

# Major Wastewater Treatment Plant Outfitted with Appleton™ Electrical Products by Emerson

## RESULTS

- Sourcing made simple with complete electrical solution.
- Rugged products withstand hazardous and harsh environments throughout plant.
- Extensive line of in stock retrofit compatible products allowed for time sensitive, money saving upgrades.
- Manufacturer provided training on Article 500 of the NEC.



## APPLICATION

Wastewater Treatment Plant

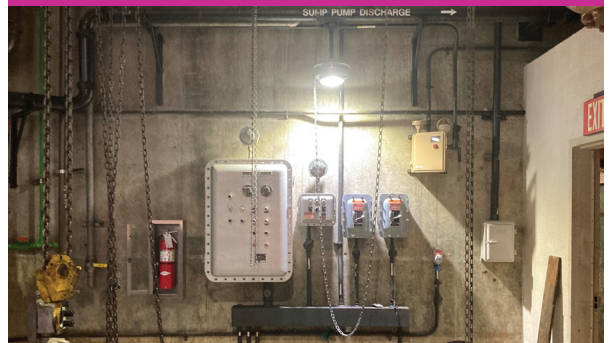
## CHALLENGE

A very large, old metropolitan sewage plant facility was outfitted with inefficient lighting, outdated hazardous location components and legacy products. With four major sewer lines carrying an average of 350 million gallons of wastewater into the plant at any time on non-rainy days, much of the equipment was past its life expectancy. The plant had arranged for a total update to their electrical system; unfortunately, during the renovation a devastating wastewater flood from the primary intake lift station caused all the galleries and vaults to flood. Both the newly installed and preexisting electrical products needed to be replaced immediately to allow the plant to quickly become operational again, thereby supporting the city's and surrounding areas' wastewater needs.

## SOLUTION

Thanks to Emerson's extensive line of Appleton interchangeable electrical products, the plant had greater flexibility in retrofit and maintenance applications. The replacements provided the same or improved features, functionality, and reliability as the product being replaced. The legacy Mercmaster™ II and Crouse-Hinds™ Champ™ VMV hoods were retrofitted with Mercmaster LED Low Profile Luminaires. Areamaster™ LED Luminaires were added to the facility, extending adequate lighting to outdoor areas and improving safety for employees. Previously, Contender™ and EFDB Control Stations were installed. Post-flood, these were changed to Contender 4/4X Control Stations and Tumbler Switches for their NEMA rated water ingress protection. Beyond those mentioned, a variety of enclosures and disconnects were swapped out providing a higher degree of reliability for the plant's electrical infrastructure. To help ensure plant safety, Emerson provided the employees with onsite training seminars covering Article 500 of the NEC and hazardous location certifications. Thanks to the wide Appleton electrical product offering and the extensive knowledge of environmental certifications and ratings required throughout the sewage plant facility, Emerson is now the chosen manufacturer for all their electrical product replacement and upgrade needs.

*Appleton hazardous location LED Lighting, Control Enclosures, Disconnect Switches and Receptacle by Emerson installed in the plant pump gallery.*



Appleton Group LLC  
9377 West Higgins Road  
Rosemont, IL 60018  
+1 800 621 1506

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