

MPW eliminates delay at power plant commissioning



**TEMPORARY
MOBILE RO,
MEDIA
FILTRATION
SYSTEMS
COMPLY WITH
ZERO LIQUID
DISCHARGE
REQUIREMENT**

At a start-up commissioning at a power plant in Wyoming, the water balance was out of sync with the assets available to handle it. Water levels were threatening to breach the pond at this zero liquid discharge site. The water that was to be used when in normal operation for the flue gas scrubbers was collecting in a pond and was growing in depth quickly. The pond was made for operations, not commissioning.

If the plant had elected to haul the water via tankers to an approved discharge facility, it would have eventually delayed the commissioning of the project, which would have been cost prohibitive.

SOLUTION

The ideal solution was MPW's reverse osmosis (RO) technology coupled with media filtration for pretreatment of the wastewater.

High-conductivity wastewater can be difficult to treat with RO, but it can still be the most efficient process, especially in a temporary situation.



RESULTS

MPW crews ensured the commissioning was not lengthened due to any water issues.

MPW purified over 7.5 million gallons of water during this project, which lasted nearly two months. Approximately 5 million gallons were reclaimed and further

processed to create boiler makeup water.

The pond that started out at 6,000 $\mu\text{S}/\text{cm}$ increased to 11,000 $\mu\text{S}/\text{cm}$ due to the need to return the concentrate stream of greater than 20,000 $\mu\text{S}/\text{cm}$, and therefore cycle up the pond.

**COMMITMENT
TO SAFETY**

**MPW
recorded
zero safety
violations
during this
project**