



WEST POINT TREATMENT PLANT RECOVERY AND EMERGENCY WORK ORDER PROJECT

Project Summary

Electrical construction in the operating wastewater treatment facility, West Point Treatment Plant. This contract was procured expeditiously to aid in the recovery at WPTP after flooding of a large portion of the facility. This contract consisted of 23 separate work orders each designating recovery work on. This work required an exceptional attention to detail and safety as much of the as-built drawings were destroyed and flooding left residue of raw sewage and various safety hazards strewn throughout the work site, raceways and panels. This required the assistance of Burke and its' suppliers and subcontractors to design, procure and install components and electrical systems simultaneously in an effort to get critical systems online as quickly as possible. This work was conducted in Classified Areas in an industrial wastewater treatment facility.

Burke Electric Scope

This recovery effort was comprehensive and equipment and system scope included various electrical systems, raceway, wiring, grounding, control systems, fire alarm systems, power systems, SPD's, transformers, instrumentation and lighting and distribution etc. replacing seven (7) grinder panels in solids area, remove and replace two (2) transformers and two (2) panelboards, 30amp fused disconnects, clean capacitor and control conduits, repair and megger terminal junction boxes, install intrinsic safety panels and associated relays for new primary sedimentation pre-air floats, remove and replace existing horns and beacons with new equipment, fabricate and install the four sludge sampler panels in the solids area, install new UPS and equipment pad, install intrinsic safety panels and associated relays for new Raw Sewage Wet Well High and High High level floats, replace environmental control panels with a new direct digital control DDC system including associated control devices and sensors in the solids handling area, purchase and install misc. disconnect, receptacles.

Problems Encountered and Solutions Executed

This facility had critical systems that had to be brought back online, or remain online at all times. This required Burke to coordinate closely with King County and the other subcontractors on site to create a master system for lockout / tagout for mechanical and electrical systems including communication with the Ovation System.

Equipment and Systems Overview

- Control Systems
- Ovation System
- Fire Alarm
- Surge Protection devices
- Grounding
- Raceway
- Transformers
- Electrical testing
- Process instrumentation including level sensors
- Digital Direction Control System (DDS)

Offeror Role

Prime Contractor

Client/Owner Information

King County Department of Natural Resources and Parks Wastewater Treatment Division

14100 Discovery Park Blvd.

Seattle, WA 98199

Ken Bergstrom - Project Manager King County DNRP

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Contract Amount & Type

\$4,794,456—Work Order, C041148C17

Project Start and Finish Dates

4/1/2017—8/3/2017

Project Location

West Point Treatment Plant

1400 Discovery Park Boulevard Seattle, WA 98199



Burke Electric Project Personnel

Jimmy Barrom—General Foreman

Kelly Pruss—Foreman

Dominic Burke—Project Manager

Katie Morton—Project Engineer, Safety Manager

