FORM 3

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

## INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

OMB APPROVAL						
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Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person*  Humphrey Heather A  2. Date of Ev Requiring Sta (Month/Day/N 10/26/2010)				nent	3. Issuer Name and Ticker or Trading Symbol GREAT PLAINS ENERGY INC [ GXP ]					
(Last) (First) (Middle) C/O GREAT PLAINS ENERGY INCORPORATED					Relationship of Reporting Person (Check all applicable)     Director     Officer (give title)		on(s) to Issuer  10% Owner Other (specify		5. If Amendment, Date of Original Filed (Month/Day/Year)	
1200 MAIN STREET					X	below) General Counsel and	below)		6. Individual or Joint/Group Filing (Check Applicable Line)	
(Street) KANSAS CITY	МО	64105								y One Reporting Person y More than One erson
(City)	(State)	(Zip)								
		Ta	able I - Non	-Derivat	ive S	ecurities Beneficially	y Owned			
1. Title of Security (Instr. 4)				2. Amount of Securities Beneficially Owned (Instr. 4)				4. Nature of Indirect Beneficial Ownership (Instr. 5)		
Common Stock						2,528	D			
Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)										
1. Title of Derivative Security (Instr. 4)			2. Date Exercisable and Expiration Date (Month/Day/Year)		3. Title and Amount of Securi Underlying Derivative Securi		ty (Instr. 4) Conve		rcise Form:	6. Nature of Indirect Beneficial Ownership (Instr. 5)
			Date Exercisable	Expiration Date	n Title	3	Amount or Number of Shares	Price of Derivativ Security	e Direct (D) or Indirect (I) (Instr. 5)	

**Explanation of Responses:** 

Remarks:

**Executed on behalf of Heather** 

A. Humphrey by Jaileah X. Huddleston, attorney-in-fact

\*\* Signature of Reporting Person Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

- \* If the form is filed by more than one reporting person, see Instruction 5 (b)(v).
- \*\* Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.

## **POWER OF ATTORNEY**

Know all by these presents, that the undersigned hereby constitutes and appoints each of Ellen E. Fairchild, Mark G. English, and Jaileah X. Huddleston, and
any individual who hereafter holds the offices of Secretary or Assistant Secretary of Great Plains Energy Incorporated (the "Company"), or any of them
signing singly, and with full power of substitution, the undersigned's true and lawful attorney-in-fact to:

- (1) prepare, execute in the undersigned's name and on the undersigned's behalf, and submit to the U.S. Securities and Exchange Commission (the "SEC") a Form ID, including amendments thereto, and any other documents necessary or appropriate to obtain codes and passwords enabling the undersigned to make electronic filings with the SEC of reports required by Section 16(a) of the Securities Exchange Act of 1934 or any rule or regulation of the SEC;
- (2) execute for and on behalf of the undersigned, in the undersigned's capacity as an officer and/or director of the Company, Forms 3, 4, and 5 in accordance with Section 16(a) of the Securities Exchange Act of 1934 and the rules thereunder;
- (3) do and perform any and all acts for and on behalf of the undersigned which may be necessary or desirable to complete and execute any such Form 3, 4, or 5, complete and execute any amendment or amendments thereto, and timely file such form with the SEC and any stock exchange or similar authority; and
- (4) take any other action of any type whatsoever in connection with the foregoing which, in the opinion of such attorney-in-fact, may be of benefit to, in the best interest of, or legally required by, the undersigned, it being understood that the documents executed by such attorney-in-fact on behalf of the undersigned pursuant to this Power of Attorney shall be in such form and shall contain such terms and conditions as such attorney-in-fact may approve in such attorney-in-fact's discretion.

The undersigned hereby grants to each such attorney-in-fact full power and authority to do and perform any and every act and thing whatsoever requisite, necessary, or proper to be done in the exercise of any of the rights and powers herein granted, as fully to all intents and purposes as the undersigned might or could do if personally present, with full power of substitution or revocation, hereby ratifying and confirming all that such attorney-in-fact, or such attorney-in-fact's substitute or substitutes, shall lawfully do or cause to be done by virtue of this power of attorney and the rights and powers herein granted. The undersigned acknowledges that the foregoing attorneys-in-fact, in serving in such capacity at the request of the undersigned, are not assuming, nor is the Company a ssuming, any of the undersigned's responsibilities to comply with Section 16 of the Securities Exchange Act of 1934.

This Power of Attorney shall remain in full force and effect until the undersigned is no longer required to file Forms 3, 4, and 5 with respect to the undersigned's holdings of and transactions in securities issued by the Company, unless earlier revoked by the undersigned in a signed writing delivered to the foregoing attorneys-in-fact.

IN WITNESS WHEREOF, the undersigned has caused this Power of Attorney to be executed as of this 29th day of October 2010.

/s/ Heather A. Humphrey	
– Heather A. Humphrey	

COUNTY OF ACKSON	) 33.
	October, in the year 2010, before me, Barbara P. Fillinger, a Notary Public in and for said state, personally appeared Heather A.

On this 29th day of October, in the year 2010, before me, Barbara P. Fillinger, a Notary Public in and for said state, personally appeared Heather A. Humphrey, known to me to be the person who executed the within Power of Attorney, and acknowledged to me that she executed the same for the purposes therein stated.

BARBARA P. FILLINGER
Notary Public – Notary Seal
Comm. Number 08412713
STATE OF MISSOURI
Jackson County
My Commission Expires June 6, 2012

STATE OF MISSOURI

/s/ Barbara P. Fillinger
Notary Public