

Greater Cleveland RTA

Boiler Control Retrofit • Cleveland, OH

RTA boiler control project provides virtually “immediate” payback with energy savings.

The Greater Cleveland Regional Transit Authority’s (RTA) Central Bus Maintenance and Facilities Operation is located at 2500 Woodhill Road in Cleveland. This facility is the central procurement and inventory distribution facility to support the RTA’s fleet of 650 busses.

Challenge

With energy costs rising, RTA’s management is continually trying to identify areas of opportunity for efficiency improvement. At the Central Bus Facility, a facility walk-through with Gardiner personnel identified the facility’s two main boilers operating with pneumatic controls. The current method of control was not utilizing the boilers’ modulating burners, causing excessive energy use, avoidable annual repairs, and a potentially shortened equipment life. The RTA needed a cost-effective control solution that would solve the boiler control issues and pay for itself in the process.

Solution

Gardiner recommended a retrofit to upgrade the boilers from pneumatic to direct digital controls to save on both energy and repair costs. In fact, the proposed project would pay for itself in well under one heating season. The scope included removal of existing controls, as well as the installation and programming of the new controls. Training was provided to give RTA personnel the independence to operate their boiler controls effectively through the easy-to-use touchscreen interface on the control module.



RTA Central Bus Facility • Cleveland, OH

The RTA serves 59 Northeast Ohio communities and 1.4 million people by providing bus, railway, rapid transit, para-transit, and community circulator services. In addition, the organization is also one of Greater Cleveland’s largest employers, with over 2,500 employees.

Building Specifications

Building Type

Mixed Use - office, bus garage, and maintenance facility

Facility Heating System

2-15,000,000 BYU Boilers

Facility Use

Procurement & Distribution for All

RTA Bus Operations

650 Buses

1500 Shelters

101 Local Routines

55.5 Million Annual Passenger Trips

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Results

The boiler control retrofit project was completed by Gardiner's staff and has provided the RTA with state-of-the-art digital control of its heating system. More importantly, the project provided the RTA with a virtually instant return on investment from the energy and repair cost savings. RTA to save energy for years to come with proper boiler control and potentially extended equipment life. The Greater Cleveland RTA relies on its Central Bus facility to facilitate the vast operations and responsibilities for its local community bus lines.

“This is a project that simply made sense to do. Gardiner completed the work professionally and provided excellent operator training.”

Gil Crawford, Facilities Manager



Systems Overview

- Smart Boiler Controls
- Pump Controls
- Programmable Control
- Touchscreen Display
- Current Transformers
- Temperature Sensors

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*For more information on Gardiner Solutions, visit
www.whgardiner.com or contact us at 440.248.3400*