



SOUTH MEADOW 23KV BREAKER REPLACEMENT

CLIENT: Confidential

LOCATION: Hartford, Connecticut

START DATE: May 2020

COMPLETION DATE: August 2023

PROJECT DETAILS

This project is part of a long-term program to upgrade older oil circuit breakers (OCB) with new vacuum breakers. RLC Engineering performed the engineering services to support the replacement of thirty-eight (38) 23 kV breakers single tank OCBs with Siemens SDV7 non-arc resistant distribution vacuum circuit breakers three (3) - three tank OCBs with either Siemens Type transmission class breakers, seventy-six (76) manually operated switches, three (3) motor-operated disconnect switches, forty-five (45) reactors, and the removal of nineteen (19) group operated grounding switches.

SCOPE OF SERVICES

- Design of steel to support the new breakers on the existing foundations.
- Providing animal protection in accordance with client standards.
- Disconnect switches and lightning arrestors were designed to mount in the existing switch and arrester locations with minimum modifications to the structure.
- Existing breaker control cables were designed to terminate in a new junction box and from there, new cables will be installed into the breaker mech-housing.