

Rehabilitation of Historic Dry Dock #2

United States Navy



Project Type

Design
Inspection
Studies/Analysis
Planning Study

Location

Kittery Maine

Estimated Construction Cost

\$19,500,000 USD

Date of Service

2009 - 2011

Project Description

The primary objective of this project on the historic Dry Dock #2 at Portsmouth Naval Shipyard was to rehabilitate the inner and outer seats, and replace the caisson gate structure including its associated pumps, dewatering systems and related utilities.

Design services included conducting Site Investigations (surveys, concrete coring and testing, sub-surface investigation, underwater inspections and geotechnical explorations), Design Analyses, Construction Drawings, Specifications, Project Cost Estimate, Permitting documents, Historical documentation, and the design of a temporary cofferdam to facilitate construction.

Appledore Marine provided full construction support services with construction completed in 2010. This project increased the dry docks capabilities by effectively increasing the length and depth at the entrance while accommodating superload loads.

The Estimated Construction Cost of this rehabilitation project is \$19,500,000.

This project was highlighted and presented by Appledore Marine Engineering, Inc. at the esteemed International Port and Harbor Development Specialty conference, "Ports 2010: Building on the Past, Respecting the Future," held by the American Society of Civil Engineers.

Services Provided

- Inspection
- Structural Analysis
- Concept Development
- Permitting
- Design
- Bid Document Preparation
- Construction Administration
- Archaeological Monitoring
- Finite Element Modeling
- Historic Documentation
- Concrete Analysis
- Cost Estimate



600 State Street, Suite E
Portsmouth, NH 03801
Phone: 603-766-1870
Email: nelwood@appledoremarine.com
www.appledoremarine.com