

New York Power Authority 138kV Circuit Interconnection Project



PROJECT NAME: 138kV Interconnection Project

PROJECT ADDRESS: Brooklyn, NY

PROJECT DESCRIPTION:

RCMT provided the detailed engineering and design for the installation of a single, three-phase 138kV underground circuit interconnection from the New York Power Authority's (NYPA) Seymour Generating Station to Con Edison's Greenwood Substation. The scope of work included:

- The design of new foundation, steel structures and control wiring for the new breakers, disconnect switches, buswork, relay panels and relay houses.
- The design of a solid dielectric cable system complete with manholes, substation pothead termination, surge arrestors, alarms and controls
- The survey and mapping of the cable route, including subsurface and geotechnical investigation
- The procurement and specifications for all associated equipment and components.

The new connection was made through the installation of approx. 3,000 ft of cable that runs from the NYPA Seymour gas Turbines (GTs) to Con Edison's Greenwood Substation along 24th St. The Greenwood Substation modifications included installation of two new circuit breakers, a pothead structure and two disconnect switches at each breaker and a feeder disconnects to accommodate the generator lead. Design efforts in the Greenwood Substation were collaborative between Con Edison and NYPA. Work in the Seymour Substation included a single breaker, disconnect switches and a pothead.

- Detailed Engineering and Design
- Procurement and Specifications
- Cost Estimates and Scheduling
- Coordination of Meetings and Design Reviews between Con Edison and NYPA

