State of the Panel
Planning, Production Processes, and Facilities Panel

Peter Radzicki

Panel Chair

General Dynamics NASSCO

NSRP
NATIONAL SHIPBUILDING RESEARCH PROGRAM™
Taking Shipbuilding and Repair to the Next Level

Anti-Trust Rules

Regarding your company's and/or your competitor's **product & services**:

- Do not discuss current or future prices.
- Do not discuss any increase or decrease in price.
- Do not discuss pricing procedures.
- 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.

Anti-Trust Rules

Regarding your company's and/or your competitors' selection of their **supplier companies**:

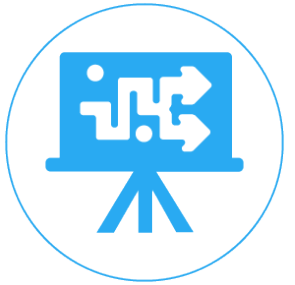
- Do not discuss refusing to deal with a company because of its pricing or distribution practices.
- Do not discuss strategies or plans to award business to remove business from a specific company.

Regarding your company's and/or competitors' **trade secrets**:

- Do not discuss trade secrets or confidential information of your company or any other participant.

Planning, Production Processes, and Facilities Panel's Mission:

Discover and disseminate best practices focused on the principal manufacturing processes, equipment, planning, and facilities required to support the fabrication, assembly, and testing phases of ship production, repair and maintenance.

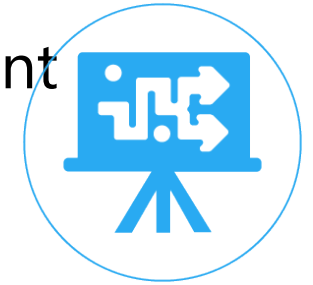


Panel's Purpose:

1. Develop and implement Manufacturing Processes for construction, fabrication and assembly
2. Develop and implement Manufacturing Processes for outfitting, installation and testing
3. Improve shipyard sub-tier supplier performance with respect to quality, cost and schedule
4. Develop and implement Automation, Robotics and Mechanization in manufacturing and inspection processes
5. Increase knowledge and proficiency of overall workforce
6. Develop and qualify emerging technologies

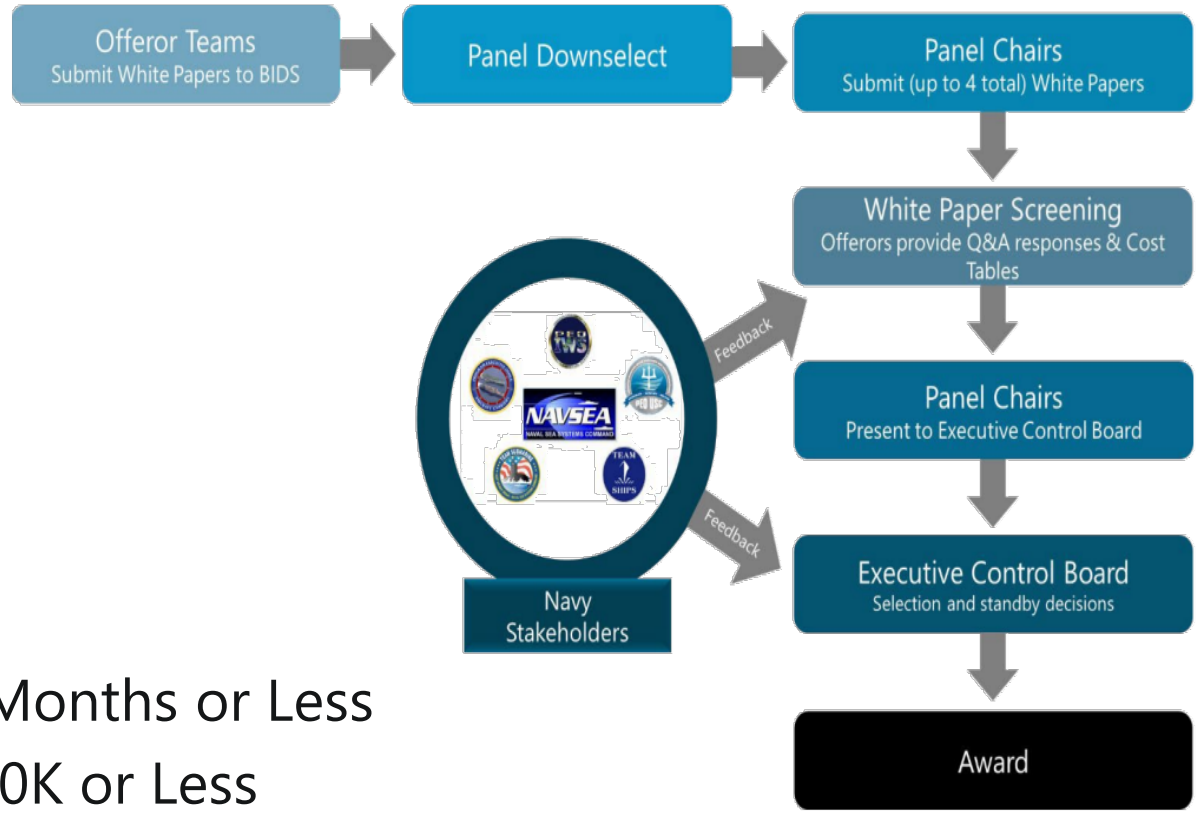
Panel's Purpose:

7. Develop and implement digital shipbuilding tools for improved construction and sustainment activities
8. Investigate improvements to standardization, commonality and modularity
9. Improve quality, level of detail, and automation of job planning and work instructions
10. Develop and implement Additive Manufacturing (AM) into shipbuilding and repair
11. Develop solutions to improve installation, maintenance and efficiency of shipboard networks
12. Develop warehousing and logistics improvements to facilitate equipment delivery



2027 Panel Project Submittals

- White Paper Submission and Selection



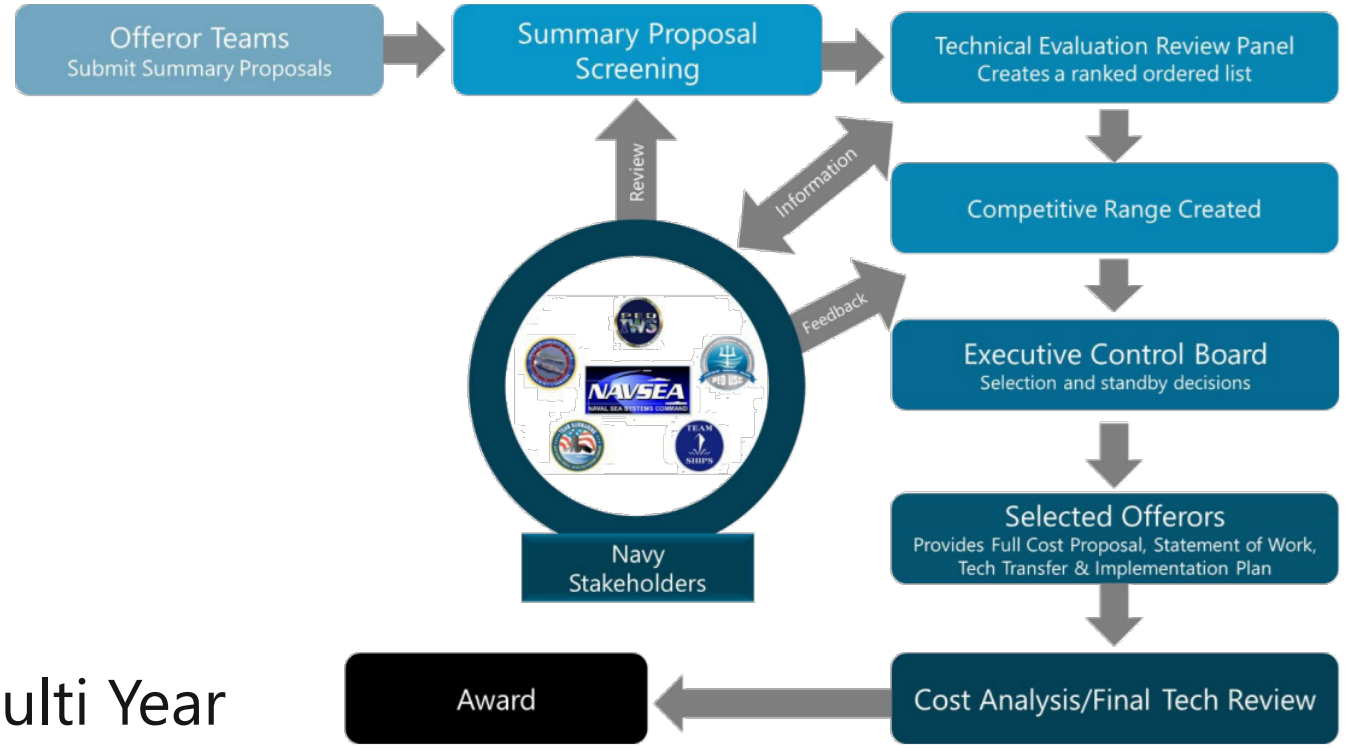
- Duration: 12 Months or Less
- Funding : $200K or Less
- Focus: Aligned with the mission of one or more NSRP Panels and the overall objectives of the Program
- White Papers Due: August 26th

Last Years Panel Project Selections

- 53 - Projects Submitted Last Year to NSRP
- 19 - Projects Relevant to PPPF Panel and Voted on by Panel
- 4 - Projects Presented to the ECB
- 2 - Project Selected by the ECB
  - Autonomous Equipment in a Shipyard Environment (Self Funded)
  - Nanotechnology-Based Fire Boundaries on US Navy Ships

2027 Research Announcement Project Submittals

- Proposal Submission and Selection



- Duration: Multi Year
- Funding : 50/50 Share Target
- Summary Proposal Due: Closed July 24th

Important NSRP Panel Dates

- Panel Projects
  - Offeror Submission Deadline **August 26th**
  - Panel Down Select NLT **October 2nd**
  - Selected Offerors to provide Cost Data Table NLT **October 9th**
- RA Projects
  - Summary Proposal Due **July 24th**
  - Technical Evaluation **August 2026**
  - Mandatory Oral Presentation & ECB Section **September 2026**
- ECB Selection Meeting November 2026

Last Years PPPF Panel Meeting

- July 23rd and 24th @ Old Dominion University, Suffolk VA
- Joint Meeting with Weld Panel
- Attendance: 79 In Person , 34 Virtual (113 Total)
- Toured
  - Shipbuilding Cobot Alliance Training Center
  - NASSCO Norfolk Repair Yard

Agenda for Meeting

Day 1

Time	Presentation	Speaker
8:00	Welcome & Introductions	Conlan Hsu & Peter Radzicki Chairs, SPC & PPPF Panels
8:10	NSRP Program Overview	Hillary Hawkins Panel Coordinator, NSRP
8:20	Surface Preparation & Coatings Panel Update	Conlan Hsu
8:40	Planning, Production Processes & Facilities Panel Update	Peter Radzicki
9:00	NAVSEA 05 Coatings & Corrosion Control Update	Mark Ingle TWH, NAVSEA 05
10:00	BREAK	
10:15	SPC Panel Project – 1K Oxsol (PCBTF) Free MIL-PRF-24635F Type V Comp 1 Coatings	Eric Shoyer Elzly Technology Corp
10:45	SPC Panel Project – Comparison of Laser Ablation to SSPC-SP Surface Preparation of Bare Steel	Mike Kibler Elzly Technology Corp
11:15	NSRP RA Project – Shipbuilding Cobot Alliance	Pat Cahill Cahill Consulting LLC
11:45	LUNCH	
12:00	History of Bath Iron Works	Dave Clark Bath Iron Works
12:30	BIW Projects In Progress	David Kinee Bath Iron Works
1:00	BIW Tour	
4:00	Day 1 Wrap Up	Brian Tapajna Vice Chair, PPPF Panel

Day 2

Time	Presentation	Speaker
8:00	Introductions	Brian Tapajna Vice Chair, PPPF Panel
8:10	SPC Panel Project Pitch Meeting	Greater SPC Community
9:30	PPPF Panel Project Pitch Meeting	Greater PPPF Community
10:50	BREAK	
11:00	Autonomous Equipment in a Shipyard Environment	Tom Waligora & Sam Mueller Pratt & Miller Defense, Osh Kosh
11:30	PPPF Panel Project - Completion of an Incline Experiment Without Use of a Pendulum	Kendall Lee NASSCO
12:00	LUNCH	
12:15	PPPF Panel Project - Use of Nanotechnology-Based Fire Boundaries on U.S. Navy Ships	Roderick Wilson Newport News Shipbuilding
12:45	NSRP RA Project - Ergonomics in Shipbuilding	Maks Vasilchenko Electric Boat
1:15	AI in Shipbuilding Panel Discussion	Brian Tapajna + Others
1:45	BIW Brunswick Landing Tour	
4:00	For the Good of the Panel & Wrap-Up	Peter Radzicki & Conlan Hsu

This Years Tour

- Bath Iron Works
- Brunswick Landing

Back Up

Planning, Production Processes, and Facilities Meeting Attendance

	24’ Joint PPPF W/ Paint	25’ All Panel	25’ Joint PPPF w/ Weld	26’ Joint PPPF W/ Paint
In-Person	30	69	79	54 est.
Virtual	16	Unknown	35	?