

NSRP SP&C Panel



NSRP SP&C Panel Mission Statement

Surface Preparation & Coatings

Specs to Decks

- Research, evaluate, develop, and sustain current and emerging technologies that will reduce cost and maintain or enhance quality
- Engage Suppliers, Applicators, and Specifiers of surface and preservation systems
- Facilitate Panel meetings to encourage broad and active participation
- Network with industry experts

NSRP SP&C Panel Member Shipyards (11)



NSRP SP&C Panel Steering Committee

Surface Preparation & Coatings

Active Member Shipyards & NAVSEA:

- Austal USA
- ✓ BAE Systems Southeast – Steve Cogswell
- ✓ GD-Bath Iron Works – Robert Cloutier
- ✓ GD-Electric Boat – Mark Toscano
- ✓ GD-NASSCO – Angel Zepeda
- ✓ HII-Ingalls Shipbuilding – Conlan Hsu
- ✓ HII-Newport News – Arcino “**Q**” Quiero
- Vigor Shipyard
- VT Halter Marine
- ✓ NAVSEA 05 – Mark Ingle/Howard Castle

Panel Officers:

- SP&C Panel Chair – Arcino “**Q**” Quiero
- SP&C Panel Vice-Chair – Robert Cloutier
- Technical Warrant Holder (TWH) – Mark Ingle

Member Shipyards:

- Conrad Shipyard
- Fincantieri Marinette Marine

NSRP SP&C Panel Focus

Surface Preparation & Coatings



- Workforce
- Specifications
- Surface Preparation
- Coatings Application
- Environmental Compliance
- QA & Documentation (e. g. Records)
- Embracing Innovation & Advancing Technology

NSRP SP&C Panel Activities & Participants

Surface Preparation & Coatings

Two “Official” Meetings/Year:

- Programs Updates
- Projects Reviews
- **Technical Presentations**
- Participants Workshops/Demo
- **Facilities Tours**

Sponsor 3 Panel Projects/Year:

- Funding – Up to \$150K
- Duration – 12 Months
- Impact – Immediately

Panel Participants Include:

- **NAVSEA 05 (TWH)**
- NAVSEA 04/CWP Quality
- NSRP and Public Shipyards
- ManTech
- **MegaRust**
- **SSPC/NACE (SPACE)**
- Suppliers, Subcontractors, & Academia
- Work collaboratively with various Navy Working Groups: SSRAC, Corrosion CoP


NSRP SP&C Panel Activities & Participants

Surface Preparation & Coatings

“White Papers” – July 2020:

- Team W/NSRP Shipyard
- Submit to SP&C Chair,
Arcino.Quiero@hii-nns.com,
TBD at a later date
- Solicitation information will
be available on NSRP’s
website: www.nsrp.org

Sponsor up to three (3) Panel projects for 2021:

- Funding – Up to \$150K
- Duration – 12 months
after receipt of funding
- Immediate Impact:
 - Safety
 - Quality
 - Schedule  **Return on
Investment
(ROI)**
 - Costs
 - Specification

NSRP SP&C Panel Projects

Surface Preparation & Coatings

Funded Project – 2020:

- Optimize Power Tools Surface Preparation

Current Projects – 2019:

- Survey of Surface Prep & Coatings Automation
- Standardization and Digitization of Visual Inspection for Shipbuilding & Repair
- Primers with Extended AF Overcoat Window Surface Preparation
- **Certification Program – Shipbuilding Industry Surface Prep & Coatings Training**
- **Virtual Spray Paint Training System**

Recently Completed Projects – 2018:

- ✓ Thermal Insulating Aerogel Filled Coatings
- 2018 ✓ Evaluation of Plasma Coating Removal & Surface Preparation

Completed in 2019

Completed Projects:

- 2017 ✓ Partial Blast of UHS Coated Tanks II
- 2017 ✓ Retention of Epoxy Type VI under Ultra High Solids (UHS)

Completed in 2018

- ✓ Boomlift Carried Environ. Enclosure
- 2018 ✓ Implementation of Paperless Paint

Completed in 2017

- ✓ Universal Primer & Surface Prep Process
- ✓ Partial Blast of UHS Coated Tanks
- 2017 ✓ Technical Guide for Inaccessible Void Coatings & Treatments

Completed in 2016

- ✓ Reducing Inspection Costs Using the Latest Digital Inspection Tools
- ✓ Cost Savings Comparison in Applying Polysiloxane vs. Silicone Alkyd Topcoats
- 2016 ✓ Paperless Paint Documentation II

Completed in 2015

NSRP SP&C Panel 2019 Funded Projects

Top 3 Projects	Prime / Lead & Team Members	Project Description
1 st	<p>Prime / Lead: Elzly Technology Corp</p> <p>Team Members: BAE Systems, HII-Ingalls</p>	<p>Survey of Surface Preparation & Coatings Automation – Develop a path forward for NSRP Shipyards to improve automation of surface preparation and coatings processes.</p>
2 nd	<p>Prime / Lead: TruQC</p> <p>Team Members: BAE System, HII-NNS</p>	<p>Standardization and Digitization of Visual Inspection for Shipbuilding and Repair – Configure COTS product for standardizing and digitizing visual inspection data to optimize Naval Ship construction and repair processes.</p>
3 rd	<p>Prime / Lead: Excet</p> <p>Team Members: GD-BIW, GD-EB, HII-Ingalls</p>	<p>Primers W/Extended AF Overcoat Window – Identify and test the compatibility of commercial HS primers with extended AF overcoat windows and MIL-PRF-24647 QPD AF paints, potentially eliminating the need for a thumb tacky coat.</p>
Joint Projects	Prime / Lead & Joint Panels	Project Description
Workforce Development	<p>Prime: GD-NASSCO</p> <p>Lead: Work Force Development (WFD) Panel</p> <p>Team Members: HII-Ingalls, HII-NNS</p>	<p>Virtual Paint Spray Training System (VPSTS) – Evaluate Virtual Reality Technology, such as VPSTS, to shipbuilding industry standards (009-32 / NSTM-634 & SSPC) as it relates to spray painting and collecting user feedback on the experience.</p>
SP&C, WFD, & EH&S	<p>Prime: GD-BIW / Lead Panel: WFD</p> <p>Team Members / Joint Panels: SP&C, WFD, and EH&S Panels</p>	<p>Certification Program: Shipbuilding Industry Surface Prep & Coating Training – The proposed Program will provide shipbuilding paint training. Training will include marine & industrial applications to new hires and general public.</p>