

PANEL FAB / SCADA & INSTRUMENTATION PROJECTS





INTRODUCTION

Koontz Electric Company, Inc., (KECI), welcomes an opportunity to make your next project a success. We maintain a professional and technical staff to support our experienced field craftsman. We pledge to safely deliver a quality finished product in a timely manner, and at a competitive cost.

KECI is a diversified heavy industrial electrical contractor. We perform a wide array of contracts specifically chosen for technical and installation complexities. KECI's team supports the total spectrum of power, control, and instrumentation system needs. We have proudly served Arkansas and the nation for over 50 years. In just the last ten years we have completed over 200 projects in dollar volume exceeding \$150 million. We have never failed to complete a project.

Numerous repeat customers, universal customer satisfaction, and our strong industry reputation, is positive feedback that our approach delivers. A fervent commitment to safety, quality, timely schedules, and cost control, are the keys to our success and longevity. Our professional office and field staff, diverse work history and over five decades of experience, uniquely qualify us for the most challenging projects.



U N D E R C O N S T R U C T I O N

Project:

TX / Texas Lakes Flood Controls / USAEDFW

Contract No. W9126G-07-C-0004

KECI Job No: 062171

Location:

Various Lakes Throughout Texas, Including: Grapevine, Lewisville Lake, Waco Lake, OC Fisher, Proctor Lake, Navarro Mills, Town Bluff, Wright Patman, Lake O' the Pines, Lake Lavon, Whitney Lake, Hords Creek, Benbrook

Owner Representative:

U.S. Army Corps of Engineers
Fort Worth District
819 Taylor Street, Room 2A19
Attn: CESWF-CT
PO Box 7300
Fort Worth, Texas 76102
Eddie Lippe (254)879-2424
Eddie.Lippe@usace.army.mil

General Contractor:

Koontz Electric Company, Inc.
1223 East Broadway
Morrilton, AR 72110

Subcontractor:

Arkansas Industrial Computing
6100 Getty Drive
Sherwood, AR 72117
Tim Epperson (501)834-9540

Subcontractor:

The OMI Companies
P.O. Box 1719
Rockwall, TX 75087
(972)636-2090

Start & Estimated Completion Date:

12/2006 – 3/2010

Original / Revised Contract Amount:

\$4,128,838 / \$5,351,442

Scope of Work:

Koontz Electric was awarded a multi-site design / build contract through the Fort Worth District of the U.S. Army Corp of Engineers throughout the state of Texas to control the water ways operated by the Corp of Engineers. Koontz Electric was selected from a list of contractors based on a "Best Value" solicitation.

Koontz Electric provided all management, tools, labor, and new materials to complete scope of work under this contract. The scope of work include controls for tainter gate spillways, outlet work structures, and crane controls. Several of the controls systems required remote operation and limit switch replacement, and installation of hydraulic valves which were determined by the (COE). Koontz Electric removed and disposed of existing control panel and wiring, install new COE approved 480v control panels, integrated new panels and wiring into existing hoist system equipment and devices, replaced existing wiring between the panels and associated devices such as the motors, terminated to existing hoist equipment, calibrated limit switches, reported degraded conduit, ran performance test, and corrected performance problems. Koontz Electric replaced various electrical components such as breaker panels, feeders to gate operators, main service feeders, addition of ground wiring to meet IEEE standards, transfer switches, and distribution centers.



Texas Lakes Flood Controls



Project:

LA /Schooner Bayou
New Orleans COE

Contract:

W912P8-09-R-0019

Location:

Schooner Bayou Control Structure
Leland Bowman Lock
29995 HWY 333
Abbeville, LA 70510

Owner Representative:

USACE, New Orleans District
7400 Leake Ave
New Orleans, LA 70118-3651
Attn: CEMVN-CT-W, Room 172
Lauren Gandolfi
Phone (504)862-2340
Fax (504) 862-2889

General Contractor:

Koontz Electric Company, Inc.
1223 East Broadway
Morrilton, AR 72110

Start & Estimated Completion Dates:

February 18, 2009 / May 4, 2009

Original / Final Contract Amount:

\$392,293 / \$406,324



Description of the project:

The project consists of replacing the current hard-wired control system with a Programmable Logic Control (PLC) System, and providing a hard-wired backup control system including new control wiring. Also included was the installation of a new CCTV system to monitor the sector gates.



Schooner Bayou Control Structure



U N D E R C O N S T R U C T I O N

Project:

Bayou Boeuf
Swing Span Rail Road Bridge
KECI Job No. 081217

Location:

BNSF Railway Company
Bridge 73.31 over the Bayou Boeuf
on L.S. 1281 Near Amelia, Louisiana

Owner:

BNSF Railway Company
4515 Kansas Avenue
Kansas City, KS 66106
Byron Borns
Ph. (913)551-4176
Fax (913)551-4099

General Contractor:

OCCI
3200 County Road 257
Fulton, Missouri 65251-3101
Ted Kettlewell
Ph. (573)642-5763

Architect Engineer:

Harrington & Cortelyou, Inc.

Subcontractor:

Koontz Electric Company, Inc.
1223 E Broadway
Morrilton, AR 72110

Start & Estimated Completion Date:

January 2009 / February 2010

Original / Final Contract Amount:

\$2,636,577 / \$2,656,843

Scope of Work:

Koontz Electric was awarded the electrical, controls, instrumentation, and PLC programming for the Bayou Boeuf swing span rail road bridge over the Bayou Boeuf near Amelia, Louisiana for Burlington Northern and Santa Fe Railway Company. This railway bridge has to be changed out in a 96- hour window, from start to finish so railway and navigation traffic will not be interrupted. This work includes the following feature of work:

- Installation of submarine cable from the land to the center pier of the swing span structure.
- Installation of new grounding system.
- Installation of (8) cable termination cabinets.
- Installation of (1) new generator house.
- Installation of (1) new operator control house.
- Installation of (1) new motor control center.
- Installation of (1) new electrical service.
- Installation of (1) 100-KW emergency generator, annunciator panel, and automatic transfer switch.
- Installation of (1) public address system to include desk top microphones and bidirectional loud speakers.
- Installation of (2) navigation horns.
- Installation of (22) navigation lights.
- Installation of closed circuit television system to include server rack, digital recorder, monitors, and illuminator cameras.
- Installation of fire alarm system.
- Installation of lightning protection system.
- Installation of telephone and data system.
- Installation of (1) rotating cam limit switches.
- Installation of new absolute encoders.
- Installation of (10) wedge limit switches.
- Installation of (12) joint limit switches.
- Installation of (2) Flux Vector Drives.
- Installation of (2) flux vector motors.
- Installation of Bridge Closed Plunger Limit Switches.
- Installation of electrical panels, transformers, and disconnect switches.
- Installation of new lighting.
- Construction of new PLC control cabinet.
- Construction of new rail system operator bench board.
- Perform all PLC programming.
- Perform Arc Flash Protection Study.

Bayou Boeuf Swing Span Rail Road Bridge



Project:

Reynolds Substation
Electrical Install for 115kV Substation
KECI Job No. 082192

Location:

Reynolds Substation
1333 Highway 270
Malvern, Arkansas 72104

Owner:

Reynolds Hot Springs
Continuous Casting
1333 Highway 270
Malvern, Arkansas 72104
Danny Williams
Phone: 501-844-2222
Fax: 502-775-4366



Description of the project:

The installation, testing and placing in service the electrical and control system for the 115kV substation upgrade.

General Contractor:

Koontz Electric Company, Inc.
PO Box 501
1223 East Broadway
Morrilton, Arkansas 72110

Contract Start / Completion Date:

November 2008 / December 2008

Original / Final Contract Amount:

\$250,000 / \$250,000



Reynolds Substation Electrical System Install



Project:

Emsworth Lock & Dam Gate Machinery & Electrical Replacement, Emsworth Lock & Dam

Contract No.:

W911WN-05-C-0003
KECI Job No.052164

Location:

Ohio River, Allegheny Co.
Pennsylvania

Owner Representative:

Dept. of the Army, Corps of Engineers
Pittsburgh District
Eastern Area Office
0 Western Ave
Pittsburgh, PA 15202-1708
Owner Rep: John Pontius 412 395-7543

General Contractor:

OCCI, Inc.
3200 County Road 257
Fulton, MO 65251
Ted Kettlewell
Ph. 573-642-6087

Original / Revised Subcontract Amount:

\$2,075,325 / \$2,180,911

Completion Date:

April 2008



Description of the Project:

This work will consist of the replacement of all gates (6) on the back water dam. The existing gate machinery will be replaced with new hydraulic cylinders. New 480V gate machinery houses will be installed. New 480V motor control center, and back up generator will be installed, to include the upgrade and installation of new 480V service entrance power. All control panels for the new 480V gate machinery will be built and installed by Koontz. New 480V power, control circuits, grounding, lightning protection, and fiber optic will be installed. All conduit will be replaced with new. This project is a total rehabilitation of the back water dam.



Emsworth Gate Machinery & Electrical Replacement

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
Ph. 501-377-1212
Fx. 501-210-4980

Project Manager/Engineering:

Garver Engineers
Bruce Brown
1010 Battery St.
Little Rock, AR 72202
Ph. 501-376-3633
Fx. 501-372-8042

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

Project:

Water Distribution SCADA System
For North Little Rock Sites

Location:

N. Little Rock, AR

Owner Representative:

Central Arkansas Water
Thomas Wray
221 E. Capital Ave.
Little Rock, AR 72202
Ph. 501-992-2445
Fx. 501-868-4392

Architect/Engineer:

Garver Engineers
Malcom Koros
1010 Battery St.
Little Rock, AR 72202
Ph. 501-376-3633
Fx. 501-372-8042

Original / Final Sub Contract Amount:

\$379,848 / \$382,491

Start & Completion Date:

May 2003 to July 2004



Description of the Project:

Replace existing Supervisory Control and Data Acquisition (SCADA) System equipment in CAW facilities located north of the Arkansas River (The improvements would eliminate incompatibilities that currently exist with equipment at the Jack H. Wilson Water Treatment Plant.)

Ozark Plant SCADA Control System and Master Radio System; Scenic Hill Pump Station/Tank 24 Repeater Type RTU with cavity filter; Harris Road LCV Type 1 RTU with 30" wooden pole mounted antenna; Indian Hill/Tank 22 Link Type RTU with two (2) top of tank mounted antennas; Five Mile Creek Pump Station 27 Type 2 RTU with 30' wooden pole mounted antenna; Galloway/Tank 21 Type 1 RTU with tank leg mounted antenna; Airport Pump Station/Tank 26 Link Type RTU with two (2) 40' wooden pole mounted antennas; North Pulaski Metering Station Type 2 RTU with 30' wooden pole mounted antenna; Jacksonville Metering Station Type 2 RTU with 40' wooden pole mounted antenna; Montgomery Pump Station/Tank 23 Type 1 RTU with 30' wooden pole mounted antenna; Park Hill Pump Station/Tank 25 Type 1 RTU with 20' wooden pole mounted antenna and telephone telemetry unit; and 29th Street Pump Station Telephone Telemetry Unit.

Project:

Conway Substation SCADA
Electrical Design/Build

Location:

Conway, AR

Owner Representative:

Conway Corporation
City of Conway
Dale Gottsponer
P.O. Box 72033
Conway, AR 72032
Ph. 501-450-6049
Fx. 501-450-6093

Architect/Engineer:

McGoodwin, Williams & Yates
Brian Gartside
909 Rolling Hills Dr.
Fayetteville, AR 72713
Ph. 479-443-3404

Contract Amount:

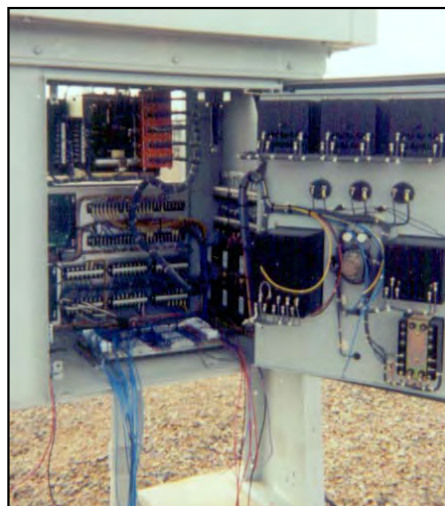
\$539,903
Including Change Orders \$8,388
COs for additional Fiber and
Optical Drive

Start & Completion Date:

Oct-1999 to Apr-2000

Description of the Project:

SCADA Hardware, Software & Configuration For Remote Monitoring and Control of Equipment in three Electrical Substations. Project was completed without any lost time accidents or OSHA recordables. Koontz Electric encountered extreme cold weather and resolved by erecting temporary environmental shelters.





Koontz Electric Company, Inc. welcomes an opportunity to make your next project a success. We maintain a professional and technical staff to support our expert field team of technicians and craftsman.

Please contact any one of the Koontz Management Team listed below for more information.

Name	Title	Cell Phone	Email
Benny Koontz	President / CEO, Ext. 111	(501) 977-6086	benny@koontzelectric.com
Dean Hoover	Vice President / COO, Ext. 110	(501) 977-6063	dean@koontzelectric.com
W. Mark Day	Vice President / CFO, Ext. 104	(501) 977-6528	mark@koontzelectric.com
Don Barnett	Business Development, Ext. 133	(501) 289-0720	d.barnett@koontzelectric.com
Jeff Ludwig	Project Manager, Ext. 118	(501) 977-6098	jeff@koontzelectric.com
Keith Foster	Project Manager / Estimator, Ext. 113	(501) 977-6107	keith@koontzelectric.com
Jamie Zimmerman	Project Engineer, Ext. 135	(501) 977-6538	jamie@koontzelectric.com
Paul Zimmerman	Project Engineer, Ext. 102	(501) 977-6545	paul.z@koontzelectric.com

