Issues: Cost of Assets Witness: Robert E. Pender Sponsoring Party: South Central MCN LLC Type of Exhibit: Direct Testimony Case No.: EA-2016-0036 Date Testimony Prepared: August 17, 2015

## BEFORE THE PUBLIC SERVICE COMMISSION

## OF THE STATE OF MISSOURI

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In the Matter of the Application of South Central MCN LLC for Approval of Transfer of Assets and a Certificate of Convenience and Necessity

File No. EA-2016-0036

DIRECT TESTIMONY OF ROBERT E. PENDER ON BEHALF OF SOUTH CENTRAL MCN LLC AUGUST 17, 2015

# BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI

PREPARED DIRECT TESTIMONY OF ROBERT E. PENDER ON BEHALF OF SOUTH CENTRAL MCN LLC AUGUST 17, 2015

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- 1 I. INTRODUCTION AND PURPOSE OF TESTIMONY
- 2 **Q 1:** Please state your name and business address.
- A: Robert E. Pender, P.O. Box 1567, Goldenrod, Florida, 32733.
- 4 **Q 2:** What is your occupation?
- 5 A: I am a consultant with the firm of R. E. Pender, Inc., holding the title of President.
- 6 Q 3: Have you previously testified before this Commission?
- 7 A: No.
- 8 Q 4: Have you testified before any other forums?

9 A: Yes. I previously testified before the Federal Energy Regulatory Commission (FERC) in Florida

- 10 Power & Light Company, Docket No. ER93-465-000; City of Las Cruces, New Mexico, Docket No.
- 11 SC97-2-000; and Nevada Power Company, Docket No. ER03-T328-000. I have also testified
- 12 before the Kansas Corporation Commission, the Public Service Commission of the District of
- 13 Columbia, the New York Public Service Commission, the New Mexico Public Regulation
- 14 Commission, the Public Utilities Commission of Ohio, the Pennsylvania Public Utility Commission,
- as well as several state circuit courts, Federal District Court and in an arbitration proceeding
- 16 convened pursuant to a Florida district court order.
- **Q 5:** Briefly summarize your experience in the electric utility industry.

A: I have over 35 years of experience in the electric utility industry, working primarily in the areas of utility appraisal and valuation; electric wholesale and retail rate regulation, including the preparation and analysis of cost of service studies, interconnection agreement filings and rate design; and general consulting. For nine years, I was employed primarily in the Rates and Regulatory Affairs department of Public Service Company of Indiana (now Duke Indiana) where I held the positions of Wholesale Cost of Service Supervisor, Transmission Joint Agreements Supervisor and Sr. Rates

Analyst, among others. I was also employed by the engineering and consulting firm of R. W. Beck,

1		Inc. for nineteen years where I last held the positions of Principal and Senior Director. I am an
2		Accredited Senior Appraiser – Public Utilities, as certified by the American Society of Appraisers. I
3		received a B.S. degree in Accounting and Business Administration from Indiana State University in
4		May 1977. In addition, I have taken over 180 hours of appraisal courses through the American
5		Society of Appraisers. A copy of my curriculum vitae is provided in Exhibit No. REP-1 attached
6		hereto.
7	Q 6:	On whose behalf are you testifying in this proceeding?
8	A:	I am appearing on behalf of South Central MCN LLC (SCMCN), a subsidiary of GridLiance
9		Heartland LLC.
10	Q 7:	What is the purpose of your testimony?
11	A:	I have been asked by SCMCN to present testimony supporting the estimated original cost less
12		depreciation (OCLD) value of certain transmission facilities currently owned by the City of Nixa,
13		Missouri (Nixa Assets). The Nixa Assets are to be acquired by SCMCN and, pending the approval
14		of FERC, the costs of these facilities will be included as part of the Southwest Power Pool, Inc.
15		(SPP) transmission rates. SCMCN's acquisition of the Nixa Assets is the subject of SCMCN's
16		application (Application) to this Commission for a certificate of convenience and necessity and, if
17		required, approval to transfer the assets.
18	II.	ORIGINAL COST LESS DEPRECIATION VALUE OF THE NIXA ASSETS
19	Q 8:	Please describe the Nixa assets.
20	A:	The Nixa Assets include five transmission lines operating at 69 kV which total 10.82 miles. The
21		transmission lines provide the means for Nixa to import its power purchases from the Southwest
22		Power Administration (SWPA) and the City Utilities of Springfield (CU). The line sections are
23		described as follows:

1		CU's James River Plant to City of Nixa's Northeast Substation is 3.92 miles built in 2006
2		with 636 MCM conductor and on 161 kV structures;
3		City of Nixa's Northeast Substation to City of Nixa's Tracker Substation is 2.31 miles built
4		in 2006 with 636 MCM conductor on 69 kV structures;
5		• City of Nixa's Tracker Substation to City of Nixa's Downtown Substation is 1.8 miles built in
6		2000 with 477 MCM conductor on 69 kV structures;
7		• City of Nixa's Downtown Substation to City of Nixa's ESPY Substation is 1.24 miles built in
8		1984 with 4/0 conductor on 69 kV structures; and
9		• The City of Nixa's ESPY Substation to SWPA's Nixa Substation is 1.55 miles built in 2012
10		with 636 MCM conductor.
11		The associated terminal equipment includes ten 69kV breakers. In addition, SCMCN will purchase
12		associated land and land rights and a small inventory of spare parts and equipment. A one-line
13		diagram showing the Nixa Assets is provided in Appendix C to the Application. I have reviewed
14		Appendix C and believe it accurately depicts the assets included in the OCLD value.
15	Q 9:	Will SPP have functional control of the Nixa Transmission Facilities?
16	A:	Yes. Upon acquisition from Nixa, SCMCN will turn over functional control of the subject facilities to
17		SPP.
18	Q 10:	Why is it necessary to estimate the OCLD value of the Nixa Assets?
19	A:	Located just south of Springfield in south central Missouri, Nixa operates a municipally-owned
20		electric utility that serves about 9,000 customers and has 14 employees. The Nixa electric utility is
21		a considered a non-jurisdictional utility under the Federal Power Act (16 U.S.C. § 791a et seq.) and
22		Missouri law (Section 393.010 et seq., RSMo.). The electric utility operates as part of Nixa's Public
23		Works department which also includes Nixa's water and sewer utilities. The Nixa Assets, while

1	separately accounted for, are included as part of Nixa's total city government assets reported in its
2	consolidated annual financial report (CAFR). I have attached an excerpted page from the City's
3	2014 CAFR which demonstrates this treatment (see Exhibit No. REP-2). Nixa maintains its
4	accounting books and records in accordance with the Governmental Accounting Standards Board; it
5	does not however account for its electric capital assets using the Commission's Uniform System of
6	Accounts. Because of this it was necessary to estimate, by FERC account, the OCLD value of the
7	transmission assets.
8	Q 11: Please explain how you calculated the OCLD value of the Nixa Assets.
9	A: As shown in the attached Exhibit No. REP-3, the calculation of OCLD value was performed in three
10	(3) basic steps. The first step was to determine the estimated Replacement Cost as of June 30,
11	2015. The next step involved restating the Replacement Cost to Original Cost, based on the in-
12	service year shown in column (c). The final step was to calculate the estimated Accumulated
13	Depreciation applicable to the Original Cost, given the age of the assets as of the valuation date.
14	Q 12: How did you determine the estimated replacement cost for the Nixa Assets?
15	A: The estimated Replacement Cost was based on an estimate of the current engineering, procurement
16	and construction ("EPC") cost for the subject assets, adjusted to account for capitalized owner's
17	costs. The estimated EPC cost, shown in column (d) of Exhibit No. REP-3 was provided by Quanta
18	Technology, <sup>1</sup> The EPC cost was increased by 15 percent to account for capitalized owner's costs
19	(e.g. planning, insurance, project oversight and interest during construction). The 15 percent

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capitalized overhead adder is based on my experience as a certified appraiser in performing

<sup>&</sup>lt;sup>1</sup> Quanta Technology, a subsidiary of Quanta Services, provides a wide variety of consulting services to the energy and utility industries.

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valuations and appraisals of public utility property. The total calculated Replacement Cost is shown in column (e) of Exhibit No. REP-3.

## 3 Q 13: How did you calculate the estimated original cost for the Nixa Assets?

A: The calculation of Original Cost for each facility was accomplished using a "reverse-trending" 4 technique whereby the Replacement Cost is divided by a reverse trend factor (or factors in this case) 5 to produce the Estimated Original Cost as of June 30, 2015. Due to the timing of the filing and the 6 date of valuation (June 30, 2015), it was necessary to reverse trend for two separate time periods; (i) 7 from vintage year to January 1, 2015 using the Handy Whitman Index of Public Utility Construction 8 Costs,<sup>2</sup> and (ii) from January 1, 2015 to June 30, 2015 using the Engineering News-Record 9 Construction Cost Index.<sup>3</sup> This approach was necessary because the latest Handy-Whitman Index. 10 available at the time of the filing was January 1, 2015. I have attached a copy the pertinent pages of 11 12 the Handy-Whitman Index and Engineering News-Record used in the subject analysis as Exhibit No. REP-4. The development of the reverse trend factors are shown in the footnotes to Exhibit No. REP-13 3. For the transmission lines, it was also necessary to compute a weighted reverse trend factor since 14 15 the breakdown between FERC accounts 355 – Poles & Fixtures and 356 – Conductor and Devices is unknown. The weighting percentages (50% for Account 355 and 50% for Account 356) were 16 developed from gross plant in service data contained in the FERC Form 1 Annual Report for the 17 18 Empire District Electric Company ("EDEC"). Excerpted pages from the EDEC FERC Form 1 are provided as Exhibit No. REP-5. The data for the EDEC was used as a "proxy" for the FERC account 19

<sup>&</sup>lt;sup>2</sup> The Handy-Whitman Index© is a well-known industry publication prepared specifically for estimating construction costs applicable to electric, gas and water utilities. It is published twice annually for cost indices stated as of January 1 and July 1.

<sup>&</sup>lt;sup>3</sup> The Engineering News-Record is widely circulated monthly magazine that provides news, analysis, data and opinion to the construction industry worldwide. It is owned by BNP Media.

- breakdown primarily because Nixa is located within the EDEC service area, providing some evidence
   of similarity; at least from a geographic standpoint. The resulting Estimated Original Cost as of June
   20.0015 is above in solvers (b) of Exhibit No. DED 2.
- 3 30, 2015 is shown in column (h) of Exhibit No. REP-3.

## 4 **Q 14:** Please explain your computation of accumulated depreciation.

- 5 A: The estimated Accumulated Depreciation for each of the transmission facilities is shown in columns
- 6 (i) and (j) of Exhibit No. REP-3. Accumulated Depreciation (column (j)) was determined by the
- 7 applying the appropriate depreciation percentage (column (i)) to the estimated Original Cost (column
- 8 (h)). The applicable depreciation percentage was computed based on the estimated age of each
- 9 facility and depreciation rates of 2.60 percent for transmission lines and 2.20 percent for the
- 10 substation equipment. The depreciation rates (rounded to the nearest tenth of a percent) were
- developed from data contained in the aforementioned EDEC FERC Form 1 (see Exhibit No. REP-5).
- 12 After subtracting the amount of accumulated depreciation from the original cost, it produces the sub-
- 13 total OCLD values shown in column (k) of Exhibit No. REP-3.

## 14 Q 15: What is the basis for the value of land and land rights shown in Exhibit No. REP-3?

- A: The value of Land and Land Rights shown in column (I) of Exhibit No. REP-3 was estimated and
   provided by the City of Nixa.
- 17 **Q 16:** Please summarize the results of your OCLD calculations.
- A: The results of the determination of the OCLD value of the Nixa Assets as shown in Exhibit No. REP-3
   are summarized below.
- 20

21	Original Cost	<u>\$000's</u>
22	Plant and Equipment	\$11,336
23	Land	52
24	Total Original Cost	\$11,388

1	Accumulated Depreciation	2,273
2	Estimated OCLD	<u>\$ 9,115</u>

- 3 III. CONCLUSION
- 4 **Q 17:** Does this conclude your testimony?
- 5 A: Yes it does.

#### **BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI**

In the Matter of the Application of South Central MCN LLC for Approval of Transfer of ) Assets and a Certificate of Convenience and Necessity

File No. EA-2015-

#### **AFFIDAVIT OF ROBERT E. PENDER**

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#### **STATE OF FLORIDA** ) ) ss **COUNTY OF SEMINOLE )**

Robert E. Pender, being first duly sworn on his oath, states:

My name is Robert E. Pender. I am currently a consultant with the firm of R.E. 1.

Pender, Incorporated. My business address is P.O. Box 1567, Goldenrod, Florida 32733.

- Attached hereto and made a part hereof for all purposes is my Direct Testimony 2. on behalf of South Central MCN, LLC, consisting of 7 pages, all of which have been prepared in written form for introduction into evidence in the above-referenced docket.
- I hereby swear and affirm that my answers contained in the attached testimony to 2. the questions therein propounded are true and accurate to the best of my knowledge, information and belief.

Robert E. Pender

Subscribed and sworn to before me this  $1/4/\hbar$  day of 7Notary Public

My commission expires: Jan 28,2017



R. E. Pender, Inc.

## ROBERT E. PENDER, ASA P.O. BOX 1567 GOLDENROD, FL 32733 407-644-9795 bob@repender.com

Mr. Pender has over 35 years of experience in providing professional services to the utility industry as both a consultant and in a management role for an investor-owned utility. From 1986 through 2004, Mr. Pender was a Principal and Senior Director in the firm of R. W. Beck, Inc., a well-known international consulting and engineering firm. Prior to joining R. W. Beck, Mr. Pender was employed by Public Service Company of Indiana (now an operating division of Duke Energy) where he last held the position of Wholesale Cost of Service Supervisor. Mr. Pender's areas of expertise include utility property appraisals and valuations; utility cost of service, rates and regulatory support; economic feasibility studies; contract billing compliance reviews and dispute resolution; right-of-way cost studies; and impact fee studies. He has testified as an expert witness in defense of his appraisals before courts in Florida (ad valorem) and Virginia and on various utility rate/regulatory matters before the Federal Energy Regulatory Commission, several state commissions and the courts. Mr. Pender received a B. S. Degree in Accounting and Business Administration from Indiana State University in 1977. He is a retired major of the United States Air Force Reserve and has lived in the Orlando, Florida area since 1986.

#### UTILITY APPRAISALS AND VALUATIONS

- An Accredited Senior Appraiser (ASA), Public Utilities, as certified by the American Society of Appraisers (member since 1998). Currently, one of only 22 such appraisers nationwide.
- Performed a large number of appraisals and valuations of utility assets in connection with property tax disputes and litigations, municipal condemnations, sale/purchase of assets, stranded cost assessments, contract litigation, book/rate base valuation and bond financings (See Exhibit A).
- Appraised all types of utility property including electric (generation, transmission and distribution), natural gas, water, wastewater, telecommunications, steam and chilled water utilities and coal conveyer systems. Seventy (70) such engagements (since 1991) have involved electric utility property; thirty-nine (39) of which included electric generation-related assets.
- Testified as an expert witness in defense of appraisals and valuations before the courts, arbitration panels and regulatory commissions.

## UTILITY RATES AND REGULATORY SUPPORT

- Extensive background in performing and analyzing utility wholesale and retail rate studies.
- Performed a number electric retail rate studies for municipal-owned electric systems across the country which involved a cost of service analysis, rate reviews and retail rate design.

- As a wholesale cost of service supervisor for an investor-owned utility, had primary responsibility for the preparation of wholesale rate filings and interconnection agreement filings before the Federal Energy Regulatory Commission.
- Testified as an expert on various utility rate matters before the Federal Energy Regulatory Commission, several state utility commissions and Federal district court (See Exhibit B). Issues addressed include income taxes, stranded costs; various cost of service allocations/assignments; fuel cost recovery; merger cost savings and regulatory policy.

#### **ECONOMIC FEASIBILITY STUDIES**

- Performed several economic feasibility studies analyzing both the privatization and public ownership of utility systems.
- Relied on extensive knowledge of the cost of service profiles of public and private utility systems to develop models that analyze total utility costs under a variety of assumptions and alternative scenarios.

#### **CONTRACT BILLING REVIEWS AND DISPUTE RESOLUTION**

- Utilized accounting knowledge and expert background in utility cost of service principles to perform a number of in-depth reviews of charges under power supply and joint-ownership contracts between municipal joint-action agencies and investor-owned utilities.
- Annual reviews resulted in the identification of a number of important issues, including cost allocation/assignment issues that were ultimately resolved by the parties either through negotiation or arbitration.
- Played a lead role in assessing the value of identified issues and in negotiating their resolution on behalf of the client. These efforts resulted in total cumulative savings to the clients of well over \$1.0 billion.

#### **RIGHT-OF-WAY COST STUDIES**

- Performed comprehensive studies to determine a local government's costs associated with the ownership, management and maintenance of public right-of-ways and appropriate access fees for use of the right-of-ways.
- Scope of work typically includes conducting departmental interviews, preparing data requests, analyzing data, developing the cost study to identify the "direct" and "indirect" expenses and capital-related costs and determining the amount (e.g., linear feet) of right-of-way to use in designing the fees for right-of-way access.
- If necessary, expert testimony and other litigation assistance in support of the right-ofway cost study and rates are also provided.

#### **IMPACT FEE STUDIES**

 Conducted several in-depth cost studies to determine appropriate impact fees for municipalities and municipal electric systems. Impact fees were designed for electric, police, library, parks & recreation and refuse.

- Worked closely with staff to determine the estimated incremental costs that would be incurred by the local government in providing services to new residential/commercial development areas.
- Appropriate impact fees were determined utilizing both the inductive and deductive methods for fee design.

#### PAPERS AND PRESENTATIONS

- "The Use of Comparable Sales in the Valuation of Public Utility Property," International Association of Assessing Officers, Public Utility Workshop, March 22, 2002
- "Understanding GASB Statement No. 34," First Coast Chapter of the Florida Water Environment Association, July 2002.
- "Recent Mandates by the FCC and Their Potential Impact," International Association of Assessing Officers, Public Utility Workshop, March 5, 2004
- "What is Your Water System Worth A Primer on How to Effectively Value Water Systems," American Water Works Association Annual Conference, June 15, 2005
- "Broadband Services Potential Impact on Telecom Value," International Association of Assessing Officers, Annual Conference, September 1, 2004.
- "Questions for Appraising or Valuating a Water System," *Opflow*, published by the American Water Works Association, December 2004.
- "Protecting Your Interests Underground," Web seminar by the American Public Works Association, May 11, 2005.
- "Property Tax Litigation Case Study," National Conference of Unit Valuation States, November 7, 2005.
- "Telecommunications Competition Impact on Telecom Value," Annual Wichita Conference on Ad Valorem Taxation, July 2006.
- "The Public Right-of-Way Cost Analysis Basic Concepts and Approach," National Association of Telecommunications Officers and Advisors, Annual Meeting, August 2006.
- "A Primer for Determining Public Right-of-Way Costs," *NATOA Journal*, Spring 2007.
- "The Public Right-of-Way Are You Recovering All of Your Costs?" National Association of Telecommunications Officers and Advisors, Annual Local Government Conference, October 2, 2009.

#### ASSOCIATIONS

- American Society of Appraisers
- International Association of Assessing Officers
- American Water Works Association

#### **Representative Project Experience**

The following are brief representative profiles of Mr. Pender's project experience.<sup>1</sup> A complete listing of his appraisal/valuation and litigation project experience is presented in the attached Exhibit A and Exhibit B, respectively.

#### **Utility Appraisals and Valuations**

Crawfordsville Electric Light & Power Potential Asset Sale Certified Appraisal 2011

R. E. Pender, Inc. was engaged by Crawfordsville Electric Light & Power ("CEL&P") to conduct an appraisal of the Crawfordsville Power Plant ("CPP") located in Crawfordsville, Indiana. Very generally, the subject property was a 25-megawatt, coal-fired power plant wholly owned and operated by CEL&P. The plant consisted of two generating units that were placed in service in 1955 and 1965. The purpose of the appraisal was to determine the market value of the CPP as of January 1, 2011. CEL&P sought to dispose of (i.e., sell) the subject property though a competitive bidding process and was required by Indiana statute (i.e., IC 36-1-11) to have an appraisal performed. The appraisal indicated that the fair market value of the CPP was approximately \$1.1 million. The plant later sold for \$975,000.

## Hardee County Property Appraiser Property Tax Proceeding Certified Appraisal and Expert Testimony 2007 - 2008

R. E. Pender, Inc. was engaged by the Hardee County Property Appraiser (the "Client") to conduct an appraisal of the Vandolah Power Plant ("Vandolah") located in Hardee County, Florida. Vandolah is wholly owned and operated by the Vandolah Power Company, L.L.C. ("VPC" or the "Owner"); an operating subsidiary of Northern Star Generation. The purpose of the appraisal was to determine the fair market (or "just") value of Vandolah's tangible personal property ("TPP") as of January 1, 2005 and January 1, 2006. The appraisal was requested by the Client to submit as an independent valuation of Vandolah in a civil proceeding before the Tenth Judicial Circuit Court of Hardee County regarding the appropriate "just" value of Vandolah for property tax assessment purposes. Mr. Pender's work included the complete appraisal of Vandolah, performed in accordance with the Uniform Standards of Professional Appraisal Practice and applicable state laws; expert testimony before the court; and related tasks.

## Town of Berlin, Maryland Sale of Electric Utility Certified Appraisal 2006

R. E. Pender, Inc. was engaged by the Town of Berlin, Maryland (the "Town") to conduct an appraisal of certain electric distribution and generation properties (the "Electric System") owned and operated by the Town. The purpose of the appraisal was to determine the fair market value

<sup>&</sup>lt;sup>1</sup> Several of the project profiles presented represent work performed while employed at R. W. Beck, Inc.

R. E. Pender, Inc.

of the Electric System as of July 1, 2006. The appraisal was requested by the Town as part the process of allowing its citizens to make an informed decision regarding the proposed sale of the Electric System assets to Choptank Electric Cooperative and Old Dominion Electric Cooperative. The findings of the appraisal were presented to the citizens of Berlin at two (2) public hearings.

#### **Utility Rates and Regulatory Support**

Heber Light & Power Heber City, UT Rate Services 2011 - Present

In 2011, Mr. Pender was engaged by Heber Light & Power to perform a preliminary electric cost of service study to determine if there was any deficiency in its current electric rates and to review the current rates and make recommendations (if any) with regard to future electric rate design. Mr. Pender was hired by HLP in early 2014 to conduct an electric cost of service study and design new electric rates for the commercial class of customers. The entire rate study was completed in April 2014 and presentations of the results were given to the HLP staff, the utility board executive committee, the full board and at a public hearing.

#### City of Fairhope, AL Rate Review Services 2007 - Present

Mr. Pender currently provides on-going rate services for the City of Fairhope's electric, gas, water and sewer utilities. The rate services include the preparation of rate studies (cost of service and rate design), monthly review of purchased gas rate adjustment; energy cost adjustment; preparation of utility operating reports; electric load forecast reviews; drafting of rate ordinances; and preparation of electric and gas annual reports filed with the Department of Energy, among others.

#### Utilities Board of Tuskegee Tuskegee, AL Utility Rate Studies and Financial Forecast Models 2006 - 2007

Mr. Pender was engaged by the Utilities Board of Tuskegee ("UBT") to perform rate studies for the City's water, wastewater and electric utilities. This work involved the preparation of a cost of service model for each utility; rate design for existing and proposed rate classifications; rate policy review and preparation of a summary report for each study. Mr. Pender's work also included the preparation of a five-year financial forecast model for each utility and a composite forecast for the UBT combined. The five-year model, which is to be used by the UBT for future financial forecasting, included projections of customers, consumption patterns; sales and other revenues; fixed and variable expenses, debt service and capital requirements.

## **Economic Feasibility Studies**

#### City of Fort Wayne, IN Municipalization Feasibility Studies 2008 - 2009

Mr. Pender was engaged by the City of Fort Wayne, IN to conduct certain cost/benefit analyses and studies in connection with the potential reformation of an electric distribution utility that was owned by City and leased to Indiana-Michigan Electric Company ("I&M"). I&M had indicated to the City that it desired to purchase the City Light System when the 35-year lease expired in 2010. However, under the provisions of the lease agreement, I&M also had the option to extend the lease for an additional 15 years and the City had the option of acquiring all Betterments, Enlargements and Extensions made by I&M to the City Light System and taking over operations at the lease termination date. Mr. Pender's studies and analyses were undertaken to determine the long-term economic impact (i.e., net present value of the costs/benefits) to the City of (i) selling the City Light System to I&M versus (ii) taking over operations of the City Light System (i.e., reforming the City's electric utility). Both of the options were compared to the option of extending the lease for at least another fifteen (15) years. Mr. Pender also provided analytical support to the negotiations surrounding the sale of the City Light System to I&M.

#### Keys Energy Services Military Privatization Studies 2003 – 2005

Mr. Pender provided assistance to the Keys Energy Services ("Keys") in connection with Keys' proposal to acquire certain electric facilities owned by the Department of the Navy, located in Key West, Florida. The proposal was submitted in response to the Navy's solicitation (No. N62467-00-R-1801) published pursuant to the Department of Defense Utility Privatization Initiative. Mr. Pender's services included the preparation of an economic cost/feasibility analysis, a fair market value determination of the assets to be acquired, assistance in preparation of the proposal and negotiations with the Navy.

## City of Geneva, Ohio Municipalization Feasibility Study 2001 – 2004

In 2001, the City of Geneva, Ohio undertook a project to acquire the water distribution system of Consumer's Ohio Water Company (now Aqua-Ohio) located within the City. Mr. Pender served as the project manager and lead appraiser in performing various services related to the proposed acquisition, including, (i) performing an economic feasibility study that estimated the impact on customers of acquiring the COWC assets, (ii) completing a certified appraisal of the water system, (iii) providing support in negotiations with COWC and, (iv) providing expert testimony in support of the appraisal before the Ashtabula County circuit court. Mr. Pender also played a key role in helping the City and COWC agree on a purchase price for the system after several days of intense negotiations. The City ultimately acquired the system in late 2004.

## Contract Billing Reviews and Dispute Resolution

#### North Carolina Eastern Municipal Power Agency Contract Compliance Reviews 1988 – 2000

Since 1988, the North Carolina Eastern Municipal Power Agency ("NCEMPA") has undertaken annual reviews of charges under its contracts with Progress Energy Carolina ("PEC"), formally Carolina Power & Light Company. NCEMPA retained its consulting engineer, R. W. Beck, Inc. to conduct certain aspects of these annual contract reviews. While employed at R. W. Beck, Mr. Pender had primary responsibility for completing these annual reviews, which involved the verification of monthly and annual charges as to accuracy and compliance with the various contract provisions and formulas; identification and analysis of issues for potential challenge; negotiation of their resolution and drafting of settlement agreements. In certain cases where the issues could not be resolved through negotiations, Mr. Pender also assisted NCEMPA in litigation of the contractual dispute(s). These efforts have resulted in NCEMPA saving hundreds of millions of dollars over the years, resulting in lower wholesale power rates to its members.

#### North Carolina Municipal Power Agency No. 1 Contract Compliance Reviews 1988 - 2000

Since their inception, the North Carolina Municipal Power Agency No. 1 ("NCMPA1") has been performing periodic compliance reviews of certain contracts between NCMPA1 and Duke Power Company ("Duke"). The subject contracts include an Interconnection Agreement regarding the purchase of supplemental power from Duke and an Operating and Fuel Agreement pertaining to NCMPA1's joint-ownership in the Catawba Nuclear Station. NCMPA1 employed its consulting engineer, R. W. Beck, Inc., to conduct certain aspects of these reviews. While employed at R. W. Beck, Mr. Pender played a key role in conducting these reviews, which involved a verification of monthly and annual charges as to accuracy and compliance with the various provisions and rate formulas contained in the contracts, identification and analysis of key issues for potential challenge, negotiation of their resolution and drafting of settlement agreements. When certain issues could not be resolved through negotiations between the parties, Mr. Pender also assisted NCMPA1 in the arbitration of the contractual dispute(s). Mr. Pender's efforts were instrumental to NCMPA1 saving several hundred million dollars over the life of the contracts.

#### **<u>Right-of-Way Cost Studies</u>**

#### City of Nashville – Davidson County ("Metro-Nashville") Right-of-Way Cost Study 2005 - 2013

Mr. Pender was retained by Ashpaugh and Sculco CPAs, PLC to assist in the preparation of a right-of-way cost study for the Metro-Nashville city/county government. Work for this project included the preparation of departmental surveys and data requests; design of departmental cost allocation models; design of right-of-way access fees; and a comprehensive report conveying the results of the study. Two such studies were performed; a preliminary study based on fiscal year 2005 budget data and a 2007 final study using 2007 actual data. In addition, expert testimony was provided in support of the 2007 study which was litigated before the Chancery Court of Davidson County, Tennessee, Docket No. 02-679-IV.

## Impact Feet Studies

#### Springville, UT Electric Impact Fee Study 2012-13

The electric impact fee studies for Springville, UT was a joint effort between Salient Power Engineering ("SPE") and R. E. Pender, Incorporated. The engagement involved the preparation of a Impact Fee Facilities Plan ("IFFP") and an Impact Fee Analysis ("IFA"), as required by Utah Statute. SPE had primary responsibility for preparation of the IFFP with Mr. Pender providing review and analytical support. Mr. Pender was primarily responsible for preparing the IFA and the final report. The results of the studies were presented to the City Council in February 2013.

#### City of Wildwood, FL Impact Fees for Municipal Services 2006

Working as a sub-consultant to Barnes, Ferland & Associates, Mr. Pender performed several impact fee studies for the City of Wildwood, FL. The impact fees were designed to recover the City's incremental capital costs estimated to be incurred in providing various services to new residential and commercial development over the next 25 years. The services to be provided include police, library, parks and recreation and refuse collection. The study included an analysis of the incremental capital costs for each service; analysis of current and projected demand units (e.g., residential dwelling units) and the design of the associated impact fee considering the level of service provided. The results of the study were conveyed in a comprehensive report provided to the client.

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Completion Date	Work Performed For	Property Description	Purpose of Assignment	Project Deliverables	Intended use
			ELECTRIC		
On-going	GridLiance Heartland, LLC	Transmission Facilities	Valuation Studies	Valuation exhibits and testimony.	Determination of OCLD value for FERC transmission filings.
On-going	City of Bloomfield, NM	Transmission and Distribution Facilities	Valuation / Appraisal Studies	Certified Appraisal Report	Determination of FMV for Property Acquisition
On-going	Stelzner, Winter, et. al. (Socorro, NM)	Transmission and Distribution Facilities	Valuation / Appraisal Studies	Certified Appraisal Report	Determination of FMV for Property Acquisition
On-going	Stelzner, Winter, et. al. (Gallup, NM)	Transmission and Distribution Facilities	Appraisal Studies	Certified Appraisal Report	Determination of FMV for Property Acquisition
March 2014	Sutherland, Asbill & Brennan (Duke Energy)	Electric Generation and T&D Properties	Appraisal Studies	Certified Appraisal Report	Determination of Just Value for property tax litigation.
July 2013	Stelzner, Winter, et. al. (Jicarilla Nation)	Electric Distribution System	Valuation / Appraisal Studies	Preliminary Valuation Report	Determination of FMV for Potential Property Acquisition
August 2012	Hardee County, Florida	Combined-cycle Generation Plant	Fair Market Value Determination	Preliminary Valuation	Determination of Just Value Property Tax Assessment
September 2011	Filsinger Energy Partners (Deseret Electric Cooperative)	Generation, Transmission and Distribution Plant	Appraisal Review	Certified Appraisal Review Report	Supporting evidence in property tax dispute proceeding.
April 2011	Crawfordsville Electric Light & Power	Coal-fired Power Plant	Appraisal Studies	Certified Appraisal Report	Determination of FMV for Proposed Sale of Property
March 2010	Dunbeck & Moss (Confidential Client)	Electric Distribution System	Valuation / Appraisal Studies	Letter Report	Determination of FMV for Potential Property Acquisition
February 2010	Ater Wynne (Confidential Client)	Electric Distribution System	Valuation / Appraisal Studies	Letter Report	Determination of FMV for Property Acquisition
January 2009	City of Union, SC	Diesel Generation Plant	Appraisal Study	Certified Appraisal Report	Determination of FMV for Property Acquisition
July 2007	Green, de Bortnowsky & Quintanilla (Victorville, CA)	Combined Cycle Generation Plant	Fair Market Value Determination	Certified Appraisal Report	Determination of FMV for Property Tax Assessment before State Court

Completion Date	Work Performed For	Property Description	Purpose of Assignment	Project Deliverables	Intended use
		]	ELECTRIC (cont.)	-	
February 2008	Hardee County, Florida	Combustion Turbine Generation Plant	Fair Market Value Determination	Certified Appraisal	Determination of FMV for Property Tax Assessment before Circuit Court
August 2006	Berlin, Maryland	Electric Generation & Distribution	Fair Market Value Determination	Certified Appraisal	Potential Sale of Utility
May 2005	Keys Energy Services	Electric Distribution	Navy privatization RFP – valuation of facilities	Consulting/Appraisal	Support proposal to Navy
January 2005	Joseph J. Luzinski (Liquidating Trustee)	Combustion Turbine Generation Plant	Liquidation Value Determination	Certified Appraisal	Value for Property Tax Assessment
January 2005	Wabash Valley Power Association	Coal Gasification Facility	Fair Market Value Determination	Certified Appraisal	Support Financing Transaction
April 2004	Christian & Barton	Electric Generation	Valuation for Property Tax Dispute	Litigation Support / Expert Testimony	Rebuttal Testimony re: Fair Market Value
Feb. 2004	[CONFIDENTIAL]	Electric Generation	Valuation of Assets for Investment Decision	Certified Limited Appraisal	Determination of FMV to support acquisition.
Oct. 2003	Blue Mountain Energy	Electric Generation Coal Conveyor System	Acquisition Under Lease Agreement	Certified Appraisal	Determination of FMV before State court.
June 2003	Town of Belleair, FL	Electric Distribution	Acquisition Arbitration Proceeding	Certified Appraisal	Submit to Arbitration Board for determining acquisition price
May 2003	Okeechobee County, FL	Electric Transmission and Distribution	Property Tax Litigation	Certified Appraisal	Determination of FMV before Circuit Court
May 2002	Rochester Public Utilities	Electric and Water	Valuation of Assets For GASB 34	Book Valuation Study/Implementation Plan	Update Continuing Property Records
April 2002	Florida Municipal Power Agency	Electric Transmission and Distribution	Rate Base Valuation	Valuation Report	Transmission Cost of Service for RTO Rates

Completion Date	Work Performed For	Property Description	Purpose of Assignment	Project Deliverables	Intended use
		ŀ	ELECTRIC (cont.)		
Jan. 2001	Riviera Utilities Foley, AL	Electric, Gas, Water, Sewer and Cable TV facilities	Governance and valuation of systems	Consulting / Valuation Study	Identify changes, establish value
Nov. 2000	[CONFIDENTIAL]	Electric Generation	Valuation of Assets	Valuation Report	Non-recourse financing
Oct 2000	U.S. Navy	Electric and Gas Distribution	FMV Determination	Certified Appraisal	Potential Utility Privatization
Oct 2000	Florida Municipal Power Agency	Electric Transmission	Determination of Book Value of Assets	Consulting	Regional Transmission Arrangements
Oct 2000	[CONFIDENTIAL]	Electric Generation	FMV Determination	Certified Appraisal	Bond Refinancing
July 2000	City of Tallahassee, FL	Electric Distribution	FMV Determination	Certified Appraisal	Arbitration Proceeding
May 2000	ElectriCities of North Carolina	Electric Distribution	Preliminary Valuation of Assets	Consulting	Evaluate Options
Jan 2000	Coalition for Electric Competition	Electric Generation	Residual Value (stranded cost) Determination	Consulting	Utility Restructuring Hearings
Jan 2000	City of Dothan, AL	Electric Transmission and Distribution	Valuation of Electric Assets	Consulting	Establishment of CPR
Jan 2000	[CONFIDENTIAL]	Electric Generation and Transmission	Valuation of Merged Assets	Consulting	Support for potential merger
Jan 1999	General Services Administration	Electric, Water, Gas & Steam Utility	FMV Determination	Certified Appraisal	Potential Sale
Jan 1999	NC Eastern Municipal Power Agency	Electric Generation and Transmission	Rate Base Valuation	Consulting	Contractual Challenges

Completion Date	Work Performed For	Property Description	Purpose of Assignment	Project Deliverables	Intended use
		I	ELECTRIC (cont.)		
Nov 1998	[CONFIDENTIAL]	Electric Generation	Valuation of Merged Assets	Consulting	Go-forward decision
Sept 1998	Caribbean Utilities Company	Electric Distribution	Establish fixed Asset Record	Consulting	N/A
Jan 1998	Village of Lakewood, NY	Electric Distribution	Condemnation Feasibility Study	Appraisal/Consulting	Go-forward decision
Dec 1998	Christian & Barton	Electric Generation	FMV Value	Consulting	Regulatory Proceeding
Nov 1998	Piedmont Municipal Power Agency	Electric Generation	Residual Value (stranded cost) Determination	Consulting	Strategic Planning
Sept 1998	Deseret G&T	Electric Generation	FMV Determination	Certified Appraisal	Valuation of Lease
April 1998	City of Las Cruces, NM	Electric Utility	Rate Base Valuation	Consulting	Regulatory Proceeding
July 1998	Piedmont Municipal Power Agency	Electric Distribution	Determination of Leased Asset Value	Consulting	Potential Arbitration Proceeding
April 1998	City of Las Cruces	Electric Distribution	FMV Determination	Updated Appraisal	Condemnation Proceeding
Jan 1998	NC Eastern Municipal Power Agency	Electric Generation and Transmission	Rate Base Valuation	Consulting	Contractual Challenge
Aug 1997	City of Las Cruces	Electric Generation and Distribution	Residual Value (Stranded Costs) Determination	Consulting	Regulatory Proceeding
Aug 1997	NC Municipal Power Agency 1	Electric Generation and Transmission	Rate Base Valuation	Consulting	Contractual Challenge

Completion Date	Work Performed For	Property Description	Purpose of Assignment	Project Deliverables	Intended use
		l	ELECTRIC (cont.)		
June 1997	Reedy Creek Improvement District	Electric, Water, Gas, Steam and Chilled Water Utilities	FMV of Leased Assets	Certified Appraisal	Support Refinancing
Apr 1997	NC Municipal Power Agency 1	Electric Generation	Valuation of Joint Ownership of generation Assets	Consulting	Legislative Hearing
Apr 1997	Piedmont Municipal Power Agency	Electric Generation	Valuation of Joint Ownership of Generation assets	Consulting	Legislative Hearings
Apr 1997	NC Eastern Municipal Power Agency	Electric Generation	Valuation of Joint Ownership of Generation Assets	Consulting	Legislative Hearings
Jan 1997	NC Eastern municipal Power Agency	Electric Generation and Transmission	Rate Base Valuation	Consulting	Contractual Challenge
Nov 1996	City of Las Cruces	Electric Transmission	Rate Base Valuation	Consulting	Regulatory Proceeding
Oct 1996	City of Maitland, FL	Electric Distribution	Municipalization Feasibility Study	Economic Feasibility Analysis	Go-forward Decision
Sept 1996	City of Lafayette, LA	Electric Transmission	Rate Base Valuation	Consulting	Regulatory Proceeding
June 1996	Sithe Energies	Electric Transmission	Rate Base Valuation	Consulting	Regulatory Proceeding
June 1996	Washington Metro Area Transit Authority	Electric Generation	Valuation of Proposed Merger	Expert Testimony	Regulatory Proceeding

Completion Date	Work Performed For	Property Description	Purpose of Assignment	Project Deliverables	Intended use
		]	ELECTRIC (cont.)		
Jan 1996	NC Municipal Power Agency 1	Electric Generation	Residual Value (Stranded Cost) Determination	Consulting	Strategic Planning
Jan 1996	NC Eastern Municipal Power Agency	Electric Generation	Residual Value (Stranded Cost) Determination	Consulting	Strategic Planning
Jan 1996	NC Eastern Municipal Power Agency	Electric Generation and Transmission	Rate Base Valuation	Consulting	Contractual Challenge
Aug 1995	Piedmont Municipal Power Agency	Electric Generation and Distribution	Asset Valuations	Consulting	Strategic Planning
June 1995	City of Las Cruces	Electric Distribution	Condemnation Feasibility Study	Consulting	Go-forward Decision
Jan 1995	NC Eastern Municipal Power Agency	Electric Generation and Transmission	Rate Base Valuation	Consulting	Contractual Challenge
Jan 1995	NC Municipal Power Agency 1	Electric Distribution	Probabilistic Income Valuation Model	Consulting	Evaluate Investment Payback Periods
Mar 1995	NC Municipal Power Agency 1	Electric Transmission	Rate Base Valuation	Consulting	Regulatory Proceeding
Aug 1994	NC Eastern Municipal Power Agency	Electric Generation	Asset Valuation	Consulting	Contract Negotiations
July 1994	NC Municipal Power Agency 1	Electric Generation	Rate Base Valuation	Consulting	Contractual Dispute

Completion Date	Work Performed For	Property Description	Purpose of Assignment	Project Deliverables	Intended use
June 1994	NC Eastern Municipal Power Agency	Electric Distribution	Rate Base Valuation	Consulting	Financial Ratings Analysis
Jan 1994	Piedmont municipal Power Agency	Electric Generation	Rate Base Valuation	Consulting	Arbitration Proceeding
Jan 1992	NC municipal Power Agency 1	Electric Generation	Rate Base Valuation	Consulting	Arbitration Proceeding
Aug 1992	NC Eastern Municipal Power Agency	Electric Generation	Rate Base Valuation	Damages Study / Dispute Resolution	State Court Proceeding
Oct 1991	South Carolina Public Service Authority	Electric Generation and Transmission	Privatization Proposal	Privatization Cost Study	Legislative Proceeding
		WAT	<b>TER / WASTEWAT</b>	TER	
Feb. 2014	Falcon Ridge Water System	Water Distribution System	Valuation for Income Tax Purposes	Certified Appraisal Report	Income Tax Requirements
On-going	Rice, Silbey, Reuther & Sullivan, LLP (Confidential Client	Water Transmission Company	Valuation Studies	Valuation Summary Reports	Potential sale of company.
October 2012	City of Las Cruces, NM	Water Distribution Utility	Appraisal Studies	Certified Appraisal Report	Determination of FMV for potential acquisition.
June 2011	Keleher & McLeod, P.A. (City of Las Cruces, NM)	Water Distribution Utility	Valuation / Appraisal Studies	Certified Appraisal Report	Determination of FMV for Property Acquisition
March 2010	Andrews Kurth, LLP (Confidential Client)	Water Transmission System	Appraisal Review / Valuation Studies	Letter Report	Determination of FMV for Property Acquisition
June 2009	Sunshine Utilities of Central Florida, Inc.	Water Utility	Valuation Study	Preliminary Valuation Report	Use in negotiating purchase price for utility.

Completion Date	Work Performed For	Property Description	Purpose of Assignment	Project Deliverables	Intended use
	Keleher & McLeod,				Determination of Condemnation
	P.A. (City of Las	Water Distribution		Review Comments and	Damages before State District Court
January 2007	Cruces, NM)	Utility	Appraisal Review	Testimony	of New Mexico
	Boyle Engineering	Water Distribution	Fair Market Value		Support Purchase Price Negotiations
January 2006	(City of Leesburg)	System	Determination	Preliminary Valuation	for Acquisition
	Odin, Feldman and	Wastewater Treatment	Determine Appropriate	Certified Appraisal /	Determination of FMV for contract
August 2004	Pittleman	Plant	Value of Assets	Expert Testimony	litigation
				Feasibility Study	Submit to Arbitration Board and/or
May 2004	City of Geneva, OH	Water Distribution	Municipalization	Certified Appraisal	Courts
			NATURAL GAS		
				Letter Report /	
	Metropolitan Utilities	Natural Gas	Valuation / Appraisal	Certified Appraisal	Determination of FMV for Property
April 2009	District, Omaha, NE	Distribution System	Studies	Report	Acquisition
	Sheehan, Sheehan &				
	Stelzner		Valuation / Appraisal	Preliminary Valuation /	Support for acquisition /potential
January 2006	(Las Vegas, NM)	Natural Gas Pipeline	Studies	Certified Appraisal	condemnation.
		TELI	<b>ECOMMUNICATIO</b>	ONS	
	Ashpaugh & Sculco			Certified Appraisal	Determination of FMV for "in-kind"
January 2012	(Howard County, MD)	Telecom – Dark Fiber	Appraisal Studies	Report	contribution under federal grant.
			Fair Market Value		
Dec. 2004	[CONFIDENTIAL]	Telecom Facility	Determination	Certified Appraisal	Support Refinancing Transaction
Jan 2003	[CONFIDENTIAL]	Telecommunications	Valuation of Assets	Consulting	Bond Purchase
	Hillsborough County				Independent Valuation before Circuit
April 2002	Property Appraiser	Telecommunications	Property Tax Dispute	Certified Appraisal	Court
				Preliminary Valuation	Hearing before the Appellate Tax
May 2002	City of Boston, MA	Telecommunications	Property Tax Dispute	Analysis	Board

# EXHIBIT B LITIGATION RECORD FOR ROBERT E. PENDER

NAME OF UTILITY/DOCKET NOS.	TYPE OF PROCEEDING	DESCRIPTION OF ISSUES	DESCRIPTION OF INVOLVEMENT	YEAR
Metropolitan Government of Nashville and Davidson County v. XO Tennessee, Inc. and TCG Midsouth, Inc.	Claim for non-payment of franchise fees.	Right-of-way costs and user fees.	Preparation of expert reports; direct testimony; and general case support.	2013
Philadelphia Gas Works, Docket No. R- 2009-2139884 before the Pennsylvania Public Utility Commission on behalf of Philadelphia Housing Authority.	Natural gas distribution general rate increase.	Appropriate rate classification; rate subsidy level.	Preparation of direct and surrebuttal testimony; assistance in settlement negotiations and general case support	2010
Vandolah Power Company v. Kathy L. Crawford, et. al., (Hardee County Property Appraiser), Case No. 252006CA000008.	Property tax dispute before the Circuit Court of Hardee County, Florida	Determination of fair market or "just" value by the Property Appraiser.	Preparation of certified appraisal report; direct testimony and general case support.	2008
Moongate Water Company v. City of Las Cruces, NM; Case No. CV-2004-747.	Condemnation proceeding before the New Mexico State District Court, 3 <sup>rd</sup> District.	Determination of claimed damages by Plaintiff.	Direct Testimony; review and analysis of Plaintiff's expert report.	2007
Blake Construction, et. al., v. Upper Occoquan Sewage Authority, Law No. 206595	Contract litigation proceeding before Circuit Court of Fairfax County, Virginia	Value of Wastewater Treatment Facility	Valuation direct testimony and general case support.	2005
Buchanan Generation, LLC; Case No. PST-2003-00066	Property Tax Assessment filing before the State Corporation Commission of Virginia.	Value of generation plant.	Direct testimony and general case support.	2004
Aqua-Ohio Water Company; Case No. 03-2290-WW-AIR	Application for increase in rates before the Public Utilities Commission of Ohio	General cost of service; rate of return; rate design	Direct testimony and general case support.	2004
Nevada Power Company, Docket No.; ER03-T328-000.	Transmission rate filing before the Federal Energy Regulatory Commission.	Rate of return, rate design and various cost of service issues.	Direct testimony and general case support.	2004
Provident Bank v. Blue Mountain Energy	Contractual dispute before Colorado State court.	Fair market value of assets under a lease agreement.	Expert appraisal report, direct testimony and general case support.	2003

# EXHIBIT B LITIGATION RECORD FOR ROBERT E. PENDER

NAME OF UTILITY/DOCKET NOS.	TYPE OF PROCEEDING	DESCRIPTION OF ISSUES	DESCRIPTION OF INVOLVEMENT	YEAR
Florida Power & Light v. W. C. Sherman Case No. 00-CA-301 & 01-CA-338.	Property tax dispute before the Circuit Court of Okeechobee County	Valuation of tangible personal property	Preparation of appraisal report, oral testimony; case support.	2003 – 2006
Consumers Ohio Water Company v. City of Geneva, Ohio	Dispute before Ashtabula County Circuit Court	Fair market value of water system.	Expert appraisal report, direct testimony and general case support.	2002 – 2004
Florida Power & Light v. W. C. Sherman Case No. 99-1025-CA	Property tax dispute before the Circuit Court of Okeechobee County	Valuation of tangible personal property	Preparation of appraisal report, oral testimony; case support.	2001
Florida Power & Light v. W. C. Sherman Case No. 98-1008-CA	Property tax dispute before the Circuit Court of Okeechobee County	Valuation; litigation costs.	Oral testimony; preparation of cost estimate.	2001
Progress Energy Florida v. Town of Belleair, FL	Arbitration Proceeding	Value of Electric Distribution System	Preparation of Appraisal Report, oral testimony and case support	2002 - 2003
First Energy Corporation; Case No. 99-1212-EL-ETP, et. al.	Application for Approval of Electric Transition Plan before the Public Utilities Commission of Ohio	Determination and recovery of Transition Costs; Rate Unbundling; Separation Plan.	Written testimony, issues development and general case support.	2000
Nebraska Public Power District v. MidAmerican Energy Company; No. 4:97 CV 346.	Complaint before the U.S. District Court of Nebraska.	Payment of decommissioning and other costs under Power Supply Contract.	Expert's Report, issue development and general case support.	1999 – 2002
Niagara Mohawk Power Corporation; Village of Lakewood NY, P.S.C. Case No. 99-E-0681	Petition for Declaratory Order before the New York Public Service Commission	Village of Lakewood's Stranded Cost Obligation under Rule 52 of P.S.C. No. 207 Electricity	Preparation of direct and rebuttal testimony; assistance in preparation of various motions, cross- examination of witnesses and briefs.	1999/ 2000

## EXHIBIT B LITIGATION RECORD FOR ROBERT E. PENDER

NAME OF UTILITY/DOCKET NOS.	TYPE OF PROCEEDING	DESCRIPTION OF ISSUES	DESCRIPTION OF INVOLVEMENT	YEAR
City of Las Cruces, NM, Docket No. SC97-2-000.	Stranded Cost Obligation under FERC Order 888.	Determination of Revenue Stream Estimate, Competitive Market Value Estimate and Length of obligation to serve.	Preparation of direct and rebuttal testimony; assistance in preparation of various motions, cross- examination of witnesses and briefs.	1997/ 1998
City of Las Cruces, NM, Case No. 2722.	Hearing s before the New Mexico Public Service Commission; Re: Proposed Rate Stipulation.	Various issues in opposition to rate stipulation.	Analysis of issues; preparation of written direct testimony and other trial support.	1998
El Paso Electric Company, Docket No. 0A96-200-000.	Open-access transmission tariff; rates for transmission and ancillary services.	Various cost of service and rate design issues.	Assistance in preparation of motion to intervene; participation in settlement discussions.	1996/ 1997
Baltimore Gas & Electric Company, Potomac Electric Power Company, Constellation Energy Corporation; Case No. 951.	Merger proceeding before Public Service Commission of the District of Columbia.	Potential impact on ratepayers and competitive issues.	Preparation and filing of direct testimony.	1996
Western Resources, Inc., Kansas Gas & Electric Company; Docket Nos. 193,307- U & 193,306-U.	General rate proceedings before the Kansas Corporation Commission.	Fuel repricing adjustment.	Preparation and filing of direct testimony.	1996
Florida Power & Light, Docket No. ER93-465-000	Wholesale rate filing before FERC	Cost functionalization, income taxes	Preparation and filing of direct testimony	1993/ 1995
Entergy Corp. / Gulf States Utilities Docket Nos. EC92-21-000 and ER92-806-000	Merger filing before the FERC.	Merger savings and competitive impacts.	Analysis and development of issues.	1992
Florida Power Corporation Docket No. ER93-299-000	Wholesale rate filing before the FERC.	Test-year expense levels and cost allocation.	Analysis and development of issues.	1993
North Carolina Municipal Power Agency No. 1, et. al. v. Duke Power Company	6th Proceeding In Arbitration Under the Project Agreements	Return on common equity investment	Analysis of damages, case preparation and settlement discussions.	1993

Note: assignments during the period 1986 through 2004 were performed while employed at R. W. Beck, Inc.

# Exhibit B Litigation Record For Robert E. Pender

NAME OF UTILITY/DOCKET NOS.	TYPE OF PROCEEDING	DESCRIPTION OF ISSUES	DESCRIPTION OF INVOLVEMENT	YEAR
Duke Power Company v. North Carolina Electric Membership Corporation, et. al.	4th Proceeding In Arbitration Under the Project Agreements.	Rate of return determination.	Analysis of damages, assistance in case preparation, including testimony and exhibits.	1986
North Carolina Municipal Power Agency No. 1, et. al. v. Duke Power Company	1st Proceeding in Arbitration Under the Project Agreements	Purchased capacity and supplemental capacity and energy pricing.	Analysis of issues, assistance in preparation of testimony and exhibits and various aspects of settlement discussions.	1 987
Central Power and Light Co. Docket No. 86-721-000	Wholesale rate proceeding before the FERC	Cost allocation and expense levels.	Analysis and preparation of data requests, testimony and exhibits.	1987
Gulf States Utilities Docket No. ER86-558-000	Wholesale rate proceeding before the FERC	Cost allocation and expense levels.	Analysis of issues and preparation of data requests.	1986
ENTEX, Inc.	Rate proceeding before the Texas Public Utilities Commission	Cost allocation and expense levels.	Analysis of issues and assistance in preparation of testimony.	1986
City of Tallahassee, Florida Docket No. 861003EM	Retail rate proceeding before the Florida Public Service Commission.	Various cost of service issues and rate design.	Development of the cost of service study and rate design.	1986
Georgia Power Company Docket No. ER85-659-001	Wholesale rate proceeding before the FERC.	Cost of service and rate design.	Review of testimony and preparation of data requests.	1986
Gulf States Utilities Docket No. 6525	General rate proceeding before the Texas PUC	Various cost of service issues.	Analysis of issues and preparation of data requests.	1986
Public Service Company of Indiana, Inc.	General rate proceedings before the FERC and the IURC.	Various cost of service and rate design issues.	Preparation of cost of service studies, workpapers and exhibits to testimony, data requests and responses to data requests.	1977 to 1985

# **EXHIBIT REP-2**

## CITY OF NIXA, MISSOURI

FINANCIAL STATEMENTS WITH REQUIRED SUPPLEMENTARY INFORMATION AND INDEPENDENT AUDITOR'S REPORT

> FOR THE YEAR ENDED DECEMBER 31, 2014

#### CITY OF NIXA, MISSOURI STATEMENT OF NET POSITION-PROPRIETARY FUNDS DECEMBER 31, 2014

Land         Land         Land         Land           Cash and cash equivalent         S         2,706,145         \$         3,003,634         \$         8,035,749         \$         13,745,528           Utility accounts receivable         10,2468         171,025         966,963         1,240,456           Reimbursement receivable         -         36,937         -         36,937           Prepaid expenses         2,624         3,097         4,888         106,619           Total Corrent Assets         2,941,551         3,214,693         9,850,2292         16,006,477           Noncurrent Assets         2,941,551         3,214,693         9,850,2292         16,006,477           Noncurrent Assets         2,941,551         3,214,693         9,850,2292         16,006,477           Debt service reserve         -         88,485         624,531         713,016           Capital assets         109,743         124,618         58,615         229,276           Total Assets         9,430,607         19,738,111         26,024,412         55,233,130           DEFERED OUTFLOW OF RESOURCES         26,499         -         215,198         253,897           Deferred loss on debt refunding, net         38,699         -	ASSETS	Waterworks	Sewer Fund	Electric Fund	Total
$\begin{array}{c csh and cash equivalent \\ Cash and cash equivalent \\ Citility accounts receivable \\ Rinbursement receivable \\ Rinbursement receivable \\ Restricted assets: \\ Restricted assets: \\ Capial assets: \\ Land Current Assets \\ Debt service reserve \\ Capial assets: \\ Land Structure reserve \\ Restricted assets: \\ Capial assets: \\ Cash and the recumulated depreciation \\ Restricted assets: \\ Capial assets: \\ Restricted Restricted Restricter \\ Restricted Restricted Restricter \\ Restricted Restricted Restricter \\ Restricted Restricter \\ Restricted Restricter \\ Restricted Restricter \\ Restricted Restricted Restricter \\ Restricted Restricted Restricter \\ Restricted Restric$	Current assets:				
Utility accounts receivable         102,468         171,025         966,963         1,240,466           Reimbursment receivable         -         36,937         342,629         36,937           Material and supplies inventory         130,304         -         842,629         972,933           Prepaid expenses         2,634         3,007         4,488         10,619           Total Current Assets         2,241,551         3,214,693         9,850,229         16,006,473           Noncurrent assets:         Restricted assets:         Capital assets:         116,751         149,255         652,677         918,683           Construction in progress         109,743         124,618         58,615         29,2765           Property, plant and equipment         6,489,055         16,523,418         16,214,183         39,226,657           Total Assets         9,430,607         19,738,111         26,064,412         55,233,130           DEFERED OUTFLOW OF RESOURCES         26,863         54,556         1,076,657         1,138,076           Accrued wages         7,000         1,614,412         12,965         30,307           Accrued wages         7,000         1,514,000         100,000         100,000           Corrent liabilities:         240,883	Cash and cash equivalent	\$ 2,706,145	\$ 3.003.634	\$ 8.035.749	\$ 13.745.528
Reimbursement receivable       36,937       -       36,937         Material and supples inventory       130,304       -       842,629       972,2933         Prepaid expenses       2,641       3,007       4,888       106,619         Total Current Assets       2,241,551       3,214,693       9,850,229       16,006,473         Noncurrent assets:       2,241,551       3,214,693       9,850,229       16,006,473         Noncurrent assets:       -       88,485       624,531       713,016         Capital assets:       116,751       149,255       652,677       918,683         Construction in progress       109,743       124,618       \$8,615       29,2976         Property, plant and equipment       6,482,055       16,523,418       16,214,183       39,225,657         Total Assets       9,430,607       19,738,111       26,064,412       55,233,130         DEFERRED OUTFLOW OF RESOURCES       38,699       -       215,198       253,897         LIABULITIES       -       36,649       12,965       30,307         Accrued asles tax       1,414       -       18,529       19,943         Accrued asles tax       1,414       -       18,529       19,943         Cor	Utility accounts receivable	102.468	171.025	966.963	1.240.456
Material and supplies inventory         130,304          842,629         972,933           Prepaid expenses         2,041         3,007         4,888         10,619           Total Current Assets         2,241,551         3,214,693         9,850,229         16,006,473           Noncurrent assets:         Restricted assets:         2,241,551         3,214,693         9,850,229         16,006,473           Debt service reserve         -         88,485         624,531         7113,016         Capital assets:         116,751         149,255         652,677         918,683           Construction in progress         109,743         124,618         \$8,615         292,976         Projectry, Jonat and equipment         (Net of accumulated depreciation)         6,262,562         16,161,060         14,378,360         37,301,982           Total Noncurrent Assets         9,430,607         19,738,111         26,064,412         55,233,130           DEFERRED OUTFLOW OF RESOURCES         23,897         215,198         233,897           Deferred loss on debt refunding, net         38,699         -         215,198         233,897           LIABLITIES         Current liabilities:         4,2769         47,611         205,303,07           Accrued alse tax         1,7918         <	Reimbursement receivable		36,937	-	36,937
Prepaid expenses         2,634         3,097         4,888         10,619           Total Current Assets         2,241,531         3,214,693         9,850,229         16,006,473           Noncurrent Assets:         2,241,551         3,214,693         9,850,229         16,006,473           Noncurrent Assets:         2,841,551         3,214,693         9,850,229         16,006,473           Land         0.0000 reserve         88,485         624,531         713,016           Capital assets:         109,743         124,618         58,615         229,276           Property, plant and equipment         6,489,055         16,523,418         16,214,183         39,226,657           Total Assets         9,430,607         19,738,111         26,064,412         55,233,130           DEFERRED OUTFLOW OF RESOURCES         24,549         -215,198         253,897           Deferred loss on debt refunding, net         38,699         -         215,198         253,897           LIABLITIES         Current Inabilities:         1,414         -         18,529         19,943           Accrued wages         7,000         10,342         12,951         20,664         51,513           Det we within one year:         17,918         12,951         20,644 </td <td>Material and supplies inventory</td> <td>130,304</td> <td>-</td> <td>842.629</td> <td>972,933</td>	Material and supplies inventory	130,304	-	842.629	972,933
Total Current Assets       2,941,551       3,214,693       9,850,229       16,006,473         Noncurrent assets:       Restricted assets: Cash       88,485       624,531       713,016         Capilal assets:       116,751       149,255       652,677       918,683         Construction in progress       109,743       124,618       356,15       292,976         Property, plant and equipment       6,262,562       16,161,060       14,878,360       37,301,982         (Net of accumulated depreciation)       6,262,562       16,523,418       16,214,183       39,226,657         Total Assets       9,430,607       19,738,111       26,064,412       55,233,130         DEFERED OUTFLOW OF RESOURCES       0,489,056       1,076,657       1,138,076         Decound payable       6,863       54,556       1,076,657       1,138,076         Accrued vages       7,000       10,342       12,655       30,307         Accrued vages       1,041       18,529       19,943         Accrued vages       1,000       71,918       12,251       20,644       5,131         Debt de within one year:       2       688       2,154       42,769       47,611         Compasted absences       17,918       12,251	Prepaid expenses	2.634	3.097	4.888	10.619
Noncurrent assets:         Diversion         Diversion <thdiversion< th=""></thdiversion<>	Total Current Assets	2.941.551	3 214 693	9.850.229	16.006.473
Restricted assets: Cash Dobt service reserve         -         88,485         624,531         713,016           Capital assets: Land         116,751         149,255         652,677         918,683           Construction in progress         109,743         124,618         58,615         292,976           Property, plant and equipment (Net of accumulated depreciation)         6,262,562         16,161,060         14,878,360         37,301,982           Total Noncurrent Assets         9,430,607         19,738,111         26,064,412         55,233,130           DEFERED OUTFLOW OF RESOURCES         Defored loss on debt refunding, net         38,699         215,198         253,897           Current liabilities:         Accounts payable         6,863         54,556         1,076,657         1,138,076           Accrued vages         7,000         10,342         12,965         30,307           Accrued vages         7,000         10,342         12,965         30,307           Accrued vages         17,918         12,951         20,644         51,513           Debt de within one year:         Revenue bonds payable         205,000         534,000         71,001           Revenue bonds payable         1,370,000         3,664,000         5,115,000         1,014,000	Noncurrent assets:			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Line busine Debt service reserve         .         88,485         624,531         713,016           Capital assets:         .         .         88,485         624,531         713,016           Capital assets:         .         .         116,751         149,255         652,677         918,683           Construction in progress         .         109,743         124,618         58,615         292,976           Property, plant and equipment         .	Restricted assets: Cash				
Capital assets:       116,751       149,255       652,677       918,683         Construction in progress       109,743       124,618       58,615       292,976         Property, plant and equipment (Net of accumulated depreciation) $6,262,562$ 16,10,000       14,878,360       37,301,982         Total Noncurrent Assets $9,430,607$ 19,738,111       26,064,412       55,233,130         DEFERED OUTFLOW OF RESOURCES $38,699$ $-$ 215,198       253,897         Deferred loss on debt refunding, net $38,699$ $-$ 215,198       253,897         LIABILITIES       Current liabilities: $ 16,766,577$ 1,138,076         Accruad wages $7,000$ 10,342       12,965       30,307         Accruad sates tax $1,414$ $-$ 18,529       19,943         Accruad sates tax $1,414$ $-$ 18,292       19,943         Accruad sates tax $1,214$ $-$ 15,131       Def due within one year:         Revenue bonds payable $205,000$ 534,000       775,000       1,514,000         Capital lease obligation $ 100,000$ $-$ 100,000       100,000         Ca	Deht service reserve	-	88 485	624 531	713.016
Land         116,751         149,255         652,677         918,683           Construction in progress         109,743         124,618         58,615         292,976           Property, plant and equipment (Net of accumulated depreciation)         6,262,562         16,161,060         14,878,360         37,301,982           Total Noncurrent Assets         9,430,607         19,738,111         26,064,412         55,233,130           DEFERRED OUTFLOW OF RESOURCES         0         38,699         -         215,198         253,897           LIABILITIES         Current liabilities:         -         26,663         54,556         1,076,657         1,138,076           Accrued vages         7,000         10,342         12,965         30,307           Accrued sates tax         1,414         -         18,529         19,943           Accrued sates tax         1,414         -         18,529         19,943           Accrued sates tax         1,714         2,965         10,000         100,000           Debt due within one year:         Revenue bonds payable         205,000         534,000         75,000         1,514,000           Capital lease obligation         -         100,000         -         100,000         100,000         100,000	Capital assets:		01,100	•= ., ·	,,
Link         109,743         124,618         58,615         292,976           Property, plant and equipment (Net of accumulated depreciation) $6,262,562$ $16,161,060$ $14,878,360$ $37,301,982$ Total Noncurrent Assets $6,489,056$ $16,523,418$ $16,214,183$ $39,226,657$ Total Assets $9,430,607$ $19,738,111$ $26,064,412$ $55,233,130$ DEFERED OUTFLOW OF RESOURCES $0,430,607$ $19,738,111$ $26,064,412$ $55,233,130$ DEFERED OUTFLOW OF RESOURCES $0,430,607$ $19,738,111$ $26,064,412$ $55,233,897$ LIABILITIES $0,430,607$ $19,738,111$ $26,064,412$ $55,233,897$ LAGCOUNT PLOW OF RESOURCES $0,430,607$ $19,738,111$ $26,064,412$ $55,233,897$ LABILITIES $0,434,212,965$ $30,307$ $30,307$ $30,307$ Accrued interest $2,688$ $2,154$ $42,769$ $47,611$ Compensated absences $17,918$ $12,951$ $20,644$ $51,513$ Debt use within one year: $8xenue bonds payable$ $205,000$ $534,000$	Land	116 751	149 255	652 677	918.683
Definition       10,110       10,100       10,100       10,100         Property, plant and equipment (Net of accumulated depreciation)       6,262,562       16,161,060       14,878,360       37,301,982         Total Noncurrent Assets       6,489,056       16,523,418       16,214,183       39,226,657         Total Assets       9,430,607       19,738,111       26,064,412       55,233,130         DEFERRED OUTFLOW OF RESOURCES       38,699       215,198       253,897         Defored loss on debt refunding, net       38,699       215,198       253,897         LIABILITIES       Current liabilities:       42,055       30,0307         Accrued wages       7,000       10,342       12,965       30,0307         Accrued alse tax       1,414       18,529       19,943         Accrued alses tax       1,414       18,529       19,943         Accrued alse stax       1,414       18,529       19,943         Accrued interest       2,688       2,154       42,769       47,611         Compensated absences       17,918       12,951       20,644       51,513         Dedu withitin on year:       Revenue bonds payable       1,370,000       5,15,000       100,000         Carital lease obligation       -	Construction in progress	109.743	124 618	58 615	292 976
Note of accumulated depreciation)       6,262,562       16,161,060       14,878,360       37,301,982         Total Noncurrent Assets       6,489,056       16,523,418       16,214,183       39,226,657         Total Assets       9,430,607       19,738,111       26,064,412       55,233,130         DEFERRED OUTFLOW OF RESOURCES       0       38,699       215,198       253,897         LIABILITIES       Current liabilities:       Accounts payable       6,863       54,556       1,076,657       1,138,076         Acccurd wages       7,000       10,342       12,965       30,307         Accruct wages       7,000       10,342       12,965       30,307         Accruct alses tax       1,414       18,229       19,943         Accruct alses tax       1,414       18,252       19,943         Compensated absences       17,918       12,951       20,644         Debt due within one year:       205,000       534,000       775,000       1,514,000         Capital lease obligation	Property plant and equipment	107,715	12,,010	00,010	Do ajo no
Total Noncerrent Assets         10,100,000         10,100,000         10,214,183         39,226,657           Total Assets         9,430,607         19,738,111         26,064,412         35,233,130           DEFERRED OUTFLOW OF RESOURCES         9,430,607         19,738,111         26,064,412         55,233,130           DEFERRED OUTFLOW OF RESOURCES         38,699         -         215,198         253,897           LIABILITIES         -         38,699         -         215,198         253,897           Current liabilities:         -         10,342         12,965         30,307           Accrued wages         7,000         10,342         12,965         30,307           Accrued mages         7,000         10,342         12,965         30,307           Accrued mages         7,000         10,342         12,965         30,307           Accrued mages         7,000         10,414         -         18,529         19,943           Accrued hasences         17,918         12,951         20,644         51,513           Debt due within one year:         -         100,000         -         100,000           Capital lease obligation         -         100,000         -         100,000	(Net of accumulated depreciation)	6 262 562	16 161 060	14 878 360	37 301 982
Total Holdenhult Histos         0,00,000         10,02,010         10,02,010         20,220,001           Total Assets         9,430,607         19,738,111         26,064,412         55,233,130           DEFERRED OUTFLOW OF RESOURCES         Deforred loss on debt refunding, net         38,699         -         215,198         253,897           LIABILITIES         Current liabilities:         Accounts payable         6,863         54,556         1,076,657         1,138,076           Accound sales tax         1,414         -         18,529         19,943           Accrued sales tax         1,414         -         18,529         19,943           Accrued sales tax         1,414         -         18,529         19,943           Accrued interest         2,688         2,154         42,769         47,611           Compensated absences         17,918         12,951         20,644         51,513           Debt due within one year:         Revenue bonds payable         240,883         714,003         1,946,564         2,901,450           Noncurrent liabilities         1,370,000         3,664,000         5,115,000         10,149,000         -           Current Liabilities         1,538,475         4,719,000         5,783,437         12,040,912	Total Noneurrent Assets	6 489 056	16 523 418	16 214 183	39 226 657
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Total Noncontent Assets	0,407,030	10,525,410	10,214,105	
DEFERRED OUTFLOW OF RESOURCES           Deferred loss on debt refunding, net $38,699$ . $215,198$ $253,897$ LIABILITIES         Current liabilities:         Accounts payable $6,863$ $54,556$ $1,076,657$ $1,138,076$ Accounds payable $6,863$ $54,556$ $1,076,657$ $1,138,076$ Accound vages $7,000$ $10,342$ $12,965$ $30,307$ Accrued wages $7,000$ $10,342$ $12,965$ $30,307$ Accrued sales tax $1,414$ - $18,529$ $19,943$ Accrued interest $2,688$ $2,154$ $42,769$ $47,611$ Compensated absences $17,918$ $12,951$ $20,644$ $51,513$ Debt due within one year: $Revenue bonds payable         205,000 534,000 715,000 1,514,000           Capital lease obligation          100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,900 $	Total Assets	9,430,607	19,738,111	26,064,412	55,233,130
Defined formed loss on debt refunding, net         38,699         215,198         253,897           LiABILITIES         Current liabilities:                  253,897               253,897               253,897                253,897                253,897             38,699         -         215,198         253,897                  253,897                           30,07	DEFERRED OUTFLOW OF RESOURCES				
LIABILITIES         Current liabilities:         Accounts payable $6,863$ $54,556$ $1,076,657$ $1,138,076$ Accounts payable $6,863$ $54,556$ $1,076,657$ $1,138,076$ Accrued wages $7,000$ $10,342$ $12,965$ $30,307$ Accrued interest $2,688$ $2,154$ $42,769$ $47,611$ Compensated absences $17,918$ $12,951$ $20,644$ $51,513$ Debt due within one year: $-100,000$ $-100,000$ $-100,000$ $-100,000$ Total Current Liabilities $240,883$ $714,003$ $1,946,564$ $2,901,450$ Noncurrent liabilities: $-100,000$ $-100,000$ $-100,5000$ $-10,55,000$ Customer deposits $1,370,000$ $3,664,000$ $5,115,000$ $10,149,000$ Customer deposits $168,475$ $-668,437$ $220,04,912$ Total Noncurrent Liabilities $1,538,475$ $4,719,000$ $5,783,437$ $12,040,912$ Total Noncurrent Liabilities $1,779,358$ $5,433,003$ $7,730,001$ $14,942,362$ DEFERRED INFLOW OF RESOURCES       <	Deferred loss on debt refunding, net	38,699		215,198	253,897
Current liabilities:       6,863       54,556       1,076,657       1,138,076         Accound wages       7,000       10,342       12,965       30,307         Accrued wages       7,000       10,342       12,965       30,307         Accrued sales tax       1,414       -       18,529       19,943         Accrued interest       2,688       2,154       42,769       47,611         Compensated absences       17,918       12,951       20,644       51,513         Debt due within one year:       205,000       534,000       775,000       1,514,000         Capital lease obligation       -       100,000       -       100,000         Total Current Liabilities       240,883       714,003       1,946,564       2,901,450         Noncurrent liabilities:       -       1,055,000       -       1,055,000         Customer deposits       168,475       -       668,437       836,912         Total Noncurrent Liabilities       1,538,475       4,719,000       5,783,437       12,040,912         Total Liabilities       1,779,358       5,433,003       7,730,001       14,942,362         DEFERRED INFLOW OF RESOURCES       -       103,378       -       103,378	LIABILITIES				
Accounts payable $6,863$ $54,556$ $1,076,657$ $1,138,076$ Accound wages $7,000$ $10,342$ $12,965$ $30,307$ Accrued interest $2,688$ $2,154$ $42,769$ $47,611$ Compensated absences $17,918$ $12,951$ $20,644$ $51,513$ Debt due within one year:       Revenue bonds payable $205,000$ $534,000$ $775,000$ $1,514,000$ Capital lease obligation $-100,000$ $-100,000$ $-100,000$ $-100,000$ Total Current Liabilities $240,883$ $714,003$ $1,946,564$ $2,901,450$ Noncurrent liabilities: $1,370,000$ $3,664,000$ $5,115,000$ $10,149,000$ Capital lease obligation $-1,055,000$ $-1,055,000$ $-1,055,000$ $-1,055,000$ Customer deposits $168,475$ $-668,437$ $836,912$ Total Liabilities $1,779,358$ $5,433,003$ $7,730,001$ $14,942,362$ DEFERRED INFLOW OF RESOURCES $103,378$ $-103,378$ $103,378$ Net investment in capital assets $4,957,022$ $10,983,184$ $9,203,558$	Current liabilities:				
Accrued wages       7,000       10,342       12,965       30,307         Accrued sales tax       1,414       -       18,529       19,943         Accrued interest       2,688       2,154       42,769       47,611         Compensated absences       17,918       12,951       20,644       51,513         Debt due within one year:       100,000       -       100,000       -       100,000         Total Current Liabilities       240,883       714,003       1,946,564       2,901,450         Noncurrent liabilities:       240,883       714,003       1,946,564       2,901,450         Revenue bonds payable       1,370,000       3,664,000       5,115,000       10,149,000         Capital lease obligation       -       1,055,000       -       1,055,000         Customer deposits       168,475       -       668,437       836,912         Total Noncurrent Liabilities       1,538,475       4,719,000       5,783,437       12,040,912         Total Liabilities       1,779,358       5,433,003       7,730,001       14,942,362         DEFERRED INFLOW OF RESOURCES       103,378       -       103,378         Net investment in capital assets       4,957,022       10,983,184       9,203,558 <td>Accounts payable</td> <td>6,863</td> <td>54,556</td> <td>1,076,657</td> <td>1,138,076</td>	Accounts payable	6,863	54,556	1,076,657	1,138,076
Accrued sales tax       1,414       -       18,529       19,943         Accrued interest       2,688       2,154       42,769       47,611         Compensated absences       17,918       12,951       20,644       51,513         Debt due within one year:       .       .       .       .       .         Revenue bonds payable       .       .       .       .       .       .         Capital lease obligation       -       . <td< td=""><td>Accrued wages</td><td>7,000</td><td>10,342</td><td>12,965</td><td>30,307</td></td<>	Accrued wages	7,000	10,342	12,965	30,307
Accrued interest       2,688       2,154       42,769       47,611         Compensated absences       17,918       12,951       20,644       51,513         Debt due within one year:       205,000       534,000       775,000       1,514,000         Capital lease obligation $-100,000$ $-100,000$ $-100,000$ Total Current Liabilities       240,883       714,003       1,946,564       2,901,450         Noncurrent liabilities:       240,883       714,003       1,946,564       2,901,450         Noncurrent liabilities:       1,370,000       3,664,000       5,115,000       10,149,000         Capital lease obligation $-1,055,000$ $-1,055,000$ $-1,055,000$ $-1,055,000$ Customer deposits       1,538,475 $-668,437$ 836,912         Total Noncurrent Liabilities $1,779,358$ $5,433,003$ $7,730,001$ $14,942,362$ DEFERRED INFLOW OF RESOURCES $1,779,358$ $5,433,003$ $7,730,001$ $14,942,362$ Net investment in capital assets $4,957,022$ $10,983,184$ $9,203,558$ $25,143,764$ Restricted for revenue bond retirement $-$ 88,485 $624,019$ $712,504$ Unrestri	Accrued sales tax	1,414	-	18,529	19,943
Compensated absences       17,918       12,951       20,644       51,513         Debt due within one year:       205,000       534,000       775,000       1,514,000         Capital lease obligation       -       100,000       -       100,000         Total Current Liabilities:       240,883       714,003       1,946,564       2,901,450         Noncurrent liabilities:       -       1,055,000       5,115,000       10,149,000         Capital lease obligation       -       1,055,000       -       1,055,000         Customer deposits       -       168,475       -       668,437       836,912         Total Noncurrent Liabilities       1,538,475       4,719,000       5,783,437       12,040,912         Total Liabilities       1,779,358       5,433,003       7,730,001       14,942,362         DEFERRED INFLOW OF RESOURCES       -       103,378       -       103,378         Deferred gain on debt refunding, net       -       103,378       -       103,378         Net investment in capital assets       4,957,022       10,983,184       9,203,558       25,143,764         Restricted for revenue bond retirement       -       88,485       624,019       712,504         Unrestricted       2,732,	Accrued interest	2,688	2,154	42,769	47,611
Debt due within one year: $205,000$ $534,000$ $775,000$ $1,514,000$ Capital lease obligation $ 100,000$ $ 100,000$ Total Current Liabilities $240,883$ $714,003$ $1.946,564$ $2,901,450$ Noncurrent liabilities: $240,883$ $714,003$ $1.946,564$ $2,901,450$ Noncurrent liabilities: $1,370,000$ $3,664,000$ $5,115,000$ $10,149,000$ Capital lease obligation $ 1,055,000$ $ 1,055,000$ Customer deposits $168,475$ $ 668,437$ $836,912$ Total Noncurrent Liabilities $1,538,475$ $4,719,000$ $5,783,437$ $12,040,912$ Total Liabilities $1,779,358$ $5,433,003$ $7,730,001$ $14,942,362$ DEFERRED INFLOW OF RESOURCES         Deferred gain on debt refunding, net $ 103,378$ $ 103,378$ Net investment in capital assets $4,957,022$ $10,983,184$ $9,203,558$ $25,143,764$ Restricted for revenue bond retirement $ 88,485$ $624,019$ $712,504$	Compensated absences	17,918	12,951	20,644	51,513
Revenue bonds payable $205,000$ $534,000$ $775,000$ $1,514,000$ Capital lease obligation- $100,000$ - $100,000$ Total Current Liabilities $240,883$ $714,003$ $1,946,564$ $2,901,450$ Noncurrent liabilities: $240,883$ $714,003$ $1,946,564$ $2,901,450$ Revenue bonds payable $1,370,000$ $3,664,000$ $5,115,000$ $10,149,000$ Capital lease obligation- $1,055,000$ - $1,055,000$ Customer deposits $168,475$ - $668,437$ $836,912$ Total Noncurrent Liabilities $1,538,475$ $4,719,000$ $5,783,437$ $12,040,912$ Total Liabilities $1,779,358$ $5,433,003$ $7,730,001$ $14,942,362$ DEFERRED INFLOW OF RESOURCESDeferred gain on debt refunding, net- $103,378$ - $103,378$ Net investment in capital assets4,957,022 $10,983,184$ $9,203,558$ $25,143,764$ Restricted for revenue bond retirement- $88,485$ $624,019$ $712,504$ Unrestricted $2,732,926$ $3,130,061$ $8,722,032$ $14,585,019$ Total Net Position\$ $7,689,948$ \$ $14,201,730$ \$ $18,549,609$ \$ $40,441,287$	Debt due within one year:				
Capital lease obligation       -       100,000       -       100,000         Total Current Liabilities       240,883       714,003       1,946,564       2,901,450         Noncurrent liabilities:       1,370,000       3,664,000       5,115,000       10,149,000         Capital lease obligation       -       1,055,000       -       1,055,000         Customer deposits       168,475       -       668,437       836,912         Total Noncurrent Liabilities       1,538,475       4,719,000       5,783,437       12,040,912         Total Liabilities       1,779,358       5,433,003       7,730,001       14,942,362         DEFERRED INFLOW OF RESOURCES       -       103,378       -       103,378         NET POSITION       -       88,485       624,019       712,504         Unrestricted for revenue bond retirement       -       88,485       624,019       712,504         Unrestricted       2,732,926       3,130,061       8,722,032       14,585,019         Total Net Position       \$       7,689,948       \$ 14,201,730       \$ 18,549,609       \$ 40,441,287	Revenue bonds payable	205,000	534,000	775,000	1,514,000
Total Current Liabilities $240,883$ $714,003$ $1,946,564$ $2,901,450$ Noncurrent liabilities: Revenue bonds payable $1,370,000$ $3,664,000$ $5,115,000$ $10,149,000$ Capital lease obligation- $1,055,000$ - $1,055,000$ Customer deposits $168,475$ - $668,437$ $836,912$ Total Noncurrent Liabilities $1,538,475$ $4,719,000$ $5,783,437$ $12,040,912$ Total Liabilities $1,779,358$ $5,433,003$ $7,730,001$ $14,942,362$ DEFERRED INFLOW OF RESOURCES Deferred gain on debt refunding, net- $103,378$ - $103,378$ NET POSITION Net investment in capital assets $4,957,022$ $10,983,184$ $9,203,558$ $25,143,764$ Restricted for revenue bond retirement- $88,485$ $624,019$ $712,504$ Unrestricted $2,732,926$ $3,130,061$ $8,722,032$ $14,585,019$ Total Net Position\$ $7,689,948$ \$ 14,201,730\$ 18,549,609\$ 40,441,287	Capital lease obligation		100,000		100,000
Noncurrent liabilities:       1,370,000       3,664,000       5,115,000       10,149,000         Capital lease obligation       -       1,055,000       -       1,055,000         Customer deposits       168,475       -       668,437       836,912         Total Noncurrent Liabilities       1,538,475       4,719,000       5,783,437       12,040,912         Total Liabilities       1,779,358       5,433,003       7,730,001       14,942,362         DEFERRED INFLOW OF RESOURCES       103,378       -       103,378         Deferred gain on debt refunding, net       -       103,378       -       103,378         NET POSITION       4,957,022       10,983,184       9,203,558       25,143,764         Restricted for revenue bond retirement       -       88,485       624,019       712,504         Unrestricted       2,732,926       3,130,061       8,722,032       14,585,019         Total Net Position       \$       7,689,948       \$ 14,201,730       \$ 18,549,609       \$ 40,441,287	Total Current Liabilities	240,883	714,003	1,946,564	2,901,450
Revenue bonds payable $1,370,000$ $3,664,000$ $5,115,000$ $10,149,000$ Capital lease obligation $ 1,055,000$ $ 1,055,000$ Customer deposits $168,475$ $ 668,437$ $836,912$ Total Noncurrent Liabilities $1,538,475$ $4,719,000$ $5,783,437$ $12,040,912$ Total Liabilities $1,779,358$ $5,433,003$ $7,730,001$ $14,942,362$ DEFERRED INFLOW OF RESOURCESDeferred gain on debt refunding, net $ 103,378$ $ 103,378$ NET POSITIONNet investment in capital assets $4,957,022$ $10,983,184$ $9,203,558$ $25,143,764$ Restricted for revenue bond retirement $ 88,485$ $624,019$ $712,504$ Unrestricted $2,732,926$ $3,130,061$ $8,722,032$ $14,585,019$ Total Net Position $$$ $7,689,948$ $$14,201,730$ $$18,549,609$ $$40,441,287$	Noncurrent liabilities:				
Capital lease obligation       - $1,055,000$ - $1,055,000$ Customer deposits       168,475       -       668,437       836,912         Total Noncurrent Liabilities $1,538,475$ $4,719,000$ $5,783,437$ $12,040,912$ Total Liabilities $1,779,358$ $5,433,003$ $7,730,001$ $14,942,362$ DEFERRED INFLOW OF RESOURCES       Deferred gain on debt refunding, net       - $103,378$ - $103,378$ NET POSITION       Net investment in capital assets $4,957,022$ $10,983,184$ $9,203,558$ $25,143,764$ Net investment in capital assets $4,957,022$ $10,983,184$ $9,203,558$ $25,143,764$ Unrestricted for revenue bond retirement       - $88,485$ $624,019$ $712,504$ Unrestricted $2,732,926$ $3,130,061$ $8,722,032$ $14,585,019$ Total Net Position       \$ $7,689,948$ $$14,201,730$ \$ $18,549,609$ \$ $40,441,287$	Revenue bonds payable	1,370,000	3,664,000	5,115,000	10,149,000
Customer deposits $168,475$ $ 668,437$ $836,912$ Total Noncurrent Liabilities $1,538,475$ $4,719,000$ $5,783,437$ $12,040,912$ Total Liabilities $1,779,358$ $5,433,003$ $7,730,001$ $14,942,362$ DEFERRED INFLOW OF RESOURCES $0.967,022$ $103,378$ $0.923,558$ $25,143,764$ NET POSITION $0.983,184$ $9,203,558$ $25,143,764$ Net investment in capital assets $4,957,022$ $10,983,184$ $9,203,558$ $25,143,764$ Unrestricted for revenue bond retirement $ 88,485$ $624,019$ $712,504$ Unrestricted $2,732,926$ $3,130,061$ $8,722,032$ $14,585,019$ Total Net Position $\$$ $7,689,948$ $$14,201,730$ $$18,549,609$ $$40,441,287$	Capital lease obligation	-	1,055,000	-	1,055,000
Total Noncurrent Liabilities       1,538,475       4,719,000       5,783,437       12,040,912         Total Liabilities       1,779,358       5,433,003       7,730,001       14,942,362         DEFERRED INFLOW OF RESOURCES	Customer deposits	168,475		668,437	836,912
Total Liabilities         1,779,358         5,433,003         7,730,001         14,942,362           DEFERRED INFLOW OF RESOURCES Deferred gain on debt refunding, net         -         103,378         -         103,378           NET POSITION Net investment in capital assets         4,957,022         10,983,184         9,203,558         25,143,764           Restricted for revenue bond retirement         -         88,485         624,019         712,504           Unrestricted Total Net Position         \$         7,689,948         \$ 14,201,730         \$ 18,549,609         \$ 40,441,287	Total Noncurrent Liabilities	1,538,475	4,719,000	5,783,437	12,040,912
DEFERRED INFLOW OF RESOURCES Deferred gain on debt refunding, net         103,378         103,378           NET POSITION Net investment in capital assets         4,957,022         10,983,184         9,203,558         25,143,764           Restricted for revenue bond retirement         -         88,485         624,019         712,504           Unrestricted Total Net Position         \$ 7,689,948         \$ 14,201,730         \$ 18,549,609         \$ 40,441,287	Total Liabilities	1,779,358	5,433,003	7,730,001	14,942,362
DEFERRED INFLOW OF RESOURCES           Deferred gain on debt refunding, net         -         103,378         -         103,378           NET POSITION         .         10,983,184         9,203,558         25,143,764           Restricted for revenue bond retirement         -         88,485         624,019         712,504           Unrestricted         2,732,926         3,130,061         8,722,032         14,585,019           Total Net Position         \$         7,689,948         \$ 14,201,730         \$ 18,549,609         \$ 40,441,287					
Deferred gain on debt refunding, net         -         103,378         -         103,378           NET POSITION         -         103,378         -         103,378         -         103,378           NET POSITION         -         10,983,184         9,203,558         25,143,764           Restricted for revenue bond retirement         -         88,485         624,019         712,504           Unrestricted         2,732,926         3,130,061         8,722,032         14,585,019           Total Net Position         \$         7,689,948         \$ 14,201,730         \$ 18,549,609         \$ 40,441,287	DEFERRED INFLOW OF RESOURCES				
NET POSITION         4,957,022         10,983,184         9,203,558         25,143,764           Net investment in capital assets         -         88,485         624,019         712,504           Unrestricted         2,732,926         3,130,061         8,722,032         14,585,019           Total Net Position         \$         7,689,948         \$ 14,201,730         \$ 18,549,609         \$ 40,441,287	Deferred gain on debt refunding, net		103,378		103,378
Net investment in capital assets         4,957,022         10,983,184         9,203,558         25,143,764           Restricted for revenue bond retirement         -         88,485         624,019         712,504           Unrestricted         2,732,926         3,130,061         8,722,032         14,585,019           Total Net Position         \$         7,689,948         \$ 14,201,730         \$ 18,549,609         \$ 40,441,287	NET POSITION				
Restricted for revenue bond retirement         -         88,485         624,019         712,504           Unrestricted         2,732,926         3,130,061         8,722,032         14,585,019           Total Net Position         \$         7,689,948         \$         14,201,730         \$         18,549,609         \$         40,441,287	Net investment in capital assets	4,957,022	10,983,184	9,203,558	25,143,764
Unrestricted         2,732,926         3,130,061         8,722,032         14,585,019           Total Net Position         \$ 7,689,948         \$ 14,201,730         \$ 18,549,609         \$ 40,441,287	Restricted for revenue bond retirement	-	88,485	624,019	712,504
Total Net Position \$ 7,689,948 \$ 14,201,730 \$ 18,549,609 \$ 40,441,287	Unrestricted	2,732.926	3,130.061	8,722.032	14,585.019
	Total Net Position	\$ 7,689,948	\$ 14,201,730	\$ 18,549,609	\$ 40,441,287

The accompanying notes are an integral part of these financial statements. 18

#### South Central Municipal - Cooperative Network, LLC

#### Original Cost Less Depreciation for Certain Transmission Facilities Owned by the City of Nixa, MO <u>Estimated as of June 30, 2015</u> (Dollars in Thousands)

			Year	Total	Total	Reverse Tr	end Factors	Estimated	Estimat	ed		Add:	
Line		Length (Mi.)	Placed In	EPC *	Replacement	to	1/1/15 to	Original Cost	Accumulated De	epreciation	Sub-total	Land and	Total
No.	Line Description	No. (Units)	Service	Cost	Cost	1/1/15	6/30/15	as of 6/30/15	Percent	Percent Total		Land Rights	OCLD
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)	(m)
	Transmission Lines												
1	James River Plant to Northeast Substation - 161 kV	3.92	2006 💲	3,525	\$ 4,054	1.1298	1.0104	\$ 3,551	23.40% \$	831	\$ 2,720		
2	Northeast Substation to Tracker Substation - 69 kV	2.31	2006	1,290	1,484	1.1298	1.0104	1,300	23.40%	304	996		
3	Tracker Sustation to Downtown Substation - 69 kV	1.80	2000	996	1,146	1.5672	1.0104	724	39.00%	282	441		
4	Downtown Substation to ESPY Substation - 69 kV	1.24	1984	678	779	2.5952	1.0104	297	80.60%	240	58		
5	ESPY Substation to SWPA Nixa Substation - 69 kV	1.55	2012	866	996	1.0425	1.0104	945	7.80%	74	872		
6	Total Transmission Lines	10.82		7,355	8,459			6,818	·	1,731	5,087	-	
	Substation Equipment												
7	Tracker Substation	2	2006	1,113	1,280	1.4240	1.0104	890	19.80%	176	714		
8	Northeast Substation	3	2006	1,441	1,657	1.4240	1.0104	1,152	19.80%	228	924		
9	ESPY Substation	2	2012	1,231	1,415	1.0571	1.0104	1,325	6.60%	87	1,238		
10	Downtown Substation	2	2013	1,056	1,214	1.0426	1.0104	1,152	4.40%	51	1,102		
11	Total Substation Equipment	9		4,840	5,566			4,519		542	3,977	-	
12	Materials & Supplies Inventory	1	2015	15	15	N/A	N/A	15		N/A	15		
13	Total Property, Plant & Equipment		\$	12,211	\$ 14,040			\$ 11,336	\$	2,273	\$ 9,063	\$ 52	\$ 9,115
	* Engineering, Procurement and Construction.							Depreciation Pe	ercent>	20.1%	,		

(Footnotes shown on page 2.)

#### South Central Municipal - Cooperative Network, LLC

#### Original Cost Less Depreciation for Certain Transmission Facilities Owned by the City of Nixa, MO <u>Estimated as of June 30, 2015</u> (Dollars in Thousands)

#### Footnotes by column:

(a) - (d) Based on information provided by Quanta Technology for Grid Capital.

(e) Column (d) increased by 15% to account for capitalized owners costs (e.g., AFUDC/IDC, project planning, insurance, etc.)

(f) Handy-Whitman Index of Public Utility Construction Costs, Bulletin No. 180, E-3 North Central Region, as of January 1, 2015. Transmission Lines are based on a weighted average of FERC Account 355 - Poles and Fixtures (50%) and FERC Account 356 - Conductor and Devices (50%); based on Electric Plant In Service data contained in the Empire District Electric Company 2014 FERC Form 1 Annual Report.

	H-W Inc	dex Acct. 355	(50%)	H-W Inde	Weighted		
		Vintage	Trend		Vintage	Trend	Trend
Transmission Lines - Vintage Year	1/1/2015	Year	Factor	1/1/2015	Year	Factor	Factor
1984	599	234	2.5598	705	268	2.6306	2.5952
2000	599	407	1.4717	705	424	1.6627	1.5672
2006	599	515	1.1631	705	643	1.0964	1.1298
2012	599	591	1.0135	705	658	1.0714	1.0425
	H-W Index	Acct. 353					
		Vintage	Trend				
Substation Equipment - Vintage Year	1/1/2015	Year	Factor				
2006	759	533	1.4240				
2012	759	718	1.0571				
2013	759	728	1.0426				

(g) Based on Engineering News Record Historical Construction Cost Index - U.S. Historical Average.

Month Ending:	
December 2014	9936
June 2015	10039
Trend Factor	1.0104

(h) Column (e) / column (f) / column (g).

(i) Based on the age of the plant and assumed depreciation rate of 2.60% for Transmission Lines and 2.20% for Substation Equipment -- derived from depreciation rate data contained in the Empire District Electric Company 2014 FERC Form 1 Annual Report (Empire District Electric Company).

(j) Column (h) x column (i).

(k) Column (h) - column (j).

(I) Estimated value provided by the City of Nixa.

(m) Column (k) - column (l).

# **EXHIBIT REP-4**

E-3

#### COST TRENDS OF ELECTRIC UTILITY CONSTRUCTION

							C	OST I	NDEX	K NUN	ABER	RS				
L		F	1	1	1	1	1	1	1	1	1	1	1	1	1	1
i	CONSTRUCTION AND EQUIPMENT	E	9	9	9	9	9	9	9	9	9	9	9	9	9	9
e		к С	8	8	8	8	8	8	8	8	9	9	2	3	4	5
1	Total Plant-All Steam Generation	C	229	235	241	246	249	254	272	284	293	297	302	311	324	336
2	Total Plant-All Steam & Nuclear Gen.		228	235	241	246	249	254	272	284	293	296	301	310	323	335
3	Total Plant-All Steam & Hydro Gen.		227	234	241	246	249	254	272	284	292	296	301	310	323	335
4	Steam Production Plant															
6	Total Steam Production Plant		231	239	248	255	259	266	283	294	303	306	312	323	337	348
7	Structures & Improvements-Indoor	311	204	212	221	228	234	240	251	261	264	264	270	281	295	304
8	Structures & Improvements-Semi-Outdoor	311	200	205	218	227	233	241	252	260	262	254	256	270	287	297
10	Boiler Plant Equipment-Gas Fired	312	-	- 248	-	-	- 270	- 280	- 297	- 509	-	- 550	-	- 547	-	- 509
11	Boiler Plant Piping Installed		229	226	230	234	237	249	272	280	281	285	288	293	301	311
12	Turbogenerator Units	314	234	247	255	258	257	263	280	289	295	300	305	315	331	343
13	Accessory Electrical Equipment	315	243	251	247	249	254	256	288	302	312	318	330	341	351	368
14	Misc. Power Plant Equipment	510	255	240	233	207	212	280	295	303	514	519	520	220	550	300
16	Nuclear Production Plant															
17	Total Nuclear Production Plant		223	231	237	242	245	254	268	279	285	289	295	304	317	327
18	Structures & Improvements	321	203	210	217	222	225	232	240	246	251	253	260	271	285	292
20	Reactor Frant Equipment	322	223	231	231	242	240	230	212	265	292	290	501	309	510	329
21	Hydro Production Plant															
22	Total Hydraulic Production Plant		214	222	230	237	242	249	260	266	270	272	276	287	298	307
23	Structures & Improvements Reservoirs, Dams & Waterways	331	204	212	221	228	234	240	251	261	264	264	270	281	295	304
24	Water Wheels, Turbines & Generators	333	202	209	266	272	273	278	243	310	317	329	329	337	346	356
26																
27	Other Production Plant		220	225	220	241	245	264	200	222	2.41	246	254	250	251	255
28	Total Other Production Plant Fuel Holders, Producers & Accessories	342	229	235	238	241	245	264	309	333	341	346	354	359	351	355
30	Gas Turbogenerators	344	230	236	239	242	246	267	315	341	348	354	362	366	355	359
31	e															
32	Transmission Plant		221	227	220	2.42	246	240	275	200	200	200	200	210	225	251
33 34	Station Equipment	353	231	237	239 241	243 245	240 247	249 255	275	289	299	300	310	321	337	351
35	Towers & Fixtures	354	208	214	227	236	243	255	261	262	271	265	269	281	298	309
36	Poles & Fixtures	355	223	228	234	237	243	247	267	286	298	318	335	342	363	376
37	Overhead Conductors & Devices	356	259	279	268	267	270	259	344	354	356	366	344	355	370	404
38 39	Underground Conductors & Devices	357	210	217	223	227	251	238	252 284	203	265	205 403	269 412	276 416	280 420	293 431
40	Challeforma Conductors & Devices	550	250	200	217	212	207	2/1	201	507	500	105	112	110	120	101
41	Distribution Plant															
42	Total Distribution Plant	262	224	229	232	235	238	240	255	268	276	280	283	289	298	309
43 44	Station Equipment Poles Towers & Fixtures	362 364	234	236	235	239	242 245	250 248	275	299	320 275	322 286	322 301	325 310	330	333 344
45	Overhead Conductors & Devices	365	220	244	246	247	249	248	293	304	306	313	305	316	330	355
46	Underground Conduit	366	197	210	218	221	225	232	249	269	268	262	264	271	284	292
47	Underground Conductors & Devices	367	211	213	212	218	229	234	239	255	266	272	275	278	281	293
48 49	Line Transformers Pad Mounted Transformers	368 368	207	210 188	212	214 207	215	214 238	216	225	228	228	232	233	238	234
50	Services-Overhead	369	205	210	203	223	225	231	250	264	265	267	266	273	284	299
51	Services-Underground	369	181	199	203	187	181	194	208	224	227	218	216	216	225	233
52	Meters Installed	370	190	203	204	206	211	211	198	188	189	203	202	205	195	192
53 54	Street Lighting-Overhead Mast Arms & Luminaires Installed	373	261	262 268	273	283	283	2/1 280	2/4	284	292	302 318	313 331	326 340	342 360	358 373
55	Street Lighting-Underground	373	265	265	275	285	287	273	276	284	293	302	312	326	340	356
56																

			COST INDEX NUMBERS												
			2001 2002 2003 2004												
L		F	1	1	1	1	2								
i		E	9	9	9	9	0	Jan.	Jul.	Jan.	Jul.	Jan.	Jul.	Jan.	Jul.
n	CONSTRUCTION AND EQUIPMENT	R	9	9	9	9	0	1	1	1	1	1	1	1	1
e		C	6	7	8	9	Ő								
1	Total Plant-All Steam Generation		342	349	356	361	375	381	390	395	402	411	410	418	43
2	Total Plant-All Steam & Nuclear Gen.		341	348	355	360	374	380	389	393	401	409	409	417	43
3	Total Plant-All Steam & Hydro Gen.		341	348	355	360	374	380	389	393	401	409	409	417	43
4															
5	Steam Production Plant														
6	Total Steam Production Plant		357	365	372	380	398	404	414	417	428	438	436	446	45
7	Structures & Improvements-Indoor	311	311	318	324	334	351	357	371	371	383	389	386	398	41
8	Structures & Improvements-Semi-Outdoor	311	308	315	321	330	345	348	358	360	364	369	369	396	40
9	Boiler Plant Equipment-Coal Fired	312	377	385	393	401	419	426	440	442	453	458	454	459	47
10	Boiler Plant Equipment-Gas Fired	312	-		-	-	-	-	-	-	-	-	-	-	-
11	Boiler Plant Piping Installed		318	325	331	336	345	350	359	360	367	373	370	381	39
12	Turbogenerator Units	314	349	361	367	3/3	391	396	394	400	410	433	434	438	44
13	Accessory Electrical Equipment	216	272	202	202	408	433	440	403	4/2	495	303	304 452	313	32
14	wise. Fower Flait Equipment	510	512	303	392	404	422	427	439	441	432	437	455	405	4/
16	Nuclear Production Plant														
17	Total Nuclear Production Plant		333	342	348	354	369	374	382	386	395	404	405	410	42
18	Structures & Improvements	321	300	309	313	321	335	338	353	354	364	370	367	378	38
19	Reactor Plant Equipment	322	334	340	346	351	364	368	376	379	387	391	393	396	41
20															
21	Hydro Production Plant														
22	Total Hydraulic Production Plant		315	324	330	337	348	350	356	357	363	367	368	382	38
23	Structures & Improvements	331	311	318	324	334	351	357	371	371	383	389	386	398	41
24	Reservoirs, Dams & Waterways	332	295	303	309	318	327	328	338	337	346	348	348	364	37
25	Water Wheels, Turbines & Generators	333	363	375	381	385	394	398	385	395	390	396	402	410	39
26															
27	Other Production Plant														
28	Total Other Production Plant		368	373	385	399	429	441	412	417	429	436	439	430	43
29	Fuel Holders, Producers & Accessories	342	334	343	353	359	369	373	382	383	392	397	397	402	42
30 21	Gas Turbogenerators	344	372	3//	389	404	401	402	413	418	430	437	439	428	43
22	Transmission Blant														
32	Total Transmission Plant		357	364	373	370	388	306	406	410	413	418	417	427	45
34	Station Equipment	353	352	357	367	373	394	401	414	417	423	428	424	427	46
35	Towers & Fixtures	354	320	328	337	346	361	366	372	381	382	389	390	417	42
36	Poles & Fixtures	355	392	406	410	403	407	412	427	432	436	442	444	453	45
37	Overhead Conductors & Devices	356	410	415	428	393	424	438	448	451	442	447	448	455	48
38	Underground Conduit	357	299	306	317	326	334	338	350	354	367	377	376	388	40
39	Underground Conductors & Devices	358	437	442	445	453	454	464	447	451	460	467	469	473	52
40															
41	Distribution Plant														
42	Total Distribution Plant		313	318	325	326	334	339	346	352	359	367	369	373	39
43	Station Equipment	362	353	359	373	377	380	383	387	388	383	387	386	391	44
44	Poles, Towers & Fixtures	364	354	364	368	372	380	384	395	399	411	419	423	425	43
45	Overhead Conductors & Devices	365	363	370	380	370	393	404	416	422	427	439	442	449	46
46	Underground Conduit	366	298	306	315	325	338	342	352	356	374	383	380	393	39
4/	Ling Transformers	269	300	203	308	314	322	330	219	324	329	249	333	244	30
4ð 40	Enc Transformers Pad Mounted Transformers	308	230	221	223	325	228	230	25/	241	247	248	255	244	20
49 50	services_Overhead	360	302	306	323	315	326	320	330	331	302	359	359	30/	43
50	Services-Underground	360	222	226	222	221	242	247	216	244	260	264	264	269	21
52	Meters Installed	370	106	230	232	200	243	247	240	249	200	204	204	310	20
52	Street Lighting-Overhead	373	377	387	380	394	402	407	416	423	442	467	471	474	48
54	Mast Arms & Luminaires Installed	373	398	408	405	406	412	417	421	427	433	438	444	447	45
55	Street Lighting-Underground	373	374	384	388	394	404	409	419	426	450	481	484	488	49
		5.5	271	201	500	- / 1		,		0					

			COST INDEX NUMBERS											
			20	05	20	06	20	07	20	08	20	09	20	10
L		F												
i	CONSTRUCTION AND FOUIPMENT	Е	Jan.	Jul.	Jan.	Jul.	Jan.	Jul.	Jan.	Jul.	Jan.	Jul.	Jan.	Jul.
n	construction and Equilibrium	R	1	1	1	1	1	1	1	1	1	1	1	1
e		С												
1	Total Plant-All Steam Generation		453	460	481	495	518	529	561	580	585	564	579	587
2	Total Plant-All Steam & Nuclear Gen.		452	459	480	494	517	527	559	578	583	561	577	585
4	Total Thant-An Steam & Hydro Och.		452	439	479	495	510	521	559	578	565	501	511	585
5	Steam Production Plant													
6	Total Steam Production Plant		477	481	495	503	520	531	547	576	570	554	566	577
7	Structures & Improvements-Indoor	311	435	438	451	458	474	482	501	530	532	518	528	535
8	Structures & Improvements-Semi-Outdoor Boiler Plant Equipment Coal Fired	311	418	425	438	445 521	457	483	501	585	501	490 577	495	498
10	Boiler Plant Equipment-Gas Fired	312		+22	-	-	-	-	-	-	-	-	-	-
11	Boiler Plant Piping Installed		439	443	460	465	477	475	491	530	545	529	538	550
12	Turbogenerator Units	314	464	461	471	483	499	501	513	559	514	489	502	525
13	Accessory Electrical Equipment	315	562	572	596	616	661	682	719	744	774	793	812	828
14	Misc. Power Plant Equipment	316	511	513	531	538	540	544	555	593	595	587	597	603
16	Nuclear Production Plant													
17	Total Nuclear Production Plant		447	449	462	471	486	489	502	530	521	510	521	532
18	Structures & Improvements	321	406	410	420	427	438	433	447	462	462	455	461	466
19	Reactor Plant Equipment	322	439	441	455	463	476	480	489	518	512	502	513	521
20	Hudro Droduction Diant													
21	Total Hydraulic Production Plant		397	400	410	417	432	442	454	471	469	461	467	475
23	Structures & Improvements	331	435	438	451	458	474	482	501	530	532	518	528	535
24	Reservoirs, Dams & Waterways	332	384	388	399	404	417	428	439	446	447	441	445	449
25	Water Wheels, Turbines & Generators	333	399	397	406	416	436	444	455	493	481	469	478	496
26	Other Developed an Direct													
27	Total Other Production Plant		428	435	445	456	516	529	582	603	620	655	675	688
29	Fuel Holders, Producers & Accessories	342	454	460	469	478	494	497	512	548	554	537	541	540
30	Gas Turbogenerators	344	420	427	435	447	511	524	581	602	619	659	680	693
31														
32	Transmission Plant		471	105	510	529	552	560	602	621	640	501	617	610
33 34	Station Equipment	353	471	485	512	533	555	583	604	627	640 640	641	658	665
35	Towers & Fixtures	354	436	439	454	457	468	494	513	515	523	500	506	506
36	Poles & Fixtures	355	476	493	502	515	526	529	561	570	583	587	596	574
37	Overhead Conductors & Devices	356	511	542	605	643	678	695	753	828	831	580	669	677
38	Underground Conduit	357	436	436	454	458	477	472	494	527	536	519	520	526
39 40	Underground Conductors & Devices	338	529	547	590	594	605	610	/90	828	829	840	830	828
41	Distribution Plant													
42	Total Distribution Plant		408	417	446	466	499	507	563	562	581	567	583	591
43	Station Equipment	362	457	464	492	503	537	555	573	595	606	608	629	637
44	Poles, Towers & Fixtures	364	453	457	470	480	496	497	511	525	537	538	547	545
45 46	Overhead Conductors & Devices	365	489	512	555	579	609 471	624 468	670	715	725	612 507	666 501	679 504
40	Underground Conductors & Devices	367	382	393	449	428	507	514	554	586	647	639	593	600
48	Line Transformers	368	275	283	320	361	408	416	602	506	532	555	581	606
49	Pad Mounted Transformers	368	492	541	562	653	689	820	642	759	728	665	668	646
50	Services-Overhead	369	395	402	428	428	451	452	475	485	491	457	477	484
51	Services-Underground Motors Installed	369	279	292	335	372	356	352	349	350	325	327	328	350
52 53	Street Lighting-Overhead	373	300 499	500	510	510 594	617	520 627	530 641	672	554 738	554 751	540 771	54/ 710
54	Mast Arms & Luminaires Installed	373	482	496	524	555	574	585	576	587	709	705	714	728
55	Street Lighting-Underground	373	510	517	535	615	640	651	671	708	766	784	809	735
56														

# **E-3**

#### COST TRENDS OF ELECTRIC UTILITY CONSTRUC

			COST INDEX NUMBERS													
			20	11	201	2	20	13	20	14	20	15	20	16	20	17
т		Б				-								-	-	
i		г F	Jan.	Jul.	Jan.	Jul.	Jan.	Jul.	Jan.	Jul.	Jan.	Jul.	Jan.	Jul.	Jan.	Jul.
n	CONSTRUCTION AND EQUIPMENT	R	1	1	1	1	1	1	1	1	1	1	1	1	1	1
e		C														
1	Total Plant-All Steam Generation		599	616	622	628	650	641	648	657	668					
2	Total Plant-All Steam & Nuclear Gen.		597	614	620	626	648	639	646	655	666					
3	Total Plant-All Steam & Hydro Gen.		597	613	620	625	647	639	645	654	666					
4	Steam Deaduction Blant															
6	Total Steam Production Plant		586	602	614	616	647	624	628	640	650					
7	Structures & Improvements-Indoor	311	547	561	574	578	596	587	597	608	617					
8	Structures & Improvements-Semi-Outdoor	311	509	512	523	527	535	534	544	545	555					
9	Boiler Plant Equipment-Coal Fired	312	607	625	636	639	669	645	647	662	670					
10	Boiler Plant Equipment-Gas Fired	312	-	-	-	-	-	-	-	-	-					
11	Boiler Plant Piping Installed	214	564	578	597	601 547	612	603	611	617	619					
12	Accessory Electrical Equipment	314	323 855	547 883	917	938	971	973	987	1010	1042					
14	Misc. Power Plant Equipment	316	620	632	652	660	675	670	669	683	686					
15																
16	Nuclear Production Plant															
17	Total Nuclear Production Plant		539	557	565	568	606	575	580	590	597					
18	Structures & Improvements	321	471	478	487	493	509	499	508	512	520					
20	Reactor Plant Equipment	322	530	549	554	550	603	562	200	5/6	579					
20	Hydro Production Plant															
22	Total Hydraulic Production Plant		483	488	498	500	518	507	513	518	527					
23	Structures & Improvements	331	547	561	574	578	596	587	597	608	617					
24	Reservoirs, Dams & Waterways	332	462	464	476	481	487	488	495	500	511					
25	Water Wheels, Turbines & Generators	333	491	499	501	494	542	498	499	499	504					
26	Other Broduction Plant															
27	Total Other Production Plant		681	702	751	768	790	786	803	819	840					
29	Fuel Holders, Producers & Accessories	342	554	563	582	587	596	590	606	615	621					
30	Gas Turbogenerators	344	683	704	757	775	797	792	810	827	847					
31																
32	Transmission Plant		621	650	616	652	667		672	690	600					
33 34	Station Equipment	353	682	600	709	718	736	728	735	746	750					
35	Towers & Fixtures	354	524	525	541	543	558	549	560	562	572					
36	Poles & Fixtures	355	581	584	588	591	595	598	591	593	599					
37	Overhead Conductors & Devices	356	662	725	650	<mark>658</mark>	673	690	691	698	705					
38	Underground Conduit	357	540	544	566	568	569	567	591	588	596					
39	Underground Conductors & Devices	358	893	897	906	937	948	970	997	1008	1019					
40	Distribution Plant															
42	Total Distribution Plant		606	621	627	637	649	659	670	676	690					
43	Station Equipment	362	653	662	669	677	679	683	693	696	703					
44	Poles, Towers & Fixtures	364	548	552	558	562	567	570	568	569	577					
45	Overhead Conductors & Devices	365	690	732	699	710	729	744	757	770	789					
46	Underground Conduit	366	517	518	537	539	541	542	556 715	555	564 725					
47	Line Transformers	368	620	638	658	673	714	731	713	728 787	819					
49	Pad Mounted Transformers	368	650	706	708	708	710	688	691	674	677					
50	Services-Overhead	369	510	528	509	511	515	517	529	537	555					
51	Services-Underground	369	390	408	429	448	454	456	453	411	439					
52	Meters Installed	370	340	338	334	337	341	343	349	350	355					
53 54	Street Lighting-Overhead	373	732	755	766	781	775	783	743	744	743					
54 55	Street Lighting-Underground	373	751	748	788	788 802	798	788 806	701	704	775					
56	Lighting chaorground	515	, 51		, 00	0.52	. 70	000	0	5	5					



# FERC FORM NO. 1/3-Q: EXHIBIT REP-5 REPORT OF MAJOR ELECTRIC UTILITIES, LICENSEES AND OTHER

	IDENTIFICATION	NSEES AND O	THER
01 Exact Legal Name of Respondent The Empire District Electric Company		02 Year/Peri End of	od of Report 2014/Q4
03 Previous Name and Date of Change <i>(if</i> The Empire District Electric Company	name changed during year)		
04 Address of Principal Office at End of Per 602 S Joplin Ave Joplin MO 64801	riod (Street, City, State, Zip Code)		
05 Name of Contact Person Robert W. Sager		06 Title of Contac Controller, Asst Se	t Person ec/Treas
07 Address of Contact Person (Street, City 602 S Joplin Ave Joplin MO 64801	v, State, Zip Code)		
08 Telephone of Contact Person, <i>Including</i> <i>Area Code</i>	09 This Report Is (1)	Resubmission	10 Date of Report (Mo, Da, Yr)
(417) 625-5100			04/23/2015
A	NNUAL CORPORATE OFFICER CERTIFICAT	ION	
01 Name	03 Signatura		
01 Name Laurie A. Delano	03 Signature		04 Date Signed ( <i>Mo, Da, Yr</i> )
02 Title Vice-President-Finance & CFO	Laurie A. Delano		04/23/2015
Title 18, U.S.C. 1001 makes it a crime for any person false, fictitious or fraudulent statements as to any mat	to knowingly and willingly to make to any Ager tter within its jurisdiction.	icy or Department of the	United States any

Name o	of Respondent	This Report Is:		Date of Papart	X	(D. ). ). ).
The Er	mpire District Electric Company	(1) An Original		(Mo, Da, Yr)	Ye	ar/Period of Report
		(2) X A Resubmission		04/23/2015	En	id of
	ELECTRIC PL4	ANT IN SERVICE (Account 10	1, 102, 1	03 and 106) (Continued)		
Line	Account			Balance		
No.	(-)			Beginning of Year		Additions
47 3				(b)		(c)
40 /2	250) Lond and Lond Birld				1945 ( 1945)	
40 (3	50) Land and Land Rights			11.611	367	2.46
49 (3	352) Structures and Improvements			2 423	284	-2,10
50 (3	353) Station Equipment			107.809	501	4/7,32
51 (3	54) Towers and Fixtures			107,808,	291	9,777,73
52 (3	55) Poles and Fixtures			1,334,	199	755,75
53 (3	56) Overhead Conductors and Devices			60,304,*	169	14,204,21
54 (3	57) Underground Conduit			79,916,3	379	932,92
55 (3	58) Underground Conductors and Devices					
56 (3)	50) Roode and Traile					
57 (2)	50 1) Acast Duting					
57 (3	59.1) Asset Retirement Costs for Transmission	Plant				
58 10	OTAL Transmission Plant (Enter Total of lines 4)	8 thru 57)		263 307 0	100	
59 4.	DISTRIBUTION PLANT			200,001,9	09	20,145,78
60 (36	60) Land and Land Rights			0.045		
61 (36	61) Structures and Improvements			3,645,6	66	91,71
62 (36	62) Station Equipment			10,853,0	12	18,237,55
63 (3F	63) Storage Battery Equipment			93,015,4	99	8,644,43
64 (36	64) Poles Towers and Extures					
65 (20	54) Poles, Towers, and Fixtures			173,908,4	39	6 661 85
00 (30	55) Overnead Conductors and Devices			179.304.8	97	7 973 300
66 (36	36) Underground Conduit			35 451 2	72	1,913,393
67 (36	37) Underground Conductors and Devices			59 262 3	25	1,003,50
68 (36	38) Line Transformers				20	143,91
69 (36	39) Services			105,546,6	<u> 18</u>	6,316,389
70 (37	0) Meters			/4,952,/	<u>~</u>	1,897,500
71 (37	(1) Installations on Customer Premises			20,769,93	39	1,237,456
72 (37	(2) Leased Broperty on Customer Premises			16,997,5	15	597,660
72 (27	2) Street Liebting and Similar Premises					
73 (37	3) Street Lighting and Signal Systems			18,285,69	34	990 891
14 (37	<ol> <li>Asset Retirement Costs for Distribution Plan</li> </ol>	t		183 1	13	
75 TO	TAL Distribution Plant (Enter Total of lines 60 th	nru 74)		792 176 8		E4 070 000
76 5. 1	<b>REGIONAL TRANSMISSION AND MARKET O</b>	PERATION PLANT	1.44	152,170,0		54,676,326
77 (38	0) Land and Land Rights					1. A
78 (38	1) Structures and Improvements					
79 (38)	2) Computer Hardware					
80 (38)	3) Computer Software					
81 (29)	4) Communication Equipment					
01 (30						
02 (300	5) Miscellaneous Regional Transmission and M	arket Operation Plant				
83 (386	<ol> <li>Asset Retirement Costs for Regional Transm</li> </ol>	ission and Market Oper				
84 TOT	TAL Transmission and Market Operation Plant (	(Total lines 77 thru 83)				
85 6. G	SENERAL PLANT		la segure			
86 (389	9) Land and Land Rights			670.46	7	
87 (390	0) Structures and Improvements			079,40	<u>-</u>	
88 (391	1) Office Furniture and Fourinment			10,427,62	<u>1</u>	471,774
89 (392	2) Transportation Equipment			17,693,90	이	2,916,963
90 (303	3) Stores Equipment			12,006,02	4	2,260,428
01 /204	1) Tools Shop and Comes Factor in			449,49	4	145,651
02 /00-	in roois, Shop and Garage Equipment			5,729,09	9	-15,231
92 (395				1.189.32	3	102 850
93 (396	) Power Operated Equipment			16 931 61	9	2 660 664
94 (397	<ol> <li>Communication Equipment</li> </ol>			11 906 04	5	2,000,001
95 (398	) Miscellaneous Equipment				<del>: </del>	
96 SUB	3TOTAL (Enter Total of lines 86 thru 95)			224,55	귀	14,107
97 (399	) Other Tangible Property				4	8,839,606
98 (399	1) Asset Retirement Costs for General Plant				+	
99 TOT	AL General Plant (Enter Total of lines 06, 07 and	ad 08)				
00 101	AL (Accounts 101 and 106)	iu 30)		77,237,150	וו	8,839,606
01 (400)	AL (ACCOUNTS TO F AND TUB)			2,205,784,669	)	249,300.719
01 (102)	J Electric Plant Purchased (See Instr. 8)				T	.,,
U2 (Les	s) (102) Electric Plant Sold (See Instr. 8)				1	
<u>03   (103)</u>	) Experimental Plant Unclassified				+	
	AL Electric Plant in Service (Enter Total of lines	100 thru 103)		2 205 784 660	, <del> </del>	240 200 7/0
			1	2,200,704,008	<u>+</u>	249,300,719
					1	
					1	
					1	

Name of Respondent		This Report I	S:	Date of	Report	Vear/Perid	od of Pene	
The Empire District Electric Compa	anv	(1) 🗋 An (	Original	(Mo, Da	a, Yr)	Find of		л. А
		(2) XAR	esubmission	04/23/2	015		2014/02	-
	ELECTRIC PLA	NT IN SERVIC	E (Account 101, 102, 1	03 and 106)	(Continued)			
Retirements	Adjustm	nents	Transfer	S	Bala	ance at	T	Line
(d)	(e)		(f)		End	of Year		No.
						<u>(</u> 9/		47
						11.609.208		48
						2,900,605	5	49
539,898				260,819		117,307,244		50
706						2,089,249		51
391,562						74,116,825	1	52
						80,519,307	1	53
								54
								55
								56
								57
1,262,159				260,819		288,542,438		58
								59
				326,918		4,064,300		60
74,093						29,016,469		61
1,437,760				-260,819		99,961,353		62
544.047								63
511,317						180,058,978		64
5/9,514				3,479,582		190,178,364		65
53,285		·····				37,281,548		66
269,026						59,137,274		67
2,503,165				-3,479,582		105,880,250		68
						76,810,492		69
						22,007,395		70
						16,825,198		71
406.046								72
400,940						18,869,639		73
6 644 969				00.000		183,153		74
0,044,008				66,099		840,274,413		75
			a second seco					76
								77
								78
		····						/9
								80
								02
								03
	a ser an		and the second second second					04
20,386	24					659 081		96
906,310						9 993 085		87
1,733,445						18.877 418		88
2,155,312						12.111 140		89
						595 145		90
62,421				19,010		5,670,457		91
						1,292.173		92
2,396,463				-19,010		17,176.807		93
456,954						11,731,494		94
698						237,967		95
7,731,989						78,344,767		96
								97
								98
7,731,989						78,344,767		99
48,198,583				326,918		2,407,213,723		100
								101
								102
40.400 500								103
48,198,583				326,918		2,407,213,723		104

Name of Respondent The Empire District Electric Company		This Report Is: (1) An Original (2) A Resubmis	sion	Date of Report (Mo, Da, Yr) 04/23/2015	Ye En	Year/Period of Report End of2014/Q4		
		DEPRECIATI	ON AND AMORTIZAT	ION OF ELEC	TRIC PLANT (Contir	nued)		
	C	C. Factors Used in Estimation	ating Depreciation Cha	irges				
Line No.	Account No.	Depreciable Plant Base (In Thousands) (b)	Estimated Avg. Service Life (C)	Net Salvage (Percent) (d)	Applied Depr. rates (Percent)	Mortality Curve Type	Average Remaining Life	
12	311	171,295	83.33	(u)	1.20	0	(g) 70.61	
13	312	655,669	52.08		1.92		44.23	
14	312.7	18,596	52.08		1.92		. 37.17	
15	314	139,221	61.35		1.63		52.68	
16	315	50,684	54.05		1.85		42.13	
17	316	13,226	51.02		1.96		17.72	
18	SUBTOTAL STEAM	1,048,691						
19								
20	331	839	60.61		1.65		35.81	
21	332	2,228	61.35		1.63		36.76	
22	333	3,180	68.49		1.46		55.19	
23	334	1,786	68.97		1.45		53.45	
24	335	618	41.49		2.41		22.44	
25	SUBTOTAL HYDRO	8,651						
26								
27	341	8,271	35.21		2.84		25.15	
28	342		35.21		2.84			
29	343	79,414	35.21		2.84		26.06	
30	344	27,367	35.21		2.84		30.06	
31	345	7,995	35.21		2.84		24.25	
32	346	2,814	35.34		2.83		29.67	
33	SUBTOTAL CC	125,861						
34								
35	341	5,390	55.25		1.81		22.71	
36	342	3,823	26.46		3.78		10.74	
37	343	149,546	51.81		1.93		34.08	
38	344	24,449	54.95		1.82		25.52	
39	345	11,962	28.25		3.54		19.14	
40	346	1,608	25.38		3.94		3.97	
41	SUBTOTAL OTHER	196,778						
42								
43	352	2,678	49.75		2.01		26.85	
44	353	113,019	45.87		2.18		29.22	
45	354	1,892	54.64		1.83		31.99	
46	355	68,687	31.35	*	3.19		21.55	
47	356	81,583	47.85		2.09		33.26	
48	SUBTOTAL TRANS	267,859						
49								
50	361	24,978	48.54		2.06		40.35	