICIPATION!

We all have DAY JOBS. Thanks to all who have participated!

- A diverse group of participants made for very productive meetings
  - NSRP yards
  - NAVSEA 05P23, RMC's and Public SY's
  - Private Shipyards
  - Academia
  - Vendors
- All stakeholders are participating, resulting in a very productive year. We must continue to collaborate and move forward.



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# For More Information



## NATIONAL SHIPBUILDING RESEARCH PROGRAM ADVANCED SHIPBUILDING ENTERPRISE

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

### Large Scale Modeling & Simulation Project Complete

Executive Control Board Awards \$16M for 8 New Major Initiative Projects

Final Report now available

SOLICITATION  
INFORMATION



[Current Research Announcement](#)

### TECHNOLOGY TRANSFER

[SNAME Ship Production Symposium](#)

Call for Papers Closed  
November 3-5, 2010  
Bellevue, WA

[Environmental Technologies Panel Meeting](#)

November 9-10, 2010

### MAJOR PROGRAM INITIATIVES

SHIPYARD

SYSTEMS

BUSINESS

PRODUCT DESIGN

FACILITIES,

CROSSCUT



PROJECT SELECTION PRESS RELEASE

# www.nsrp.org

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# Questions?



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