

West Point Treatment Plant Oxygen and Dissolution Systems Modification Project

Project Summary

The work of this contract included the replacement of 24 existing surface aerators and associated equipment with 24 new aerators including motors, Variable speed drives and motor control centers. Work also included installation of a new PLC, UPS and harmonic filters and multiple Dissolved oxygen sensors and transmitters. Burke scope also included providing the integration of the new PLC and MCC's into the County's Emerson Ovation Distributed Control system.

Burke Electric Scope

- Installation of new motor control centers with variable speed drives.
- Replacement of 9 dissolved oxygen probes and associated transmitters. Refer to Plans to determine quantity and location of dissolved oxygen probes to be replaced

Problems Encountered and Solutions Executed

This project generally ran smoothly. Mechanically there were issues with design of the Aeration Impeller that required Burke Electric to disconnect and reconnect each motor multiple times so the Impellers could be removed and adjusted.

Burke Electric Project Personnel

James Traver, *General Foreman*
Scott Mosley, *Project Manager*
Dominic Burke, *COO*
Katie Morton, *Safety Manager*



Equipment and Systems Overview

- Raceway, Conduit and Supports
- 480V Variable Frequency Drives
- (5) 500HP VFD in MCC
- LV SPD
- Dry Type Transformers
- Power Distribution Panelboards, 208—120V
- UPS
- Instrumentation and Controls including process instrumentations, panels, transmitters and integration into Ovation System

Offeror Role

Subcontractor

Owner Information

King County Department of Natural Resources and Parks Wastewater Treatment Division
1400 Discovery Park Blvd, Seattle, WA 98199

Contract Amount & Type

Firm Fixed Price, C01156C17

Customer Information

McClure and Sons, Inc.
15714 Country Club Dr,
Mill Creek, WA 98012
Jon Varriano, *Project Manager*
425.316.6999, jon@mcclureandsons.com

Project Start and Finish Dates

9/18/2017–12/9/2019

Project Location

West Point Treatment Plant
1400 Discovery Park Blvd,
Seattle, WA 98199

