

Qualifications Summary

- 15 years of monitoring power plant circulating water systems including service water heat exchangers and main steam condensers at electric power generating stations
- Performed chemical treatments of primary circulating water systems at fossil fuel powered electric generating stations
- Conducted monitoring, sampling, and documenting of environmental compliance for nuclear powered electric utility
- Conducted underwater inspections of equipment in circulating water and service water systems at Pilgrim Nuclear Power Station
- Conducted water treatment at 2 million gallon per day wastewater treatment facility
- Station chemist conducted chemical analysis of No. 6 oil and low sulfur coal per ASTM methods at fossil fuel power station
- Conducted underwater inspection of impact from thermal backwashes in controlling marine fouling at Pilgrim Nuclear Power Plant

DANIEL J. ROGERS, B.S.

Marine Technician

Professional Qualifications

Commercial diving certified for surface supplied air diving, and scuba diving.

Massachusetts Wastewater Treatment Plant Operator license, Grade 2 Industrial/inactive

Merchant Marine document for ordinary seamen.

Current CPR, first aid, and oxygen.

Offshore survival training, helicopter evacuation training, and offshore safety training.

Fields of Expertise

Specializing in the installation, support and maintenance of monitoring equipment in industrial and oceanographic settings, including NOAA PORTS water level stations and the array of sensors for measuring weather and oceanographic data. Certified commercial diver with experience in underwater inspection of fossil fuel and nuclear power generating station cooling water systems. Experience with testing and evaluation of industrial coatings. Wastewater treatment operator at 2 MGD treatment facility.

Higher Education

B.S., Marine Biology-University of Massachusetts Dartmouth (1984)

Employment History

2006-Present	Woods Hole Group
2004-2006	Benthos
2002-2004	Triad Engineering Corp
1994-2002	Bridger scientific Inc.
1990-1994	Marine Biocontrol Corp

Key Projects

National Oceanic and Atmospheric Administration, National Ocean Service, Center for Operational-Oceanographic Products and Services (NOAA/NOS/COOPS), Physical Oceanographic Real-Time Systems (PORTS), Narragansett Bay, RI - Field Technician

Responsible for the operation and maintenance of the Narragansett Bay PORTS. Duties included on-site service and maintenance, and reporting. Knowledgeable with PORTS measurement systems, including current meter, water level, and meteorological stations and data telemetry and management.

National Oceanic and Atmospheric Administration, National Ocean Service, Center for Operational-Oceanographic Products and Services (NOAA/NOS/COOPS), Physical Oceanographic Real-Time Systems (PORTS), Delaware River & Bay, DE – Field Technician

Serve as PORTS technical assistant to Local Operator, Ned Burger, and Delaware Field Office. Assist on an as-needed basis with technical support and reporting tasks, including field support for routine operation and maintenance activities and emergency service.

National Oceanic and Atmospheric Administration, National Ocean Service, Center for Operational-Oceanographic Products and Services (NOAA/NOS/COOPS), Physical Oceanographic Real-Time Systems (PORTS), Chesapeake Bay, MD – Field Technician

Serve as PORTS technical assistant to Local Operator, Clint Hare, and Delaware Field Office. Assist on an as-needed basis with technical support and reporting tasks, including field support for routine operation and maintenance activities and emergency service.

Optimization of Cooling Water Treatment Programs, Salem nuclear Power Plant, Hancock's Bridge, N.J., PSE&G – Field Biologist

Conducted onsite comparison of effectiveness of currently available water treatment chemicals used in controlling biofouling inside main steam condensers. Responsible for set up of chemical treatment, concentration analysis and QA sampling. Phase I included literature review of cooling water technology, and communications with leading water treatment companies. Phase II consisted of side by side chemical treatments of high potential chemicals using Salem Nuclear Plant cooling water to decide the best candidates for final testing. Final testing included 8 final candidates, and untreated control lines running Salem Nuclear Power Plant cooling water for 45 days continuous running through heated condenser tube sections, and concrete intake structure sections.

Evaluation of Chemical water Treatments to Electric Power Plant Steam condenser Cooling Water, St. Lucie Nuclear Station, St. Lucie, Florida, Florida Power and Light – Field Biologist

Constructed condenser fouling test facility capable of real time data for calculation of loss in condenser heat transfer over a two year period. Conducted daily solution preparation, chemical treatments, and quality assurance sampling. Testing was site specific to include condenser tubes used in the nuclear plant main condenser, and cooling water from the power plant intake canal. The second aspect of the work included simultaneous evaluation of non-toxic protective coatings used in power plant cooling water structures. Coated panels suspended in the plant cooling water system were periodically removed weighted and photographed. The most successful not-toxic antifouling coating was selected for coating the nuclear plant cooling water structures.

Key Projects (continued)

Installation of Real Time Heat Transfer Instrumentation Inside of an Operating Main Steam Condenser, Northport Power Station. Northport, N.Y., Long Island Lighting Company – Field Biologist

Responsible for coordination with utility officials to prepare the main steam condenser for installation of temperature sensors and flowmeter on the intake and discharge tubesheets of the condenser. Conducted confined space entry to work on tubesheet mounting hardware inside the inlet waterbox. Conducted confined space entry to install flowmeters on individual tubes of the discharge tube sheet. Conducted periodic replacement of temperature sensors and flowmeters during the 1 year test period.

Publications and Presentations

Wiebe, D. and D.J. Rogers. Evaluation of Non-Toxic and Protective Coatings for Industrial Cooling Water Systems. Final Report. New England Power Company (1998).

Wiebe, D. and D.J. Rogers. Evaluation and Optimization of Cooling Water Treatment Chemicals (St. Lucie Nuclear Station). Final Report. Florida Power and Light (1996).

Wiebe, D. and D.J. Rogers. Evaluation of Alternative Biocides for Condenser Microfouling Control. Final Report. Long Island Lighting Company (1995).

Wiebe, D. and D.J. Rogers. Optimization of Cooling Water Treatment Programs (Salem Nuclear Plant). Final Report. Public Service Electric and Gas (1993).