



GDR SUEZ/United Water PS#1 Electrical Upgrades

PROJECT INFORMATION

CONCORD DIVISION

Power & Infrastructure

PROJECT LOCATION

Haworth, NJ

MARKET

Water Utility

SERVICES

Electrical Engineering

CONSTRUCTION COST

\$6 Million

REFERENCE

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PROJECT SUMMARY

Concord Engineering was retained by Suez Water to evaluate and perform engineering, design, and construction administration services associated with enhancement and replacement of (2) existing MV bus with state of art soft starter motor controller, replacement of existing EM relays with SEL numerical relays in the existing 4.16kV outdoor substation. Suez Water was looking for a solution that would facilitate supplying critical 2500 Hp filtered water pump and air wash blowers with continued planned output to society. Concord provided a creative solution in limited footprint inside the existing plant with phased approach, which included replacement MV controller with soft starter controller MCC, phased replacement of LV MCC, replacement of relays in existing outdoor substation and phasing of construction and cut-overs, thereby minimizing critical system outages.

PROJECT SCOPE OF WORK

- The scope of the work associated with the project includes replacement 800 ft 4.16 power cable in existing duct bank, replacement of (2) 4.16kV MCC with 4.16kV state of art soft starter MCC, Replacement of (1) 1500kVA 4.16kV-480/208V transformers, replacement of (2) 480/277 V MCC, replacement of (2) 208/120V MCC, Replacement of MV diesel generator with LV diesel generator, Replacement of EM relays and with numerical relays in the 4.16kV existing outdoor switchgear and enhancement in the existing lighting system expansion of the existing SCADA system as required to capture the new equipment.
- Project is phased in total 2 groups and 5 phases to keep the plant running in construction phase.