



ISLE OF PALMS - TRAINS 1 & 2, TRAIN 3

Location:	Isle of Palms, South Carolina	Capacity:	1.2 MGD
Engineer:	Thomas & Hutton	Feed Source:	Deep Wells
Market:	Municipal	Feed Quality:	1260 TDS
Start-Up:	Train 1 & 2: May 1993	Start-Up:	Train 3: January 1995
Membrane:	Fluid Systems 8821 LP TFC	Membrane:	Hydranautics CPA2

Project Highlights: Isle of Palms is a coastal resort town on the Atlantic coast of South Carolina. Hydropro was first selected in 1993 to supply Trains 1 & 2, providing the town with its initial 0.8 MGD plant. Two years later due to rapid growth, the plant was expanded to its full 1.2 MGD capacity and Hydropro was once again selected to do the work.

The Hydropro system is indicative of a compact municipal design with the inclusion of an antiscalant system, micron filtration, cleaning system, Programmable Logic Controller and operator interface controls. Train 3 contains a submersible Torpedo pump in an FRPCAN controlled by a VFD, horizontally mounted to the bottom of the skid.

Hydropro's design offers a variety of operating options with the ability to throttle the first stage product and blend capabilities. The final product of this system is a blend of RO permeate and raw water.