



MARCY COOPER & EDIC FRASER 345KV SERIES CAPACITOR STATIONS

Customer: Undisclosed

Country: U.S.-New York

Site: Undisclosed

PROJECT DESCRIPTION

In this project Booth & Associates, LLC worked with an Equipment Supplier to design 345kV overhead transmission and design the layout of one 345kV, 240 MVAR series capacitor station and one 345kV, 1230 MVAR series capacitor station. The larger of the two sites had a footprint of 2.7 Acres and was positioned on a sloping surface requiring the use of many retention walls and bus configurations. Booth & Associates, LLC was contracted to do the physical layout of the site in addition to grounding and lightning studies for the facilities. For these studies Booth & Associates, LLC presented the client with multiple options to adequately protect their facilities from lightning and their personnel from fault currents using the Electro-Geometric model and advanced grounding software.



Engineering Challenges:

Multiple Retaining Walls, Gas Lines, Complex 345kV Bus Routing

CONTACT: Michael Clements, m.clements@booth-assoc.com