

# Preparation of a Manual on How To Inspect “Flash Rust”

## Contact Information

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# Background

- WJ introduced in mid 1980's for surface prep.
- International Paint issued photo standards in 1994. NACE-SSPC standards issued in 1995
- Fleet Corrosion Control Conference in San Diego June, 2007, almost every paper on corrosion control cited a problem with "flash rust."

# Background (cont)

## Surface Prep QA/QC Process Improvement

NSRP SP-3 Project, Dec 31, 2007

- “Flash rusting is perceived to have relatively low impact on service life.”
  - **Least Impact**
  - BUT**
  - **Highest Probability of Dispute**

# Background (cont)

**Train:** to teach so as to make fit, qualified, or proficient

**Certify:** to recognize as having met special qualifications (as of a governmental agency or professional board) within a field

# Project Goal

- Reduce uncertainty between inspectors and production personnel
- Reduce conflicts and “stand-around” time
- Reduce costs by the time that is spent in additional paperwork “approval” for a variance

# End-Product

- Stand-alone **Training** manual
  - Distributed electronically
  - Available on a shipbuilding web site
    - Distribution as ascertained by ECB

# Technical Team

- Lydia Frenzel- Fat Squirrel 22 LLC
- Todd Pacific Shipyard- Pete Judt
- Atlantic Marine- Steve Cogswell, Paul Leonard
- NASSCO- Judie Blakey
- Detyens Shipyard- Loy Stewart Jr.
  - Other NSRP shipyards
- NLB Corp.- Ted Kupscznk
- Rampart LLC- Bob Kogler
- ATI

# Additional Technical Support

In order for a project to be successful, there must be agreement between the owner, the contractor, and the coatings manufacturers.

- SUPSHIPS BIW
- SSPC NBPI Trainer
- NACE CIP Trainer

# Additional Technical Support

- Waterjetting Firms
  - Carolina Equipment and Supply
  - Flow Int.
  - Hammelmann
  - KMT Aqua-Dyne
  - NLB Corp.

# Additional Technical Support

- Coatings Manufacturers (all of them)
  - Hempel
  - International Paint
  - Jotun
  - Niles Coatings
  - PPG Protective & Marine Coatings
  - Sherwin Williams
  
- General Ship Repair

# Deliverables:

- Status Report – March 31, 2008
- Status Report – June 30, 2008
- Status Report – September 30, 2008
- Draft Training Manual – November 15, 2008
- Final Training Manual – December 15, 2008

# Time Table

- Phase 1- Jan-Mar- 2008
  - Bring together any training resources
  - Identify additional NSRP shipyards
  - Clarify the points of disagreement
  
- Prepare report March 31, 2008

# Questionnaire

- Today- Through March 31
- Input from Shipyards
- What do you want to see
- Need thorough Understanding
- Cross-Talk
  - What is your resolution when conflict arises?
  - What worked and what didn't work!

# Phase 2

- April, May, June 2008
- Solicit and prepare in-situ photos of common obstacles
  - list of photos and clarification points
- If suitable photos are not found, then illustrative photos will be taken
  - Visit Detyens and/or UHP Projects
- Report June 31, 2008

# Phase 2 (cont)

- Prepare Draft ( June, July)
- Solicit comments from participants
  - Shipyard Paint, Shipyard Trainers
    - SSPC and NACE trainers, SUPSHIP,
- Present rough Draft at July NSRP
  
- Have a Run-through at MegaRust
- August 18, 2008
- Revise

# July NSRP

- Present Draft Module for comment

# August 18, 2008

- Run-Through Workshop
- MegaRust
- Revise

# Phase 3

- October 2008 NSRP
- Presentation
- Workshop
- Follow up
- Further questions

# Final Draft

- December, 2008

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# Thanks To NSRP

Carolina Equipment & Supply, Chariot Robotics LLC  
Chlor\*Rid, KMT Waterjetting Aqua-Dyne  
Flow International Corp., Hammelmann Corp  
Hartman-Walsh Painting Co, HoldTight Solutions  
Hydrochem Industrial Serv., ICI Devoe Coatings  
International Paint, CleanerTimes  
NLB Corp ., PPG Protective & Marine Coatings  
Pipe Viper LLC , Parker Polyflex  
TERMARUST Technology, Universal Minerals Inc  
UHP Projects, Inc., Warwick Mills, Inc

# What do YOU Want ?

- What is “flash rust?”
- What is the best angle to inspect the surface-How does this affect what the inspector sees?
  - What is the effect of lighting?
  - How far away can the inspector be?
  - What are the fundamental differences between a dry blasted and wet blasted surface?
- What is light and moderate flash rust?
- How does the appearance differ between vacuum recovery and hand-held “open” methods.

# What do You Want?

- Lots of Close up photos?
- Distribute questionnaire