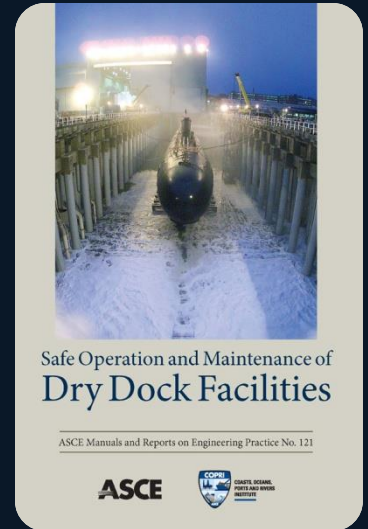


SHIPYARD ENGINEERING, LLC

ENGINEERING SERVICES – DRY DOCK INSPECTION AND CERTIFICATION

OVERVIEW:

There have been several dry dock failures in recent years that underscore the need for understanding and vigilance when operating and maintaining dry docks. Our **Dry Dock Inspection and Certification Package** is specially designed by experienced professional engineers to provide a comprehensive, but cost-effective and qualitative review of the dry dock facility. The inspection procedures utilized by our team are prepared in accordance with recognized dry dock engineering principles outlined in the American Society of Civil Engineers (ASCE) *Safe Operation and Maintenance of Dry Dock Facilities*, which was co-authored by SYE's owner and Director of Engineering.



OUR FOCUS IS SAFETY:

Simply put, the **Dry Dock Inspection Package** is designed to ensure the **Safety** of the dry dock! This package includes a process for auditing the facility to verify that the structural, mechanical and electrical components are safe to operate.



DEFINED DELIVERABLES:

SYE offers a clear and well defined set of deliverables that are in compliance with SFLC 8634 for U.S. Coast Guard Certification and MIL-STD-1625D(SH) for U.S. Navy Certification. In general, our clients can expect the following:

- ★ **Existing Document Review:** Documents governing or prepared for the original design and construction, rehabilitation, alteration or repair of the facility will be reviewed if available.
- ★ **Material Condition Survey:** A material condition survey will be conducted to establish the existing condition of the facility. The survey will be detailed to ascertain the actual condition of all critical components of the facility including the dock structure, major mechanical and electrical equipment required for dock operation, mooring cleats, bollards, capstans, and blocking for vessel support.
- ★ **Material Condition Survey Exclusions:** The survey excludes vessel handling lines, weight handling equipment such as cranes, hazardous materials, service systems such as heating and ventilation, and industrial systems such as welding and abrasive blast equipment.
- ★ **Inspection Report and Certification:** A comprehensive Inspection Report detailing all of the findings will be provided along with the facility certification. All deficiencies will be given a rating and recommendations for action will be provided for subsequent planning, budgeting and scheduling of repairs.

