

Tekkem Slaking System - Aurora, Illinois

Project Profile



Above:

Main entrance to the Aurora Water Plant which has the Tekkem Slakers and all other treatment systems.

Sources of water for the Aurora Water Treatment Plant include surface water from the Fox River and a blend of several deep and shallow wells which draw from the Cambrian- Ordovician Aquifer system. The Aurora water treatment facility is capable of producing 28 million gallons of water per day. Well water is collected and transmitted to the Plant where it is combined with Fox River water. The water is then lime-softened, filtered, disinfected and discharged into a 4 million gallon reservoir.

Location:
Aurora, Illinois

Engineer:
Crawford, Murphy and
Tilly Inc.

Permitted Plant Flow:
28 MGD

Installation Date:
2002



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The existing system had no bin activator and used a traditional lime paste type slaker. The slurry paste was then diluted and flowed by gravity to the existing softeners



The new system included Bin Activators for each silo and Tekkem floor mounted 4,000 lb. per slakers. More efficient grit removal was accomplished using stainless steel circular vibrating screens. A Slurry Aging Tank was installed on the floor below



After initial start up of the Tekkem Slakers, the plant reports a quicklime savings of approximately 10%. Further side by side testing of the Tekkem Systems yielded an additional 9% quicklime savings. The additional savings was achieved by operating the Tekkem Slakers in the Super Heated mode vs the Normal mode. For additional test results contact us at sales@rdptech.com



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Lime slurry is pumped from one of two new Slurry Aging Tanks using double disc pumps. Each pump is dedicated to serving one of five softening basins



1 of 5 ClariCones™



Tekkem Slaker and circular stainless steel vibrating screen



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