



Shoal Creek Filter Plant SCADA System & Intake/Pumping Station

Client: Gwinnett County, GA Department of Water Production

Location: Buford, GA



System Features

- DYNAC® SCADA Software •
- Redundant Servers •
- PLCs •
- Ethernet LAN •
- Fiber Optics •



**Construction
Management Achievement
Award**

*--Construction Management
Association of America*

Plant of the Year

*--Georgia Association of
Water Professionals (GAWP)*

Gwinnett County, GA Department of Water Production is committed to providing clean, safe drinking water to more than 600,000 citizens. Recently, the ninety MGD Shoal Creek Filter Plant was constructed to help ensure water quality demands are met. Not only does the new plant provide redundancy to the system, but it also works in accord with the Lanier Filter Plant to increase water treatment capacity from 150 MGD to 300 MGD. Both plants employ an ozone system for disinfection and work as one to produce drinking water.

To help the County meet projected drinking water demands through the year 2050, Transdyn supplied complete process instrumentation and controls for the entire plant including application engineering, configuration, start-up and commissioning. Transdyn provided a redundant SCADA system running on DYNAC® SCADA software and the system has a complete redundant network.

A central data management system consisting of workstations, monitors, printers, networking equipment, and a main control console was also installed. Programmable Logic Controllers (PLCs) connected to the data highway via fiber optics were also provided for a variety of plant processes.

Providing water supply to both filter plants, the Shoal Creek Intake and Pumping Station provides redundancy to the system. In the event of an emergency situation, the intake and pumping station will act as a valuable backup source by providing drinking water to the citizens of Gwinnett County.

Transdyn provided a remote workstation and redundant PLC controllers that monitor the Shoal Creek pump station functions and sends data back to the Shoal Creek Filter Plant.