



Lanier WTP Distributed Control & SCADA System

Client: Gwinnett County, GA Department of Water Resources

Location: Buford, GA



System Features

- DYNAC® Software
- Integrated Plant and SCADA System
- High Availability Architecture
- Redundant 64-bit Servers
- Redundant Ethernet
- Distributed Controllers
- Redundant Fiber Optic Data Highway
- PLC based Remote Terminal Units
- 4000 DYNAC® Points
- Radio Communications

The 150 MGD Lanier Water Treatment Plant is one of the most important water production plants in the Southeast. Serving all of Gwinnett County and portions of other metro Atlanta counties, this modern facility is one of the largest plants in the country utilizing ozone as the primary method of disinfection. As part of a plant expansion in which plant capacity was expanded by fifty MGD, Transdyn provided a fully integrated plant control and SCADA system.

Managed by Transdyn's DYNAC® software suite, the system enables operators to monitor and control the Lanier Water Treatment Plant, the countywide water distribution system and storm water facilities. Redundant servers and operator workstations located in the main control room manage distributed control units and remote workstations located throughout the facility via a redundant fiber optic Ethernet network.

The same servers which control the plant also manage remote programmable logic controllers at pump stations, storage tanks and pressure point sites via independent spread spectrum radio links which are networked to the plant using the County's trunked radio system.