



Media: KCP&L
Tom Robinson
(816) 556-2902

Burns & McDonnell
Roger Dick
(816) 822 3339

Investor: KCP&L
Todd Allen
(816) 556-2083

FOR IMMEDIATE RELEASE:

**Kansas City Power & Light Awards Iatan 2 Power Plant Project
to Burns & McDonnell**

*New plant part of KCP&L's comprehensive energy plan to meet future energy,
environmental and economic needs of the Kansas City area*

Kansas City, Mo. — (December 8, 2005) — Kansas City Power & Light (KCP&L), a subsidiary of Great Plains Energy (NYSE: GXP), announced today that Burns & McDonnell has been selected to provide detailed engineering design services for the new Iatan Unit 2 850-megawatt (MW) coal-fired electricity generating plant, which will be built on the existing Iatan power plant site near Weston, MO. Burns & McDonnell will also provide KCP&L with project and construction management support for the project.

Detailed project engineering and design will commence immediately, followed by procurement of the boiler, steam turbine and air emission control equipment in Spring 2006. Plant construction will start later in 2006.

The Iatan 2 plant, which is currently targeted to go into service in 2010, is a significant component of KCP&L's long-term comprehensive energy plan to maintain an affordable and stable supply of electricity in the Kansas City region. Iatan Unit 2 will be a high efficiency, coal-fired power plant featuring state-of-the-art emission control equipment designed to exceed current and future clean air requirements. KCP&L will

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own approximately 500 MW of the Iatan Unit 2 capacity with the remainder jointly owned by other local electric utilities.

KCP&L's plan is designed to address the increased demand for affordable electricity within the Kansas City region, and to provide the reliable energy needed to support continued growth and economic development in the area.

“Selection of Burns & McDonnell is another important step as we move forward with our comprehensive plan to meet the Kansas City region's long-term energy needs,” said Mike Chesser, chairman and CEO of Great Plains Energy. “In Burns & McDonnell, we have an experienced engineering firm with a track record of bringing projects in on time and on budget. They have strong credentials in the construction of clean coal power plants. Iatan 2 will be a state-of-the-art power facility that will provide clean, affordable, and reliable energy for this region for the next 30 to 40 years.”

Bill Downey, president and CEO of KCP&L said: “Burns & McDonnell is a long-time, valued partner and a local company that, along with us, understands the importance of building additional generating capacity. Iatan 2 will play an important role in supporting continued economic growth and job creation in Kansas City, and we are pleased to have Burns & McDonnell as our partner in this project. ”

Iatan 2 construction will result in approximately 1,000 jobs created during the peak of construction activity over the next five years. In addition, 50 to 100 permanent positions are expected to be created at the new power facility once it commences commercial operations.

Burns & McDonnell expects to add 90 full time staff members on the Iatan 2 project and several hundred employees will have significant roles during the project. Burns & McDonnell's Energy Group expects to add more than 150 new staff members over the next four years in order to accommodate electric utility design for new generation and air pollution control projects for various clients throughout the United States.

“Being a Kansas City-based company, we are especially pleased to work with KCP&L because of the long-term benefits this new power plant will bring to the

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community where we live and work,” said Greg Graves, president and CEO of Burns & McDonnell. “When it comes online, Iatan 2 will not only be the largest and cleanest coal-fired power station in the Midwest, but also one of the cleanest and most efficient in the entire nation for many years to come.”

In 2005, the Missouri Public Service Commission and Kansas Corporation Commission approved KCP&L’s comprehensive energy plan which includes construction of Iatan 2, pollution control upgrades to the Iatan 1 and LaCygne 1 power plants, construction of 100 megawatts of new wind generation planned in Kansas, with the potential to add an additional 100 megawatts at a future date, implementation of various energy efficiency and affordability programs for customers, and upgrades to transmission and distribution systems.

About KCP&L

Headquartered in Kansas City, MO., KCP&L (www.kcpl.com) is a leading regulated provider of electricity in the Midwest. KCP&L is a wholly owned subsidiary of Great Plains Energy Incorporated (NYSE: GXP), the holding company for KCP&L and Strategic Energy LLC, a competitive electricity supplier.

About Burns & McDonnell

Founded in 1898, Burns & McDonnell provides engineering, construction, environmental and consulting services from offices located worldwide. For more information about Burns & McDonnell, visit its website at www.burnsmcd.com.

CERTAIN FORWARD-LOOKING INFORMATION— Statements made in this release that are not based on historical facts are forward-looking, may involve risks and uncertainties, and are intended to be as of the date when made. In connection with the safe harbor provisions of the Private Securities Litigation Reform Act of 1995, the Company is providing a number of important factors that could cause actual results to differ materially from the provided forward-looking information. These important factors include: future economic conditions in the regional, national and international markets, including but not limited to regional and national wholesale electricity markets; market perception of the energy industry and the Company; changes in business strategy, operations or development plans; effects of current or proposed state and federal legislative and regulatory actions or developments, including, but not limited to, deregulation, re-regulation and restructuring of the electric utility industry and constraints placed on the Company’s actions by the Public Utility Holding Company Act of 1935; adverse changes in applicable laws, regulations, rules, principles or practices governing tax, accounting and environmental matters including, but not limited to, air quality; financial market conditions and performance including, but not limited to, changes in interest rates and in availability and cost of capital and the effects on the Company’s pension plan assets and costs; ability to maintain current credit ratings; inflation rates; effectiveness of risk management policies and procedures and the ability of counterparties to satisfy their contractual commitments; impact of terrorist acts; increased competition including, but not limited to, retail choice in the electric utility industry and the entry of new competitors; ability to carry out marketing and sales plans; weather conditions including weather-related damage; cost, availability, quality and deliverability of fuel; ability to achieve generation planning goals and the occurrence and duration of unplanned generation outages; delays in the anticipated in-service dates of additional generating capacity; nuclear operations; ability to enter new markets successfully and capitalize on growth opportunities in non-regulated businesses; performance of projects undertaken by the Company’s non-regulated businesses and the success of efforts to invest in and develop new opportunities; and other risks and uncertainties. This list of factors is not all-inclusive because it is not possible to predict all factors.

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