

HENNEPIN ENERGY RECOVERY CENTER

Project Showcase

Boiler 2 Secondary Superheater Replacement

About the Facility

HERC located in Minneapolis, MN converts local waste into enough power for 25,000 homes and enough steam to heat and cool the downtown Minneapolis district and Target Field. HERC recovers more than 11,000 tons of scrap metal annually.

The Project Scope

Fabrication and replacement of Boiler 2 Secondary Superheater tubes in Boiler 2—May 2022.

Fabrication

Helfrich Brothers fabricated in their 95,000 SF facility in Lawrence, MA:

1. 16 Headers
2. 1056 1-3/4" OD x 0.200" MW Tubes



Field Installation Work

Helfrich Brothers mobilized to site and removed old Superheater tubes & lower headers. Tubes were cut from the upper headers and access was through the bottom hopper walls.

Tubes were prepped and the new fabricated parts were installed.

Managed emergent work scope - approximately 150 additional upper stubs that needed to be replaced into the headers, with no change in schedule.

2,294 Field Welds were completed. Tubes were inspected and produce zero leaks at first hydro.

Turnkey Team Service

Helfrich Brothers completed this project **Turnkey** using multiple Helfrich Brothers Service Groups:

- ⇒ **Power Fabrication**—fabrication/supply of headers and tubing
- ⇒ **Field Service**—Replacement Header and Tubes
- ⇒ **Plant Service**—Scaffold, Refractory and Insulation

“Helfrich Brothers Boiler Works provided us a turnkey service in fabrication, removal and installation of our new secondary superheater tubes.”

Outage Planner

