



# MEGA RUST 2012

## Total Ownership Cost Coatings and Corrosion Control

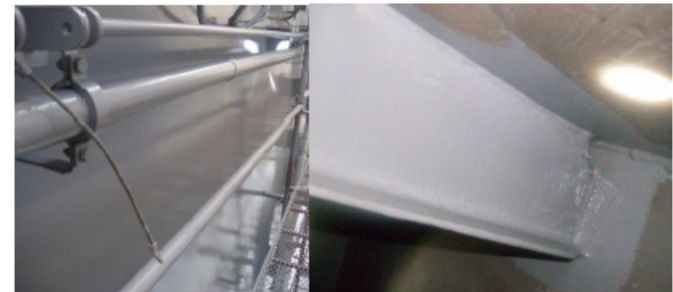
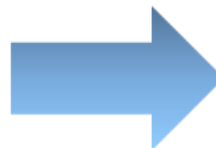
RADM Tom Eccles  
NAVSEA Chief Engineer

June 2012



# Outline

- **NAVSEA focus is on Reducing Total Ownership Costs.**
- **New Technology:**
  - High-solids, Rapid-cure, Single-coat update.
  - New topside coatings.
  - Nonskid.
  - Thermo-diffusion bonded zinc (TDZ) coatings.
- **New Construction, Cost Reduction Working Group.**
- **Corrosion Control Assistance Teams.**



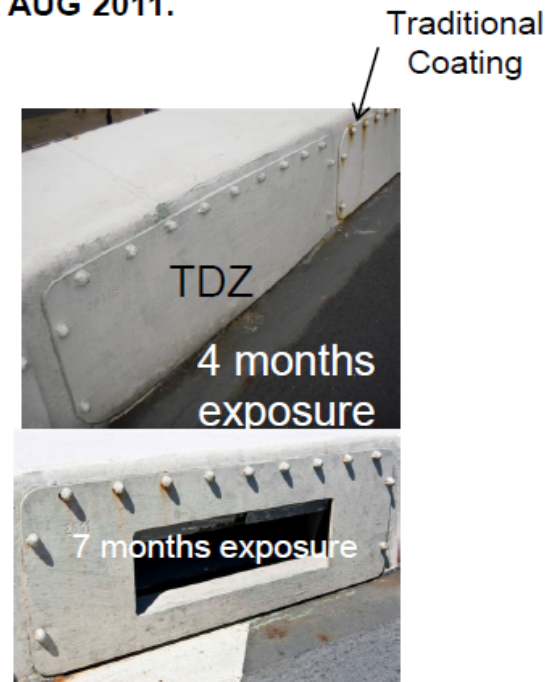


# Thermo-diffusion Bonded Zinc Coating

- Thermo-diffusion bonded zinc coatings, applied in accordance with ASTM A1059/A1059M “Standard Specification for Zinc Alloy Thermo-Diffusion Coatings on Steel Fasteners, Hardware, and Other Products” – technically acceptable alternative to electro-galvanized coating.

- Technical Warrant Holder letter 9630 Ser 05P/278 dated 02 AUG 2011.

- Demonstration testing ongoing.
  - LCAC gripes/cargo lashings.
  - LCS hand wheels.
  - LPD-21 wheel stops.
  - Low strength fasteners (form, fit, function issues).



Thermo-diffusion bonded zinc coating can help reduce total ownership costs.