



# Dahlgren Naval Service Welfare Center

The Naval Surface Warfare Center Dahlgren Division, Dahlgren Laboratory is a premier research and development center that serves as a specialty site for weapon system integration. J.E. Richards Electric, Inc. performed the electrical installation with careful coordination with our client and the facility. The power distribution consisted of two, 13.8kV transformers, two, 3000 Amp switchboards, one, 800 Amp Motor Control Center, approximately 60 distribution panels with five different power sources being transformed in the building; 120/208V 60 Hz, 277/480V 60 Hz, 440V 60 Hz, 440V 400 Hz, 115V 400 Hz. Are all used to simulate/test equipment used on naval ships and submarines.

The challenge was intercepting the existing 13.8kV feeders in order to install new four-way switching and three new transformers to serve the surrounding existing buildings and the new facility, and while maintaining uninterrupted operations at the base.



Panels are distributed throughout the facility, as well as labs on the 1st floor. Navy personnel will utilize the labs for various testing and maintenance. The facility will also house Navy administrative staff on the 2nd floor.

Richards was recognized by The Washington Building Congress with an award for outstanding craftsmanship for power distribution.

**Market:**

Power, Utility & Industrial

**Date:**

2009

**Location:**

Dahlgren, VA