Exhibit No.: Issues:	Revenues; Total Revenue Requirement
Witness: Sponsoring Party: Type of Exhibit: Case No.: Date Testimony Prepared:	Janice Pyatte MO PSC Staff Direct Testimony ER-2004-0570 September 20, 2004
MISSOURI PUBLIC SERVICE COM	IMISSION
UTILITY OPERATIONS DIVIS DIRECT TESTIMONY	SION FILED DEC 2 8 2004
OF	Missourl Public Service Commission
JANICE PYATTE	
THE EMPIRE DISTRICT ELECTRIC	COMPANY
CASE NO. ER-2004-0570	
Jefferson City, Missouri September 2004	
––––– E: Case No(s). Date <u>∖⊋-€)k</u> –	xhibit No. 67 F-R-2004 0570 04 Rptr 45

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BEFORE THE PUBLIC SERVICE COMMISSION

OF THE STATE OF MISSOURI

In the Matter of the tariff filing of The) Empire District Electric Company to) implement a general rate increase for retail) electric service provided to customers in) its Missouri service area)

Case No. ER-2004-0570

AFFIDAVIT OF JANICE PYATTE

STATE OF MISSOURI)) ss COUNTY OF COLE)

Janice Pyatte, of lawful age, on her oath states: that she has participated in the preparation of the following Direct Testimony in question and answer form, consisting of $_$ D_ pages of Direct Testimony to be presented in the above case, that the answers in the following Direct Testimony were given by her; that she has knowledge of the matters set forth in such answers; and that such matters are true to the best of her knowledge and belief.

Subscribed and sworn to before me this $\int \int \frac{1}{2} day$ of September, 2004.

Notary Public

DAWN L. HAKE Notary Public – State of Missouri County of Cole May Commission Expires Jan 9, 2005

My commission expires

1	DIRECT TESTIMONY						
2 3	OF						
4	O F						
5 6	JANICE PYATTE						
7	THE EMPIRE DISTRICT ELECTRIC COMPANY						
8							
9 10	CASE NO. ER-2004-0570						
11 12	Q. Please state your name and business address.						
13	A. My name is Janice Pyatte and my business address is Missouri Public						
14	Service Commission, P. O. Box 360, Jefferson City, Missouri 65102.						
15	Q. What is your present position with the Missouri Public Service						
16	Commission?						
17	A. I am a Regulatory Economist in the Economic Analysis Section, Energy						
18	Department, Operations Division.						
19	Q. Would you please review your educational background and work						
20	experience?						
21	A. I completed a Bachelor of Arts degree in Economics at Western						
22	Washington State College in Bellingham, Washington and a Masters of Arts (A.M.)						
23	degree in Economics at Washington University in St. Louis, Missouri. I have been						
24	employed by the Missouri Public Service Commission (Commission) since June 1977.						
25	My primary role with the Missouri Public Service Commission Staff (Staff) has been to						
26	perform analysis in the areas of rate design, class cost-of-service, rate revenue, and						
27	billing units for the regulated electric utilities in Missouri. A list of the cases in which I						
28	have filed testimony before the Commission is shown on Schedule 1.						
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Q. What has been your work experience in prior Empire District Electric
 Company (EDE or Company) rate cases?

A. I submitted testimony in each of the Company's last four rate cases:
Case No. ER-95-279, Case No. ER-97-81, Case No. ER-2001-299, and Case No.
ER-2002-424.

6

Q. What is the purpose of your direct testimony in this filing?

7 My direct testimony on the issue of Revenues describes my role in the A. 8 development of specific adjustments to Missouri jurisdictional, test year sales of 9 electricity (kWh sales) and the revenue from those sales (rate revenue) for the electric 10 operations of The Empire District Electric Company. In this filing, I present two 11 schedules that summarize EDE's Missouri rate revenues, EDE's Missouri retail kWh 12 sales, and EDE's total company retail kWh sales by rate schedule, based upon a test year 13 of January 1, 2003 – December 31, 2003, updated for known and measurable changes 14 through June 30, 2004. Missouri rate revenues are shown on Schedule 2. Adjusted total 15 company (Missouri, Arkansas, Kansas, Oklahoma) retail kWh sales for the updated test 16 year are shown on Schedule 3-2. Schedule 3-1 presents Missouri jurisdictional kWh 17 sales by rate schedule.

18 Schedule 4 is a narrative that explains the basic concepts used in Staff's19 ratemaking treatment of rate revenues and kWh sales.

20 Q. Are you sponsoring any adjustments to the revenue requirement21 calculation in this case?

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1	A. Certain adjustments to EDE's Missouri rate revenues shown on my
2	Schedule 2 are also shown as Adjustments S-1.1, S-1.5, and S-1.7 in the Staff's
3	Adjustments to Income Statement-Accounting Schedule 10.
4	The Missouri retail kWh sales shown on my Schedule 3-1 support the Missouri
5	rate revenues in Staff's Income Statement-Accounting Schedule 9. The total company
6	kWh sales shown on my Schedule 3-2 are an input into normalized hourly net system
7	(total company) loads used in Staff's production cost simulation model (fuel run) to
8	calculate Missouri's portion of fuel and purchased power expenses, which are also shown
9	in Staff's Income Statement-Accounting Schedule 9.
10	Q. What is the relationship between the Missouri rate revenues shown on
11	your Schedule 2 and the Missouri operating revenues shown on Accounting
12	Schedule 9-Income Statement?
13	A. The total operating revenues shown on Accounting Schedule 9-Income
14	Statement, consists of two components: the revenue that the Company collects from the
15	sales of electricity to Missouri retail customers (rate revenues), which is shown on my
16	Schedule 2; and the revenue the Company receives from other sources (other or non-rate
17	revenues). Non-rate revenues are generated by charges such as reconnect fees, returned
18	check fees, late payment fees, etc. Another source of non-rate revenue may be off-
19	system sales of electricity.
20	Q. How does your testimony relate to the testimony of other Staff witnesses
21	in this case?
22	A. I am responsible for compiling the table labeled as Schedule 2, which
23	summarizes the results of Staff's work relating to EDE's Missouri electric rate revenues.

My testimony addresses the methodologies used to calculate annualized, normalized rate
 revenues for each affected rate schedule. The testimony of Staff Witness Doyle L. Gibbs
 addresses the effect that growth (or decline) in the number of customers had on rate
 revenues.

5 Staff Witness John P. Cassidy and Mr. Gibbs are responsible for any adjustments
6 being proposed to EDE non-rate revenues.

I am also responsible for compiling the table labeled as Schedule 3, which
summarizes the results of Staff's work relating to EDE retail sales (measured in kWh). In
addition to the adjustments to kWh sales addressed in my testimony, Staff witness
Richard J. Campbell addresses the normalization of kWh sales to account for the effects
of deviations from normal weather in the test year and for adjustments to reflect a 365day billing year. Mr. Gibbs addresses the effect that growth (or decline) in the number of
customers had on kWh sales.

14 Q. Please describe Staff's ratemaking treatment of rate revenues and kWh15 sales.

16 A. Schedule 4 contains an explanation of the basic ratemaking concepts used
17 in Staff's treatment of rate revenues and kWh sales.

18 Q. Please describe the characteristics of the Missouri rate revenues and kWh
19 sales that have been developed in this case.

A. The Missouri rate revenues and (Missouri and total company) kWh sales that I am presenting have these characteristics: (i) they have been developed by rate schedule; (ii) they have been normalized to remove the effects of deviations from normal weather in the test year; (iii) they have been developed on both a billing month and a

calendar year (i.e., 365-day) basis; and (iv) they have been adjusted to reflect any growth
 (or decline) in class load. Each adjustment to Missouri kWh sales is associated with a
 corresponding adjustment to Missouri rate revenues.

- In addition, Missouri rate revenues have been annualized to reflect the special
 treatment of the interruptible credits associated with Praxair's contract.
- 6 Q. What specific annualizations to test year kWh sales and rate revenues
 7 were done in this case?

8 Α. Missouri test year rate revenues and Missouri and non-Missouri test year 9 kWh sales were annualized to reflect both the loss and gain of customers within the test 10 year and within the update period. Mr. Gibbs is sponsoring the adjustments for those rate schedules serving smaller customers (RG, CB, SH, GP, TEB), which were computed 11 based upon the Staff customer growth methodology. My Schedules 2 and 3 display 12 Mr. Gibbs' results by rate schedule. His customer growth adjustment to Missouri rate 13 revenues is shown in aggregate on Staff's Adjustments to Income Statement-Accounting 14 15 Schedule 10.

16 I am responsible for the annualizations done to those rate schedules that contain large customers (LP, PT, Praxair, PF) in all EDE jurisdictions. These annualizations 17 18 were done on an individual customer (account) basis. They reflect significant increases or reductions in electric use, the exit from or transfer into the class by specific customers, 19 20 and a 365-day adjustment. The annualizations are shown by rate schedule on Schedules 21 2 and 3. The large customer annualization to Missouri rate revenues is also shown in 22 aggregate as Adjustment S-7 on Staff's Adjustments to Income Statement-Accounting 23 Schedule 10.

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Q. Please describe the process used to annualize individual large customers.

A. The first step was to determine whether each customer account required annualizing. Each account's monthly demand and energy use over the six months prior to the test year, the 12 months of the test year, and the six month update period were examined graphically to determine whether a change in the size and usage pattern of the customer had occurred. EDE provided considerable information on those accounts Staff had identified as having likely experienced changes that were significant enough to result in a recognizable change to EDE's total kWh sales and revenues.

9 The most common method used to annualize a specific account was to replace 10 specific months of that customer's 2003 test year billing data with its billing data for 11 corresponding months in the January 2004-June 2004 update period. Care was taken to 12 reflect the known, unique circumstances of each customer.

Large customers who have permanently left EDE's system were removed from
the analysis. This was the situation with all three Power Furnace accounts, as well as two
Missouri Large Power accounts.

An accounting was also done of existing customers who switched into or out of
the Large Power class.

18 Q. Please describe the rationale for annualizing Large Power accounts
19 individually rather than in aggregate.

A. Large Power accounts are the largest electricity-using customers. This
group of 34 customers is heterogeneous in terms of both size and load factor and, as a
consequence, aggregate methods of analyzing them are generally not very accurate.

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1	Q. What special treatment was given to the interruptible credits associated
2	with Praxair's contract?
3	A. Although Praxair's interruptible credits were increased from \$3.76 per kW
4	to \$4.86 per kW as a result of Case No. ER-2001-299, I annualized them in this case at
5	the pre-October 2, 2001 rate. This treatment of Praxair's interruptible revenues is in
6	accordance with paragraph 6 of the Unanimous Stipulation And Agreement Regarding
7	Fuel And Purchased Power Expense And Class Cost Of Service And Rate Design, filed
8	in Case No. ER-2001-299, which states:
9 10 11 12 13 14 15 16 17 18	 6. In addition to the rate changes described above, Praxair's current monthly credit for interruptible demand will be increased by an amount equivalent to \$100,000.00 per year. This will be reflected on P.S.C. Mo. No. 5, Sec. 2, Sheet No. 9b of Empire's Missouri rate schedules by striking the words "and beyond" in the line for 5 year contracts beginning in 1998 and by adding the following provisions: For 5 year contracts beginning in 2001\$4.86 For 5 year contracts beginning in 2002 and beyond\$3.76 For the purposes of calculating the Company's revenue requirement during the pendency of the 5-year interruptible contract entered into
19 20 21 22 23 24 25	between Empire and Praxair beginning in 2001, Empire agrees that it will calculate Praxair's revenue as if the interruptible credit were \$3.76. The effect of this increase in Praxair's interruptible credit and Empire's agreement will be to reduce the revenues collected by Empire by \$100,000.00 per year, which \$100,000.00 will not affect the rates of Empire's other Missouri retail customers or be recovered from Empire's other Missouri retail ratepayers. [emphasis added]
26	Q. What normalizations to test year billed kWh sales were done in this case?
27	A. Mr. Campbell has calculated the Staff's weather adjustments and days
28	adjustments to Missouri and non-Missouri kWh sales for the weather-sensitive rate
29	schedules. The weather normalization re-states test year kWh sales on a "normal
30	weather" basis; i.e., to the level of kWh sales that would have occurred in the test year if
31	test year weather had been normal. Please refer to Mr. Campbell's testimony for a more
32	complete description of the weather normalization concept and methodology.

1	The days adjustment represents the change in kWh sales associated with adjusting
2	the 12 test year billing months to the equivalent of 365 days. Mr. Campbell computed
	the 12 test year onling months to the equivalent of 305 days. Mr. Campben computed
3	days adjustments for the RG, CB, SH, GP, and TEB rate schedules as part of the weather
4	normalization process. I computed a days adjustment for each of the Large Power
5	customers. EDE's computation of annual unbilled sales was used as the days adjustment
6	for the remaining rate schedules. The normalization adjustments to kWh sales are shown
7	by rate schedule on my Schedule 3.
8	Q. What normalizations to Missouri test year rate revenues were done in this
9	case?
10	A. I am responsible for calculating the adjustments to rate revenues that are
11	associated with Mr. Campbell's weather and days adjustments to kWh sales. Two
12	different methodologies for normalizing rate revenue were used, one for the Residential
13	(RG), Commercial (CB), and SH (Small Heating) rate schedules, and the other for the
14	General Power (GP) and Total Electric Buildings (TEB) rate schedules. The assumption
15	underlying both methodologies is that the weather normalization process has no effect on
16	either the number of customers or on the fixed charges those customers currently pay. I
17	assumed that weather normalization only affects the energy usage of each existing
18	customer and thus only affects those charges directly related to kWh usage.
19	Q. What methodology was used to normalize rate revenues for the
20	Residential (RG), Commercial (CB), and SH (Small Heating) rate schedules?
21	A. Each of these rate schedules has a fixed monthly customer charge and a
22	two-block energy charge (First 600 kWh and Over 600 kWh). One characteristic of a
23	multi-block rate structure is that the proportion of kWhs being priced in the first rate

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1 block declines (and the proportion being priced in the remaining rate blocks increases) as 2 average use per customer increases. Using test year data and a statistical technique 3 known as a regression, I modeled the relationship between average use per customer and 4 the percentage of test year kWhs that are priced in the first rate block. I then applied this 5 relationship to the monthly use per customer before and after the weather adjustment that 6 Mr. Campbell had provided me. This computation resulted in normalized kWhs by rate block, which were then converted to total normalized revenues by multiplying rate block 7 8 kWh by the appropriate rates.

- 9 Q. What methodology was used to normalize rate revenues for the General
 10 Power (GP) and Total Electic Buildings (TEB) rate schedules?
- A. The weather adjustment to rate revenues for the GP and TEB rate schedules was calculated by an average realization methodology, excluding customer and demand charges. This methodology assumes that the weather adjustment to kWh sales in each month is distributed into the rate blocks in proportion to the distribution of actual test year energy. Another interpretation of this average realization methodology is that any additional kWh sales due to weather normalization should be priced at the same average price as all other sales in that month.

EDE's computation of annual unbilled revenues was used as for the remaining
rate schedules, which are not weather-sensitive and therefore required no adjustments due
to weather.

Schedule 2 shows the annual normalization adjustment to Missouri rate revenues
for each rate schedule. This normalization to rate revenues is shown in aggregate in
Adjustments to Income Statement-Accounting Schedule 10, S-1.7.

Q. Do you have a recommendation for the Commission regarding EDE
 electric rate revenues and kWh sales?

A. I recommend that the Commission adopt the Staff's adjustments to EDE booked rate revenues and kWh sales that are shown on my Schedules 2 and 3. If adopted, Staff's Missouri rate revenues and kWh sales by rate schedule will be used to compute and implement any Commission-ordered revenue change in this case. If adopted, Staff's total company kWh sales will be used as an input into the calculation of Missouri fuel and purchased power expenses.

- 9 Q. Does this conclude your direct testimony on the issue of Revenues in this
 10 case?
- 11 A. Yes, it does.

Participation in MOPSC Cases Witness: Janice Pyatte

Company

Case Number

Company	case number
Aquila, Inc. d/b/a Aquila Networks-MPS and L&P	ER-2004-0034 & HR-2004-0024
The Empire District Electric Company	ER-2002-424
Union Electric Company d/b/a AmerenUE	EC-2002-1
UtiliCorp United, Inc. d/b/a Missouri Public Service	ER-2001-672
The Empire District Electric Company	ER-2001-299
UtiliCorp United and St. Joseph Light & Power Co.	EM-2000-292
St. Joseph Light & Power Company	ER-99-247 & EC-98-573
St. Joseph Light & Power Company	HR-99-245
Union Electric Company	EO-96-15
St. Joseph Light & Power Company	EC-98-573
Missouri Public Service	ER-97-394 & ET-98-103 & EC-98-126
Missouri Public Service	ER-97-394 & ET-98-103
Missouri Public Service	EO-97-144 & EC-97-362
The Empire District Electric Company	ER-97-81
Kansas City Power & Light Company	EC-96-57
The Empire District Electric Company	ER-95-279
The Empire District Electric Company	ER-94-174 & EO-91-74
St. Joseph Light & Power Company	ER-93-41
Missouri Public Service	ER-93-37
Union Electric Company	EM-92-225 & EM-92-253
Arkansas Power & Light Co. and Union Electric Co.	EM-91-29
Union Electric Company	EO-87-175
Arkansas Power & Light Company	ER-85-265
Kansas City Power & Light Company	ER-85-128 & EO-85-185
Union Electric Company	EO-85-17 & ER-85-160
Union Electric Company	ER-84-168
Union Electric Company	ER-84-168
Arkansas Power & Light Company	ER-83-206
Union Electric Company	ER-83-163
Kansas City Power & Light Company	ER-83-49
The Empire District Electric Company	EO-82-40
The Empire District Electric Company	ER-81-209
Kansas City Power & Light Company	EO-78-161
Laclede Gas Company	GO-78-38
Union Electric Company	EO-78-163
St. Joseph Light & Power Company	EO-77-56

THE EMPIRE DISTRICT ELECTRIC COMPANY - CASE NO. ER-2004-0570 SUMMARY OF ANNUALIZED AND NORMALIZED RATE REVENUE

MISSOURI RETAIL

	As Billed Rate	Large Customer	Normalization for	Additional Rev	Total MO
Rate Schedule	Rev w/o taxes	Annualizations	Weather & Days	from Cust Growth	Normalized Rev
RG-Residential	\$108,083,194		\$564,747	\$1,996,854	\$110,644,795
CB-Commercial	\$24,774,766		\$255,170	\$325,542	\$25,355,478
SH-Small Heating	\$5,758,290		(\$1,485)	\$107,837	\$5,864,642
PFM-Feed Mill/Grain Elev	\$97,329		(\$738)		\$96,590
MS-Traffic Signals	\$44,850		(\$8)		\$44,842
GP-General Power	44,399,571	(\$734,734)	\$73,155	\$485,182	\$44,223,174
TEB-Total Electric Bldg	\$19,028,227		\$55,323	\$588,068	\$19,671,619
LP-Large Power	\$29,444,813	\$1,140,223			\$30,585,036
SC-P PRAXAIR (Firm)	\$2,421,236				\$2,421,236
PF-Elect Furnace Primary	\$100,591	(\$100,591)			\$0
SPL-Municipal St Lighting	\$1,100,382				\$1,100,382
PL-Private Lighting	\$3,031,871		(\$10,026)		\$3,021,846
LS-Special Lighting	\$149,330		(\$166)		\$149,164
CP-Cogeneration Purchase	(\$91)				(\$91)
Missouri Billed Rate Revenue	\$238,434,358	\$304,898	\$935,972	\$3,503,483	\$243,178,711
Interim Energy Charges	(\$452)				\$0
Excess Facilities Charges	\$1,647,865				\$1,647,865
Interruptible Credits	(\$443,232)	\$100,320			(\$342,912)
	\$239,638,539	\$405,218	\$935,972	\$3,503,483	\$244,483,664
Accounting Adjustment No.		S-1.7, S-1.1	S-1.5	S-1.6	

THE EMPIRE DISTRICT ELECTRIC COMPANY - CASE NO. ER-2004-0570 SUMMARY OF ANNUAL KWH SALES

MISSOURI RETAIL

	As Billed	Large Customer	Normalization for	Additional kWh	Total MO
Rate Schedule	Sales (kWh)	Annualizations	Weather & Days	from Cust Growth	Normalized kWh
RG-Residential	1,534,753,115	-	6,966,728	28,366,419	1,570,086,262
CB-Commercial	308,174,613	-	3,637,672	4,056,942	315,869,227
SH-Small Heating	86,423,580	-	109,391	1,544,642	88,077,613
PFM-Feed Mill/Grain Elev	937,811	-	(18,190)	-	919,621
MS-Traffic Signals	738,689	-	(143)	-	738,546
GP-General Power	778,441,023	(12,881,720)	1,299,692	8,908,874	775,767,869
TEB-Total Electric Bldg	329,590,010	-	964,804	10,801,097	341,355,911
LP-Large Power	658,434,756	27,109,051	-	-	685,543,807
SC-P PRAXAIR Transmission	67,387,032	-	-	-	67,387,032
PF-Elect Furnace Primary	1,941,914	(1,941,914)	-	-	-
SPL-Municipal St Lighting	16,132,331	-	•	-	16,132,331
PL-Private Lighting	16,310,941	-	(155,894)	-	16,155,047
LS-Special Lighting	1,554,463	-	(2,832)	-	1,551,631
CP-Cogeneration Purchase	(3,903)	-	-	-	(3,903)
MO Retail Billed	3,800,816,375	12,285,417	12,801,228	53,677,974	3,879,580,994

THE EMPIRE DISTRICT ELECTRIC COMPANY - CASE NO. ER-2004-0570 SUMMARY OF ANNUAL KWH SALES

TOTAL COMPANY RETAIL

	As Billed	Large Customer	Normalization for	Additional kWh	Total MO
Rate Schedule	Sales (kWh)	Annualizations	Weather & Days	from Cust Growth	Normalized kWh
RG-Residential	1,737,062,837	-	10,171,544	29,508,145	1,776,742,526
CB-Commercial	354,783,293	-	4,336,838	3,959,753	363,079,884
SH-Small Heating	89,799,819	-	82,524	1,572,307	91,454,650
PFM-Feed Mill/Grain Elev	937,811	-	(18,190)	-	919,621
MS-Traffic Signals	738,689	-	(143)	-	738,546
GP-General Power	872,203,636	(14,847,320)	1,221,723	7,400,632	865,978,671
TEB-Total Electric Bldg	344,606,868	-	968,028	11,864,930	357,439,826
LP-Large Power	796,530,500	29,928,203	-	-	826,458,703
SC-P PRAXAIR Transmission	67,387,032	-	-	-	67,387,032
PF-Elect Furnace Primary	1,941,914	(1,941,914)	-	-	-
SPL-Municipal St Lighting	19,228,638	-	-	-	19,228,638
PL-Private Lighting	19,374,522	-	(176,665)	-	19,197,857
LS-Special Lighting	1,819,990	-	(2,684)	-	1,817,306
CP-Cogeneration Purchase	(3,903)	-		-	(3,903)
MO Retail Billed	4,306,411,646	13,138,969	16,582,975	54,305,767	4,390,439,357

STAFF'S RATEMAKING TREATMENT OF RATE REVENUES AND KWH SALES Rationale For Making Adjustments

The historical 12-month time period (test year) and update period (if any) that the Commission determines should be used for analyzing the costs of providing service to retail customers is also used for analyzing kWh sales and revenue, based on the "matching principle" of ratemaking. The intent of adjustments to test year rate revenues is to estimate the revenue that the company would have collected on an annual, normal-weather basis, based on information "known and measurable" at the end of the update period.

Most adjustments to test year revenues correspond to adjustments to kWh sales that, in turn, affect the Company's fuel and purchased power costs. Net system loads, updated for these known and measurable changes in kWh sales, are reflected in the production cost simulation model (fuel run) to ensure that sufficient generation and purchases exist to meet total net system requirements. Any change to rate revenue from historical levels that results from changes in underlying sales of electricity will result in corresponding changes to fuel and purchased power costs that reflect that same adjustment to sales.

Categories Of Adjustments

The two major categories of adjustments are known as normalizations and annualizations.

Normalizations deal with test year events that are unusual and unlikely to be repeated in the years when the new rates from this case are in effect. Test year weather is an example. It is unlikely that the weather that occurred in the test year will, on average, be repeated in the future, but what weather will actually occur is not predictable. The objective of the weather normalization process is to re-state test year kWh sales and rate revenues on a "normal-weather" basis.

Annualizations are adjustments that re-state test year results as if conditions known at the end of the update period had existed throughout the entire test year. Annualizations may be further subclassified as being "test-year-related" or "update-period-related", depending on when a known and measurable change occurs (i.e., during the test year or during the update period).

Examples Of Annualizations

A common example of a revenue annualization is a rate change that occurs during the test year. In this situation, actual test year rate revenues will be understated or overstated by the difference between the amount that was actually billed to customers and the revenue that would have been realized by the company if the rates in effect at the end of the update period had been in effect throughout the entire test year.

An example of an annualization that affects both kWh sales and rate revenues is a large customer that either begins or ceases service during the analysis period. In the situation where a large customer ceases business, test year revenues should be decreased by the amount of revenue the customer provided the Company. A corresponding reduction to kWh sales and to fuel and purchased power expense should be made to reflect the costs the company will no longer incur. Conversely, when a large customer begins service, test year revenue, kWh sales, and fuel expense should be increased to reflect both the costs and the revenues associated with serving the new customer on an annual basis.

Customer growth adjustments are annualizations that reflect any additional sales and revenues that would have occurred if the total number of customers on the system at the end of the update period had been customers during all 12 months of the test year.