



MPW's mobile filtration and RO system solves evaporation-pond quandary

Problem

A North Dakota power plant was not running at full capacity, which caused a water imbalance. This condition led to the evaporation pond levels rising to near overflow conditions. Plant personnel were concerned they could be put in a situation where they would have to violate EPA regulations, which would have led to the plant shutting down.

A history of similar projects and positive results within the parent company led the power plant to choose MPW Industrial Water for this essential project.

Solution

MPW's Applications, Field Service and Sales teams combined to devise the best answer to the client's situation: Wastewater of 5,500 $\mu\text{S}/\text{cm}$ was partially reused in the cooling tower, while the level of the pond was reduced. Meanwhile, the concentrate was sent to another pond.

MPW's system utilized mobile media filtration and reverse osmosis [RO], which are the optimal temporary methods for such a situation. Normal expectations for RO technology would top out around 2,500 $\mu\text{S}/\text{cm}$, but this application reached 5,500 $\mu\text{S}/\text{cm}$.

Results

MPW's solution purified nearly 20 million gallons of water and eliminated any potential EPA regulations.

The plant remained in operation during the one-month project and the pond levels were reduced to a safe and manageable level to allow continued operations.

