

19-155-3MR, Boilers 3, 4, 5 and MCC Replacement, Stickney WRP

Construction Contract 19-155-3MR, Boilers 3, 4, 5 and MCC Replacement, Stickney Water Reclamation Plant, is being financed by the Clean Water State Revolving Fund (SRF), SRF Loan No. L173807. The SRF program is administered by the Illinois Environmental Protection Agency and receives a portion of its money to fund these types of projects from the U.S. Environmental Protection Agency. SRF programs operate in each state to provide communities the resources necessary to build, maintain, and improve the infrastructure that protects one of our most valuable resources: water.

Service Area: Stickney

Location: Stickney WRP, 6001 W. Pershing Road, Cicero, IL 60804

Engineering Consultant: In-House Design

General Contractor: Path Construction Company, Inc.

Contract Award Amount: \$21,882,000.00

Award Date: May 4, 2023

Contract Duration: 912 Calendar Days

Project Description: The purpose of this project is to replace three existing steam boilers with 75,000 lb/hr (at 100 psi steam) co-fired digester gas and natural gas boilers, replace an existing small deaerator with a redundant 200,000 lb/hr deaerator with four feedwater pumps, install a new air compressor system, install new orifice plate type steam meters for the new boilers, install new MCCs for the new boilers, and modification of DCS controls for existing boilers and new Boilers 3, 4, and 5.

Project Justification: Existing Boilers 3, 4, and 5 are over 30 years old and have reached the end of their useful service life. It is economically justified to replace them due to the significantly increased level of maintenance in recent years. The new boilers would have the same capacity of the current boilers and have the capability to co-fire digester gas and natural gas, however digester gas would be the primary source of fuel to maximize utilization of digester gas.

