



MURRAY BRIDGE PHASE II AESTHETIC LIGHTING

CONTRACT NO / AWARD DATE:

W9127S-06-C-0010 / April 4, 2006
KECI NO 05-1193

JOB SITE LOCATION:

Murray Lock & Dam
Little Rock, Arkansas

OWNER:

US Department of the Army
Corps of Engineers
Little Rock District
Little Rock, AR

Point of Contact: Rod Garner

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GENERAL CONTRACTOR:

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

Project Manager: Bryce Koontz

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INITIAL MOBILIZATION / COMPLETION DATE:

April 2006 / August 2007

AWARDED / CURRENT CONTRACT AMOUNT:

\$887,788 / \$1,011,154

SCOPE OF WORK:

Phase II of the Murray Pedestrian Bridge Project was labeled the Aesthetic Lighting Phase. This phase of the project was designed to illuminate the bridge with high output LED's which are capable of producing white light and color light. Through lighting controllers and computer software, the entire lighting system is capable of producing light shows and different themes according to how it is programmed. The technology to light the bridge was developed by SACO Technologies and Illumivision Inc... The SACO/ SMARTVISION LED Screen technology has been adapted to fit the high intensity LED market and this engineering has resulted in a uniquely intense and highly efficient line of LED systems. The Lighting Design was done by John Rogers in conjunction with Illumivision Inc.

The Light Wave LX LED Fixture is a stylish, compact wall-washing light that generates rich, uniform colors and color changing effects. This fixture is best suited for applications that require large wall washing and long throw capabilities. In addition, the Light Wave LX is equipped with a "pin-lock" system which allows for flexible fixture positioning. The Light Wave LX is IP 66 rated and is easy to install, operate and maintain.

KECI was responsible for installing approximately 169 Light Wave LX LED Fixtures at various locations on the face of the Murray Lock and Dam. The fixtures illuminate the "Big Dam Bridge from underneath, and are installed on the 13 of the 20 plus piers which now support the "Big Dam Bridge. In addition to the fixture installation, KECI was responsible installing all of the associated raceway, junction boxes, lighting control equipment, and wire and cable which tied the system together to make it operational.

What made the project especially challenging was that all of the fixtures and most of the material had to be located on the face of the dam piers where there was little access to work. Most of the work was accomplished by hanging off of a safety line suspended above the Arkansas River.

