



Docks Piers & Wharfs

Marine Insurance Day 2013

Presented by

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on behalf of the AIMU Technical Services Committee

Usage Impact

- Yacht Storage
- Buildings
- Fuel Services
- Launching
- Ancillary Services



Pier Construction

- Component Types
- Shore Protection
- Bulkheads
- Support Systems – Anchoring
- Floating Systems
- Anchoring Systems



Bulkheads / Launching Wells -

- Construction & Tie Gear & Anchors
- Box Piles
- Soldier Beam & Lagging
- Steel Sheet
- Precast Concrete
- Vinyl / Plastic & Composite
- Whaler
- Engineering Considerations



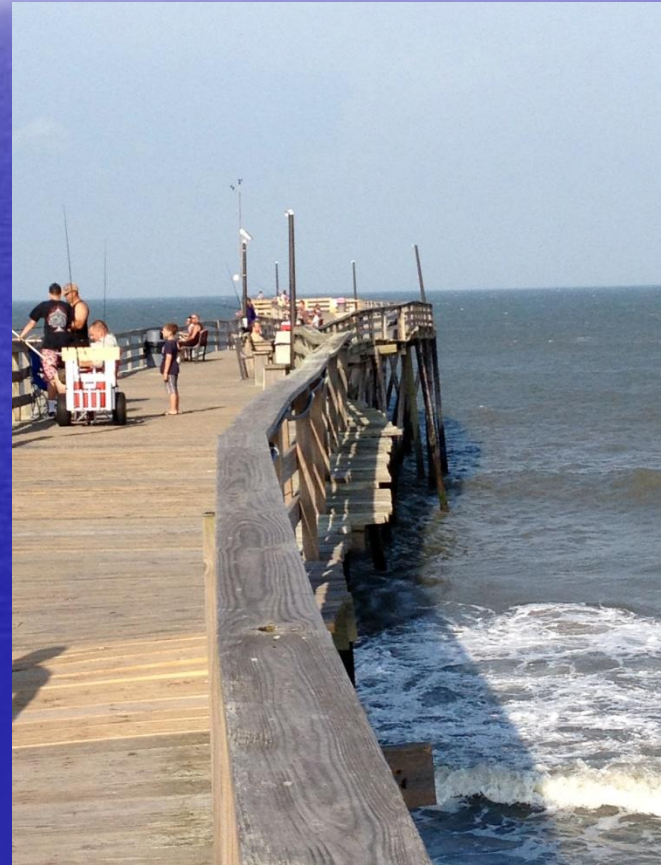
Fire & Safety Equipment

- Portable Extinguisher Stands
- Stand Pipe / Hose Systems
- Alarm Systems
- Communication Protocol
- Life Ring & Throwing Line
- Ladders



Pier Maintenance

- Walking the Piers
- Inspection Process
- What about Underwater Structures
- Manufacturer's Recommendations
- Fueling, Pump Out, Telephone, Cable
- Safety / Fire Equipment
- Security



Anchoring / Marine Borers/ Piling/ Flotation / Land Fill

- Inspection process
- Maintenance records
- Wood Pilings and Life Span
- Flotation Inspection
- Underwater Inspection
- Signs of Land or Fill Regression

Electrical Systems

- Electric feed
- Line protection
- Pedestals
- Over Head Wiring
- Shore Connections

EMP

- Why Yearly Review
- Qualified Electrician
- Pedestal Maintenance / Breaker Inspection
- Cable Runs & Supports / Floating Piers
- Shore Connections
- Yacht Shore Connections
- Record Keeping

Valuation

- Replacement Cost
- Market Value
- Condition
- Age
- Manufacturer
- Maintenance Practices

Pier Horror Stories

- Impact by surge, wind, current
- Maintenance Impact on Survival
- Collapse Prevention
- The Power of Ice
- Impact of low or no water on floating piers
- Bulkhead Erosion

SHIP WORMS





May have danced on this pier?



Free Launching



Ice & Current



Size of Pilings



Post Sandy Destruction – Untested Infrastructure systems



Takeaways

- Today's Marine Docks, Bulkheads and Wharfs are complex systems.
- Understanding the technology of today is needed to understand the exposures.
- Valuing these structures must take into account: Construction Methods, Age, Manufacturer and Maintenance practices.
- There is no database to provide a rule of thumb for valuation. Each dock must be evaluated on its own.
- Experienced Marine Contractors and Design Engineers should be consulted for repairs, maintenance and replacement .
- Good maintenance practices are key to dock longevity and safety.
- There are different "hidden" costs involved in the replacement or repair of different types and aging docks. (utility codes, environmental issues, etc.)
- There is a need for continuing and frequent facility inspections
- Verify the method used for valuation and understand the requested coverage and how it relates to replacement components.
- Never underestimate the value of a good survey of the docks, bulkheads and wharfs.

Look at the AIMU website for the newly completed Technical Committee Paper on Docks, Bulkheads and Wharfs.
www.aimu.org

The background is a solid blue gradient. On the left side, there is a bright, glowing sunburst or lens flare effect that fades into the blue background. The word "Questions" is centered in the middle of the image.

Questions

This presentation is the work of the AIMU Technical
Services Committee

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