



DELANO BIOMASS II

Location:	Delano, California	Capacity:	50 GPM
Engineer:	Water Control Associates	Feed Source:	Cooling Tower Blowdown
Market:	Power-Cogeneration	Feed Quality:	3500 mg/l TDS
Membrane:	Fluid Systems 8" Seawater TFCL	Start-Up:	October 1992

Project Highlights: Delano Biomass is a state of the art co-generation facility. The cooling tower water is recycled and reused.

A portion of the cooling tower water is treated by reverse osmosis to produce good quality make-up water. The RO system acts as a kidney on a side stream of the cooling tower make-up water to control salt build-up in the system.

Working with the power plant supplier (Thermo Electron) and the overall water treatment engineer (Water Control Associates in New Jersey), Hydropro supplied a seawater reverse osmosis unit with duplex RO pumps and micron filters mounted on two skids. WCA supplied the system controls as well as the pre- & post-treatment equipment.

The system is designed to operate at 50% recovery to minimize RO operational problems and to keep a proper salt balance in the cooling tower water.