Exhibit No. Issue: Energy Center Costs, Fuel and Purchased Power Expenses, IEC Witness: Brad Beecher Type of Exhibit: Surrebuttal Testimony Sponsoring Party: Empire District Case No. ER-2004-0570 Date Testimony Prepared: November 22, 2004

## Before the Public Service Commission of the State of Missouri

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## FILED<sup>3</sup> DEC 2 8 2004

Missouri Public Service Commission

## Surrebuttal Testimony

Of

**Bradley P. Beecher** 

November 22, 2004

Exhibit No. 7 11 Case No(s). El-2001-0510 Date 3-06-01 Rptr YF

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## SURREBUTTAL TESTIMONY OF BRADLEY P. BEECHER ON BEHALF OF THE EMPIRE DISTRICT ELECTRIC COMPANY BEFORE THE MISSOURI PUBLIC SERVICE COMMISSION CASE NO. ER-2004-0570

## l <u>Introduction</u>

- 2 Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.
- 3 A. Bradley P. Beecher. My business address is 602 Joplin Street, Joplin, Missouri.
- 4 Q. BY WHOM ARE YOU EMPLOYED AND IN WHAT CAPACITY?
- 5 A. The Empire District Electric Company ("Empire" or "Company"), I am Vice
  6 President of Energy Supply.
- Q. ARE YOU THE SAME BRAD P. BEECHER WHO PREVIOUSLY FILED
  DIRECT AND REBUTTAL TESTIMONY IN THIS CASE BEFORE THE
  MISSOURI PUBLIC SERVICE COMMISSION ("COMMISSION") ON
  BEHALF OF THE COMPANY?
- 11 A. Yes.

## 12 Q. WHAT IS THE PURPOSE OF THIS TESTIMONY?

- A. The purpose of this surrebuttal testimony is to respond to the positions taken in the
  rebuttal testimony of Office of Public Counsel ("OPC") witness Ted Robertson
  concerning the proposed disallowance of a portion of the project costs related to the
  construction of the Energy Center Units 3 & 4. I will also address Empire's
  position on the proposed price for natural gas and overall treatment of fuel and
  purchased power expenses in response to the rebuttal testimony of OPC witness
  James A. Busch.
- 20

## 21 I. ENERGY CENTER UNITS 3 AND 4

- 22 Q. PLEASE BRIEFLY DESCRIBE OPC'S TED ROBERTSON'S POSITION IN
- 23 **REBUTTAL TESTIMONY AS YOU CURRENTLY UNDERSTAND IT.**

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- ł Α. OPC witness Ted Robertson alleges that Empire was "obviously wasteful" in 2 completing Energy Center Units 3 and 4 as it relates to the scope of work 3 surrounding Patch Construction. 4 **Q**. **DID YOU ADDRESS THE PATCH ISSUE IN REBUTTAL TESTIMONY?** 5 Α. Yes. Please refer to my rebuttal testimony as I rebutted the direct testimony of Staff 6 witness David Elliott and Roberta McKiddy concerning the same issue. 7 WHAT FACTORS DID EMPIRE CONSIDER WHEN DETERMINING Q. 8 WHETHER TO PROCEED WITH PATCH OR MOVING ON TO 9 **ANOTHER VENDOR?** 10 Α. There were several issues Empire was dealing with around the time it was deemed 11 that Patch could not obtain a performance bond. 12 1. Empire needed at least one of the new units on line to meet the 12% 13 minimum Southwest Power Pool ("SPP") capacity margin requirement 14 before June 1, 2003. 2. 15 Given that Patch could not obtain a performance bond, what was the most 16 cost effective way to complete the project for our customers? 3. 17 Given the Staff position in Case No. ER-2001-299, what was the most 18 effective way to minimize risk to our shareholders? 19 To further expand on item 1, SPP requires every load serving entity to maintain 20 installed capacity equal to 12% in excess of its seasonal peak. Without the addition 21 of Energy Center 3 Empire would have been 47 MW short of the 12% capacity 22 margin requirement in 2003. There is no monetary penalty for not maintaining the 23 contractually agreed upon capacity margin. Empire, however, takes its power pool 24 obligations seriously. It is each member of the SPP's responsibility to maintain 25 electric reliability for our customers. Mismanagement by any one member of SPP can jeopardize the entire system, resulting in unfortunate events like the blackout in 26 27 August of 2003. A change in contractors at this late date was sure to delay the 28 schedule and probably not allow us to meet SPP's requirements. 29 Item 2 required us to assess the potential costs to complete the project without 30 Patch. We knew that if we replaced Patch, the next bidder was a higher cost. We 31 also knew that if we replaced Patch there would be additional expense for re-work
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and transition. On the other hand, we believed that if we managed Patch's financial involvement in the job, there was an opportunity to complete Patch's scope at the contract value and finish the project on schedule.

4 As for item 3, Staff's recent position on rate treatment of Empire's State Line 5 Combined Cycle ("SLCC") Unit in 2001 (Case No. ER-2001-299) weighed in our 6 decision process. In the SLCC case, Empire had deemed a contractor, Fru-Con, 7 was in default of the contract and replaced them with another contractor at a higher 8 cost. The replacement of Fru-Con with another contractor at a higher cost was the 9 major basis cited by the Staff in their plant disallowance position in the previous 10 case. If we replaced Patch with another bidder, we would have not only 11 jeopardized meeting our SPP requirement, but we would have been repeating that 12 which Staff judged as non-prudent in the SLCC case. By this point, we also knew 13 that the Patch entities were not financially strong. If Empire continued with Patch 14 we had to limit their financial involvement.

No one has challenged the prudence of the initial selection of Patch. Based on what
Empire knew at the time, including a balance of all of the concerns outlined, led us
to believe that executing Amendment 01 with Patch provided for the best balance of
all concerned.

## 19 20

# Q. DOES OPC WITNESS ROBERTSON CONSIDER ALL OF THE OTHER ISSUES?

- A. No, he doesn't consider the other important and significant issues that Empire was
   facing at the time. He only considers the Patch Performance Bond issue.
- 23 Q. PLEASE EXPLAIN.

A. He picks a line item out of the budget and deems that Empire was wasteful on that
one item. OPC witness Robertson says in his Rebuttal Testimony, page 6, lines 911, "It is the Public Counsel's belief that Company's failure to enforce the original
contract requirement for Patch to post a performance bond caused it to be "on the
hook" for the financial responsibility to complete the project." As pointed out on
page 21 of my rebuttal testimony, Empire bettered its budget in several areas and
was given no credit by OPC as to those line items. Also, it should be remembered

3

1 that Patch was unable to secure a performance bond, so it was impossible for 2 Empire to enforce that contact provision. 3 DOES OPC WITNESS TED ROBERTSON EVER MENTION EMPIRE'S Q. 4 "DEFINITIVE ESTIMATE" IN HIS REBUTTAL TESTIMONY WHEN 5 SPEAKING OF PROPOSED DISSALLOWANCE? 6 A. No. Just like Staff witnesses David Elliott and Roberta McKiddy, OPC witness Ted 7 Robertson takes a line item that was over budget and does not give Empire credit 8 for line items under budget. In other words, he ignores Empire's definitive estimate. 9 0. DOES EMPIRE BELIEVE IT MADE PRUDENT DECISIONS DURING ITS 10 **CONSTRUCTION OF THE ENERGY CENTER UNITS 3 AND 4?** 11 Yes. Empire believes that after looking at all of the issues, the Commission will Α. 12 agree that Empire made prudent decisions during the construction of Energy Center 13 Units 3 and 4. 14 DOES EMPIRE HAVE ANY OTHER COMMENTS REGARDING THIS Q. 15 **ISSUE?** We completed the project at only \*\*\$ \*\* over our Board approved \$55 16 A. 17 million definitive estimate. We completed the project on schedule which allowed 18 us to maintain the capacity margin requirements required by SPP. OPC is trying to 19 enforce some type of "perfect construction" standard applied to over budget line 20 items but ignoring under budget line items. This standard is virtually unattainable 21 when applied on an after-the-fact basis. We ask that the Commission consider all of 22 the relevant factors, put itself in Empire's position, and find that Empire made 23 prudent decisions based on all factors we considered at the time. 24 II. NATURAL GAS PRICE AND OVERALL TREATMENT OF FUEL AND 25 26 PURCHASE POWER EXPENSES DOES EMPIRE AGREE WITH THE UPDATE THAT OPC WITNESS 27 **Q**. JAMES A. BUSCH MADE TO HIS NATURAL GAS PRICE? 28 Empire agrees with the correction OPC witness Busch made due to an error in his 29 A. formula of his original recommendation. The correction makes the OPC natural gas 30 price 4.68 \$/MMBtu. However, Mr. Busch is still utilizing NYMEX futures prices 31

- for 2005 and 2006 as of September 16, 2004. As I stated in my rebuttal testimony,
   the natural gas market has changed dramatically since the time direct testimony was
   filed. Using NYMEX future prices as of November 17, 2004, Empire calculates
   that Mr. Busch's method would yield a natural gas price of about 5.37 \$/MMBtu.
- 5 DO YOU AGREE WITH THE OPC POSITON THAT FUEL AND **Q**. 6 PURCHASED POWER EXPENSE SHOULD BE TREATED IN THE 7 TRADITIONAL MANNER OF USING ONLY ONE NATURAL GAS PRICE 8 AND NOT USING AN ("IEC") INTERM ENERGY CHARGE 9 **MECHANISM?**
- A. The traditional method should only be used to the extent that the Commission
   would allow Empire the opportunity to collect the Company's actual prudently
   incurred fuel and purchased power expenses. In other words, if the traditional
   method is used, costs included in rates should reflect reality.
- 14 Q. TO WHAT LEVEL OF TOTAL COMPANY ON-SYSTEM FUEL AND
   15 PURCHASED POWER EXPENSE ARE YOU REFERRING?
- A. Based on NYMEX natural gas prices as of November 17, 2004, the total Company
  on-system fuel and purchased power expense of \$137,548,710 or 27.01 \$/MWh is
  appropriate for setting base rates in this case. The run summary is attached as
  Surrebuttal Schedule BPB-8.

## 20 Q. IS THIS THE SAME VALUE RECOMMENDED IN YOUR REBUTTAL 21 TESTIMONY?

A. No. The change is due to the volatile nature of natural gas prices. In my rebuttal
testimony I supported \$140,840,180 or 27.66 \$/MWh for base rates. This level was
based on spot natural gas at the average NYMEX futures prices for 2005 and 2006
as of October 27, 2004. This price was 7.50 \$/MMBtu. This resulted in a total
natural gas price (i.e. combined with the 2005 hedged position) of 6.02 \$/MMBtu.

As of November 17, 2004, the NYMEX futures prices for this same period is now about 6.79 \$/MMBtu. In the new model run 6.79 \$/MMBtu was used for the spot natural gas price as opposed to 7.50 \$/MMBtu in rebuttal, resulting in a total natural gas price of 5.69 \$/MMBtu compared to Mr. Busch's value of 4.68 \$/MMBtu. When the difference of 1.01 \$/MMBtu is applied to an expected burn range of

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- 8,000,000 to 10,000,000 MMBtu a before tax expense shortfall of \$8 10 million
   dollars will occur. OPC's proposal is clearly too low to allow Empire to recover it's
   prudently incurred fuel and purchased power expenses.
- 4 Q. DOES EMPIRE SUPPORT AN ALTERNATE METHOD OF COST
  5 RECOVERY IF THE COMMISSION BELIEVES THAT A LEVEL OF
  6 \$137,548,710 WITH A NATURAL GAS PRICE OF 5.69 \$/MMBTU IS NOT
  7 APPROPRIATE AT THIS TIME TO USE FOR SETTING BASE RATES IN
  8 THIS CASE?

9 Yes. Empire supports a properly crafted IEC as an alternate method as I stated in Α. 10 my rebuttal testimony. The Company continues to support an IEC in the \$20 11 million range with a term of 5 years as indicated in Empire's direct case and tariffs. 12 Although the Company continues to support an IEC with a term of 5 years, Empire 13 would be willing to accept an IEC with a 3 year term. However, anything shorter 14 than a 3 year term would not be acceptable. Empire believes that anything under 3 15 years would affect stability for our customers as well as our stockholders and the 16 rating agencies. If the IEC is constructed with a 1 year term, Empire would have to file another rate case immediately. Likewise, if a 2 year IEC results, Empire would 17 18 need to file another case in only 13 months.

## 19 20

## Q. WHAT FLOOR AND CEILING DOES THE COMPANY SUPPORT FOR AN IEC?

- A. The Company supports a \$20 million IEC in the range \$120 million to \$140
  million. This represents natural gas prices in the range of roughly 4.00 to 6.00
  \$/MMBtu. The \$140 million ceiling with 6.00 \$/MMBtu natural gas is consistent
  with where natural gas futures were as of October 27, 2004, the time I prepared my
  rebuttal testimony.
- 26

## Q. HOW DOES THIS COMPARE TO STAFF'S FILED POSITION?

A. In direct testimony Staff supported an IEC with a 2-year term in the range
\$107,436,748 to 130,888,272 which represented natural gas prices in the range 3.20
to 5.62 \$/MMBtu. Staff failed to update the natural gas prices in their rebuttal
testimony. However, as I pointed out in my rebuttal testimony, Staff's direct
testimony did not include \$2.4 million for firm natural gas transportation and

roughly \$1.3 million for transportation losses and commodity charges. Empire
 believes that Staff has agreed to include these expenses. This would make Staff's
 range roughly \$111 million to \$135 million. This compares to the Company's
 position of \$120 million to \$140 million.

5 6

## Q. DO YOU HAVE ANY COMMENTS REGARDING MR. BUSCH'S STATEMENTS CONCERNING THE LAWFULNESS OF THE IEC?

7 Α. OPC's position appears to be that an IEC is lawful only if OPC agrees to it. 8 However, I fail to understand how the agreement of OPC in a stipulation affects the 9 law. If the Commission determines that an IEC is lawful under Missouri law, it 10 may utilize an IEC in this case as it has in a previous Empire case (Case No. ER-2001-299) and a recent Aquila Inc. case (Case No. ER-2004-0034), regardless of 11 12 OPC's opinion. In the event that the Commission determines an IEC is unlawful or 13 would lead to unnecessary and possibly time-consuming controversy in the courts, 14 the Commission should allow total Company on-system fuel and purchased power 15 expense of \$137,548,710 in Empire's base rates.

## 16 Q. DOES THIS CONCLUDE YOUR SURREBUTTAL TESTIMONY?

- 17 A. Yes it does.
- 18

#### Surrebuttal Schedule BPB-8 Avg Gas Price 5.69 \$/MMBtu

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Surreputtal Schedule BPB-8							
Avg Gas Price 5.69 \$/N	AMBtu	F & PP Cost					
		(\$000's)			GBTU	Avg HR	
	<u>GWH</u>	Incl Start	<u>\$/MWH</u>	<u>Starts</u>	Excl Starts	Excl Starts	
Asbury 1	1,298.10	15,780.60	12.16	12	14,526	11,191	
Asbury 2	25.30	498.00	19.68	33	461	18,217	
•		16.278.60					
Total Asbury	1,323.40	10,278.00	12.30	45	14,987	11,325	
latan 1	583.20	3,902.70	6.69	14	5,847	10,026	
Riverton 7	192.30	3,203.30	16.66	12	2,559	13,308	
Riverton 8	292.60	4,345.50	14.85	9	3,516	12,017	
Riverton 9and10	2.30	236.00	102.61	5	41	17,826	
Riverton 11	0.80	80.40	100.50	5	14	17,375	
Total Riverton	488.00	7,865.20	16.12	31	6,130	12,562	
Total Niverton	-00.00	7,000.20	10.12	51	0,100	12,502	
Energy Center 1	14.40	1,359.70	94.42	14	237	16,451	
Energy Center 2	8.10	762.20	94.10	9	133	16,383	
Energy Center 3	32.90	2,111.00	64.16	106	371	11,277	
Energy Center 4	17.70	1,132.00	63.95	59	199	11,243	
Total EC	73.10	5,364.90	73.39	188	940	12,854	
State Line 1	68.10	5,284,20	77.59	21	925	13,589	
SLCC 1x1	1,072.30	•	42.97			,	
		46,073.40		29	8,089	7,543	
SLCC 2x1	53.00	2,202.70	41.56	19	381	7,194	
Total SL	1,193.40	53,560.30	44.88	69	9,395	7,873	
Gas Turb (incl Starts)	1,269.60	59,241.60	46.66	267	<b>10,4</b> 11	8,200	
Total Thermal	3,661.10	86,971.70	23.76		37,300	10,188	
Ozark Beach	59.20						
Total EDE (less fixed)	3,720.30	86,971.70	23.38				
WR-JP	1,053.30	14,392.00	13.66				
Spot Purch	318.60	11,098.00	34.83				
Total Purch	1,371.90	25,490.00	18.58	26.9% PP % of NSI			
						Hrs	
Total Model	5,092.20	<u>112,461.70</u>	22.09		SLCC 1x1 Hrs	5,969	
					SLCC 2x1 Hrs	3,079	
PP Demand Charge		16,194					
					MCF Gas	10,217.17	
Undist-Oth-Train		1,639.04			Heat Cont Gas	1.019	
		1,000.04			Avg Gas Cost		\$/mmbtu
Gas Fixed FT (test year	4	3,285.04			ray Gas Obst	0.09	winning
· ·	<i>,</i>						
Gas Fixed FT (additiona		2,400.00					
Gas Dmd Commodity C	ing	200.94					
Gas Dmd Losses Chg		1,368.47	240.50	additional GBTUs for losse	s (2.31%)		
Total Gas DMD		7,254.45					
Total FPP NSI	5,092.20	137,548.71	27.01				

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## AFFIDAVIT

STATE OF MISSOURI ) ) 55 COUNTY OF JASPER )

On the 22nd day of November, 2004, before me appeared Brad P. Beecher, to me personally known, who, being by me first duly sworn, states that he is the Vice President - Energy Supply of The Empire District Electric Company and acknowledged that he has read the above and foregoing document and believes that the statements therein are true and correct to the best of his information, knowledge and belief.

Brad f. Buchen Brad P. Beecher

Subscribed and sworn to before me this 22nd day of November, 2004

Patricia a <u>Aettle</u> Pat Settle, Notary Public

My Patricia A. Set w Public - Notary See State of Manouri County of Jacob E February 09, 2008