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Via: Federal Express - AM Delivery

August 15, 2002

Mr. Dale Hardy Roberts Secretary/Chief Regulatory Law Judge Missouri Public Service Commission 200 Madison Street, Suite 100 Jefferson City, MO 65101

FILED

AUG 1 6 2002

Re: The Empire District Electric Company, Missouri PSC Case No. ER-2002-424

Missouri Public Service Commission

Dear Mr. Roberts:

Enclosed please find an original and fourteen (14) copies of the direct testimony and affidavit of Maurice Brubaker in the above matter for filing on behalf of Praxair, Inc.

Copies of this direct testimony have been served on all parties on the attached service list by expedited delivery.

Very truly yours,

BRUBAKER & ASSOCIATES, INC.

Maurice Brubaker

MEB:cs #7787/31271 Enclosures

CC: All Parties on Service List

Before the Public Service Commission of the State of Missouri

SERVICE LIST

Office of the Public Counsel Governor Office Building 200 Madison Street, Suite 650 Jefferson City, MO 65101

General Counsel Missouri Public Service Commission Governor Office Building 200 Madison Street, Suite 100 Jefferson City, MO 65101 James C. Swearengen Gary Duffy Brydon, Swearengen & England, P.C. 312 East Capitol Avenue Jefferson City, MO 65101

CERTIFICATE OF SERVICE

I hereby certify that a copy of the direct testimony of Maurice Brubaker on cost of service issues is being forwarded by expedited delivery for receipt on the 16th day of August 2002, to all parties on the above service list.

Henrietta Besancerez

Exhibit No.

Witness: Type of Exhibit: Sponsoring Party:

Issue: Case No. Maurice Brubaker Direct Testimony Praxair, Inc.

Revenue Requirement

ER-2002-424

Before the Missouri Public Service Commission

In the Matter of The Empire District Electric Company of Joplin, Missouri, for Authority to File Tariffs Increasing Rates for Electric Service to Customers in the Missouri Service Areas of the Company.

Case No. ER-2002-424

Direct Testimony of

Maurice Brubaker

FILED³

AUG 1 6 2002

Missouri Public Service Commission

On Behalf of

Praxair, Inc.

August 15, 2002 Project 7787



BRUBAKER & ASSOCIATES, INC. St. Louis, MO 63141-2000

Before the Public Service Commission of the State of Missouri

In the Matter of The Empire District Electric Company of Joplin, Missouri, for Authority to File Tariffs Increasing Rates for Electric Service to Customers in the Missouri Service Areas of the Company.)	Case No. ER-2002-424
STATE OF MISSOURI COUNTY OF ST. LOUIS)))	SS		

Affidavit of Maurice Brubaker

Maurice Brubaker, being first duly sworn, on his oath states:

- 1. My name is Maurice Brubaker. I am a consultant with Brubaker & Associates, Inc., having its principal place of business at 1215 Fern Ridge Parkway, Suite 208, St. Louis, Missouri 63141-2000. We have been retained by Praxair, Inc. in this proceeding on its behalf.
- 2. Attached hereto and made a part hereof for all purposes is my direct testimony which was prepared in written form for introduction into evidence in Missouri Public Service Commission Case No. ER-2002-424.
- 3. I hereby swear and affirm that the direct testimony is true and correct and shows the matters and things it purports to show.

Maurice Brubaker

Subscribed and sworn to before this 15th day of August 2002.

CAROL SCHULZ
Notary Public - Notary Seal
STATE OF MISSOURI

St. Louis County

My Commission Expires: Feb. 26, 2004

Notary Public

My Commission Expires February 26, 2004.

Before the Missouri Public Service Commission

e No. ER-2002-424
: N

Direct Testimony of Maurice Brubaker

- 1 Q PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.
- 2 A Maurice Brubaker. My business address is 1215 Fern Ridge Parkway, Suite 208,
- 3 St. Louis, Missouri 63141-2000.
- 4 Q WHAT IS YOUR OCCUPATION?
- 5 A I am a consultant in the field of public utility regulation and president of Brubaker &
- 6 Associates, Inc. (BAI), energy, economic and regulatory consultants.
- 7 Q PLEASE DESCRIBE YOUR EDUCATIONAL BACKGROUND AND EXPERIENCE.
- 8 A This information is included in Appendix A to my testimony.
- 9 Q ON WHOSE BEHALF ARE YOU APPEARING IN THIS PROCEEDING?
- 10 A I am appearing on behalf of Praxair, Inc. (Praxair). Praxair is a large industrial
- 11 customer that purchases electricity under Special Transmission Service Contract:

Maurice Brubaker Page 1

1	Praxair, identified in the tariffs as Schedule SC-P. Approximately 95% of Praxair's
2	requirements are purchased on an interruptible basis. Only 5% is firm power.

3 Q WHAT IS THE PURPOSE OF YOUR TESTIMONY?

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- The purpose of my testimony is to comment on certain revenue requirement issues addressed in the testimony of The Empire District Electric Company (Empire or Company).
- 7 Q WHAT REVENUE REQUIREMENT ISSUES, IN PARTICULAR, WILL YOU 8 ADDRESS?
- 9 A I will address the level of fuel and purchased power costs to be included in base 10 rates, and the level of interim energy charges (IEC), if any, which would be 11 appropriate in the context of Empire's filing in this proceeding.

12 Q WHAT LEVEL OF FUEL AND PURCHASED POWER COST DOES EMPIRE 13 PROPOSE BE INCLUDED IN BASE RATES IN THIS PROCEEDING?

This is outlined in the testimony of Empire witness Brad Beecher. In particular, Mr. Beecher addresses this matter at Pages 2 and 3 of his March 26, 2002 Supplemental Direct Testimony. Mr. Beecher has calculated a pro forma fuel and purchased power cost that, on a total company basis, amounts to \$21.68 per megawatthour. This amount is stated on Page 3 of his testimony. He did not update his Schedule BPB-2 from the February 19, 2002 filing. However, applying the jurisdictional factors from that schedule to the variable and fixed costs for fuel and purchased power recited in his testimony produces an average cost per kilowatthour at the Missouri jurisdictional

1		sales level of \$23.70 per megawatthour as the pro forma value. This is shown in					
2		Column 2 on Schedule 1 attached to this testimony.					
3	Q	FOR COMPARISON, WHAT WERE THE ACTUAL CALENDAR YEAR 2001					
4		COSTS?					
5	Α	These are also shown on Schedule 1. Column 1 shows that the actual calendar year					
6		2001 costs (as reported on Schedule BPB-2) for the Missouri jurisdiction amounted to					
7		\$26.20 per megawatthour.					
8	Q	HOW DO THE PROPOSED 2001 PRO FORMA AMOUNTS COMPARE TO					
9		EMPIRE'S BUDGET FIGURES FOR CALENDAR YEARS 2003 AND 2004?					
10	Α	This information was provided in response to Praxair Data Request No. 16, and is					
11		shown in Columns 3 and 4 of Schedule 1. The total company amounts were					
12		converted to Missouri jurisdictional values at the sales level by using the same					
13		relationships between the total Company and Missouri jurisdictional amounts that					
14		were embedded in the pro forma 2001 calculations.					
15		Line 3 shows that as compared to the pro forma amounts for calendar year					
16		2001, the expected values for 2003 and 2004 are approximately \$1.00 per					
17		megawatthour higher.					
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18	Q	HOW DOES THIS COMPARE TO THE IEC WHICH MR. BEECHER PROPOSES?					
19	Α	At Page 5 of his March 26, 2002 testimony Mr. Beecher proposes a IEC value of					
20		\$2.48 per megawatthour. This is obtained by comparing the pro forma 2001 values					
21		to actual calendar year 2001 experience.					

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1 Q IF THERE IS TO BE AN IEC, DO YOU AGREE WITH MR. BEECHER'S

2 PROPOSAL?

Q

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No. The prices of fuel (especially natural gas) experienced in calendar year 2001 were high both by historical standards and in comparison to Empire's budget for the next two calendar years. While I would agree with Mr. Beecher's proposal to reduce the level of fuel and purchased power cost included in base rates to reflect the proforma 2001 numbers, I believe that his proposal to base the IEC on actual 2001 experience would produce an excessive IEC. A more realistic amount would be the amounts derived by comparing the proforma 2001 amounts to the calendar year 2003 and 2004 budgeted amounts.

DO YOU BELIEVE THAT THESE DIFFERENCES ARE SUFFICIENTLY LARGE TO JUSTIFY AN IEC?

No. The differences are about \$1.00 per megawatthour, which is certainly within the range of normal variations for fuel cost. In the last proceeding, we were faced with very dramatic increases in the price of natural gas, and the Company had not entered into any price risk management (hedging) programs. The Company has now done so, and has protected itself to a large degree from unanticipated increases in the market price of natural gas. Thus, the need for an IEC feature is significantly less now than it was in the last case.

Missouri traditionally has not allowed these kinds of special arrangements – except in extraordinary circumstances. While the circumstances in the prior case could be described as extraordinary, the circumstances faced by Empire currently cannot be so described. Accordingly, it is my recommendation that the base rates be

•		set to recover ruer and variable purchased power costs at the \$25.70 per
2		megawatthour level, and that there be no IEC.
3	Q	WHAT DOES THIS IMPLY FOR THE IEC THAT WAS ESTABLISHED IN THE
4		PRIOR CASE?
5	Α	It would be my recommendation that at the conclusion of this current case the IEC be
6		terminated and that the audit, true-up and any applicable refunds proceed
7		expeditiously after the rates approved in this case go into effect.
8	Q	IF THE BASE RATES WERE REESTABLISHED TO REFLECT THE PRO FORMA
9		YEAR 2001 FUEL COSTS, HOW MUCH WOULD BASE RATES CHANGE TO
10		REFLECT THIS DIFFERENT LEVEL OF FUEL AND PURCHASED POWER COST?
11	Α	As shown on Line 4 of Schedule 1, the base rates would decrease by approximately
12		\$1.50 per megawatthour.
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13	Q	DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?
14	Α	Yes, it does.

Qualifications of Maurice Brubaker

1	Q	PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.				
2	Α	Maurice Brubaker. My business mailing address is P. O. Box 412000, 1215 Fern				
3		Ridge Parkway, Suite 208, St. Louis, Missouri 63141-2000.				
4	Q	PLEASE STATE YOUR OCCUPATION.				
5	Α	I am a consultant in the field of public utility regulation and President of the firm of				
6		Brubaker & Associates, Inc., energy, economic and regulatory consultants.				
7	Q	PLEASE SUMMARIZE YOUR EDUCATIONAL BACKGROUND AND EXPERI-				
8		ENCE.				
9	Α	I was graduated from the University of Missouri in 1965, with a Bachelor's Degree in				
0		Electrical Engineering. Subsequent to graduation I was employed by the Utilities				
1		Section of the Engineering and Technology Division of Esso Research and				
2		Engineering Corporation of Morristown, New Jersey, a subsidiary of Standard Oil of				
3		New Jersey.				
14		In the Fall of 1965, I enrolled in the Graduate School of Business at				
15		Washington University in St. Louis, Missouri. I was graduated in June of 1967 with				
16		the Degree of Master of Business Administration. My major field was finance.				
17		From March of 1966 until March of 1970, I was employed by Emerson Electric				
18		Company in St. Louis. During this time I pursued the Degree of Master of Science in				
19		Engineering at Washington University, which I received in June, 1970.				

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In March of 1970, I joined the firm of Drazen Associates, Inc., of St. Louis, Missouri. Since that time I have been engaged in the preparation of numerous studies relating to electric, gas, telephone and water utilities. These studies have included analyses of the cost to serve various types of customers, the design of rates for utility services, cost forecasts, cogeneration rates and determinations of rate base and operating income. I have also addressed utility resource planning principles and plans, reviewed capacity additions to determine whether or not they were used and useful, addressed demand-side management issues independently and as part of least cost planning, and have reviewed utility determinations of the need for capacity additions and/or purchased power to determine the consistency of such plans with least cost planning principles and the prudency of the actions undertaken.

I have testified before the Federal Energy Regulatory Commission (FERC), various courts and legislatures, and the state regulatory commissions of Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Guam, Hawaii, Illinois, Indiana, Iowa, Kentucky, Louisiana, Michigan, Missouri, Nevada, New Jersey, New Mexico, New York, North Carolina, Ohio, Pennsylvania, Rhode Island, South Carolina, South Dakota, Texas, Utah, Virginia, West Virginia, Wisconsin and Wyoming.

The firm of Drazen-Brubaker & Associates, Inc. was incorporated in 1972 and assumed the utility rate and economic consulting activities of Drazen Associates, Inc., founded in 1937. In April, 1995 the firm of Brubaker & Associates, Inc. was formed. It includes most of the former DBA principals and staff. Our staff includes consultants with backgrounds in accounting, engineering, economics, mathematics, computer science and business.

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During the past ten years, Brubaker & Associates, Inc. and its predecessor firm has participated in over 700 major utility rate and other cases and statewide generic investigations before utility regulatory commissions in 40 states, involving electric, gas, water, and steam rates and other issues. Cases in which the firm has been involved have included more than 80 of the 100 largest electric utilities and over 30 gas distribution companies and pipelines.

An increasing portion of the firm's activities is concentrated in the areas of competitive procurement. While the firm has always assisted its clients in negotiating contracts for utility services in the regulated environment, increasingly there are opportunities for certain customers to acquire power on a competitive basis from a supplier other than its traditional electric utility. The firm assists clients in identifying and evaluating purchased power options, conducts RFPs and negotiates with suppliers for the acquisition and delivery of supplies. We have prepared option studies and/or conducted RFPs for competitive acquisition of power supply for industrial and other end-use customers in more than a dozen states, involving total needs in excess of 2,500 megawatts.

In addition to our main office in St. Louis, the firm also has branch offices in Kerrville, Texas; Plano, Texas; Denver, Colorado; Asheville, NC; and Chicago, Illinois.

MEB:cs/7787/31270

The Empire District Electric Company

Comparison of Fuel and Purchased Power Costs for On-System Load (\$/MWh)

<u>Line</u>	Description	Actual 2001 (1)	Pro Forma <u>2001</u> (2)	2003 <u>Budget</u> (3)	2004 <u>Budget</u> (4)
1	Total Empire	\$24.16 ⁽¹⁾	\$21.68 ⁽²⁾	\$22.57 ⁽⁴⁾	\$22.64 ⁽⁴⁾
2	Missouri Jurisdiction	\$26.20 ⁽¹⁾	\$23.70 ⁽³⁾	\$24.67 ⁽⁵⁾	\$24.75 ⁽⁵⁾
3	Amount as Compared to Pro Forma 2001			\$ 0.97	\$ 1.05
4	Amount as Compared to \$25.20/MWh Included in Current Base Rates		\$(1.50)	\$(0.53)	\$(0.45)

⁽¹⁾ Schedule BPB-2

⁽²⁾ Pages 2 and 3 of Brad Beechers' 3/26/02 testimony

⁽³⁾ Calculated using jurisdictional ratios from Schedule BPB-2

⁽⁴⁾ From Empire response to Praxair DR No. 16

⁽⁵⁾ (23.70 ÷ 21.68) x number in Line 1