



LOCK SUBSTATION 230KV TO 34KV

CLIENT - PECO Energy Company
LOCATION - Bethlehem, PA
COMPLETED - May 2018

DESCRIPTION

PECO's existing Moser Substation capacity did not meet their current load requirements, so the new 230-34 kV Lock Substation was built to supply the required load and support future customers. The new Lock Substation remotely ends at the Limerick and Cromby Substations. Matrix NAC was contracted to assemble and energize the substation.

Despite challenges of lengthy nuclear plant security checkpoints, stringent nuclear procedures requiring specialized equipment, and coordination with other on-site contractors working concurrently, Matrix successfully energized the substation on schedule and safely without injury or incident.

PRINCIPAL FEATURES

- Set and assemble electrical 230kV and 34kV equipment on existing pads
- Erect and assemble 230kV bus structures and 230kV bus, including connections to 230kV equipment in the ring and transformer
- Installation of all conduit and concrete trenching throughout substation to breakers, transformers, disconnect switches, switchgear building, and control building
- Assemble lightning masts and substation lighting
- Installation and secondary wiring of electrical equipment inside substation to control room and switchgear building
- Installation of all 34kV cable from transformers to switchgear, and switchgear to reactors including all terminations
- Installation of SCADA wiring and fiber optics
- Equipment install and wiring inside the switchgear building
- Installation of distribution manholes inside substation
- Grounded new equipment and fencing
- Assisted PECO testing personnel during outages
- 10,600 person-hours

FOR MORE INFORMATION:
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