HILSCHER – CLARKE
Electrical Contractors and Engineers

Project Experience

Freshmark

In 2016, Freshmark doubled their facility by adding an addition to their Canton location, and soon noticed they had an electrical problem - they were out of power with their current utility feed and had no room for expansion.

Freshmark is also a customer of American Electric Power, and were fed a 12.47KV service, but were limited to 400amps. Essentially, Freshmark was maxed out on power. Freshmark needed a solution if they were to continue their production capabilities, and AEP suggested the logical option - installing a substation.. AEP would have had to substantially upsize their feed if Freshmark was to remain on the 12.47KV feed. Therefore, Freshmark contacted Hilscher-Clarke to design-build a brand new 69KV substation.

The substation was constructed in two phases - the first in 2016 and second in 2018. The first phase quickly reached capacity; The second phase was constructed to meet the needs of a continually growing facility. Spare disconnect switches were configured into the design to allow for future plant expansion.

The substation is protected by two SF6 circuit breakers, with SEL overcurrent and differential protection schemes. Protective devices and annunciator are installed in a custom, in-house made enclosure. The customer is now supplied with a fully regulated 12.47KV system. Fully automated capacitor banks are utilized for power factor correction.

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Project Experience

Freshmark - During Construction

Freshmark - Post Construction

Proven. Reliable. Sensible.