

Project:

Wilson Water Treatment Plant
Generator & Switchgear Installation
CAW #1144/Job 4401

Location:

Little Rock, AR

Owner Representative:

Central Arkansas Water
Blake Weindorf, P.E.
1500 West Maryland Ave.
N. Little Rock, AR 72120
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Project Manager/Engineering:

Garver Engineers
Bruce Brown
1010 Battery St.
Little Rock, AR 72202
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Contract Award / Completion Date:

August 2005 / October 2007

Original / Final Contract Amount:

\$3,385,583 / \$3,709,955



Description of the project:

Koontz Electric is the prime contractor to upgrade the Central Arkansas Water Wilson Water Treatment plant electrical infrastructure, and provide emergency backup generators to provide the families of Little Rock and North Little Rock with a reliable water system.

Major feature of work related to this project are:

1. 17 feet wide x 72 feet long control building with 19 sections of medium voltage switchgear, DC batteries, battery charger, low voltage panels, light, receptacles, and misc. items.
2. (2) 1600 KW 2400-volt emergency generators with outdoor enclosures, and generator controls. Weight approx. 100,000 lbs.
3. Installation of approximately 1,750 feet of under ground duct bank to include the installation of required medium voltage cabling.
4. Installation of (3) new man holes for the duct bank system.
5. Grounding of the transformers, control building, and emergency generators.
6. Installation of fiber optic cable from control building to plant network, and required network equipment.
7. New base course driveway.
8. New concrete retaining wall.
9. Transformer foundation.
10. Control building foundation.
11. Emergency generators foundation.
12. Exterior brick wall around control building.
13. Demolition of existing service entrance conductors, and other misc. plant feeders.
14. Demolition of existing electrical substation, currently feeding the Wilson Plant.
15. Sodding of the construction area.
16. Accomplish all demolition and new circuit connections while maintaining operation of Central Arkansas' most critical treatment plant. The plant has a rated capacity of 150 millions gallons per day (MGD).



Wilson WTP Generator & Switchgear