Customer Success Story

Location: United States

AMI system extends lifespan of boiler equipment

Water quality issues can lead to scaling, fouling, and downtime of boiler equipment.

Challenge

A company faced water quality challenges and need to optimize its boiler system's performance.

Municipal feedwater includes impurities and high levels of minerals such as calcium, magnesium, and silica.

The boiler feedwater treatment room had a confined footprint, so any water treatment solution would need to fit inside the room.

The client reached out to Applied Membranes for a solution.

Solution

Applied Membranes custom-engineered, built, and commissioned a **50 GPM (12 m3/h)** Reverse Osmosis (RO) system for boiler feed water treatment application.

AMI RO system is skid-mounted and integrated seamlessly into the boiler feed water treatment building, with pre-filtration prior to the system.

Key Features:

- Antiscalant
- Twin softener
- Carbon filter
- Clean-in-place skid
- Programmable Logic Controller

Results

Applied Membranes developed a customized RO system for the client's boiler water treatment application.

The high-quality treated water from the AMI RO system meets strict quality standards required for boiler feed water.

Within weeks of commissioning the RO system, the client noticed significant improvements in their boiler system performance including reduced scaling and fouling in boiler water equipment, which extended the lifespan of critical components and equipment.

The AMI RO system provides consistent reliability and quality, resulting in cost savings and increased productivity for the client's operations.

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