Customer Success Story

**Location:** US

# Applied Membranes commissions new state-of-the-art RO plant for municipality

Municipalities may need upgraded water treatment systems to meet growing demand for clean and safe water within their communities.

## Challenge

A municipality in the U.S. sought a new water treatment system to replace an existing system that was outdated and no longer meeting its needs.

The project involved the design, construction, and installation of a low-pressure reverse osmosis (LPRO) water treatment plant to treat well water. There would need to be two separate treatment trains, each dedicated to a different well.

The project required careful sequencing of activities to ensure continuous operation of the existing plant while the client's water treatment room was undergoing construction upgrades. Strict deadlines were established for the new RO plant delivery and installation.

Due to its extensive experience and reputation in building new plants and retrofitting water treatment facilities, Applied Membranes emerged as the preferred water treatment system supplier.

## Solution

Applied Membranes engineered, built, and commissioned a state-of-the-art low-pressure RO (LPRO) plant producing **2 million gallons per day (MGD) (380 m3/h).**

The plant included two (2) trains with skid-mounted feed booster pump, cartridge filtration system, membrane feed pump, piping, controls, and related components.

Equipment was thoughtfully selected, and the AMI plant was strategically designed based on the client's feedwater analysis and footprint constraints. The plant was factory tested at Applied Membranes prior to shipment.

**Key Features:**

- Booster pump
- Antiscalant
- Chemical injection system
- Clean-in-place system
- Programmable Logic Controller (PLC)

## Results

Applied Membranes commissioned a robust RO system for the municipality according to client specifications and timelines.

**Engineering:** The fully skid-mounted AMI RO plant was successfully built, factory-tested, and installed, achieving 85% water recovery rate.

**Onsite support:** In addition to completing installation and start-up, Applied Membranes provided key documentation and training to empower the municipality's personnel in maintaining and operating the system.

**Collaboration:** Applied Membranes worked closely with the General Contractor (GC), adhering to project plans and specifications to ensure seamless integration of the water treatment plant into the client's upgraded infrastructure.

The new plant met the needs of the municipality and positioned Applied Membranes as a reliable partner for future water treatment projects.

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