



QUICK FACTS

Market:	Healthcare
Design:	Field Erected
Scope:	Turnkey/EPC
Owner:	Jacksonville Electric Authority
Location:	Jacksonville, FL
Project Completed:	August 2004 – April 2005
Plant Specs:	7,500 TR chilling system 21,000 GPM tower capacity

JEA SHANDS

District Cooling

The Jacksonville Electric Authority (JEA) district cooling plant for Shands Hospital was third in a series of district cooling plants to support the city of Jacksonville's downtown infrastructure investment program. The plant was to support the Shands Jacksonville Medical Center, a 635-bed academic hospital.

Stellar Energy provided comprehensive design-build services for a district cooling plant to distribute and circulate chilled water to Shands Jacksonville Medical Center. The project included five chillers for a capacity of 7,500 TR. The field-erected tower has a capacity of 21,000 GPM.

The key considerations of this project were lifecycle cost and energy efficiency. Stellar Energy managed a special chiller configuration with Trane in order to achieve superior lifecycle efficiency targets identified by the client.

Objectives of the project also included:

- Incorporating excellent access to all components for easy maintenance, and lower maintenance labor costs;
- Integrating architectural elements from the surrounding environment and JEA's specific architectural requirements to ensure the plant was aesthetically pleasing;
- Designing a solution that allows for future expansion and ease of construction;
- Uptime guarantees and redundancy; and
- Installation with minimum impact to the environment, traffic patterns, business operations and the ongoing business of Shands Medical Complex.

