

EXHIBIT

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Case No.:

EO-2017-0065

DIRECT TESTIMONY

OF

JOHN S. RILEY

Submitted on Behalf of the Office of the Public Counsel

FILED
August 31, 2017
Data Center
Missouri Public
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EMPIRE DISTRICT ELECTRIC COMPANY

CASE NO. EO-2017-0065

**** Denotes Highly Confidential Information ****

May 19, 2017

OPC

~~Exhibit No.~~ Exhibit No. 1
Date 8-24-17 Reporter A.F.
File No. EO-2017-0065

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EXHIBIT

BEFORE THE PUBLIC SERVICE COMMISSION
OF THE STATE OF MISSOURI

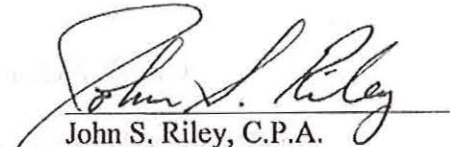
In the Matter of the Sixth Prudence)
Review of Costs Subject to the)
Commission-Approved Fuel Adjustment) Case No. EO-2017-0065
Clause of The Empire District)
Electric Company)

AFFIDAVIT OF JOHN S. RILEY

STATE OF MISSOURI)
) ss
COUNTY OF COLE)

John S. Riley, of lawful age and being first duly sworn, deposes and states:


1. My name is John S. Riley. I am a Public Utility Accountant III for the Office of the Public Counsel.
2. Attached hereto and made a part hereof for all purposes is my rebuttal testimony.
3. I hereby swear and affirm that my statements contained in the attached testimony are true and correct to the best of my knowledge and belief.


John S. Riley, C.P.A.
Public Utility Accountant III

Subscribed and sworn to me this 19th day of May 2017.



JERENE A. BUCKMAN
My Commission Expires
August 23, 2017
Cole County
Commission #13754037


Jerene A. Buckman
Notary Public

My Commission expires August 23, 2017.

Exhibit No. _____
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DIRECT TESTIMONY
OF
JOHN S. RILEY
THE EMPIRE DISTRICT ELECTRIC COMPANY
CASE NO. EO-2017-0065

INTRODUCTION

1
2 **Q. Please state your name and business address.**

3 A. John S. Riley, PO Box 2230, Jefferson City, Missouri 65102.

4 **Q. By whom are you employed and in what capacity?**

5 A. I am employed by the Missouri Office of the Public Counsel ("OPC") as a Public Utility
6 Accountant III.

7 **Q. Please describe your educational background.**

8 A. I earned a B.S. in Business Administration with a major in Accounting from Missouri State
9 University.

10 **Q. Please describe your professional work experience.**

11 A. I was employed by the OPC from 1987 to 1990 as a Public Utility Accountant. In this
12 capacity I participated in rate cases and other regulatory proceedings before the Public
13 Service Commission ("Commission"). From 1994 to 2000 I was employed as an auditor
14 with the Missouri Department of Revenue. I was employed as an Accounting Specialist
15 with the Office of the State Court Administrator until 2013. In 2013, I accepted a position
16 as the Court Administrator for the 19th Judicial Circuit until April, 2016 when I joined the
17 OPC.

1 **Q. Are you a Certified Public Accountant (“CPA”) licensed in the State of Missouri?**

2 A. Yes. I am also a member of the Institute of Internal Auditors (“IIA”)

3 **Q. Have you previously filed testimony before the Missouri Public Service Commission**
4 **(“Commission” or “PSC”)?**

5 A. Yes I have.

6 **RECOMMENDATION AND SUMMARY OF TESTIMONY**

7 **Q. What is the purpose of your direct testimony?**

8 A. The purpose of my testimony is to demonstrate that Empire District Electric Company’s
9 (“Empire” or “Company”) hedging policies and practices are imprudent and have harmed
10 ratepayers by subjecting them to substantial and unnecessary hedging losses during the 18
11 month prudence review timeframe.

12 **Q. Does OPC have a recommendation for the Commission?**

13 A. Yes. OPC recommends the Commission find Empire’s hedging policy imprudent for the
14 time period of March 2015 through August 2016 and order Empire to return to its
15 customers, \$13,104,811.18¹ along with interest in the first FAC rate change following the
16 effective date of the Commission’s order in this case.

17 **Q. How should the Commission judge the Company’s conduct?**

18 A. The Commission’s prudence standard described below has been in place now for over 20
19 years.

20 [A] utility’s costs are presumed to be prudently incurred... However, the
21 presumption does not survive “a showing of inefficiency or

¹ Total calculations were \$16,785,521.65 prior to Missouri jurisdictional and FAC allocations.

1 improvidence.”...[W]here some other participant in the proceeding creates
2 a serious doubt as to the prudence of an expenditure, then the applicant has
3 the burden of dispelling these doubts and proving the questioned
4 expenditure to have been prudent... .

5
6 ...[T]he company’s conduct should be judged by asking whether the
7 conduct was reasonable at the time, under all the circumstances,
8 considering that the company had to solve its problem prospectively rather
9 than in reliance on hindsight. In effect, our responsibility is to determine
10 how reasonable people would have performed the tasks that confronted the
11 company.²
12
13

14 The key take-away from this quote is that the Company’s fuel hedging practices must have
15 been “reasonable” and must be judged “prospectively” based on circumstances at the time.

16 **Q. Why are these important considerations?**

17 **A.** The prudence standard really comes down to determining what course of action should a
18 utility adopt that affects its future operation and its customers, when it takes into
19 consideration all the facts available at the time. OPC’s evidence will show that given the
20 facts that were known or should have been known by Empire at that time, a reasonable
21 utility would not have engaged in the hedging practices that caused heavy monetary losses
22 in Empire’s natural gas purchases.

23 **Q. OPC witness Charles Hyneman states in his testimony that the first standard to be met**
24 **in a prudence audit case is serious doubt of prudence. Would you summarize what**
25 **raises serious doubt regarding the prudence of Empire’s hedging costs in the prudence**
26 **audit period in this case?**

27 **A.** First, the natural gas market has not been advantageous for electric utility natural gas
28 hedging for several years and is expected to continue this way for quite a while longer.

² *State ex rel. Associated Natural Gas Co. v. Public Service Commission of State of Missouri*, 954 S.W.2d 520, 528-529 (Mo. Ct. App. 1997).

1 Secondly, Empire's rigid hedging policy resulted in ratepayers paying \$13.1 million more in
2 fuel costs during the audit period than they would have paid if Empire did not engage in
3 natural gas hedging activities. Finally, as outlined in OPC witness Hyneman's direct
4 testimony, the prudence of natural gas hedging has been addressed in other states at least as
5 far back as 2010.

6 Recently, the Kentucky Public Service Commission ("PSC") denied a request of Columbia
7 Gas of Kentucky and Atmos Energy Corporation to continue their gas cost hedging
8 programs. In ending the practice, Kentucky PSC found that current conditions and the
9 outlook for future natural gas supplies and prices are sufficiently different from those in
10 2001 and therefore dispel concerns regarding the potential adverse impact of price volatility
11 on customers' bills.³ The Kentucky PSC ended the utilities' hedging programs, finding that
12 continued low and stable gas prices obviate the need for hedging and that it is no longer
13 reasonable to customers.

14 Additionally, KCP&L -- Greater Missouri Operations Company ("GMO") agreed in its
15 recent rate case to discontinue its hedging practices. And lastly, the Kansas Corporation
16 Commission does not allow Empire to recover hedging costs from Empire's Kansas
17 customers.

18 **Q. Please summarize why Empire's hedging is imprudent.**

19 **A.** At the time natural gas purchasing decisions were made for the time period of this prudence
20 audit, Empire's hedging policy was inflexible and was not responsive to the low cost natural
21 gas forecasts provided by the U.S Energy Information Administration ("EIA") and
22 consultants hired by Empire to provide natural gas forecasts specifically for Empire.
23 Because hedging costs were included in the FAC, Empire experienced very little, if any,
24 harm from these practices. Its rigid policy resulted in over \$13 million of costs being
25 charged to its customers in just this one FAC audit period.

³ Enerknol Research Dec. 21,2015 "Regulators Reconsider Utility Hedging Policies Given Shifts
In Natural Gas Flow

SERIOUS DOUBT

Q. Would you characterize the market for natural gas during the prudence review period?

A. During the audit period, spot market natural gas prices were the lowest they had been in this century.

Q. You have stated that it is important to know what decisions were based on to determine prudence. Would you describe the natural gas market prior to this audit period?

A. From 2004 through 2009, the average price of natural gas never fell below \$5 MMBtu.⁴ From February of 2010 through today, the average price of natural gas went above \$5 for only one month in the entire seven years. That one month was the "Polar Vortex" of February 2014 where the spot price on the Henry Hub reached \$6 but fell \$1.10 the following month. The average price was in a steady decline that very cold winter until it hit a bottom of \$1.73 MMBtu in April, 2016.

Q. What type of hedging is prudent in an environment with dropping or stable prices?

A. As prices are falling or staying fairly constant, typical utility hedging is an expensive proposition with little or no benefit. If a company is hedging just because a certain volume level dictates (as is the case with Empire), then it would be much more likely that the price paid for the derivative or forward contract will be higher than the spot price on the current open market. If prices go down or stay close to the same when the contract comes due, then ratepayers will have paid more for the future natural gas purchase than the going market price. Unless a company is betting on the price of natural gas going down, there really isn't any hedging that is suitable for this pricing environment.

⁴ Prices bases on the Monthly average at the Henry Hub terminal listed on the U.S. Energy Information Administration ("EIA") website.

1 Generally speaking, the market behavior since 2011 has not supported hedging natural
2 gas to protect against price spikes in the price of natural gas.

3 **Q. Was Empire aware of this declining price market?**

4 A. Yes. Declining natural gas prices were evident several years before the March 2015
5 through August 2016 prudence review period when Empire was making decisions
6 impacting this prudence audit period.

7 As I stated previously, natural gas prices have been on a downward trend since the last
8 price spike in 2008. That was when the convergence of several economic and weather
9 related factors forced natural gas to peak at nearly \$13/MMBtu. This prompted oil
10 companies to drill more wells causing supply to outpace demand. Empire officials
11 acknowledged the downward price trend when it responded on July 3, 2013, well before
12 this prudence audit period, to Staff questions in Docket No. EW-2013-0101: *Working*
13 *Docket to Address the Hedging Practices of Electric Utilities Used to Mitigate the Rising*
14 *Costs of Fuel:*

15 Staff Question 12: How have changes in the natural gas market since
16 2009 affected the benefits, for both utilities and their customers, of
17 hedging natural gas?....

18
19 Empire's Response: As the natural gas prices have declined, both Empire
20 and its customers have benefitted from the price declines – the customers
21 through lower electric bills, and Empire through a lower overall revenue
22 requirement. In addition to the lower fuel costs for Empire and its
23 customers, the decline in natural gas prices has resulted in lower spot
24 power prices, which have also been flowed through the FAC to the benefit
25 of Empire's Customers.
26

27 The price decline accelerated since the "Polar Vortex" of February of 2014 as more and
28 more natural gas entered the market. Attached as JSR-D-1 is a summary page of
29 historical natural gas prices published by the U.S. Energy Information Administration

1 ("EIA"). The EIA gathers information on most fuels consumed in the U.S. They publish
2 weekly reports on many changes in commodity statistics.

3 Among other statistics, the EIA reports on fuel prices, number of oil rigs in production,
4 weather expectations, coal shipped, and their expectations concerning short and medium
5 term prices of these tracked commodities. There is one compelling data point that the
6 EIA tracks every week that plays a significant role in whether gas prices will stay low –
7 and that is the weekly natural gas storage report. This is a report of the current level of
8 natural gas in storage across the country. There is a strong correlation between natural
9 gas prices and the five year average in natural gas storage. A recent article by the
10 investment information technology company Market Realist explained why natural gas
11 prices have been low for an extended period of time. One take away from the analysis is
12 quoted below:

13 Natural gas prices are impacted by the spread between the natural gas
14 inventories and their five-year average. Over the last ten years, whenever
15 natural gas inventories have been higher than their five-year average,
16 prices have fallen.

17
18 In contrast, between December 2013 and April 2014, when inventory
19 levels fell short of the five-year average by the highest amount in the past
20 ten years, natural gas prices rose to \$6.14 per million British Thermal
21 units.

22
23 The downturn in natural gas prices since June 2008 could be linked to
24 higher inventories compared to the five-year average⁵
25

26 It is interesting to note that the 2016 injection season began in April with record-high start of
27 the season natural gas storage levels and ended in October with an end-of-month record.
28 Natural gas storage levels reached an all-time high in November.⁶ Average monthly prices

⁵ Robert Scott, Analyzing Natural Gas Inventories and Prices – Market Realist p.
4 of 9, <http://marketrealist.com/2017/03/markets-strong-natural-gas-lagging/>,

⁶ EIA article "Underground Natural Gas Working Storage Capacity" April 3,
2017

1 for natural gas in 2016 were the lowest in this century. The Market Realist also pointed out
2 that natural gas inventories fell below their five-year average in December 2016 for the first
3 time in 19 months and the average price rose above \$3 for the first time in over two years.

4 **Q. Can inventory levels predict the price of natural gas?**

5 A. No. Inventory levels cannot predict prices but they can give an indication that so long as
6 there is record or near record storage levels, price spikes are suppressed. But high inventory
7 levels by themselves will not keep market prices from rising and falling. It is not unusual,
8 and in fact, generally expected that natural gas prices rise and fall throughout the year due to
9 weather and expected customer usage patterns. More and more electric utilities have turned
10 to natural gas generation plants to replace coal-fired systems and the majority of peaking
11 capacity is natural gas fired. Consequently, the months of July and August see higher
12 natural gas prices, as do the peak winter months. Prices tend to be lower in the Fall and
13 Spring. There is no surprise in this market behavior.

14 **Q. Is this annual expected rise and fall of natural gas prices evidence of a need for**
15 **extensive hedging?**

16 A. No. If you look at the annual gas prices from 2000 through 2010, you find that the average
17 annual price for that timeframe was \$5.69. From 2011 through 2016 the average annual
18 price was \$3.33. That is a 41.47% drop in price. As pointed out earlier in this testimony, the
19 high volatility and upward pricing pressure has not existed since 2008 and so long as the
20 natural gas market continues to bump up against record storage levels this excess capacity
21 can absorb sudden demand needs and we can expect prices to remain subdued with little
22 chance of spiking anytime soon.

23 Attempting to hedge prices in this type of market environment has no benefit that is worth
24 the financial risk to the customer. The market prior to the prudence audit period was not
25 demonstrating any risk that needed to be addressed through costly hedging. Pricing forward

contracts, swaps and futures at 30% over then current market prices may help a company predict its future natural gas budget, but it certainly wasn't helping the ratepayer.

Q. You have stated Empire's hedging policy is rigid. What is your understanding of the Company's policies governing hedging?

A. Empire has in place an Energy Risk Management Policy, which is attached as JSR-D-2 that provides the rules and guidelines that govern the Company's actions in managing their power and natural gas commodity risk. It has had this policy in place, mostly unchanged, since 2001. By all indications, the Company has strictly adhered to these guidelines since they were developed in 2001.

Q. Would you summarize the Company's hedging practices?

A. Essentially, the company places natural gas hedging transactions based on a percentage of their expected natural gas volume needs for a given timeframe. Their hedging is based on volume need, not price risk. The Commission's Staff quoted from the hedging strategy section of the Company's Energy Risk Management Policy manual and included it in its prudence report in this case. It is important to display it here again so the Commission can understand how inflexible and costly this practice has been.

Very telling in this section of its Risk Management report is that Empire begins its hedging strategy section with a description of its FAC which includes the detail that hedging costs are included in its FAC.

4. HEDGE STRATEGY

Electric Segment

Prior to September 1, 2008, the electric segment's Missouri retail rates were not subject to a fuel cost adjustment clause. Effective September 1, 2008 regulators granted a fuel adjustment clause (FAC) for recovery/refund of 95% of prudent fuel expenses versus a base rate established in rate case ER-2008-0093 and any future rate cases.

1
2 The Missouri FAC allows Empire to recover 95% of under-recovered prudent
3 fuel expenses and return to customers 95% of any over-recovered prudent
4 fuel expenses versus a base rate. Costs eligible for the FAC will be the total
5 fuel costs as allocated to Missouri for fuel consumed in generating units,
6 including the costs associated with fuel hedging programs; purchased power
7 costs excluding demand costs; and the net of ARR/TCR/FTR activity as well
8 as emission allowance costs and revenue. These costs will be off-set by sales
9 activity in the SPP Integrated Marketplace.

10
11 Actual costs will be accumulated during the 6 month Accumulation Period,
12 These costs will be used to determine the Cost Adjustment Factor (CAF) that
13 will be filed with the Missouri Public Service Commission and upon their
14 approval will be applied to retail customer billings during the appropriate
15 Recovery Period.

16
17 Empire's strategy description then describes that the focus of Empire's hedging strategy is
18 to address volatility of prices to provide for predictable fuel and purchased power costs for
19 Empire over a multi-year period and to allow for management of the Company's risk
20 positions.

21 The electric segment's strategic focus addresses the volatility of natural
22 gas prices by attempting to protect against volatile natural gas costs for the
23 electric segment's plants. The electric segment will apply risk
24 management strategies in an attempt to lessen the risks associated with
25 variances in the volume of fuel consumed relative to budgeted fuel
26 consumption volume.

27
28 The electric segment's specific hedge strategy goals are to provide for
29 predictable fuel and purchased power costs over a multi-year period and to
30 provide a framework to allow for management of its risk positions.

31
32 Next in its strategy, Empire provides the objectives of the strategy. Again the strategy
33 focuses on mitigating impacts and being able to estimate fuel costs. This is the only time
34 minimization of cost is mentioned and then it is tempered with minimization of volatility:

35 **** The RMP is designed to provide the Supply Management Group**
36 **(SMG) with a more comprehensive set of tools to mitigate the adverse**
37 **impacts associated with changing natural gas or wholesale electricity**
38 **prices.**

Risk management strategies involve an active "mark-to-market" assessment of market conditions to match its supply portfolio to its portfolio of retail and wholesale activity.

In effect, these strategies set out to determine how much market risk is reasonable to best minimize costs and volatility, while still providing the electric segment with reasonable fuel costs. **

While the next section has a heading that suggests it will now provide an overview of its "hedging targets" it in fact describes how an expected natural gas burn will be determined. An overview of the electric segment's hedging targets for natural gas is outlined below:

** At least yearly, the electric segment will model its electric system with a production cost model to establish an expected gas burn for each of the next four years. This budgeted gas burn will be developed utilizing a consistent methodology as that utilized in the Company's financial projections.

From time to time as conditions change (i.e. unit outages, gas commitments, purchase power prices), the SMG shall assess the electric segment's system to establish a new "expected" gas burn for market participation. **

The hedging strategy then describes the hedging tools that may be used by Empire.

** For the electric segment's purposes hedging includes physical forward purchases, physical management tools such as pipeline imbalance tariffs, park and loan, interruptible storage, OTC swaps and exchange traded financial contracts.

Firm storage, due to inherent injection and withdrawal restrictions and requirements to reduce inventory levels during certain periods of the year, will be considered as operational (daily balancing and reliability tool for the electric segment) and not part of the hedging plan. Although there will be occasions when favorable market conditions exist and gas will be purchased and put into firm storage, this cannot be predicted and built into the hedging plan. **

Finally Empire lays out its hedging targets.

The electric segment will utilize the following
procurement guidelines:

**** Hedge a minimum of 10% of year four expected gas burn**
Hedge a minimum of 20% of year three expected gas burn
Hedge a minimum of 40% of year two expected gas burn
Hedge a minimum of 60% of year one expected gas burn **

**** The SMG will have the flexibility to hedge up to 100% of the current
year and 80% of any future year's expected requirements while
remaining cognizant of volume risk. The 80% guideline is an annual
target and volumes up to 100% can be hedged in any given month. For
years beyond year four, additional factors of long term uncertainty in
required volumes, counterparty credit, etc. should also be considered. ****

**** (By December 31 of current year we should have a minimum of
60% of the next years projected gas burn hedged.) ****

**** This progressive dollar cost averaging approach is intended to protect
our customers and shareholders from volatility in the marketplace. In
addition, the progressive approach allows for increasing uncertainty of
gas needs inherent in forecasting events occurring further in the future.

**** If changes in expected gas burns occur that make us more than 100%
hedged in any given month, appropriate steps will be taken following
consideration of accounting guidance and review by the RMOC. Given
that there is some uncertainty in our modeling efforts, an over-hedged
position of 50,000 MMBtu's or less would generally not be considered
material and not subject to action. ****

The only mention of Empire's customers is contained in this section of the hedging strategy.
This section states the "intention" of the strategy is to protect the customers *from volatility in
the marketplace*. There is no mention of minimization of costs for the customers in
Empire's hedging strategy nor the mention of the only valid purpose of an electric utility
hedging program – to protect against natural gas price spikes. When minimization of costs
is mentioned earlier in the hedging strategy, it is clear that it is referring to minimizing costs
to the electric segment of Empire.

1 Q. Wouldn't that minimize costs to the customer too?

2 A. Not necessarily. Because of the FAC, minimizing the cost to the electric segment of Empire
3 is done by minimizing the difference between the actual natural gas cost and the natural gas
4 costs included in Empire's base electric utility rates.

5 Q. Why does the Company base its hedging strategy on volume as opposed to natural
6 gas market risks?

7
8 A. Empire started hedging natural gas long before the Commission addressed hedging to
9 mitigate upward natural gas price spikes for Missouri's gas companies.⁷ Empire was
10 attempting to combat regulatory lag and provide price certainty. Its Energy Risk
11 Management Policy dated August 21, 2003 and quoted below provides a different
12 opening paragraph to its Hedge Strategy section than the current, January 14, 2015
13 written policy:

14 2003:

15
16 ** "EDE's Missouri and Kansas retail rates are not subject to a fuel cost
17 adjustment clause. As such, the only time EDE's rates are adjusted for
18 changes in fuel costs is during a rate proceeding. The regulatory
19 schedule for a rate proceeding in Missouri requires 11 months from the
20 date of filing before new rates come into effect. Adding preparation time
21 for a rate case, this period could stretch to 12 or 13 months. This
22 regulatory schedule combined with the volatility of natural gas
23 necessitates that EDE focus on procuring fuel over periods longer than
24 18 months to help prevent EDE's revenues from lagging its costs....

25
26 EDE's specific hedge strategy goals are to provide for predictable fuel
27 and purchased power costs over a multi-year period and to provide a
28 framework to allow EDE to manage its risk positions." **
29
30

⁷ 4 CSR 240-40.018 Natural Gas Price Volatility Mitigation(1)(A)originally filed May, 2003 also 4 CSR 240-20.090 Electric Utility Fuel and Purchased Power cost Recovery Mechanisms filed June, 2006

1 In 2003, the Company hedged for regulatory lag and price certainty to help manage its risks.
2 Empire was not focused on protecting the ratepayer from price spikes, rather it was focused
3 on what it could recover in a rate case given regulatory lag. Now that the Company has a
4 FAC, these opening paragraphs have been replaced with a description of the FAC but
5 nothing within the policy is different.⁸ As Mr. Blake Mertens, Vice President of Energy
6 Supply and Delivery Operations for Empire Electric attest to in his surrebuttal in Case No.
7 ER-2016-0023:

8 **Q. Does Empire have a comprehensive hedging policy in place?**

9 A. Yes. Empire first implemented its Energy Risk Management Policy ("RMP") in 2001.
10 While slight modifications have been made throughout the years largely to update
11 organizational or nomenclature changes, the most substantive of which was prior to the
12 SPP IM going live to reflect changes in daily processes and reflect transmission
13 congestion rights procurement practices, our natural gas hedging policy and practices
14 have remained consistent.⁹

15 **Q. How is Empire having the same policy concerning natural gas purchases for over**
16 **the past 16 years imprudent?**

17 A. The question of prudence comes in when it is realized that the Company has not changed
18 its business policies or its practices regarding hedging while the regulatory environment
19 and natural gas volatility and prices have changed significantly. The Company now has
20 an FAC. Gas prices and volatility are at lows and are predicted to stay low for several
21 more years. The Southwest Power Pool ("SPP") has initiated the Integrated Market in
22 2014 garnering a mention in the opening paragraphs of the hedging strategy, yet the
23 Company keeps plowing ahead with the same hedging strategy when it should have
24 stepped back and reviewed the business climate and natural gas forecasts. As the
25 Commission points out within the prudence standard: "our responsibility is to

⁸ Please review the Hedging Strategy Section quoted on page 7 of this testimony

⁹ Mertens surrebuttal, page 2, first question

determine how reasonable people would have performed the tasks that confronted the company”¹⁰ (emphasis added)

The facts show that, due to the Company’s inflexible and unreasonable hedging strategy that resulted in millions of dollars in excessive natural gas costs, Empire conducted its natural gas purchases in an imprudent way. Given the fact that Empire’s 2003 hedging strategy was to defeat regulatory lag, a reasonable person would never had made those transactions if they had not had the ratepayer as their backstop when predictions showed lower gas prices in the future.

Q. How can the OPC make this argument when the Company has been adhering to this policy for 16 years?

A. First of all, the Company never initiated this policy to save the ratepayer any money. It did not begin hedging to prevent ratepayer shock, pain or to protect the ratepayer from gas cost volatility. As I pointed out before, Empire implemented this policy (2001) prior to the Commission formalizing concerns about price spikes (2003) and when Empire was allowed an FAC (2008). The Company policy has never changed and its hedging practices have never changed. **** Empire consistently, hedged 10% of year four expected burn, 20% of year three burn, 40% of year two burn and 60% of year one expected burn. **** If a company like Empire is hedging greater than **** 60% **** of its gas needs then its hedging program is a budgeting forecaster, not a price spike mitigator.

Secondly, without highly volatile natural gas prices, this method of hedging becomes very transparent for its simplicity and cost to the ratepayer. When the hedging strategy section of the RMP is reviewed it is clear that this hedging method is a “lock and leave” approach where there is no real strategy and no loss limits or market considerations to

¹⁰ Quote from page 2 of this testimony. *State ex rel. Associated Natural Gas Co. v. Public Service Commission of State of Missouri*, Western District Court of Appeals summarization

1 guide the decision making. The policy is non-discretionary and should be considered
2 imprudent on its execution alone.

3 **Q. Could you explain the “lock and leave” strategy?**

4 **A.** In the case of Empire’s policy, the company has a predetermined minimum percentage of
5 its expected volume that it will hedge. As this portion of its Hedging Strategy section
6 illustrates:

7 The electric segment will utilize the following procurement guidelines:

8 ** Hedge a minimum of 10% of year four expected gas burn
9 Hedge a minimum of 20% of year three expected gas burn
10 Hedge a minimum of 40% of year two expected gas burn
11 Hedge a minimum of 60% of year one expected gas burn
12
13

14 The SMG will have the flexibility to hedge up to 100% of the current
15 year and 80% of any future year’s expected requirements while
16 remaining cognizant of volume risk. The 80% guideline is an annual
17 target and volumes up to 100% can be hedged in any given month. For
18 years beyond year four, additional factors of long term uncertainty in
19 required volumes, counterparty credit, etc. should also be considered.
20

21 (By December 31 of current year we should have a minimum of 60%
22 of the next years projected gas burn hedged.) **
23

24 Empire’s policy is to hedge four years ahead for any given period by hedging a set
25 amount of volume for years 1, 2, 3 and 4. As these instructions point out, the prescribed
26 percentages should be transacted by the year end. After reviewing its records I have
27 found that the Company practice is to lock in purchases for year one much earlier than
28 year end. There are no considerations other than volume and no instructions for adverse
29 market conditions, budgets or losses. There is flexibility to hedge more volume but not
30 less so at least the minimum amount is locked in and left in place to accept the prevailing
31 market conditions. The problem is that the market conditions, that may have been
32 favorable for hedging when this policy was first set in place in 2001, were not favorable

1 for this kind of programmatic hedging once the market settled and prices began declining.
2 The results became even more exasperated by purchasing years in advance.

3 **Q. Empire's hedging strategy seems pretty straight forward and they have been**
4 **executing this strategy for 16 years. What specifically makes this an imprudent**
5 **practice?**

6 **A** A finding of imprudence is due to the combination of natural gas price decline with
7 extremely long range (four years or greater) gas purchases at prices well above current
8 and forecasted prices. As I pointed out earlier in testimony, prices have been declining
9 for years and the major factor for this is the increased production causing near record
10 storage. Merriam Webster's Dictionary defines imprudent as "not prudent: lacking
11 discretion, wisdom, or good judgment, an imprudent investor"¹¹

12 Empire recognized that prices were declining at least as early as 2009¹² yet it was still
13 placing hedges 18-36 months in advance. In a prime example of the Company's lock and
14 leave hedging strategy: in December of 2011, Empire hedged over **** 1 million**
15 **Dekatherm ("Dth") (11% of expected volume) to be delivered in 2015 at \$5.44**
16 **MMBtu.** ** (see Schedule JSR-D-3). I am mindful that the prudence standard imposes
17 "... reasonable at the time, under all the circumstances, considering that the company had
18 to solve its problem prospectively rather than in reliance on hindsight", but in December
19 of 2011, natural gas was \$3.17.¹³

20 Natural gas had not been above \$5.00 since February of 2010. At the time, storage levels
21 were 12% above the 5 year average. The monthly average price for gas in 2011 had been
22 falling nearly every month and December was the lowest average price of the year. The

¹¹ Merriam-Webster Dictionary, <https://www.merriam-webster.com/dictionary/imprudent>.

¹² See quote from EW-2013-0101

¹³ \$3.17 was the monthly average price on the Henry Hub reported by EIA

1 December 2011 EIA Short Term Energy Outlook report revised the upcoming 2012 spot
2 prices downward from their predictions from a few months before.¹⁴

3 A reasonable person under these circumstances would not purchase gas for a price not
4 seen in almost two years, to be delivered more than three years down the road. At the
5 time, Empire paid \$5,494,400 for fuel that in 2015 (more than two years later) would
6 have cost \$2,565,400. The loss of \$2,929,000 doubled the price and left it to the
7 ratepayer to foot the bill for decisions that lacked discretion, wisdom or good judgment
8 while Empire enjoyed an FAC that ran those costs, along with interest, through to the
9 ratepayer in less than six months.¹⁵ This indeed was cost minimization to Empire
10 because it absorbed very little of this cost.

11 This is not an isolated incident. OPC attached the Company's gas summary reports for
12 every month of the prudence review as JSR-D-4. These reports show the Company lost
13 money in every month it hedged.¹⁶

14 **Q. What was the full impact of the financial hedging losses for the prudence review**
15 **period?**

16 **A.** OPC concurs with Staff witness Ashley Sarver and finds that the financial hedging losses
17 were \$10,712,168 but OPC disagrees with Staff's calculations concerning the total
18 amount of hedging losses and the calculation of the true amount of natural gas fuel costs
19 during the 18 month period.

20 **Q. How did OPC calculate fuel costs?**

21 **A.** OPC doesn't question any of the Staff calculations but would rather point out that there is
22 a difference between actual natural gas fuel and other costs that may be accounted for as

¹⁴ December 2011 EIA Short Term Energy Outlook page 1

¹⁵ \$2.54 was used from the June 30, 2015 Company Gas Position Summaries to
calculate the differences

¹⁶ Empire did not hedge in 1 of the 18 months.

1 a natural gas fuel expense. Hedging transactions are specific to just the cost of the
2 natural gas commodity. The Company does not hedge firm transportation, commodity
3 charges or miscellaneous fees. Hedging gains or losses should be reviewed against only
4 natural gas commodity costs.

5 In the Sixth Prudence Review of Costs, Staff summarized the hedging review with:

6 ...a hedging loss on natural gas derivatives of \$10,712,168. This
7 represents approximately fifteen percent of Empire's total natural gas cost
8 of \$69,301,828 for the review period.¹⁷

9 The \$69 million represents all natural gas fuel costs lumped together. When all of the
10 non-fuel expenses are subtracted, the actual natural gas fuel costs are \$49,677,485. When
11 financial hedging losses are compared to actual fuel costs, the cost of hedging is 21.56%
12 of natural gas fuel costs. This 21.56% premium paid by Empire's ratepayers is just the
13 premium paid on financial hedges and does not include the premium paid on physical
14 hedges.

15 **Q. Has OPC calculated a higher amount of total hedging losses than Staff?**

16 **A.** Yes. Financial hedges are the losses that are actually recorded in FERC Account 547 but
17 the Company did more than NYMEX Swaps and Futures. In most months the Company
18 also hedged the price of natural gas through forward contracts. They negotiated contracts
19 sometimes several years in advance just like they did with the financial derivatives. The
20 financial hedging and physical hedging are broken out in separate sections on the Gas
21 Position Summary Reports that are attached to this testimony. Financial hedging is
22 recorded on the general ledger, however, physical hedges are not required to be
23 separated.

24 To isolate the cost of physical hedges, I used the Company's answer to Staff data request
25 number 31 to calculate the cost of physical hedging for each month in the review period.
26 I have attached the spreadsheet as Schedule JSR-D-5. In this spreadsheet, the Company

¹⁷ Page 16 of the Staff Report

1 separated the true cost of natural gas by subtracting derivative losses and transportation
2 charges. Dividing that total by the amount of natural gas consumed provides the natural
3 gas cost/MMBtu. To calculate the cost of physical hedges, I inserted the spot market
4 price that the Company paid in each month just below the cost/MMBtu line. This amount
5 was generated from the monthly gas purchase report the Company submits each month as
6 part of its FAC reporting requirements. Multiplying the spot price with the amount
7 consumed provides the completely unhedged cost of natural gas for each month.
8 Subtracting the "cost at spot price" from the "net actual commodity cost" determines the
9 physical hedging total for each month. The sum of the physical hedging for the prudence
10 review period is \$6,073,353. Adding the physical hedges with the financial hedging
11 losses and the total amount of hedging losses for the 18 month prudence period is
12 \$16,785,521 of which \$13,104,811 is attributable to Missouri ratepayers.

13 I explained earlier that the actual fuel cost from Staff's \$69 million fuel expense was
14 \$49,677,485. The physical hedging of \$6,073,353 is included in the \$49 million because
15 physical hedging is not required to be separated from the purchase price. The actual
16 unhedged cost of natural gas for the period should be \$43,604,132. Staff reported that
17 hedging losses represented 15% of Empire's total natural gas cost. When in actuality,
18 Empire's hedging losses which were passed to the customers through the FAC represent
19 38.5% of actual natural gas fuel costs.¹⁸

20 **Q. Can you summarize the argument for imprudence?**

21 **A.** Empire's hedging is inefficient, ineffective, inflexible and very much imprudent.
22 Empire developed its hedging policies in 2001 in a volatile natural gas market. The
23 natural gas market has changed significantly but Empire's hedging strategy, by its own
24 admission, has not changed at all.

¹⁸ \$16,785,522/\$43,604,132

1 When considering all the information that the Company had or should have had at its
2 disposal, coupled with the rigid, 16 year old hedging policy that has not changed with the
3 market's low gas prices and the adoption of an FAC, the Commission should find these
4 transactions imprudent and return these imprudent hedging costs back to its customers
5 with interest.

6 **Q. Does this conclude your direct testimony?**

7 **A. Yes it does.**



U.S. Energy Information
Administration

NATURAL GAS

OVERVIEW DATA ANALYSIS & PROJECTIONS

GLOSSARY FAQs

Referring Pages:

- Natural Gas Futures Prices (NYMEX)

View History: ☐ Daily ☐ Weekly ☒ Monthly ☐ Annual

Download Data (XLS File)

Henry Hub Natural Gas Spot Price

DOWNLOAD

Dollars per Million Btu

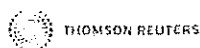
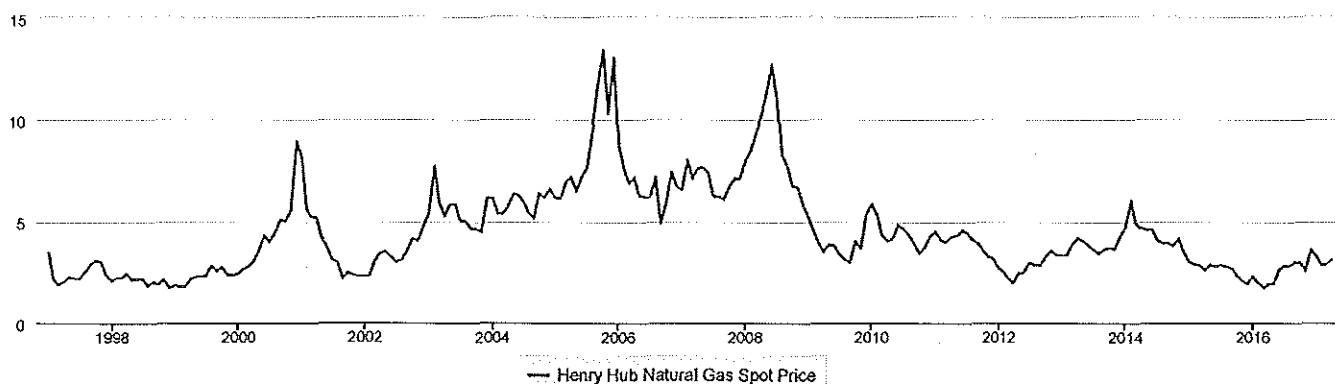


Chart Tools

no analysis applied ☒

This series is available through the EIA open data API and can be downloaded to Excel or embedded as an interactive chart or map on your website.

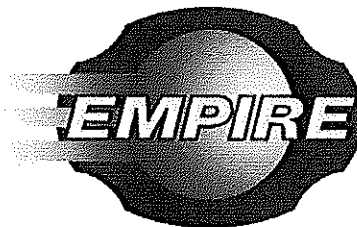
Henry Hub Natural Gas Spot Price (Dollars per Million Btu)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1997	3.45	2.15	1.89	2.03	2.25	2.20	2.19	2.49	2.88	3.07	3.01	2.35
1998	2.09	2.23	2.24	2.43	2.14	2.17	2.17	1.85	2.02	1.91	2.12	1.72
1999	1.85	1.77	1.79	2.15	2.26	2.30	2.31	2.80	2.55	2.73	2.37	2.36
2000	2.42	2.66	2.79	3.04	3.59	4.29	3.99	4.43	5.06	5.02	5.52	8.90
2001	8.17	5.61	5.23	5.19	4.19	3.72	3.11	2.97	2.19	2.46	2.34	2.30
2002	2.32	2.32	3.03	3.43	3.50	3.26	2.99	3.09	3.55	4.13	4.04	4.74
2003	5.43	7.71	5.93	5.26	5.81	5.82	5.03	4.99	4.62	4.63	4.47	6.13
2004	6.14	5.37	5.39	5.71	6.33	6.27	5.93	5.41	5.15	6.35	6.17	6.58
2005	6.15	6.14	6.96	7.16	6.47	7.18	7.63	9.53	11.75	13.42	10.30	13.05
2006	8.69	7.54	6.89	7.16	6.25	6.21	6.17	7.14	4.90	5.85	7.41	6.73
2007	6.55	8.00	7.11	7.60	7.64	7.35	6.22	6.22	6.08	6.74	7.10	7.11
2008	7.99	8.54	9.41	10.18	11.27	12.69	11.09	8.26	7.67	6.74	6.68	5.82
2009	5.24	4.52	3.96	3.50	3.83	3.80	3.38	3.14	2.99	4.01	3.66	5.35
2010	5.83	5.32	4.29	4.03	4.14	4.80	4.63	4.32	3.89	3.43	3.71	4.25
2011	4.49	4.09	3.97	4.24	4.31	4.54	4.42	4.06	3.90	3.57	3.24	3.17
2012	2.67	2.51	2.17	1.95	2.43	2.46	2.95	2.84	2.85	3.32	3.54	3.34
2013	3.33	3.33	3.81	4.17	4.04	3.83	3.62	3.43	3.62	3.68	3.64	4.24
2014	4.71	6.00	4.90	4.66	4.58	4.59	4.05	3.91	3.92	3.78	4.12	3.48
2015	2.99	2.87	2.83	2.61	2.85	2.78	2.84	2.77	2.66	2.34	2.09	1.93
2016	2.28	1.99	1.73	1.92	1.92	2.59	2.82	2.82	2.99	2.98	2.55	3.59
2017	3.30	2.85	2.88	3.10								

THE EMPIRE DISTRICT ELECTRIC COMPANY

ENERGY RISK MANAGEMENT POLICY

January 14, 2015



Services You Count On

**THE EMPIRE DISTRICT ELECTRIC COMPANY
ENERGY RISK MANAGEMENT POLICY**

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1 STANDARDS OF OVERALL COMPANY PROGRAM

INTRODUCTION

The purpose of the Energy Risk Management Policy (RMP) document is to define the approach and internal rules that The Empire District Electric Company (Company) will utilize to manage its power and natural gas commodity risk. The content of this document establishes and describes the Company policy in assuming, assessing, and controlling the level of natural gas commodity and power price risk exposure involved in the Company's core business activities.

OBJECTIVES

It is the policy of the Company NOT to engage in financial or commodity transactions unless they are related to the procurement of natural gas or power for end-use customers or minimizing the overall cost for end-use customers. It is the express intention of the Company to prohibit financial or physical commodity transactions that would reasonably be considered outside of the Company's core business activities.

The following are specific RMP objectives for the Company that represents a balanced financial and operational focus:

OBJECTIVE #1

Provide an organizational structure to support management goals and budget performance by mitigating energy price volatility and; hence, limiting fluctuations in the cost of supplying energy to retail customers.

The RMP provides an organizational structure for effectively assessing and managing risk associated with the Company's natural gas supply for fuel, commodity sales and wholesale power activities. It provides a framework for effective control, audit, and reporting. The procedures set forth allow for the management of operational risks without placing undue restrictions on the operations of the Company.

OBJECTIVE #2

Allow utilization of physical and financial tools to provide a predictably priced reasonable cost gas-supply.

For the electric segment the cost to generate, purchase, and sell power is greatly impacted by fluctuations in the market price of energy sources such as coal, natural gas, oil, and wholesale electricity. This RMP outlines procedures on how hedge positions will be employed to limit these market fluctuations in the price of natural gas and provide the Company with tools to manage expenses to generate, purchase, and sell power on behalf of its customer base.

For the gas segment, the cost of natural gas supplies is greatly impacted by fluctuations in the market price of natural gas. This RMP outlines procedures on how hedge positions will be employed to limit these market fluctuations and provide the Company with tools to manage price volatility with regards to the purchase and supply of natural gas for its customer base.

OBJECTIVE #3

Allow utilization of physical and financial tools to provide a predictably priced reasonable cost power-supply.

For the electric segment the cost to provide power is impacted by fluctuations in transmission congestion due to limitations on the physical grid. This RMP outlines procedures on how the company will utilize financial rights that are awarded based on investment in the transmission system to limit exposure and provide value to the customer base.

2. RESPONSIBILITY FOR ENERGY RISK MANAGEMENT POLICY

The Officer Group as listed below is responsible for maintaining and overseeing the RMP:

The Officer Group is comprised as follows:

- President and CEO
- Vice President - Finance and CFO
- Vice President/COO – Gas
- Vice President/COO - Electric
- Vice President - Energy Supply
- Vice President - Commercial Operations

From time to time, the Officer Group will report to the Board of Directors on the risk management activities surrounding natural gas and power risk. Officer Group activities shall include:

- Providing the Risk Management Oversight Committee (RMOC) authorization to engage in those activities consistent with prudent risk management and related trading practices which correlate with serving customers energy needs for both the electric and gas segments;
- Recognizing financial instruments such as futures, swaps, options, Auction Revenue Rights, Transmission Revenue Rights, and Financial Transmission Rights as well as financial and physical market position management, can be effective transaction tools; and
- Providing sufficient management involvement, financial controls, and systems to monitor, report, and ensure the integrity of the RMP at all levels.

RISK MANAGEMENT OVERSIGHT COMMITTEE

The RMOC is charged with monitoring aggregate risks and ensuring they are managed in accordance with the RMP. The RMOC will meet periodically to assess aggregate risks and review EDE's market positions and exposures and strategy.

The RMOC is comprised as follows:

Chairman

Vice President - Finance and CFO

Members:

Vice President/COO – Gas

Vice President/COO - Electric

Vice President - Energy Supply

Controller and Assistant Treasurer and Secretary

Director of Supply Management

Non-Voting Internal Control Members:

President and CEO (see exceptions at Appendix 12)

Director of Internal Audit

Manager of Fuel & Revenue Accounting

Manager of Gas Supply

Manager of Market Operations
Manager of Market Settlements & Systems
Supply Management Specialists (Specialists)
Planning Analyst – Supply Management

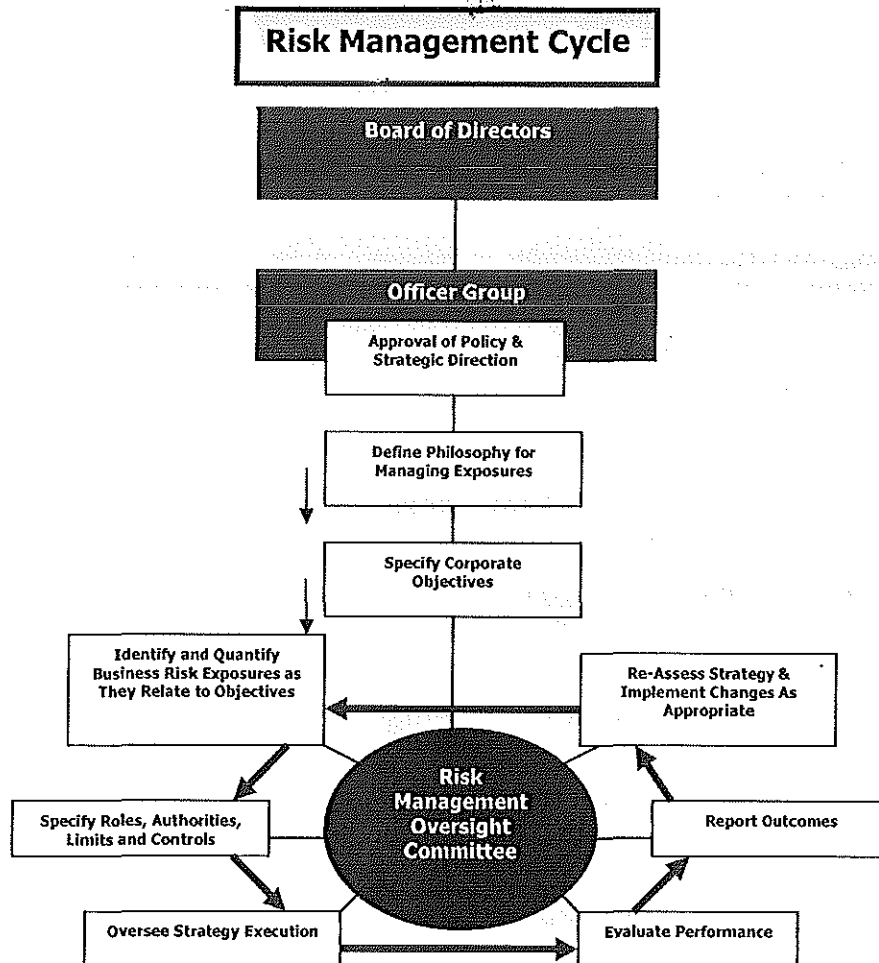
RMOC RESPONSIBILITIES

- **Approve Hedging Strategies** - Develop and approve strategies that achieve risk management objectives.
- **Individual Trading Authorization** - Approve a list of individuals authorized to establish trading relationships and execute trades. The hierarchy of oversight will include opening futures accounts, executing International Swap Dealer Association (ISDA) master agreements, placing futures orders, and entering into transactions per a master swap agreement. (See Appendix 12: Supply Management Specialist Authorization.)
- **Approve LTCR/ARR/TCR/FTR Procurement Strategies** – Approve strategies that mitigate transmission congestion exposure and provide value to the customer base.
- **Set Transaction Exposure Limits** - Approve limits on volumes and length of coverage of all outstanding physical, financial, virtual, futures, options, and Over-the-Counter (OTC) positions.
- **Ensure Credit Approval and Documentation** - The credit approval/ monitoring process is described in Appendix 1: Credit Risk / Procedures Policy.
- **Establish Procedures and Develop Reporting Systems** - Ascertain appropriate checks and balances are in place and financial reporting is correct.
- **Establish Approved Counterparty List** - Establish an approved counterparty trading list.

Any member of the RMOC has authority to call committee meetings and the responsibility to ensure that all activities are in accordance with this program. The committee may meet in person, through telephone conference calls, and/or electronic mail. The RMOC secretary (who is not a member of the RMOC) will keep regular minutes and records of meetings and actions.

At any time a RMOC member believes the committee has failed to adequately address a situation in which the member believes price or credit speculation is taking place, that member shall submit a written statement describing the concern to the President and CEO or the Director of Internal Audit.

RMOC CYCLE



3 RISK

COMPANY/CUSTOMER EXPOSURE

Effective September 1, 2008, the electric segment was granted a fuel adjustment clause (FAC) for its Missouri customers. The FAC allows the electric segment to recover/refund 95% of prudent fuel and purchased power costs versus a base rate established in rate case ER-2008-0093 and any future rate cases. The Company/Customer's exposure spans activity in both the physical fuels market and the financial derivative markets that have developed to accommodate natural gas and power. Without risk management, the Company will be subject to cost and pricing uncertainty, as well as uncertainty in meeting budgeted earnings and cash flow.

The primary components of the Company/Customer's risk exposure are operations risk, market risk, and credit risk. The RMP is designed to address the management of these risks in the aggregate.

Individual transactions for the electric segment and for the gas segment shall be transacted for the benefit of each party.

OPERATIONS RISK

The potential increased cost for items such as: changes in load or generation capabilities, providing replacement power and natural gas due to the unscheduled outage of generation plants, interruptions of power purchases from other parties, or interruption of gas supply.

MARKET RISK

The potential change in value of a commodity contract, liability, or cash flow caused by adverse fluctuations in market factors over a pre-defined holding period. Types of market risk include:

- **Price Risk** - Uncertainty associated with changes in the price level of power costs and commodity fuel costs.
- **Liquidity Risk** - Risk associated with the diminished market activity of a fuel commodity or transmission congestion instrument.
- **Volume Risk** - Supply or demand deviation from forecast (for example, the risk of not having enough or having too much natural gas to meet forecasted obligations). Volume risk is highly correlated with price risk because availability of wholesale electricity and natural gas is high and priced low when the weather is mild causing reduced volume need. Conversely, when weather is extreme causing an increase in our underlying needs, the price of wholesale electricity and natural gas may increase exponentially.
- **Calendar Risk** - Exposure due to time differential in commodity value between actual physical delivery and financial position expiration.
- **Basis Risk** - Exposure due to a difference in commodity value between different delivery points or markets, between cash market prices and the pricing points used in the financial markets, or the difference in the marginal congestion component between different settlement locations.

COUNTERPARTIES/CREDIT RISK

Managing credit/counterparty risk exposure is an important component in EDE's overall risk management program. The Company/Customer's exposure is different when transacting in clearinghouses, marketplaces, or OTC counterparts.

The creditworthiness of trading partners or clearinghouses is a function of both qualitative and quantitative factors. Such factors are centered on the credit rating assigned to a company by major credit rating services and an evaluation of the company's ability to financially meet its obligations to the Company. Typical sources of credit-related information are credit rating reports (published by one or more of the

commonly recognized rating agencies, such as Dunn & Bradstreet, Standard & Poor's, or Moody's), general market intelligence, electronic news releases, and other public information sources. Based on these resources, the RMOC will provide oversight as to each approved counterparty's credit exposure limit.

Credit risk associated with maintaining an account with a futures clearinghouse is considerably less than that with OTC counterparts. This distinction exists because the collective clearinghouse members of NYMEX, which includes virtually every major energy company and financial institution in the country, guarantee the performance on all positions placed on the exchange. Requiring margin deposits and daily mark-to-market by clearinghouse members allows for incremental monitoring and control of transactions and eliminates the potential for sudden defaults on contracts.

Credit risk associated with SPP Market Participant (MP) default is considerably less than that with OTC counterparts. This distinction exists because the collective members of SPP share in the costs of the default by any one member. Furthermore, SPP performs a daily calculation of a Total Potential Exposure and a total TCR credit requirement for each market participant, allowing for incremental monitoring and control of transactions and eliminates the potential for sudden defaults on contracts by market participants. Additionally, SPP's TCR credit requirement is secured through a cash deposit or Irrevocable Letter of Credit¹. This financial security is maintained for TCR activity and is not included in the Total Potential Exposure determination, but is reflected in the determination of whether there is a Total Potential Exposure violation.

ESTABLISHING CREDIT RESPONSIBILITIES

As defined in Appendix 1 - Credit Risk / Procedures Policy, establishing limits and creditworthiness monitoring will be done independent of the trading function and will be performed by the Manager of Fuel Accounting (MAF) in Finance (with oversight by the RMOC), in order to guarantee appropriate segregation of duties within the Company. All trading activity with a particular counterparty who no longer meets the Company's credit standards will be halted. A Counterparty Credit Exposure Report will be included as part of the weekly Gas Position Report described later. The report will summarize the total amount of exposure by counterparty by hedging instrument based on current mark-to-market amounts.

4. HEDGE STRATEGY

Electric Segment

Prior to September 1, 2008, the electric segment's Missouri retail rates were not subject to a fuel cost adjustment clause. Effective September 1, 2008 regulators granted a fuel adjustment clause (FAC) for recovery/refund of 95% of prudent fuel expenses versus a base rate established in rate case ER-2008-0093 and any future rate cases.

¹ Appendix X Article 7; SPP Credit Policy

The Missouri FAC allows Empire to recover 95% of under-recovered prudent fuel expenses and return to customers 95% of any over-recovered prudent fuel expenses versus a base rate. Costs eligible for the FAC will be the total fuel costs as allocated to Missouri for fuel consumed in generating units, including the costs associated with fuel hedging programs; purchased power costs excluding demand costs; and the net of ARR/TCR/FTR activity as well as emission allowance costs and revenue. These costs will be off-set by sales activity in the SPP Integrated Marketplace.

Actual costs will be accumulated during the 6 month Accumulation Period. These costs will be used to determine the Cost Adjustment Factor (CAF) that will be filed with the Missouri Public Service Commission and upon their approval will be applied to retail customer billings during the appropriate Recovery Period.

The electric segment's strategic focus addresses the volatility of natural gas prices by attempting to protect against volatile natural gas costs for the electric segment's plants. The electric segment will apply risk management strategies in an attempt to lessen the risks associated with variances in the volume of fuel consumed relative to budgeted fuel consumption volume.

The electric segment's specific hedge strategy goals are to provide for predictable fuel and purchased power costs over a multi-year period and to provide a framework to allow for management of its risk positions.

The RMP is designed to provide the Supply Management Group (SMG) with a more comprehensive set of tools to mitigate the adverse impacts associated with changing natural gas or wholesale electricity prices.

Risk management strategies involve an active "mark-to-market" assessment of market conditions to match its supply portfolio to its portfolio of retail and wholesale activity.

In effect, these strategies set out to determine how much market risk is reasonable to best minimize costs and volatility, while still providing the electric segment with reasonable fuel costs.

An overview of the electric segment's hedging targets for natural gas is outlined below.

At least yearly, the electric segment will model its electric system with a production cost model to establish an expected gas burn for each of the next four years. This budgeted gas burn will be developed utilizing a consistent methodology as that utilized in the Company's financial projections.

From time to time as conditions change (i.e. unit outages, gas commitments, purchase power prices), the SMG shall assess the electric segment's system to establish a new "expected" gas burn for market participation.

For the electric segment's purposes hedging includes physical forward purchases, physical management tools such as pipeline imbalance tariffs, park and loan, interruptible storage, OTC swaps and exchange traded financial contracts.

Firm storage, due to inherent injection and withdrawal restrictions and requirements to reduce inventory levels during certain periods of the year, will be considered as operational (daily balancing and reliability tool for the electric segment) and not part of the hedging plan. Although there will be occasions when favorable market conditions exist and gas will be purchased and put into firm storage, this cannot be predicted and built into the hedging plan.

The electric segment will utilize the following procurement guidelines:

- Hedge a minimum of 10% of year four expected gas burn
- Hedge a minimum of 20% of year three expected gas burn
- Hedge a minimum of 40% of year two expected gas burn
- Hedge a minimum of 60% of year one expected gas burn

The SMG will have the flexibility to hedge up to 100% of the current year and 80% of any future year's expected requirements while remaining cognizant of volume risk. The 80% guideline is an annual target and volumes up to 100% can be hedged in any given month. For years beyond year four, additional factors of long term uncertainty in required volumes, counterparty credit, etc. should also be considered.

(By December 31 of current year we should have a minimum of 60% of the next years projected gas burn hedged.)

This progressive dollar cost averaging approach is intended to protect our customers and shareholders from volatility in the marketplace. In addition, the progressive approach allows for increasing uncertainty of gas needs inherent in forecasting events occurring further in the future.

If changes in expected gas burns occur that make us more than 100% hedged in any given month, appropriate steps will be taken following consideration of accounting guidance and review by the RMOC. Given that there is some uncertainty in our modeling efforts, an over-hedged position of 50,000 MMBtu's or less would generally not be considered material and not subject to action.

Gas Segment

The gas segment's Missouri retail rates are subject to a fuel cost adjustment clause. The gas segment is permitted to file an Actual Cost Adjustment (ACA) once a year which also includes a Purchased Gas Adjustment (PGA) filing. In addition to the ACA filing, three more optional PGA filings are allowed during the year. The gas segment's ACA year is from September 1 thru August 31 for each year. For purposes of the following discussion, a hedging year will coincide with the ACA time period.

Specific hedge strategy goals are to provide for predictable natural gas costs over a multi-year period and to provide a framework to allow the gas segment to manage price volatility for its customers.

The RMP is designed to provide the SMG with a more comprehensive set of tools to mitigate the adverse impacts associated with changing natural gas prices.

In effect, these strategies set out to determine how much market risk is reasonable to prudently minimize price volatility, while still providing the gas segment's customers with reliable and reasonably priced natural gas supply.

An overview of the gas segment's hedging targets for natural gas is outlined below.

At least yearly, the gas segment will model its natural gas systems with a natural gas usage model to establish expected natural gas usage for each of the next five years. This budgeted gas usage will be determined in a consistent manner with that utilized in the Company's financial projections.

From time to time as conditions change (i.e. new load profiles, new customers, plant expansions, plant closings), the SMG shall re-model the gas system to establish a new "expected" gas usage for native load.

The definition of the word "hedge" in this section shall be defined as including physical gas purchases, storage, as well as financial instruments.

The gas segment will utilize the following procurement guidelines to be implemented by the beginning of each hedge year:

- Hedge a minimum of 50% of year one's expected gas usage.
- Hedge up to 50% of year two's expected gas usage.
- Hedge up to 20% of year three's expected gas usage.

The SMG will hedge a minimum of 70% and have the flexibility to hedge up to 90% of each winter period's (November thru March) expected requirements while being cognizant of volume risk.

If changes in expected gas burns occur that make us more than 100% hedged in any given month, appropriate steps will be taken to reduce our hedged position to 100% or less following consideration of accounting guidance and review by the RMOC. Given that there is some uncertainty in our modeling efforts, an overhedged position of 50,000 MMBtu's or less would generally not be considered material and not subject to action.

The dollar cost averaging approach is intended to protect our customers from price volatility in the market place.

5. INTERNAL CONTROLS

Internal controls are essential in ensuring adherence to the RMP and include the authorization of acceptable instruments, limits, and credit standards. Additional checks and balances including segregation of departmental duties, market position monitoring, and a management reporting structure should be in place to verify and reconcile the

integrity of the Company's risk management activity results. The Company's accounting policies and key controls relating to our hedging program are detailed in the Power & Fuel Cycle section of our Sarbanes/Oxley documentation.

SEGREGATION OF DEPARTMENTAL RESPONSIBILITIES

An appropriate segregation of duties is fundamental in controlling the Company's risk management operations and includes activities such as approvals, verifications, and reconciliations. A clear separation between transacting, credit review and approval, margining and cash settlements, and accounting has been established with respect to the RMP.

The SMG, Finance, and Internal Audit are the departments most directly impacted by energy supply risk management activities.

AUTHORIZATION PARAMETERS

INSTRUMENTS

A primary responsibility of the RMOC is the review and approval of tools acceptable for implementation of the risk management strategy.

The various hedging instruments that the Company is authorized to use by this RMP is described as follows:

- **Physical Forward Contract** - Contract for future physical delivery of a designated quantity of a fuel source or power supply at a designated price, time, and location. Physical forward contracts obligate both the buyer and seller to accept the agreed-upon price, regardless of the market price when the delivery takes place. . All physical forward contracts are intended to constitute a normal purchase normal sale transaction as defined in Accounting Standard Codification 815-10-15 (25-39) (formerly FASB 133 paragraph 10). A normal purchase normal sale contract is one that provides for the purchase or sale of something other than a financial instrument that will be delivered in quantities expected to be used or sold over a reasonable period in the normal course of business. These also comply with the normal purchase normal sale criteria for tax per IRS Regulation §1221(b)(2).
- **Futures Contract** - Standardized binding agreement to buy or sell a specified quantity or grade of a commodity at a later date. Futures contracts are freely transferable, can be traded exclusively on regulated exchanges, and are settled daily based on their current value in the marketplace.
- **Put Option / Call Option** - Contract giving the holder the right, but not the obligation, to purchase or sell the underlying futures contract at a specified price within a specified period of time in exchange for a one-time premium payment. The contract also requires the writer, who receives the premium, to meet these obligations. (Use of these instruments in a manner that precludes them from falling under hedge accounting treatment is prohibited.)

- **OTC Instrument** - Any financial or physical instrument that is customized and created by a counterpart to replicate the risk profile associated with a commodity. The OTC swap is a contractual agreement between two parties to exchange a series of cash flows, for a stipulated period of time, based on agreed-upon parameters and price fluctuations in some underlying commodity or market index. There is a monthly settlement price, which is the difference between the fixed price of the contract and the index price in the publication for that month's date. If the index price for the delivery period is higher than the fixed price of the OTC contract, then the seller pays the buyer the difference. If the index price is lower, the buyer pays the seller the difference. This policy approves the use of OTC forwards and options for natural gas and power. Power examples include: 5x16, 7x24, 5x8, 2x24, 7x8, 1x16, etc. (Use of these instruments in a manner that precludes them from falling under hedge accounting treatment is prohibited.)
- **LTCR/ARR/TCR/FTR** - A financial instrument utilized to hedge the difference in the price of congestion between two settlement locations. An LTCR is a long-term (10 year minimum) congestion right providing a full year TCR into perpetuity with roll-over ability. An LTCR allocation is held prior to the ARR allocation and any awarded or retained LTCRs are automatically converted into TCR products which may either be held or sold for congestion management. An ARR is a financial right, awarded during the annual or monthly ARR allocation process that entitles the holder to a share of the auction revenues or charges generated in the applicable TCR/FTR auction. The ARR holder may then sell or self-convert/self-schedule the ARRs into TCR/FTR during the annual or monthly TCR/FTR auction. ARRs are either seasonal or monthly in duration and are either on or off-peak products. ARRs are priced per auction and settled daily with monthly and annual true-ups. A TCR/FTR is defined as a financial right that entitles the holder to a share of the Day-Ahead Marginal Congestion Component price differential between two specific settlement locations. TCR/FTRs are either seasonal or monthly in duration and are either on or off-peak products. TCR/FTRs are priced hourly and settled daily with monthly and annual true-ups. ARRs and TCRs may have negative or positive values. ARRs and TCRs may be underfunded hence may be valued more or less than the underlying asset. ARR, TCR, and FTR procurement will occur on paths native to Empire's source/sink settlement locations. Empire may seek to obtain a TCR/FTR on a foreign path in the event that Empire is both 1) unable to secure a TCR/FTR to mitigate all or a portion of its expected congestion for a native path and 2) able to provide sufficient analysis demonstrating a high level of correlation with a path foreign to Empire's source/sink settlement locations.
- **Virtual Bids/Offer** - A proposal by a Market Participant to purchase or sell a specified quantity of energy at a specific price, settlement location, and period of time in the Day-Ahead market that is not associated with a physical resource or load. Virtual transactions are strictly financial and provide an opportunity to hedge physical load or generation. Empire may only seek a virtual bid or offer if the following conditions exist and/or are met: 1) uncertainty with expected load or physical supply (which will be logged daily in the *DA Operation Strategy Log*), 2) both source and sink settlement locations are native to Empire's load and generation.

3) MW volume is less than or equal to the corresponding generator limits and/or day-ahead forecasted load (with consideration for forecasting error)

- **Demand Bid** – A set of price/quantity pairs that represent the financial offer to purchase energy from the Day-Ahead market at a specific settlement location and period of time. Demand bids are strictly financial and provide an opportunity to clear physical load in the Day-Ahead market. Empire may bid in energy demand in an amount not to exceed the forecasted load for the associated operating day, with consideration for forecasting error.
- **Bilateral Settlement Schedules** – A bilateral settlement schedule is a financial agreement between two market participants designating a purchaser and seller of an energy amount and settlement location for energy transactions or a purchaser and seller of an obligation percentage and reserve zone for operating reserve obligation transfer transactions. Empire may participate in a bilateral settlement schedule as a purchaser in an amount not to exceed the forecasted load for the associated operating day and only at native Empire sink settlement location(s). Empire may participate in a bilateral settlement schedule as a seller only at native Empire source settlement locations.
- **Import Transaction / Export Transaction** – An import transaction or export transaction is a proposed interchange transaction to purchase an amount of energy for delivery into or outside the SPP balancing authority at a specified location and period of time, respectively.

LIMITS

AUTHORIZED TRADERS AND TRADING LIMITS

- **"Round Trip" Trades Prohibited** - "Round trip" transactions shall be strictly prohibited. Round trip transactions, as used herein, refer to simultaneous (or nearly simultaneous) energy purchases and sales of equal duration, price and volume in an attempt to influence the market. Employees engaging in such transaction shall be subject to progressive discipline up to and including termination of employment.
- **Off-Premise Trading** - Off-premise trading is not allowed. In the event of limited staff, one-time trades may be done off-premise with the approval of a senior officer.

Authorized traders, along with approval and transaction limits, are listed in Appendix 12.

TRAINING

AUTHORIZED TRADER TRAINING

- **Market Participant Training** - All authorized traders transacting in markets or services provided pursuant to the SPP Tariff will receive, applicable annual training with regard to their participation under the Tariff as a condition of being authorized to transact on behalf of EDE.

6. **POSITION REPORTING**

GAS POSITION REPORT

The Gas Position Report contains a list of all open and recently closed transactions for the Company's trade-based activity and serves as a crucial element of RMP control and management. The Gas Position Report has multiple applications for risk management review that includes account transaction tracking and evaluation as well as overall performance evaluation.

The Gas Position Report is updated as transactions occur and distributed weekly by the SMG. Its primary objectives are:

- Allow for marking individual transactions to market;
- Provide data for transactions as well as portfolio analysis; and
- Simplify accounting and program results evaluation through analysis of the closed positions list.

CONGESTION POSITION REPORT

The Congestion Position Report contains the MW and \$/MWh positions of all existing TCR/FTRs by: period (on-peak, off-peak), source and sink, and month. The Congestion Position Report will be created after the annual TCR/FTR auctions and will be updated monthly to include the monthly auction positions. The Congestion Position Report will include:

- Market value of TCR's/FTR's (TCR/FTR auction price if self-converted/self-scheduled)
- Percentage of TCR/FTR eligibility auctioned

MARK-TO-MARKET

All positions will be mark-to-market (using the appropriate NYMEX prices or other suitable market indicator as defined by the underlying contract) weekly or as determined by the RMOG on the Gas Position Report by the SMG. This analysis is performed to appropriately reflect the current value and cash flows associated with open positions and to provide timely information regarding the Company's market risk and exposure.

The SMG is responsible for updating the current market information in mark-to-market calculations through the Gas Position Report, with Finance performing a subsequent review as a check on this report's accuracy. On certain OTC positions, it may be difficult to obtain an accurate mark-to-market value. In these instances, the SMG will provide the best estimate of values and will identify the source and reliability of the data.

ADDITIONAL MANAGEMENT REPORTING

Management reports are to be based on the principles of adequate compliance limit monitoring, accuracy of data sources, and frequency and quality of information. All reports should communicate the price risks assumed by the Company. Information pertaining to performance measurement and program evaluation will be included in required reports and will be used as a basis for RMOC discussions and future strategy setting.

MINIMUM REPORTING REQUIREMENTS

The following table identifies the various reports to be generated by different departments or management levels, the normal regularity, and circulation of the document.

Report	Distribution	Frequency	Originator
Gas Position Report	SMG, MFA , RMOC	Weekly & Quarter-end	SMG
ADMIS Account Statements via email	SMG, MFA	Daily - Others	RMI
RMOC Meeting Minutes	RMOC	As soon as possible after RMOC meeting (5-7 business days)	RMOC Secretary
Counterparty Credit Exposure Report	RMOC, SMG, MFA	Weekly	SMG (reviewed by MFA)
Congestion Position Report	RMOC, SMG	Monthly (Post auction)	SMG

SMG – Supply Management Group, MFA – Manager of Fuel Accounting, RMI – Risk Management Incorporated

On a quarterly basis the status of the Company's hedged positions and counterparty credit exposure will be reviewed with the Audit Committee of the Board of Director's.

DISCIPLINE

Any violation by an employee of the RMP will be subject to the Progressive Discipline Policy as outlined in the Personnel Policy Manual of the Company.

7. POLICY REVIEW

On a periodic basis, the RMOC will review and mutually make a recommendation to the Officer Group on the adequacy of the RMP and any necessary changes.

8. CONFLICTS OF INTEREST

Personnel responsible for executing and managing the Company's trading activity will not be authorized to enter into energy-related commodity transactions on behalf of others or themselves unless specifically approved by the RMOC.

9. DUTIES AND WORK FLOW

Appendices are listed as follows:

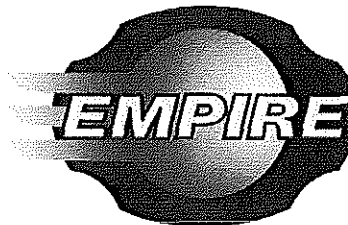
- Credit Risk and Procedures Policy - Appendix 1
- Duties for Supply Management Group - Appendix 2
- Duties for Finance - Appendix 3
- Duties for Auditing - Appendix 4
- Work Flow to Execute Trade - Appendix 5
- Procedure for Hedge Transactions and Reconciliation - Appendix 6
- Trade Ticket - Appendix 7
- Confirmation Procedure - Appendix 8
- Gas Position Report - Appendix 9
- Mark to Market Report - Appendix 10
- Broker Account Statement - Appendix 11
- Authorized Traders - Appendix 12
- Supply Management Group (SMG) – Purchase and/or Sale Pre-Approval Form – Appendix 13

APPENDIX 1

THE EMPIRE DISTRICT ELECTRIC
COMPANY

CREDIT RISK/PROCEDURES POLICY

January 10, 2011



Services You Count On

I: INTRODUCTION

The purpose of this policy is to establish a consistent process whereby the credit risk of future financial loss due to counterparty physical or financial non-performance is significantly diminished for energy purchases and / or sales. This Credit Risk/Procedures Policy will govern any energy transactions relating to natural gas and / or purchased power conducted by the Company.

II: POLICY OVERVIEW

In general, all energy suppliers and / or purchasers will be subject to a financial review in accordance with the Company's standards for determination of creditworthiness. Evaluation of a company's financial strength and its ability to deliver its product or to pay is crucial.

A credit review cannot be viewed as the mechanism to prevent any and all losses, but it can help identify those companies where performance has been a problem in the past or may present a problem in the future. Established counterparty credit exposure limit triggers combined with proper monitoring oversight will help the Company to effectively mitigate possible losses due to counterparty insolvency.

III: RESPONSIBILITIES

Risk Management Oversight Committee

The Risk Management Oversight Committee (RMOC) shall give final approval for all credit policies and procedures. In today's business environment, a formularized credit rating approach for rating counterparties may not be practical. The RMOC will provide oversight by reviewing weekly Gas Position Reports produced by the Supply Management Group (SMG) and by formal discussions of counterparty credit limits, credit risk, credit exposure, etc. at the RMOC meetings. The Manager of Fuel Accounting will provide monthly credit rating status reports of counterparties. The SMG will report on credit exposure by counterparties in the weekly Gas Position Report.

RMOC Committee Members

This group is defined in the Energy Risk Management Policy.

Manager of Fuel Accounting

The Manager of Fuel Accounting (MFA) shall monitor the credit exposures created through the trading of energy and derivative products, and ensure that the RMOC is aware of any inappropriate credit exposure.

Primary Responsibilities include the following:

- On-going monitoring of existing counterparty credit/financial strength, see On-Going Financial/Credit Strength Monitoring Procedures section below
- Monitor credit exposures created by the trading of energy and / or derivative products, see On-Going Financial/Credit Strength Monitoring Procedures section below
- Oversee the development and administration of systems necessary to support the above activities
- Monitoring trade activity with each counterparty
- Monitor credit exposures with the RTOs created through the physical and financial positions maintained in the respective markets

Supply Management Group

The Supply Management Group (SMG) optimizes the use of generation, purchased power and natural gas as outlined in the Energy Risk Management Policy.

Primary Responsibilities include the following:

- Keeping abreast of market trade talk and communicate knowledge to the Fuel Accounting Manager
- Coordination of legal documentation appropriate for each counterparty such as Master Agreements, International Swaps Derivative Agreements (ISDA), etc.

Monitoring trade activity with each counterparty

Legal Services

The SMG will seek legal advice and review, internal or external, in counterparty agreement negotiations. While it is not always possible to achieve, the SMG will work with legal services to seek netting and/or set-off agreements with counterparties on all contracts.

Netting provisions allow counterparties to settle with each other the net of all transactions for a given period rather than gross amounts involved in a series of transactions. If a company buys power from a counterparty and also sells them power, the final transaction will take both aspects into consideration and pay the difference between the two. The non-defaulting party may also perform a closeout of any existing positions and include this balance in the netting calculation. This provision can eliminate a large amount of downside potential associated with counterparties that default.

Set-Off can be viewed in simple terms as netting among different governing agreements. For instance, the electric segment may be transacting both electricity and

natural gas with the same counterparty under two different governing agreements. Set-Offs allow for amounts owed or received under both agreements to be netted against each other.

On-Going Financial/Credit Strength Monitoring Procedures

The Manager of Fuel Accounting shall be responsible for reviewing the credit rating status of counterparties on an on-going basis. In addition, the Manager of Fuel Accounting will follow business news reports on counterparties for any potential information that may indicate a change in creditworthiness. The Manager of Fuel Accounting will also work in close contact with SMG to stay abreast of any current negative supplemental information gained from direct contact within the energy industry.

If any declining creditworthiness information develops on a counterparty, such as their credit rating is downgraded by Moody's or Standard and Poor's, the Fuel Accounting Manager will notify the RMOC of such development by email.

Furthermore, if a counterparty's credit rating is downgraded to below investment grade (Ba by Moody's, BB by Standard and Poor's) or below, the Fuel Accounting Manager will additionally notify the Chief Financial Officer, Controller and Vice-President/COO-Electric by phone of the downgrade. The Fuel Accounting Manager would also notify the SMG to halt any further trades with this counterparty until further notice. Any member of the RMOC could then call a special meeting of the RMOC for discussion or add this information to the agenda of the next regularly scheduled RMOC meeting.

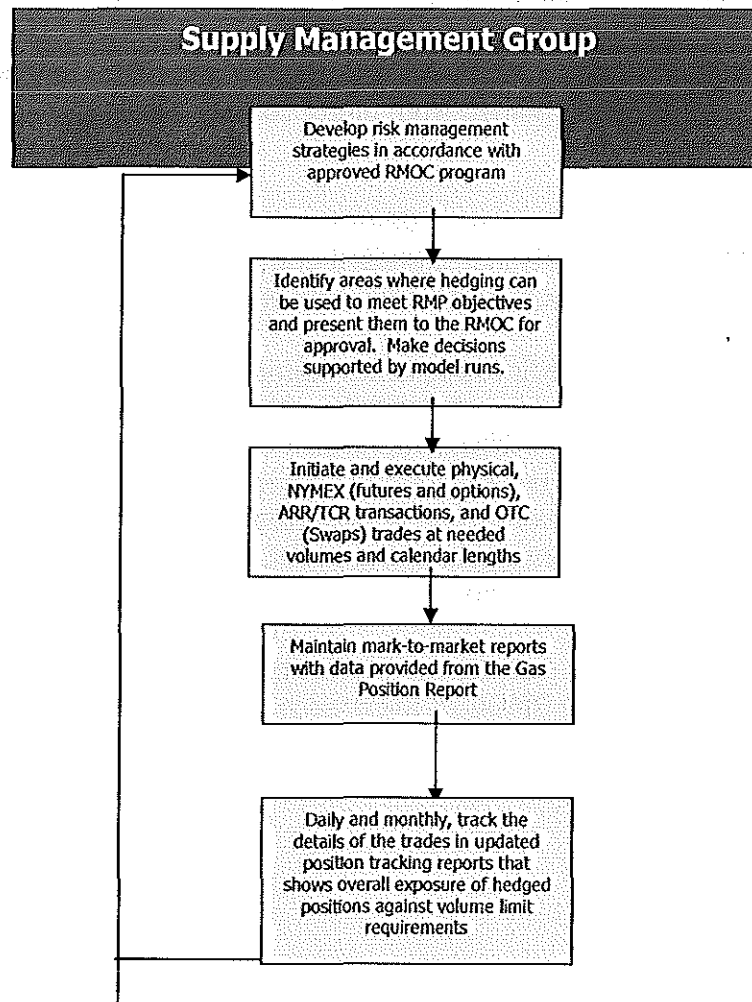
Once a counterparty breaches the established credit exposure limit trigger, the Fuel Accounting Manager will notify the RMOC of the breach. This will be put on the agenda of the next RMOC meeting for discussion.

APPENDIX 2

SUPPLY MANAGEMENT GROUP

Responsible for analyzing the market and developing appropriate strategies and tactics in line with the RMP.

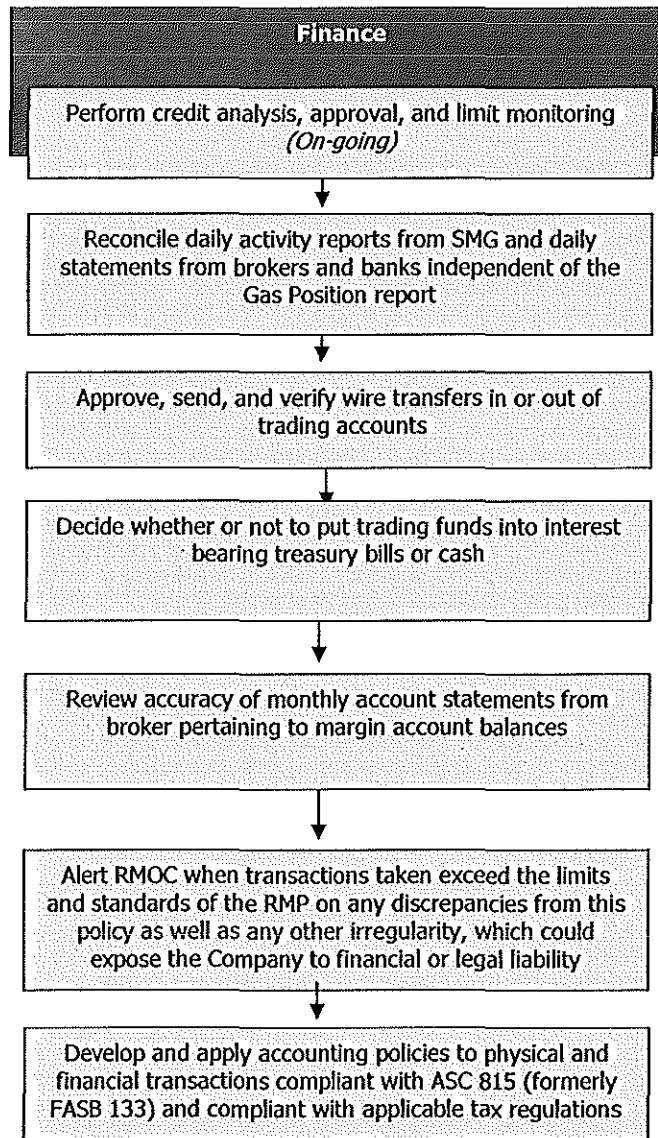
Responsibilities include the following:



APPENDIX 3

FINANCE

Responsible for the provision of financing the SMG's hedge transactions. In addition, Finance will crosscheck hedge positions placed by the SMG in physicals, swaps, futures, and options for accuracy and accordance with the Company's RMP. Accountable for review of account balances for any associated margin requirements with day-to-day activity and also responsible for the following:



APPENDIX 4

INTERNAL AUDIT

Review documentation as needed to verify the RMP defined limits of the Company's hedge transactions and operations and will periodically confirm the internal controls in place are effective in protecting the objectives of the Company's risk management program.

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

APPENDIX 5

FOR ANY HEDGE TRANSACTION

(Physical, Exchange-Traded or OTC)

**Please reference Appendix 6 for a graphical representation of this process*

DAILY

1. Monitor Market Prices/Identify Need for a Hedge in line with Hedging Strategy Objectives

- ✓ The SMG will monitor prices for opportunities to meet RMP hedge goals and objectives.

2. Determine Best Strategy within Limits to Achieve Hedging Objective

- ✓ Within the RMOC approved limits, the SMG will determine the best hedge strategies to implement in line with objectives.
- ✓ For any chosen strategies that exceed a specified time period or dollar limit, the Vice President – Energy Supply must verify that the chosen hedge transaction meets objectives.

3. Confirm Counterparty Meets Credit Requirements

- ✓ For an OTC transaction, the prospective counterparty must be crosschecked with the Approved Counterparty Credit List for credit verification.

4. Implement Transaction

- ✓ The SMG prepares internal documentation for current order.

5. Communicate Order

- ✓ The SMG executes a hedge with broker and/or counterpart by picking up the phone and calling in information that is simultaneously recorded via a trading ticket (*reference example in Appendix 7 in next section*) which is date/time stamped and entered into a position tracking report and Commodity XL software.

6. Broker Documents and Executes Transaction

- ✓ In addition, the broker and the NYMEX floor representatives keep their own trading tickets to document the transaction.

7. Verify Transaction (Verbal and Written)

- ✓ Broker and/or counterpart verifies hedge fill via phone initially to the SMG.
- ✓ Written confirmations will be sent to the SMG and Finance the following business day via e-mail or fax. Instant messaging is used to verify physical transactions up to one week out. The confirmation/contract is examined by the SMG Specialist for accuracy by crosschecking to the input on the trading ticket. If everything is in agreement, the appropriate SMG representative (as defined in Appendix 12, Trading

Authorities) will sign the confirmation/contract and fax back to the counterparty. If there are disagreements, these will be resolved and then the confirmation/contract will be signed and faxed to the counterparty.. A copy of the trading ticket is sent to the Manager of Fuel Accounting to be matched up with the confirmation/contract.

8. Confirm Accuracy of Transaction

- ✓ The SMG crosschecks daily broker Account Statement confirmations against internal Position Report for accuracy
- ✓ The SMG provides mark-to-market reports that tracks the value of the hedge based on current market price.

9. Track Positions

- ✓ This SMG Position Report is forwarded to Finance as a check for accuracy on market value and is compared to the broker daily Account Statement report.

10. Reconcile Positions Daily with Broker via Finance

- ✓ On a daily basis, Finance will determine and verify cash flow receipts and obligations. If the Company is on margin call, funds will be wired to the broker to keep the hedge account equity in line with the current market value.

MONTHLY AND ON-GOING

1. Reconcile Monthly Account Statements

- ✓ Finance reconciles broker and/or counterpart statements with internal Position Report and FUTRAK software.

2. Review of Transaction/Reporting

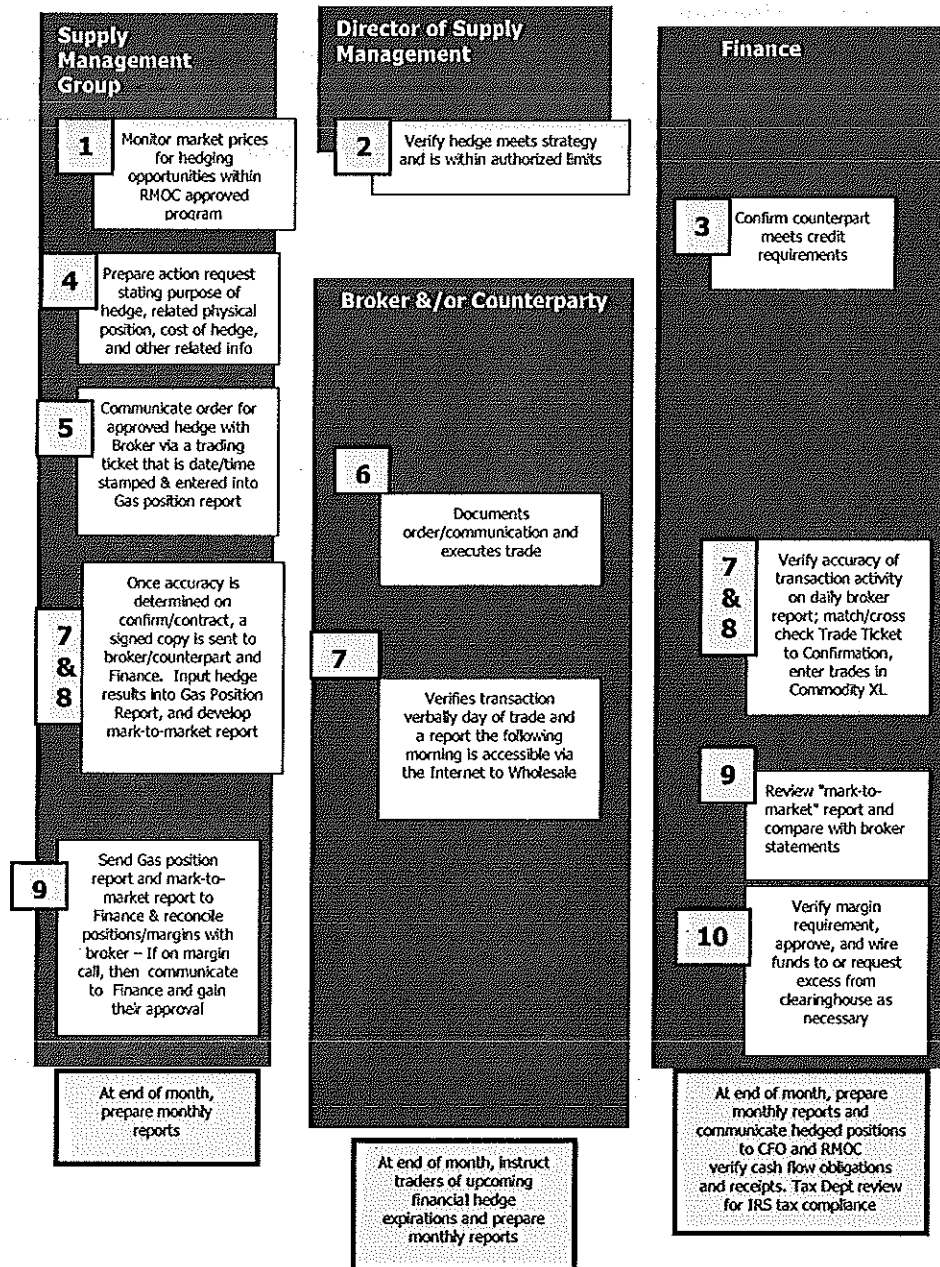
- ✓ On a monthly basis, the SMG will review with the RMOC the strategy and positions taken. On at least a semi-annual basis, the results of the RMP hedge strategy will be reported to the Board of Directors by the RMOC.

3. Review for Tax Compliance

On a monthly basis, the Manager of Tax or his designee will review all trade tickets for compliance with tax regulations and RMOC Policy that all physical trades meet the normal purchase normal sale criteria for tax purpose.

APPENDIX 6

PROCEDURAL FLOW FOR HEDGE TRANSACTIONS & RECONCILIATION



**Internal Audit will periodically review process to verify accuracy and compliance*

APPENDIX 7

TRADE TICKET

The ability to internally track hedge transactions is crucial to providing an audit trail whereby all parties involved in the decision-making process are notified of a hedge position. This notification of a transaction is also the primary document in tracking a hedge and providing information for the Gas Position Report. Included in the document will be the volumes hedged, the price or instrument used, the length of time for the hedge, and the counterpart to the transaction. Once a transaction is confirmed, the completed Trade Ticket will be sent to Finance in PDF by email on the trade date. An Internal Trade Transaction Ticket is included on the following page.

Empire District Electric Company Internal Trade Transaction Ticket				Trade Ticket No.	BB16E
				Trade Date	4/21/2010
				Trade Time	13:45

Buy/Sell Buy	Instrument Physical	Type	Strike Price Jul-14 \$5.2950	Market OTC
Business Unit EDE	Number of Bids 5/5		Premium	
Location SSCGP	Quality Firm	Delivery Start Date 1-Jan-11	Exercise Date 21-Apr-10	
		Delivery End Date 1-Feb-11	Settlement Date 1-Feb-11	

Price Type Fixed	Price Differential / Basis	Volumetric Quantity	Rate \$5.295	Quantity (Dth) 155,000
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Transmission/Transport Charges	Scheduling Requirement	Settlement
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Counterparty Anadarko/Kelly	Mark-to-Market Point	Broker Commission
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Energy Trader: Brian Berkstresser

General Comments
OneOk offering 5.295, ConocoPhillips offering 5.35 Tenaska offering \$5.35, CIMA offering \$5.38

Energy Trader's Initial
This transaction complies with the RMOC Policy regarding the purchase and definition of physical contracts. Thus, it is in compliance with ASC 815-10-15 (formerly FASB 133 paragraph 10) and IRS Reg. §1221(b)(2) in meeting normal purchase normal sale criteria.

Temporary Approval - New Counterparty

Transaction Objective Based on Empire's Risk Management Policy

Impact on forward month hedge position, as of:			21-Apr-10
Period	Prior to Purchase (percent)	Policy Minimum Guidelines %	After Purchase (percent)
Year 2011	Percent Hedged 71%	60%	Percent Hedged 75%

Middle Office - Risk Management	_____ Bob Ellis	This Transaction complies with: Ordinary Property Obligations (IRC Section 1221 (a)(7))
Back Office - Accounting	_____ Bob Ellis	
Back Office - Tax Accounting	_____ Jay Williams	
Distribution:	Energy Supply Risk Management Tax Accounting	
		Identification Requirements (Treas. Regs. Section 1.1221-2(e))

APPENDIX 8

CONFIRMATION PROCEDURE

Exchange Traded Confirmations

The SMG will verbally confirm every transaction with broker and/or counterpart on the trade date. Trade confirmations on the daily open position statements will be sent by the broker (on the following business day) to the SMG and Finance. The SMG must check for accuracy on the following business day, input updates into the position report, maintain a mark-to-market report, and forward said report to Finance. Finance is responsible for verifying the confirmation against the transacting records and entering the transaction into Commodity XL.

Physical and OTC Financial Confirmations

The SMG must verbally confirm every transaction with the broker/counterpart on the trade date. For financially settled OTC transactions, written or email confirmations of the applicable terms and conditions will be completed by the SMG and forwarded to Finance by the end of the second business day following the trade date. Finance is responsible for verifying the confirmation against transacting records and entering the transaction into FUTRAK.

For physical transactions, instant messaging (IM), written, or email confirmations of the applicable terms and conditions will be completed by the SMG and forwarded to Finance by the end of the second business day following the trade date. IM can be used to verify next day, weekend, and gas transactions up to one week out. Written or email confirmations will be required for all other physical forward transactions. Finance is responsible for verifying the confirmation against transacting records and entering the transaction into Commodity XL if necessary.

The following procedures will be adhered to at all times:

- The trader will review a copy of the confirmation for completeness and initial the confirmation.
- The trader will enter the trade into the Gas Position Report. The Fuel Accounting Manager will enter all financial trades into Commodity XL.
- Confirmations will be completed, signed, and sent to the counterparty by the SMG within two business days.
- Original trade tickets and confirmations will be kept by Finance until after the transaction has settled. Once the transactions have settled, the confirmations and tickets will be maintained by Finance.

APPENDIX 9

POSITION REPORTS

The Empire District ELECTRIC Company											
Gas Position Summary as of September 29, 2006											
	October 2006	November 2006	December 2006	Oct-Dec 2006	Year 2007 60% min	Year 2008 40% min	Year 2009 20% min	Year 2010 10% min	Year 2011 0% min	2012 thru 2013 0% min	Net All Years
Budget DTh (3)	8,100	90,400	593,500	692,000	9,700,000	10,640,300	11,103,400	8,796,600	8,796,600	17,593,200	67,322,100
Expected DTh (3)	200,000	200,000	593,500	993,500	10,363,900	10,640,300	11,103,400	8,875,200	8,875,200	17,593,200	68,444,700
Policy minimum hedged DTh (2)	120,000	120,000	358,100	596,100	6,218,340	4,256,120	2,220,680	887,520	-	-	14,178,760
Policy maximum hedged DTh	200,000	200,000	593,500	993,500	8,291,120	8,512,240	8,882,720	7,100,160	-	-	33,779,740
Amount Hedged from Upside Volatility Dth	100,000	170,000	520,000	790,000	7,249,980	4,300,000	3,696,000	3,696,000	3,696,000	2,400,000	25,827,980
percentage	50%	85%	88%	80%	70%	40%	33%	42%	42%	14%	38%
Bookout per physical Dth, all positions	7.295	8.420	11.150	8.955	6.827	6.635	4.589	4.602	4.596	7.295	6.168
Average Cost per Dth hedged	7.295	7.149	6.682	6.860	6.561	6.585	5.422	5.422	5.422	7.295	6.153
Net All Positions Marked to Market \$ (1)	(368,400)	(417,750)	(581,472)	(1,367,622)	(4,123,250)	(918,320)	2,842,314	2,795,768	2,506,411	(824,703)	1,210,598
PHYSICAL HEDGES											
Purchased Dth	100,000	100,000	100,000	300,000	4,559,980	3,100,000	1,696,000	1,696,000	1,696,000	2,400,000	15,447,980
Purchased \$	729,500	729,500	729,500	2,188,500	32,724,285	22,751,500	10,998,400	10,998,400	10,998,400	17,508,000	108,167,485
Purchased \$/Dth	7.295	7.295	7.295	7.295	7.176	7.339	6.485	6.485	6.485	7.295	7.002
Market \$	361,100	424,260	533,560	1,318,920	27,006,395	19,650,650	10,626,014	10,600,468	10,600,911	16,683,297	96,486,655
Market \$/Dth (on Southern Star Pipeline)	3.611	4.243	5.338	4.396	5.922	6.339	6.265	6.250	6.251	6.951	6.246
Gain/(Loss) versus current market	(368,400)	(305,240)	(195,940)	(869,580)	(5,717,890)	(3,100,850)	(372,386)	(397,932)	(397,469)	(824,703)	(11,680,830)
FINANCIAL HEDGES											
Swap/Futures Dth Purchased	0	-	350,000	350,000	2,400,000	1,200,000	2,000,000	2,000,000	2,000,000	-	9,950,000
Net Cost, \$/Dth	0.000	0.000	5.843	5.111	4.779	4.635	4.520	4.520	4.520	0.000	4.617
Market \$/Dth (at Swap location)	0.000	0.000	4.897	4.358	5.700	6.454	6.127	6.117	6.122	0.000	5.998
Swap Settlement - Receipt / (Payment)	-	(2,610)	(260,932)	(263,542)	2,211,181	2,182,530	3,214,700	3,193,700	3,203,900	-	13,742,468
Swap/Futures Dth Sold or Settle	-	-	-	-	-	-	-	-	-	-	-
Net Cost, \$/Dth	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-
Market \$/Dth (at Swap location)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-
Swap Settlement - Receipt / (Payment)	-	-	-	-	-	-	-	-	-	-	-
Call Dth (Buy a Call)	-	70,000	70,000	140,000	290,000	-	-	-	-	-	430,000
Call Strike \$/Dth	0.000	9.600	11.000	10.300	11.624	0.000	0.000	0.000	0.000	0.000	11.193
Market \$/Dth (at Henry Hub or Swap location)	0.000	5.620	7.345	6.483	7.838	0.000	0.000	0.000	0.000	0.000	7.396
Cost of Call \$/Dth	0.000	1.570	1.780	1.675	2.126	0.000	0.000	0.000	0.000	0.000	1.979
Value \$ of Call Position	-	-	-	-	-	-	-	-	-	-	0
(Cost) \$ of Call Position	-	(109,900)	(124,600)	(234,500)	(616,540)	-	-	-	-	-	(851,040)

Empire District GAS Company Gas Position Summary as of September 29, 2006															
	Beginning Storage	October 2006	November 2006	December 2006	January 2007	February 2007	March 2007	April 2007	May 2007	June 2007	July 2007	August 2007	September 2007	Net 12 Months	Winter Season
Tariff Budget DTh (3)		235,187	639,351	971,444	1,062,152	826,794	654,058	335,237	168,416	135,804	128,905	123,268	118,548	5,415,163	4,153,799
Tariff Expected DTh (3)		235,187	639,351	971,444	1,062,152	826,794	654,058	335,237	168,416	135,804	128,905	123,268	118,548	5,415,163	4,153,799
Storage Activity DTh (2)		-	-347,130	-347,130	-347,130	-347,130	-347,130	-	-	-	-	-	-	-1,735,652	-1,735,652
Net Requirement DTh		235,187	292,221	624,314	715,022	479,664	306,928	335,237	168,416	135,804	128,905	123,268	118,548	3,679,511	2,418,147
Amount Hedged Dth		234,670	507,130	687,133	727,133	587,142	507,133	0	-	-	-	-	-	3,250,348	3,015,878
percentage		100%	79%	71%	68%	71%	78%	0%	0%	0%	0%	0%	0%	60%	73%
Average Cost per Dth hedged		3.603	6.865	7.553	7.905	7.505	7.340	0.000	0.000	0.000	0.000	0.000	0.000	7.197	7.477
Net All Positions Marked to Market \$ (1)		4,135	(354,740)	(749,133)	(911,776)	(511,793)	(339,393)	-	-	-	-	-	-	(2,662,705)	(2,668,849)
														Avg cost net of Basis >>>	7.313
STORAGE Balances (end-of-month estimate) (5)															
S Star Storage Dth	752,189	752,189	609,669	487,149	324,625	182,109	39,585	39,585	39,585	39,585	39,585	39,585	39,585		
S Star Storage \$	5,169,537														
S Star Storage (Avg) \$/Dth	6.873														
PEPL Storage Dth	709,195	709,195	574,821	440,447	306,074	171,702	37,326	37,326	37,326	37,326	37,326	37,326	37,326		
PEPL Storage \$	4,847,266														
PEPL Storage (Avg) \$/Dth	6.835														
ANR Storage Dth	370,693	370,693	300,456	230,220	159,583	69,747	19,510	19,510	19,510	19,510	19,510	19,510	19,510		
ANR Storage \$	2,465,285														
ANR Storage (Avg) \$/Dth	6.651														
Total Storage Dth	1,832,077	1,832,077	1,484,947	1,137,816	790,658	443,555	96,425	96,425	96,425	96,425	96,425	96,425	96,425		
Total Storage \$	12,482,098														
Total Storage (Avg) \$/Dth	6.813														
Target Balance (95% of Cap.)	1,910,653														
percent of Target	96%	96%	78%	60%	41%	23%	5%	5%	5%	5%	5%	5%	5%		
PHYSICAL PROCURED															
Purchased Dth	234,870	100,000	210,003	220,003	160,012	100,005	0	-	-	-	-	-	-	1,024,696	790,026
Purchased \$	845,497	619,100	1,554,667	1,707,616	1,202,493	740,737	0	-	-	-	-	-	-	6,670,102	5,824,615
Purchased \$/Dth	3.603	6.191	7.403	7.762	7.515	7.487	0.000	0.000	0.000	0.000	0.000	0.000	0.000	6.509	7.373
FINANCIAL HEDGES															
Swap/Futures Dth Purchased	-	60,000	130,000	160,000	60,000	60,000	0	-	-	-	-	-	-	490,000	490,000
Net Cost, \$/Dth	0.000	8.285	9.773	10.470	10.483	10.280	0.000	0.000	0.000	0.000	0.000	0.000	0.000	9.997	9.997

Should include a copy of the Congestion Position Report once we complete it with actual numbers

APPENDIX 10

MARK-TO-MARKET REPORTING

As mentioned previously, all positions will be "mark-to-market" (using the appropriate NYMEX prices as defined by the underlying contract) weekly. This analysis is performed by the SMG to appropriately reflect the current value and cash flows associated with open positions and to provide timely information regarding the Company's market risk and exposure. The SMG is responsible for verifying the validity and accuracy of the market data used in mark-to-market calculations through the Gas Position Report on a weekly basis. All positions will be "marked-to-market" (using the appropriate NYMEX prices as defined by the underlying contract) at the end of each month using Commodity XL accounting software by the Manager of Fuel Accounting. The resulting entries will then be recorded in the Company's general ledger

APPENDIX 11

DAILY BROKER ACCOUNT STATEMENT

The RMI Account Statement shown below is an illustration of the daily report that the SMG and Finance can access on the Internet daily to confirm the previous day's trading activities. Separate accounts are maintained for the electric and gas segments.

ADM

141 W. Jackson Blvd., Suite 1600A
Chicago, Illinois 60604-3150

STATEMENT DATE: FEB 28, 2011
ACCOUNT NUMBER: 312 15611
SALESMAN NUMBER: 312 8201
INTRODUCED BY: RISK MANAGEMENT INC
(312) 373-8250

THE EMPIRE DISTRICT ELECTRIC CO-
ELECTRIC
PO BOX 127
CORBIN MO 64801
ATTN KATHIN BJOERNSSON

IF YOU HAVE ANY QUESTIONS OR ISSUES
REGARDING YOUR STATEMENT THAT YOU
ARE UNABLE TO RESOLVE WITH YOUR BROKER,
PLEASE CONTACT ADM'S CUSTOMER SERVICE AT
1/800/654-2441 or 312/342-7200.

* * * * * YOUR ACTIVITY THIS MONTH * * * * *							
DATE	LONG/BUY	SHORT/SELL	DESCRIPTION	EX	PRICE/LEND CC	DEBIT	CREDIT
2/15/1			WIRE TRANSFER REC WIRE TRANSFER RECEIVED		WIREREC US		24,700.00
2/17/1		21	SEP 11 NATURAL GAS GLOBEX TRADE	C	PSN/COMM US	387.87	
2/17/1			WIRE TRANSFER REC WIRE TRANSFER RECEIVED		WIREREC US		43,775.00
* * * * * POSITIONS IN YOUR ACCOUNT * * * * *							
2/17/1		21	SEP 11 NATURAL GAS	C	4.200 US	15,750.00	
		21*	OPEN TRADE EQUITY		4.275		15,750.00*
			AVERAGE SHORT:				4.20000
9/08/9	31		JAN 12 NATURAL GAS	C	7.130 US	689,750.00	
	31*		OPEN TRADE EQUITY		4.905		689,750.00*
			AVERAGE LONG:				7.13000
8/06/9	40		JUL 12 NATURAL GAS	C	6.690 US	760,800.00	
	40*		OPEN TRADE EQUITY		4.788		760,800.00*
			AVERAGE LONG:				6.69000
8/06/9	40		AGO 12 NATURAL GAS	C	6.760 US	776,800.00	
	40*		OPEN TRADE EQUITY		4.818		776,800.00*
			AVERAGE LONG:				6.76000
9/08/9	31		DEC 12 NATURAL GAS	C	7.080 US	569,470.00	
	31*		OPEN TRADE EQUITY		5.243		569,470.00*
			AVERAGE LONG:				7.08000
4/16/0	31		JUL 14 NATURAL GAS	C	6.040 US	216,070.00	
	31*		OPEN TRADE EQUITY		5.383		216,070.00*
			AVERAGE LONG:				6.04000
4/16/0	31		AGO 14 NATURAL GAS	C	6.150 US	226,920.00	
	31*		OPEN TRADE EQUITY		5.418		226,920.00*
			AVERAGE LONG:				6.15000
*** USD ***							
1. BEGINNING ACCT BALANCE			3,877,587.95				
2. P&L AND CASH ACTIVITY			68,087.13				
3. ENDING ACCT BALANCE			3,945,675.09				
4. NET FUTURES P&L			387.87				
5. FUT OPEN TRADE EQUITY			3,255,560.43				
9. ACCT VALUE AT MARKET			690,115.09				
11. CONVERTED ACCT VALUE US			690,115.09				

ADM INVESTOR SERVICES, INC. a wholly owned subsidiary of the Archer-Daniels-Midland Company.

PLEASE REPORT ANY DIFFERENCES OR OBJECTIONS IMMEDIATELY. YOUR FAILURE TO IMMEDIATELY EXERCISE YOUR RIGHT TO HAVE DIFFERENCES OR DISCREPANCIES CORRECTED WILL BE DEEMED YOUR AGREEMENT THAT THIS STATEMENT IS CORRECT AND RATIFIED.

ADM INVESTOR SERVICES

ADM INVESTOR SERVICES, INC. 141 W. JACKSON BLVD., SUITE 1600A, CHICAGO, IL 60604-3150

CONFIRMATION NOT A TRADE EXECUTION

APPENDIX13
Supply Management Group
Purchase and/or Sale Pre-Approval Form

This form is to convey pre-approval of the Officers or RMOC for purchases and/or sales that are beyond the approval limits of the members of the Supply Management Group as set forth in *Appendix 12 - Trading Authorization* of the Energy Risk Management Policy.

Approval for: (circle one) (circle one)
 Purchase Nat Gas
 Sale Power

Quantity Minimum _____
 Maximum _____

Price Minimum _____
 Maximum _____

Timeframe Months _____
 Years _____

	Total \$ Value
Minimum	\$ _____ -
Maximum	\$ _____ -

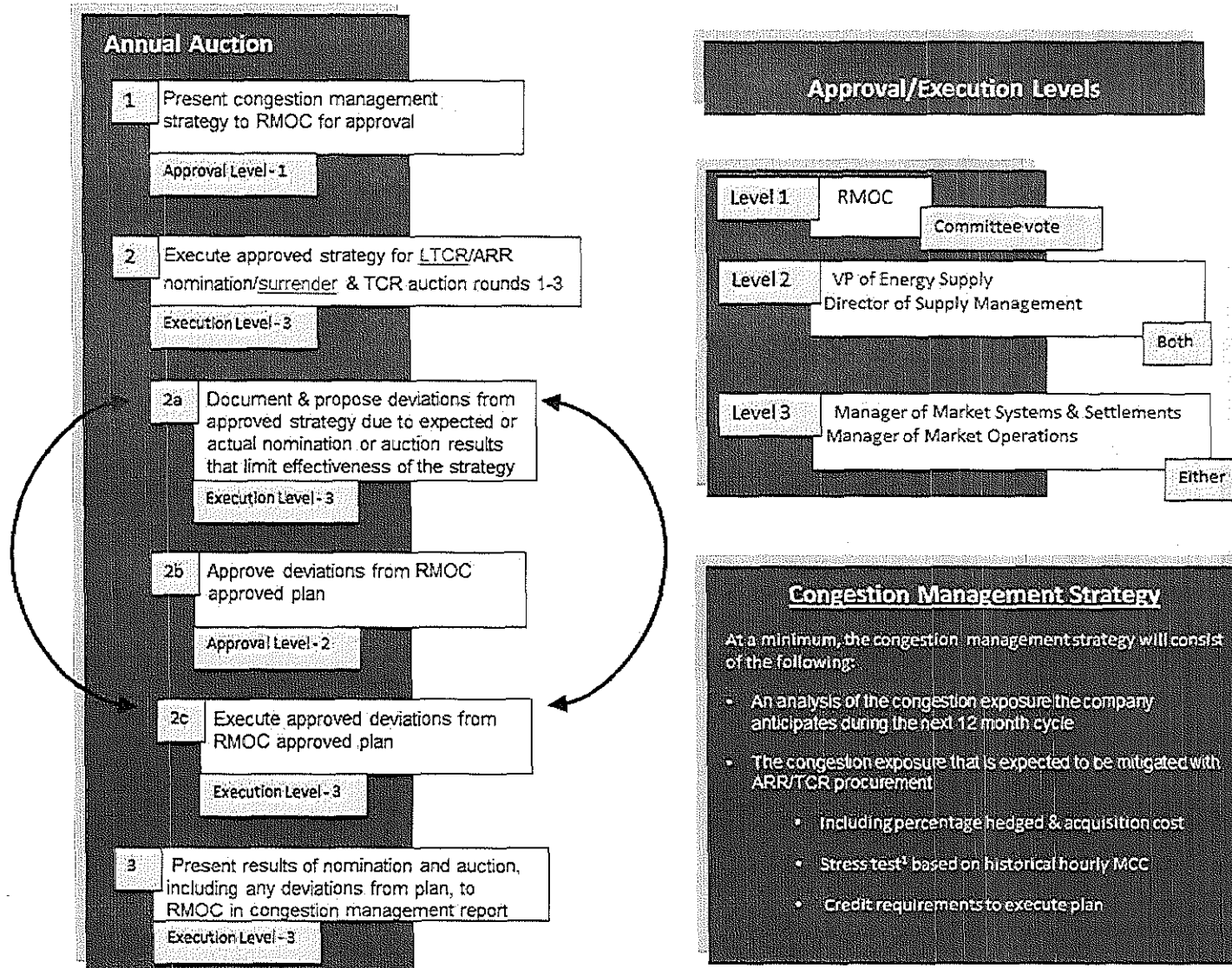
Other Comments:

Approval is valid until: Filled _____
 Date _____

Signatures	Name: _____	Name: _____
	Title: _____	Title: _____
	Date: _____	Date: _____

APPENDIX X

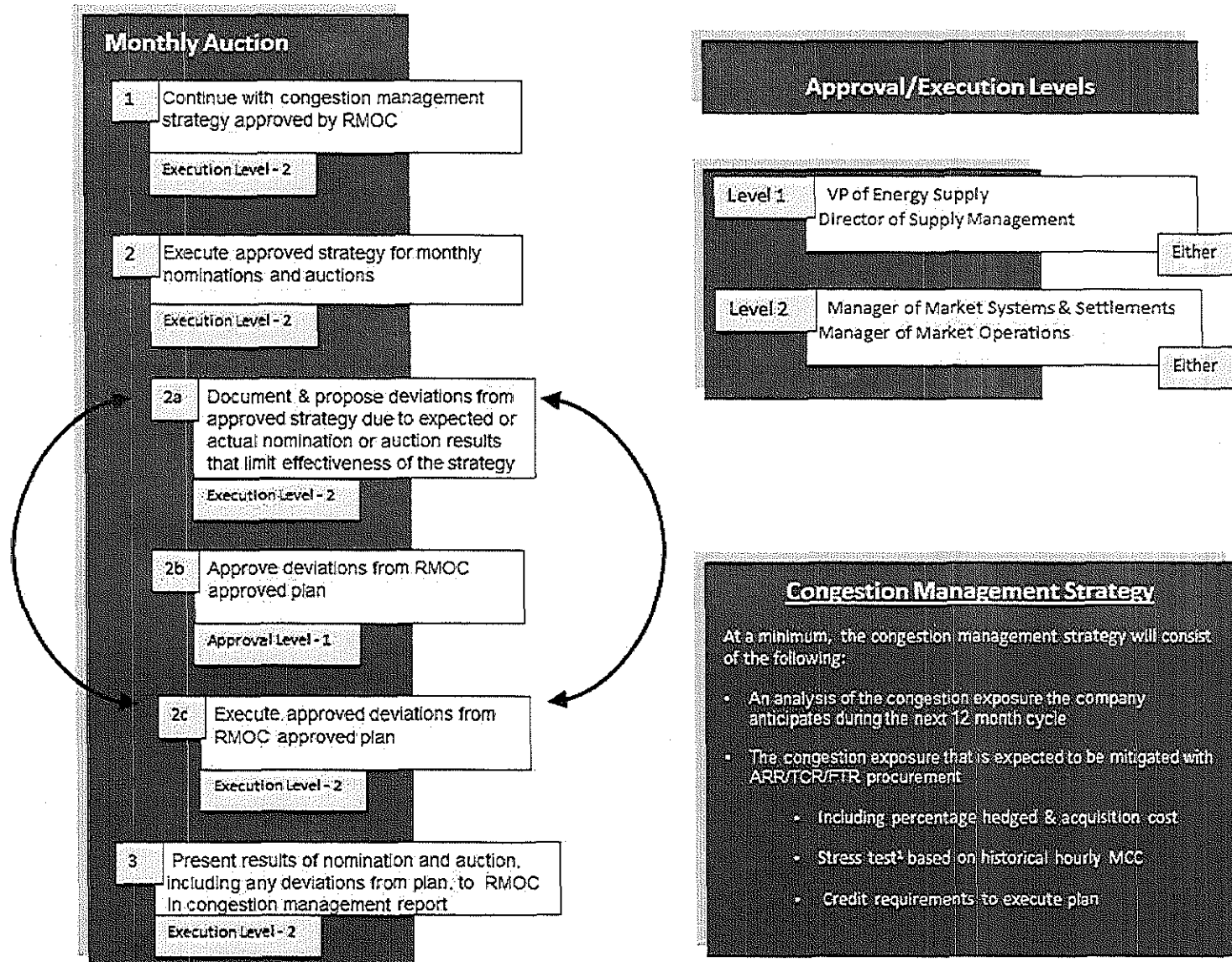
Annual LTCR/ARR/TCR/FTR Approval Process



¹Using historical path values and statistical probabilities to determine the likelihood and extent of unfavorable positions to the TCR/FTR holder
In the event historical values are unavailable, forecasted values may be substituted

APPENDIX Y

Monthly ARR/TCR Approval Process



¹Using historical path values and statistical probabilities to determine the likelihood and extent of unfavorable positions to the TCR/FTR holder
In the event historical values are unavailable, forecasted values may be substituted

OK

The Empire District ELECTRIC Company										
Gas Position Summary as of December 31, 2011										
	January 2012	February 2012	March 2012	Apr-Dec 2012	Jan-Dec 2012	Year 2013 40% min	Year 2014 20% min	Year 2015 10% min	Year 2016 0% min	Net All Years
Budget Dth (3)	559,136	486,011	379,467	4,781,112	6,205,726	8,338,329	7,850,700	10,249,828	-	32,644,583
Expected Dth (3)	573,561	634,152	337,725	4,864,967	6,410,405	7,937,162	8,515,810	9,283,249	9,699,357	41,845,982
Policy minimum hedged Dth (2)	344,137	380,491	202,635	2,918,980	3,846,243	3,174,865	1,703,162	928,325	-	9,652,594
Policy maximum hedged Dth	573,561	634,152	337,725	4,864,967	6,410,405	6,349,730	6,812,648	7,426,599	7,759,486	34,758,867
Amount Hedged from Upside Volatility Dth	410,000	200,000	100,000	3,221,000	3,931,000	3,460,000	1,700,000	1,010,000	-	10,101,000
percentage	71%	32%	30%	66%	61%	44%	20%	11%	0%	24%
Average Cost per Dth hedged	7.170	6.133	7.295	6.363	6.459	6.079	5.514	5.439	0.000	6.068
Net All Positions \$ (1)	(1,684,860)	(647,700)	(437,400)	(10,232,088)	(13,002,048)	(7,797,560)	(2,224,875)	(919,720)	-	(23,944,203)
PHYSICAL HEDGES										
Purchased Dth	100,000	200,000	100,000	2,111,000	2,511,000	2,020,000	460,000	-	-	4,991,000
Purchased \$	729,500	1,226,500	729,500	12,920,215	15,605,715	12,933,800	2,420,575	-	-	30,960,090
Purchased \$/Dth	7.295	6.133	7.295	6.120	6.215	6.403	5.262	0.000	0.000	6.203
Market \$	298,900	578,800	292,100	6,490,657	7,660,457	7,572,510	1,834,640	-	-	17,067,607
Market \$/Dth (on Southern Star Pipeline)	2.989	2.894	2.921	3.075	3.051	3.749	3.988	0.000	0.000	3.420
Difference (\$) versus current market	(430,600)	(647,700)	(437,400)	(6,429,558)	(7,945,258)	(5,361,290)	(585,935)	-	-	(13,892,483)
FINANCIAL HEDGES										
Swap/Futures Dth Purchased	310,000	-	-	1,110,000	1,420,000	1,440,000	1,240,000	1,010,000	-	5,110,000
Net Cost, \$/Dth	7.130	0.000	0.000	6.824	6.891	5.625	5.607	5.439	0.000	5.935
Market \$/Dth (at Swap location)	3.084	0.000	0.000	3.398	3.330	3.933	4.285	4.528	0.000	3.968
Difference (\$) versus current market	(1,254,260)	-	-	(3,802,530)	(5,056,790)	(2,436,270)	(1,638,940)	(919,720)	-	(10,051,720)

Note 1: Market data using NYMEX Close Prices as of December 30, 2011.

Note 2: Policy minimums are 12/31/2011 targets.

Note 3: For 2011 through 2015, Budgeted Dth are from FINAL FPP Budget for 2011 (Planning & Regulatory, 9/28/2010).

For Dec 2011, Expected Dth were revised to Updated Outage schedule scenario (P&R 1/31/2011).

For 2012-2016, Expected Dth are from PRELIMINARY F&PP scenario (Planning & Regulatory as of 10/13/2011).

Note 4: Empire currently has no positions utilizing "options" and therefore the options section of this report is not shown.

Note 5: Storage and Park&Loan balance and usage are estimates based on most current information available.

Storage Estimates	
Balance Dth	667,149
WACOG \$/Dth	4.367

The Empire District ELECTRIC Company Gas Position Summary as of March 31, 2015										
	Current/Upcoming Year				All Years					
	April 2015	May 2015	June 2015	Jul - Dec 2015	Apr - Dec 2015	Year 2016 60% min	Year 2017 40% min	Year 2018 20% min	Year 2019 10% min	Total Net All Years
Budget Dth (3)	444,733	740,493	1,061,717	5,495,407	7,742,349	9,757,650	10,310,058	10,269,212	10,270,618	48,349,888
Expected Dth (3)	444,733	740,493	1,061,717	5,495,407	7,742,349	9,757,650	10,310,058	10,269,212	10,270,618	48,349,888
Policy minimum hedged Dth (2)	266,840	444,296	637,030	3,297,244	4,645,410	5,854,590	4,124,023	2,053,842	1,027,062	17,704,927
Policy Maximum hedged Dth	444,733	740,493	1,061,717	5,495,407	7,742,349	7,806,120	8,248,047	8,215,369	8,216,495	40,228,380
Amount de-designated from Hedge amount										-
Amount Hedged from Upside Volatility Dth	200,000	300,000	700,000	3,210,000	4,410,000	4,076,000	2,082,900	1,065,000	-	11,633,900
percentage	45%	41%	66%	58%	57%	42%	20%	10%	0%	24%
Amount Hedged from Downside Volatility Dth	\$ 200,000	\$ 300,000	\$ 700,000	\$ 3,210,000	\$ 4,410,000	\$ 4,076,000	\$ 2,082,900	\$ 1,065,000	\$ -	\$ 11,633,900
percentage	45%	41%	66%	58%	57%	42%	20%	10%	0%	24%
Average Cost per Dth hedged	\$ 3.919	\$ 3.961	\$ 3.450	\$ 4.688	\$ 4.407	\$ 4.103	\$ 4.133	\$ 4.121	\$ -	\$ 4.226
Net all Positions \$ (1)	\$ (302,700)	\$ (424,600)	\$ (591,200)	\$ (6,108,380)	\$ (7,426,880)	\$ (5,074,276)	\$ (2,119,242)	\$ (1,071,660)	\$ -	\$ (15,692,058)
PHYSICAL HEDGES										
Purchased Dth	\$ 100,000	\$ 100,000	\$ 200,000	\$ 400,000	\$ 800,000	\$ 1,976,000	\$ 782,900	\$ 565,000	\$ -	\$ 4,123,900
Purchased \$	\$ 391,500	\$ 391,500	\$ 785,500	\$ 1,571,000	\$ 3,139,500	\$ 7,454,800	\$ 2,863,350	\$ 2,130,450	\$ -	\$ 15,588,100
Purchased \$/Dth	\$ 3.915	\$ 3.915	\$ 3.928	\$ 3.928	\$ 3.924	\$ 3.773	\$ 3.657	\$ 3.771	\$ -	\$ 3.780
Market \$	\$ 222,000	\$ 235,600	\$ 478,000	\$ 993,200	\$ 1,928,800	\$ 5,120,024	\$ 2,213,178	\$ 1,635,540	\$ -	\$ 10,697,542
Market \$/Dth (on Southern Start Pipeline)	\$ 2.220	\$ 2.356	\$ 2.390	\$ 2.483	\$ 2.411	\$ 2.591	\$ 2.827	\$ 2.895	\$ -	\$ 2.643
Difference (\$) versus current market	\$ (169,500)	\$ (155,900)	\$ (307,500)	\$ (577,800)	\$ (1,210,700)	\$ (2,334,776)	\$ (650,172)	\$ (494,910)	\$ -	\$ (4,690,558)
FINANCIAL HEDGES										
Swap/Futures Dth Purchased	\$ 100,000	\$ 200,000	\$ 500,000	\$ 2,810,000	\$ 3,610,000	\$ 2,100,000	\$ 1,300,000	\$ 500,000	\$ -	\$ 7,510,000
Net Cost, \$/Dth	\$ 3.922	\$ 3.984	\$ 3.258	\$ 4.797	\$ 4.514	\$ 4.415	\$ 4.420	\$ 4.516	\$ -	\$ 4.470
Market \$/Dth (at Swap location)	\$ 2.590	\$ 2.640	\$ 2.691	\$ 2.829	\$ 2.792	\$ 3.110	\$ 3.290	\$ 3.363	\$ -	\$ 3.005
Difference (\$) versus current Market	\$ (133,200)	\$ (268,700)	\$ (283,700)	\$ (5,530,580)	\$ (6,216,180)	\$ (2,739,500)	\$ (1,469,070)	\$ (576,750)	\$ -	\$ (11,001,500)
Swap/Futures Dth Sold or Settle	0	0	0	0	0	0	0	0	0	-
Net Cost, \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (at Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Swap Settlement - Receipt / (Payment)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Call Dth (Buy a Call)	0	0	0	0	0	0	0	0	0	-
Call Strike \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (At Henry Hub or Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cost of Call \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Value \$ of Call Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Cost) \$ of Call Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Collar Dth	0	0	0	0	0	0	0	0	0	-
Floor \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Ceiling \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (at Henry Hub or Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cost of Floor \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Value of Ceiling \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Cost) / Value \$ of Collar Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Put Dth (Sell a Put)	0	0	0	0	0	0	0	0	0	-
Put Strike \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (at Henry Hub or Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Revenue from Put \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Value \$ of Put Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Cost) \$ of Put Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Note 1: Market data using NYMEX Close Prices as of March 31, 2015.

Note 2: Policy minimums are 12/31/2015 targets.

Note 3: For 2015 through 2019, Budgeted & Expected Dth are from FINAL F&PP Budget for 2015.

Note 4: Empire currently has no positions utilizing "options" and therefore the options section of this report is not shown.

Note 5: Storage and usage are estimates based on most current information available.

Storage Estimates	
Balance Dth	107,663
WACOG \$/Dth	3.187

Schedule JSR-D-4

Proprietary

1/18

The Empire District ELECTRIC Company
Gas Position Summary as of April 30, 2015

	Current/Upcoming Year				All Years					Total Net All Years
	May 2015	June 2015	July 2015	Aug - Dec 2015	May - Dec 2015	Year 2016 60% min	Year 2017 40% min	Year 2018 20% min	Year 2019 10% min	
Budget Dth (3)	740,493	1,061,717	1,593,182	3,902,225	7,297,616	9,757,650	10,310,058	10,269,212	10,270,618	47,905,155
Expected Dth (3)	740,493	1,061,717	1,593,182	3,902,225	7,297,616	9,757,650	10,310,058	10,269,212	10,270,618	47,905,155
Policy minimum hedged Dth (2)	444,296	637,030	955,909	2,341,335	4,378,570	5,854,590	4,124,023	2,053,842	1,027,062	17,438,087
Policy Maximum hedged Dth	740,493	1,061,717	1,593,182	3,902,225	7,297,616	7,806,120	8,248,047	8,215,369	8,216,495	39,783,647
Amount de-designated from Hedge amount										-
Amount Hedged from Upside Volatility Dth	300,000	700,000	1,200,000	2,010,000	4,210,000	4,776,000	2,082,900	1,065,000	-	12,133,900
percentage	41%	66%	75%	52%	58%	49%	20%	10%	0%	25%
Amount Hedged from Downside Volatility Dth	\$ 300,000	\$ 700,000	\$ 1,200,000	\$ 2,010,000	\$ 4,210,000	\$ 4,776,000	\$ 2,082,900	\$ 1,065,000	\$ -	\$ 12,133,900
percentage	41%	66%	75%	52%	58%	49%	20%	10%	0%	25%
Average Cost per Dth hedged	\$ 3.961	\$ 3.450	\$ 5.014	\$ 4.494	\$ 4.431	\$ 3.898	\$ 4.133	\$ 4.121	\$ -	\$ 4.143
Net all Positions \$ (1)	\$ (460,800)	\$ (540,400)	\$ (2,704,600)	\$ (3,243,600)	\$ (6,949,400)	\$ (4,839,670)	\$ (2,090,248)	\$ (1,057,830)	\$ -	\$ (14,937,148)
PHYSICAL HEDGES										
Purchased Dth	\$ 100,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 700,000	\$ 2,676,000	\$ 782,900	\$ 565,000	\$ -	\$ 4,723,900
Purchased \$	\$ 391,500	\$ 785,500	\$ 785,500	\$ 785,500	\$ 2,748,000	\$ 9,344,800	\$ 2,863,350	\$ 2,130,450	\$ -	\$ 17,086,600
Purchased \$/Dth	\$ 3.915	\$ 3.928	\$ 3.928	\$ 3.928	\$ 3.926	\$ 3.492	\$ 3.657	\$ 3.771	\$ -	\$ 3.617
Market \$	\$ 224,000	\$ 498,800	\$ 509,600	\$ 514,000	\$ 1,746,400	\$ 7,198,230	\$ 2,250,592	\$ 1,653,620	\$ -	\$ 12,848,842
Market \$/Dth (on Southern Start Pipeline)	\$ 2.240	\$ 2.494	\$ 2.548	\$ 2.570	\$ 2.495	\$ 2.690	\$ 2.875	\$ 2.927	\$ -	\$ 2.720
Difference (\$) versus current market	\$ (167,500)	\$ (286,700)	\$ (275,900)	\$ (271,500)	\$ (1,001,600)	\$ (2,146,570)	\$ (612,758)	\$ (476,830)	\$ -	\$ (4,237,758)
FINANCIAL HEDGES										
Swap/Futures Dth Purchased	\$ 200,000	\$ 500,000	\$ 1,000,000	\$ 1,810,000	\$ 3,510,000	\$ 2,100,000	\$ 1,300,000	\$ 500,000	\$ -	\$ 7,410,000
Net Cost, \$/Dth	\$ 3.984	\$ 3.258	\$ 5.231	\$ 4.557	\$ 4.531	\$ 4.415	\$ 4.420	\$ 4.516	\$ -	\$ 4.478
Market \$/Dth (at Swap location)	\$ 2.517	\$ 2.751	\$ 2.802	\$ 2.915	\$ 2.837	\$ 3.132	\$ 3.263	\$ 3.354	\$ -	\$ 3.034
Difference (\$) versus current Market	\$ (293,300)	\$ (253,700)	\$ (2,428,700)	\$ (2,972,100)	\$ (5,947,800)	\$ (2,693,100)	\$ (1,477,490)	\$ (581,000)	\$ -	\$ (10,699,390)
Swap/Futures Dth Sold or Settle	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ -
Net Cost, \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (at Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Swap Settlement - Receipt / (Payment)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Call Dth (Buy a Call)	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ -
Call Strike \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (At Henry Hub or Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cost of Call \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Value \$ of Call Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Cost) \$ of Call Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Collar Dth	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ -
Floor \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Ceiling \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (at Henry Hub or Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cost of Floor \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Value of Ceiling \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Cost) / Value \$ of Collar Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Put Dth (Sell a Put)	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ -
Put Strike \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (at Henry Hub or Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Revenue from Put \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Value \$ of Put Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Cost) \$ of Put Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Note 1: Market data using NYMEX Close Prices as of April 30, 2015.

Note 2: Policy minimums are 12/31/2015 targets.

Note 3: For 2015 through 2019, Budgeted & Expected Dth are from FINAL F&PP Budget for 2015.

Note 4: Empire currently has no positions utilizing "options" and therefore the options section of this report is not shown.

Note 5: Storage and usage are estimates based on most current information available.

Storage Estimates	
Balance Dth	221,498
WACOG \$/Dth	2.973

The Empire District ELECTRIC Company Gas Position Summary as of May 31, 2015										
	Current/Upcoming Year				All Years					Total Not All Years
	June 2015	July 2015	August 2015	Sep - Dec 2015	Jun - Dec 2015	Year 2016 60% min	Year 2017 40% min	Year 2018 20% min	Year 2019 10% min	
Budget Dth (3)	1,061,717	1,593,182	1,847,835	2,054,390	6,557,124	9,757,650	10,310,058	10,269,212	10,270,618	47,164,662
Expected Dth (3)	1,061,717	1,593,182	1,847,835	2,054,390	6,557,124	9,757,650	10,310,058	10,269,212	10,270,618	47,164,662
Policy minimum hedged Dth (2)	637,030	955,909	1,108,701	1,232,634	3,934,274	5,854,590	4,124,023	2,053,842	1,027,062	16,993,792
Policy Maximum hedged Dth	1,061,717	1,593,182	1,847,835	2,054,390	6,557,124	7,806,120	8,248,047	8,215,369	8,216,495	39,043,154
Amount de-designated from Hedge amount										
Amount Hedged from Upside Volatility Dth percentage	700,000 66%	1,200,000 75%	1,310,000 71%	700,000 34%	3,910,000 60%	4,776,000 49%	2,082,900 20%	1,065,000 10%	- 0%	11,833,900 25%
Amount Hedged from Downside Volatility Dth percentage	\$ 700,000 66%	\$ 1,200,000 75%	\$ 1,310,000 71%	\$ 700,000 34%	\$ 3,910,000 60%	\$ 4,776,000 49%	\$ 2,082,900 20%	\$ 1,065,000 10%	\$ - 0%	\$ 11,833,900 25%
Average Cost per Dth hedged	\$ 3.450	\$ 5.014	\$ 4.527	\$ 4.433	\$ 4.467	\$ 3.898	\$ 4.133	\$ 4.121	\$ -	\$ 4.147
Not all Positions \$ (1)	\$ (497,700)	\$ (2,897,200)	\$ (2,490,050)	\$ (1,046,700)	\$ (6,931,650)	\$ (5,172,704)	\$ (2,193,104)	\$ (1,087,013)	\$ -	\$ (15,384,471)
PHYSICAL HEDGES										
Purchased Dth	\$ 200,000	\$ 200,000	\$ 200,000	\$ -	\$ 600,000	\$ 2,676,000	\$ 782,900	\$ 565,000	\$ -	\$ 4,623,900
Purchased \$	\$ 785,500	\$ 785,500	\$ 785,500	\$ -	\$ 2,356,500	\$ 9,344,800	\$ 2,863,350	\$ 2,130,450	\$ -	\$ 16,695,100
Purchased \$/Dth	\$ 3.928	\$ 3.928	\$ 3.928	\$ -	\$ 3.928	\$ 3.492	\$ 3.657	\$ 3.771	\$ -	\$ 3.611
Market \$	\$ 512,000	\$ 477,000	\$ 482,200	\$ -	\$ 1,471,200	\$ 7,000,496	\$ 2,199,116	\$ 1,636,438	\$ -	\$ 12,307,249
Market \$/Dth (on Southern Start Pipeline)	\$ 2.560	\$ 2.385	\$ 2.411	\$ -	\$ 2.452	\$ 2.616	\$ 2.809	\$ 2.896	\$ -	\$ 2.662
Difference (\$) versus current market	\$ (273,500)	\$ (308,500)	\$ (303,300)	\$ -	\$ (885,300)	\$ (2,344,304)	\$ (664,234)	\$ (494,013)	\$ -	\$ (4,387,851)
FINANCIAL HEDGES										
Swap/Futures Dth Purchased	\$ 500,000	\$ 1,000,000	\$ 1,110,000	\$ 700,000	\$ 3,310,000	\$ 2,100,000	\$ 1,300,000	\$ 500,000	\$ -	\$ 7,210,000
Net Cost, \$/Dth	\$ 3.258	\$ 5.231	\$ 4.635	\$ 4.433	\$ 4.564	\$ 4.415	\$ 4.420	\$ 4.516	\$ -	\$ 4.491
Market \$/Dth (at Swap location)	\$ 2.810	\$ 2.642	\$ 2.665	\$ 2.938	\$ 2.738	\$ 3.068	\$ 3.244	\$ 3.330	\$ -	\$ 2.966
Difference (\$) versus current Market	\$ (224,200)	\$ (2,588,700)	\$ (2,186,750)	\$ (1,046,700)	\$ (6,046,350)	\$ (2,828,400)	\$ (1,528,870)	\$ (593,000)	\$ -	\$ (10,996,620)
Swap/Futures Dth Sold or Settle	0	0	0	0	0	0	0	0	0	-
Net Cost, \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (at Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Swap Settlement - Receipt / (Payment)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Call Dth (Buy a Call)	0	0	0	0	0	0	0	0	0	-
Call Strike \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (At Henry Hub or Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cost of Call \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Value \$ of Call Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Cost) \$ of Call Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Collar Dth	0	0	0	0	0	0	0	0	0	-
Floor \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Ceiling \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (at Henry Hub or Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cost of Floor \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Value of Ceiling \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Cost) / Value \$ of Collar Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Put Dth (Sell a Put)	0	0	0	0	0	0	0	0	0	-
Put Strike \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (at Henry Hub or Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Revenue from Put \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Value \$ of Put Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Cost) \$ of Put Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Note 1: Market data using NYMEX Close Prices as of May 31, 2015.

Note 2: Policy minimums are 12/31/2015 targets.

Note 3: For 2015 through 2019, Budgeted & Expected Dth are from FINAL F&PP Budget for 2015.

Note 4: Empire currently has no positions utilizing "options" and therefore the options section of this report is not shown.

Note 5: Storage and usage are estimates based on most current information available.

Storage Estimates	
Balance Dth	243,770
WACOG \$/Dth	2.937

The Empire District ELECTRIC Company
Gas Position Summary as of June 30, 2015

	Current/Upcoming Year				All Years					Total Net All Years
	July 2015	August 2015	September 2015	Oct - Dec 2015	Jul - Dec 2015	Year 2016 60% min	Year 2017 40% min	Year 2018 20% min	Year 2019 10% min	
Budget Dth (3)	1,593,182	1,847,835	776,747	1,277,643	5,495,407	9,757,650	10,310,058	10,269,212	10,270,618	46,102,945
Expected Dth (3)	1,593,182	1,847,835	776,747	1,277,643	5,495,407	9,757,650	10,310,058	10,269,212	10,270,618	46,102,945
Policy minimum hedged Dth (2)	955,909	1,108,701	466,048	766,586	3,297,244	5,854,590	4,124,023	2,053,842	1,027,062	16,356,762
Policy Maximum hedged Dth	1,593,182	1,847,835	776,747	1,277,643	5,495,407	7,806,120	8,248,047	8,215,369	8,216,495	37,981,438
Amount de-designated from Hedge amount										
Amount Hedged from Upside Volatility Dth percentage	1,269,017	1,310,000	100,000	600,000	3,279,017	4,776,000	2,082,900	1,065,000	-	11,202,917
Amount Hedged from Downside Volatility Dth percentage	\$ 1,269,017	\$ 1,310,000	\$ 100,000	\$ 600,000	\$ 3,279,017	\$ 4,776,000	\$ 2,082,900	\$ 1,065,000	\$ -	\$ 11,202,917
Average Cost per Dth hedged	\$ 4.887	\$ 4.529	\$ 4.115	\$ 4.486	\$ 4.647	\$ 3.898	\$ 4.133	\$ 4.121	\$ -	\$ 4.182
Net all Positions \$ (1)	\$ (2,744,992)	\$ (2,257,480)	\$ (127,300)	\$ (828,200)	\$ (5,957,972)	\$ (4,601,582)	\$ (2,096,771)	\$ (1,065,565)	\$ -	\$ (13,721,890)
PHYSICAL HEDGES										
Purchased Dth	\$ 269,017	\$ 200,000	\$ -	\$ -	\$ 469,017	\$ 2,676,000	\$ 782,900	\$ 565,000	\$ -	\$ 4,492,917
Purchased \$	\$ 970,595	\$ 787,500	\$ -	\$ -	\$ 1,758,095	\$ 9,344,800	\$ 2,863,350	\$ 2,130,450	\$ -	\$ 16,096,695
Purchased \$/Dth	\$ 3.608	\$ 3.938	\$ -	\$ -	\$ 3.748	\$ 3.492	\$ 3.657	\$ 3.771	\$ -	\$ 3.583
Market \$	\$ 683,303	\$ 531,400	\$ -	\$ -	\$ 1,214,703	\$ 7,359,018	\$ 2,221,349	\$ 1,642,885	\$ -	\$ 12,437,855
Market \$/Dth (on Southern Start Pipeline)	\$ 2.540	\$ 2.657	\$ -	\$ -	\$ 2.590	\$ 2.750	\$ 2.837	\$ 2.908	\$ -	\$ 2.768
Difference (\$) versus current market	\$ (287,292)	\$ (256,100)	\$ -	\$ -	\$ (543,392)	\$ (1,985,782)	\$ (642,001)	\$ (487,565)	\$ -	\$ (3,658,740)
FINANCIAL HEDGES										
Swap/Futures Dth Purchased	\$ 1,000,000	\$ 1,110,000	\$ 100,000	\$ 600,000	\$ 2,810,000	\$ 2,100,000	\$ 1,300,000	\$ 500,000	\$ -	\$ 6,710,000
Net Cost, \$/Dth	\$ 5.231	\$ 4.635	\$ 4.115	\$ 4.486	\$ 4.797	\$ 4.415	\$ 4.420	\$ 4.516	\$ -	\$ 4.583
Market \$/Dth (at Swap location)	\$ 2.773	\$ 2.832	\$ 2.842	\$ 3.106	\$ 2.870	\$ 3.169	\$ 3.301	\$ 3.360	\$ -	\$ 3.083
Difference (\$) versus current Market	\$ (2,457,700)	\$ (2,001,380)	\$ (127,300)	\$ (828,200)	\$ (5,414,580)	\$ (2,615,800)	\$ (1,454,770)	\$ (578,000)	\$ -	\$ (10,063,150)
Swap/Futures Dth Sold or Settle	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ -
Net Cost, \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (at Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Swap Settlement - Receipt / (Payment)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Call Dth (Buy a Call)	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ -
Call Strike \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (At Henry Hub or Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cost of Call \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Value \$ of Call Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Cost) \$ of Call Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Collar Dth	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ -
Floor \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Ceiling \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (at Henry Hub or Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cost of Floor \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Value of Ceiling \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Cost) / Value \$ of Collar Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Put Dth (Sell a Put)	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ -
Put Strike \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (at Henry Hub or Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Revenue from Put \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Value \$ of Put Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Cost) \$ of Put Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Note 1: Market data using NYMEX Close Prices as of June 30, 2015.

Note 2: Policy minimums are 12/31/2015 targets.

Note 3: For 2015 through 2019, Budgeted & Expected Dth are from FINAL F&PP Budget for 2015.

Note 4: Empire currently has no positions utilizing "options" and therefore the options section of this report is not shown.

Note 5: Storage and usage are estimates based on most current information available.

Storage Estimates	
Balance Dth	322,858
WACOG \$/Dth	2.856

Schedule JSR-D-4

Proprietary

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The Empire District ELECTRIC Company Gas Position Summary as of July 31, 2015										
	Current/Upcoming Year				All Years					Total Net All Years
	August 2015	September 2015	October 2015	Nov - Dec 2015	Aug - Dec 2015	Year 2016 60% min	Year 2017 40% min	Year 2018 20% min	Year 2019 10% min	
Budget Dth (3)	1,847,835	776,747	510,885	766,758	3,902,225	9,757,650	10,310,058	10,269,212	10,270,618	44,509,763
Expected Dth (3)	1,847,835	776,747	510,885	766,758	3,902,225	9,757,650	10,310,058	10,269,212	10,270,618	44,509,763
Policy minimum hedged Dth (2)	1,108,701	468,048	306,531	460,055	2,341,335	5,854,590	4,124,023	2,053,842	1,027,062	15,400,852
Policy Maximum hedged Dth	1,847,835	776,747	510,885	766,758	3,902,225	7,806,120	8,248,047	8,215,369	8,216,495	36,388,255
Amount de-designated from Hedge amount										
Amount Hedged from Upside Volatility Dth	1,445,000	100,000	-	600,000	2,145,000	4,776,000	2,082,900	1,065,000	-	10,058,900
percentage	78%	13%	0%	78%	55%	49%	20%	10%	0%	23%
Amount Hedged from Downside Volatility Dth	\$ 1,445,000	\$ 100,000	\$ -	\$ 600,000	\$ 2,145,000	\$ 4,776,000	\$ 2,082,900	\$ 1,065,000	\$ -	\$ 10,058,900
percentage	78%	13%	0%	78%	55%	49%	20%	10%	0%	23%
Average Cost per Dth hedged	\$ 4.352	\$ 4.115	\$ -	\$ 4.486	\$ 4.379	\$ 3.898	\$ 4.133	\$ 4.121	\$ -	\$ 4.072
Not all Positions \$ (1)	\$ (2,184,340)	\$ (139,900)	\$ -	\$ (883,900)	\$ (3,208,140)	\$ (5,022,398)	\$ (2,371,315)	\$ (1,207,010)	\$ -	\$ (11,808,863)
PHYSICAL HEDGES										
Purchased Dth	\$ 335,000	\$ -	\$ -	\$ -	\$ 335,000	\$ 2,876,000	\$ 782,900	\$ 565,000	\$ -	\$ 4,358,900
Purchased \$	\$ 1,144,050	\$ -	\$ -	\$ -	\$ 1,144,050	\$ 9,344,800	\$ 2,863,350	\$ 2,130,450	\$ -	\$ 15,482,650
Purchased \$/Dth	\$ 3.415	\$ -	\$ -	\$ -	\$ 3.415	\$ 3.492	\$ 3.657	\$ 3.771	\$ -	\$ 3.552
Market \$	\$ 901,150	\$ -	\$ -	\$ -	\$ 901,150	\$ 7,150,502	\$ 2,098,905	\$ 1,550,690	\$ -	\$ 11,701,247
Market \$/Dth (on Southern Start Pipeline)	\$ 2.690	\$ -	\$ -	\$ -	\$ 2.690	\$ 2.672	\$ 2.681	\$ 2.745	\$ -	\$ 2.684
Difference (\$) versus current market	\$ (242,900)	\$ -	\$ -	\$ -	\$ (242,900)	\$ (2,194,298)	\$ (764,445)	\$ (579,760)	\$ -	\$ (3,781,403)
FINANCIAL HEDGES										
Swap/Futures Dth Purchased	\$ 1,110,000	\$ 100,000	\$ -	\$ 600,000	\$ 1,810,000	\$ 2,100,000	\$ 1,300,000	\$ 500,000	\$ -	\$ 5,710,000
Net Cost, \$/Dth	\$ 4.635	\$ 4.115	\$ -	\$ 4.486	\$ 4.557	\$ 4.415	\$ 4.420	\$ 4.516	\$ -	\$ 4.470
Market \$/Dth (at Swap location)	\$ 2.886	\$ 2.716	\$ -	\$ 3.013	\$ 2.919	\$ 3.068	\$ 3.184	\$ 3.262	\$ -	\$ 3.064
Difference (\$) versus current Market	\$ (1,941,440)	\$ (139,900)	\$ -	\$ (883,900)	\$ (2,965,240)	\$ (2,828,100)	\$ (1,606,870)	\$ (627,250)	\$ -	\$ (8,027,460)
Swap/Futures Dth Sold or Settle	0	0	0	0	0	0	0	0	0	-
Net Cost, \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (at Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Swap Settlement - Receipt / (Payment)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Call Dth (Buy a Call)	0	0	0	0	0	0	0	0	0	-
Call Strike \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (At Henry Hub or Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cost of Call \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Value \$ of Call Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Cost) \$ of Call Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Collar Dth	0	0	0	0	0	0	0	0	0	-
Floor \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Ceiling \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (at Henry Hub or Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cost of Floor \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Value of Ceiling \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Cost) / Value \$ of Collar Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Put Dth (Sell a Put)	0	0	0	0	0	0	0	0	0	-
Put Strike \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (at Henry Hub or Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Revenue from Put \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Value \$ of Put Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Cost) \$ of Put Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Note 1: Market data using NYMEX Close Prices as of July 31, 2015.

Note 2: Policy minimums are 12/31/2015 targets.

Note 3: For 2015 through 2019, Budgeted & Expected Dth are from FINAL F&PP Budget for 2015.

Note 4: Empire currently has no positions utilizing "options" and therefore the options section of this report is not shown.

Note 5: Storage and usage are estimates based on most current information available.

Storage Estimates	
Balance Dth	411,946
WACOG \$/Dth	2.806

The Empire District ELECTRIC Company
Gas Position Summary as of August 31, 2015

	Current/Upcoming Year				All Years					Total Net All Years
	September 2015	October 2015	November 2015	Dec - Dec 2015	Sep - Dec 2015	Year 2016 60% min	Year 2017 40% min	Year 2018 20% min	Year 2019 10% min	
Budget Dth (3)	776,747	510,885	388,808	377,951	2,054,390	9,757,650	10,310,058	10,269,212	10,270,618	42,661,928
Expected Dth (3)	776,747	510,885	388,808	377,951	2,054,390	9,757,650	10,310,058	10,269,212	10,270,618	42,661,928
Policy minimum hedged Dth (2)	466,048	306,531	233,285	226,770	1,232,634	5,854,590	4,124,023	2,053,842	1,027,062	14,292,151
Policy Maximum hedged Dth	776,747	510,885	388,808	377,951	2,054,390	7,806,120	8,248,047	8,215,369	8,216,495	34,540,420
Amount de-designated from Hedge amount										-
Amount Hedged from Upside Volatility Dth	110,000	-	100,000	500,000	710,000	4,776,000	2,082,900	1,065,000	-	8,633,900
percentage	14%	0%	26%	132%	35%	49%	20%	10%	0%	20%
Amount Hedged from Downside Volatility Dth	\$ 110,000	\$ -	\$ 100,000	\$ 500,000	\$ 710,000	\$ 4,776,000	\$ 2,082,900	\$ 1,065,000	\$ -	\$ 8,633,900
percentage	14%	0%	26%	132%	35%	49%	20%	10%	0%	20%
Average Cost per Dth hedged	\$ 3.965	\$ -	\$ 4.202	\$ 4.543	\$ 4.405	\$ 3.898	\$ 4.133	\$ 4.121	\$ -	\$ 4.024
Not all Positions \$ (1)	\$ (148,050)	\$ -	\$ (144,100)	\$ (819,000)	\$ (1,111,150)	\$ (5,376,626)	\$ (2,627,871)	\$ (1,348,235)	\$ -	\$ (10,463,882)
PHYSICAL HEDGES										
Purchased Dth	\$ 10,000	\$ -	\$ -	\$ -	\$ 10,000	\$ 2,676,000	\$ 782,900	\$ 565,000	\$ -	\$ 4,033,900
Purchased \$	\$ 24,650	\$ -	\$ -	\$ -	\$ 24,650	\$ 9,344,800	\$ 2,863,350	\$ 2,130,450	\$ -	\$ 14,363,250
Purchased \$/Dth	\$ 2.465	\$ -	\$ -	\$ -	\$ 2.465	\$ 3.492	\$ 3.657	\$ 3.771	\$ -	\$ 3.561
Market \$	\$ 24,300	\$ -	\$ -	\$ -	\$ 24,300	\$ 7,076,374	\$ 2,033,449	\$ 1,491,465	\$ -	\$ 10,625,588
Market \$/Dth (on Southern Start Pipeline)	\$ 2.430	\$ -	\$ -	\$ -	\$ 2.430	\$ 2.644	\$ 2.597	\$ 2.640	\$ -	\$ 2.634
Difference (\$) versus current market	\$ (350)	\$ -	\$ -	\$ -	\$ (350)	\$ (2,268,426)	\$ (829,901)	\$ (638,985)	\$ -	\$ (3,737,662)
FINANCIAL HEDGES										
Swap/Futures Dth Purchased	\$ 100,000	\$ -	\$ 100,000	\$ 500,000	\$ 700,000	\$ 2,100,000	\$ 1,300,000	\$ 500,000	\$ -	\$ 4,600,000
Net Cost, \$/Dth	\$ 4.115	\$ -	\$ 4.202	\$ 4.543	\$ 4.433	\$ 4.415	\$ 4.420	\$ 4.516	\$ -	\$ 4.430
Market \$/Dth (at Swap location)	\$ 2.638	\$ -	\$ 2.781	\$ 2.905	\$ 2.846	\$ 2.935	\$ 3.037	\$ 3.098	\$ -	\$ 2.968
Difference (\$) versus current Market	\$ (147,700)	\$ -	\$ (144,100)	\$ (819,000)	\$ (1,110,800)	\$ (3,108,200)	\$ (1,797,970)	\$ (709,250)	\$ -	\$ (6,726,220)
Swap/Futures Dth Sold or Settle	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ -
Net Cost, \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (at Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Swap Settlement - Receipt / (Payment)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Call Dth (Buy a Call)	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ -
Call Strike \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (At Henry Hub or Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cost of Call \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Value \$ of Call Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Cost) \$ of Call Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Collar Dth	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ -
Floor \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Ceiling \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (at Henry Hub or Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cost of Floor \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Value of Ceiling \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Cost) / Value \$ of Collar Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Put Dth (Sell a Put)	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ -
Put Strike \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (at Henry Hub or Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Revenue from Put \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Value \$ of Put Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Cost) \$ of Put Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Note 1: Market data using NYMEX Close Prices as of August 31, 2015.

Note 2: Policy minimums are 12/31/2015 targets.

Note 3: For 2015 through 2019, Budgeted & Expected Dth are from FINAL F&PP Budget for 2015.

Note 4: Empire currently has no positions utilizing "options" and therefore the options section of this report is not shown.

Note 5: Storage and usage are estimates based on most current information available.

Storage Estimates	
Balance Dth	500,799
WACOG \$/Dth	2.779

Schedule JSR-D-4

Proprietary

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The Empire District ELECTRIC Company Gas Position Summary as of September 30, 2015										
	Current/Upcoming Year				All Years					Total Net All Years
	October 2015	November 2015	December 2015	Jan - Dec 2016	Oct - Dec 2015	Year 2016 60% min	Year 2017 40% min	Year 2018 20% min	Year 2019 10% min	
Budget Dth (3)	510,885	388,808	377,951	9,757,650	1,277,643	9,757,650	10,310,058	10,269,212	10,270,618	41,885,181
Expected Dth (3)	510,885	388,808	377,951	9,757,650	1,277,643	9,757,650	10,310,058	10,269,212	10,270,618	41,885,181
Policy minimum hedged Dth (2)	306,531	233,285	226,770	5,854,590	766,586	5,854,590	4,124,023	2,053,842	1,027,062	13,826,103
Policy Maximum hedged Dth	510,885	388,808	377,951	9,757,650	1,277,643	7,806,120	8,248,047	8,215,369	8,216,495	33,763,674
Amount de-designated from Hedge amount										-
Amount Hedged from Upside Volatility Dth percentage	35,000 7%	100,000 26%	500,000 132%	5,256,000 54%	635,000 50%	5,256,000 54%	2,082,900 20%	1,065,000 10%	- 0%	9,038,900 22%
Amount Hedged from Downside Volatility Dth percentage	\$ 35,000 7%	\$ 100,000 26%	\$ 500,000 132%	\$ 5,256,000 54%	\$ 635,000 50%	\$ 5,256,000 54%	\$ 2,082,900 20%	\$ 1,065,000 10%	\$ - 0%	\$ 9,038,900 22%
Average Cost per Dth hedged	\$ 2.349	\$ 4.202	\$ 4.543	\$ 3.795	\$ 4.368	\$ 3.795	\$ 4.133	\$ 4.121	\$ -	\$ 3.894
Net all Positions \$ (1)	\$ 2.125	\$ (167,800)	\$ (921,000)	\$ (5,966,314)	\$ (1,086,675)	\$ (5,966,314)	\$ (2,844,762)	\$ (1,479,753)	\$ -	\$ (11,377,503)
PHYSICAL HEDGES										
Purchased Dth	\$ 35,000	\$ -	\$ -	\$ 2,676,000	\$ 35,000	\$ 2,676,000	\$ 782,900	\$ 565,000	\$ -	\$ 4,058,900
Purchased \$	\$ 82,225	\$ -	\$ -	\$ 9,344,800	\$ 82,225	\$ 9,344,800	\$ 2,863,350	\$ 2,130,450	\$ -	\$ 14,420,825
Purchased \$/Dth	\$ 2.349	\$ -	\$ -	\$ 3.492	\$ 2.349	\$ 3.492	\$ 3.657	\$ 3.771	\$ -	\$ 3.553
Market \$	\$ 84,350	\$ -	\$ -	\$ 6,761,506	\$ 84,350	\$ 6,761,506	\$ 1,969,778	\$ 1,429,448	\$ -	\$ 10,245,082
Market \$/Dth (on Southern Start Pipeline)	\$ 2.410	\$ -	\$ -	\$ 2.527	\$ 2.410	\$ 2.527	\$ 2.516	\$ 2.530	\$ -	\$ 2.524
Difference (\$) versus current market	\$ 2.125	\$ -	\$ -	\$ (2,583,294)	\$ 2.125	\$ (2,583,294)	\$ (893,572)	\$ (701,003)	\$ -	\$ (4,175,743)
FINANCIAL HEDGES										
Swap/Futures Dth Purchased	\$ -	\$ 100,000	\$ 500,000	\$ 2,580,000	\$ 600,000	\$ 2,580,000	\$ 1,300,000	\$ 500,000	\$ -	\$ 4,980,000
Net Cost, \$/Dth	\$ -	\$ 4.202	\$ 4.543	\$ 4.110	\$ 4.486	\$ 4.110	\$ 4.420	\$ 4.516	\$ -	\$ 4.277
Market \$/Dth (at Swap location)	\$ -	\$ 2.524	\$ 2.701	\$ 2.799	\$ 2.672	\$ 2.799	\$ 2.919	\$ 2.959	\$ -	\$ 2.831
Difference (\$) versus current Market	\$ -	\$ (167,800)	\$ (921,000)	\$ (3,383,020)	\$ (1,088,800)	\$ (3,383,020)	\$ (1,951,190)	\$ (778,750)	\$ -	\$ (7,201,760)
Swap/Futures Dth Sold or Settle	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ -
Net Cost, \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (at Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Swap Settlement - Receipt / (Payment)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Call Dth (Buy a Call)	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ -
Call Strike \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (At Henry Hub or Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cost of Call \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Value \$ of Call Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Cost) \$ of Call Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Collar Dth	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ -
Floor \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Ceiling \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (at Henry Hub or Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cost of Floor \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Value of Ceiling \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Cost) / Value \$ of Collar Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Put Dth (Sell a Put)	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ -
Put Strike \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (at Henry Hub or Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Revenue from Put \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Value \$ of Put Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Cost) \$ of Put Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Note 1: Market data using NYMEX Close Prices as of September 30, 2015.

Note 2: Policy minimums are 12/31/2015 targets.

Note 3: For 2015 through 2019, Budgeted & Expected Dth are from FINAL F&PP Budget for 2015.

Note 4: Empire currently has no positions utilizing "options" and therefore the options section of this report is not shown.

Note 5: Storage and usage are estimates based on most current information available.

Storage Estimates	
Balance Dth	649,279
WACOG \$/Dth	2.710

The Empire District ELECTRIC Company Gas Position Summary as of October 31, 2015										
	Current/Upcoming Year				All Years					Total Not All Years
	November 2015	December 2015	January 2016	Feb - Dec 2016	Nov - Dec 2015	Year 2016 60% min	Year 2017 40% min	Year 2018 20% min	Year 2019 10% min	
Budget Dth (3)	388,808	962,200	1,181,400	13,046,100	1,351,008	14,227,500	10,310,058	10,269,212	10,270,618	46,428,396
Expected Dth (3)	388,808	962,200	1,181,400	13,046,100	1,351,008	14,227,500	10,310,058	10,269,212	10,270,618	46,428,396
Policy minimum hedged Dth (2)	233,285	577,320	708,840	7,827,660	810,605	8,536,500	4,124,023	2,053,842	1,027,062	16,552,032
Policy Maximum hedged Dth	388,808	962,200	1,181,400	13,046,100	1,351,008	11,382,000	8,248,047	8,215,369	8,216,495	37,412,919
Amount de-designated from Hedge amount										-
Amount Hedged from Upside Volatility Dth	134,000	500,000	920,000	7,696,000	634,000	8,616,000	4,002,900	1,785,000	-	15,037,900
percentage	34%	52%	78%	59%	47%	61%	39%	17%	0%	32%
Amount Hedged from Downside Volatility Dth	\$ 134,000	\$ 500,000	\$ 920,000	\$ 7,696,000	\$ 634,000	\$ 8,616,000	\$ 4,002,900	\$ 1,785,000	\$ -	\$ 15,037,900
percentage	34%	52%	78%	59%	47%	61%	39%	17%	0%	32%
Average Cost per Dth hedged	\$ 3.564	\$ 4.543	\$ 3.127	\$ 3.406	\$ 4.336	\$ 3.376	\$ 3.549	\$ 3.666	\$ -	\$ 3.453
Net all Positions \$ (1)	\$ (210,350)	\$ (1,111,000)	\$ (585,600)	\$ (6,720,028)	\$ (1,321,350)	\$ (7,305,828)	\$ (3,337,512)	\$ (1,660,728)	\$ -	\$ (13,625,217)
PHYSICAL HEDGES										
Purchased Dth	\$ 34,000	\$ -	\$ -	\$ 2,676,000	\$ 34,000	\$ 2,676,000	\$ 782,900	\$ 565,000	\$ -	\$ 4,057,900
Purchased \$	\$ 57,410	\$ -	\$ -	\$ 9,344,800	\$ 57,410	\$ 9,344,800	\$ 2,863,350	\$ 2,130,450	\$ -	\$ 14,396,010
Purchased \$/Dth	\$ 1.689	\$ -	\$ -	\$ 3.492	\$ 1.689	\$ 3.492	\$ 3.657	\$ 3.771	\$ -	\$ 3.548
Market \$	\$ 64,260	\$ -	\$ -	\$ 6,365,762	\$ 64,260	\$ 6,365,762	\$ 1,865,228	\$ 1,384,913	\$ -	\$ 9,680,163
Market \$/Dth (on Southern Start Pipeline)	\$ 1.890	\$ -	\$ -	\$ 2.379	\$ 1.890	\$ 2.379	\$ 2.382	\$ 2.451	\$ -	\$ 2.386
Difference (\$) versus current market	\$ 6.850	\$ -	\$ -	\$ (2,979,038)	\$ 6.850	\$ (2,979,038)	\$ (998,122)	\$ (745,538)	\$ -	\$ (4,715,847)
FINANCIAL HEDGES										
Swap/Futures Dth Purchased	\$ 100,000	\$ 500,000	\$ 920,000	\$ 5,020,000	\$ 600,000	\$ 5,940,000	\$ 3,220,000	\$ 1,220,000	\$ -	\$ 10,980,000
Net Cost, \$/Dth	\$ 4.202	\$ 4.543	\$ 3.127	\$ 3.360	\$ 4.486	\$ 3.324	\$ 3.522	\$ 3.617	\$ -	\$ 3.478
Market \$/Dth (at Swap location)	\$ 2.030	\$ 2.321	\$ 2.490	\$ 2.614	\$ 2.273	\$ 2.595	\$ 2.796	\$ 2.867	\$ -	\$ 2.667
Difference (\$) versus current Market	\$ (217,200)	\$ (1,111,000)	\$ (585,600)	\$ (3,740,990)	\$ (1,328,200)	\$ (4,326,590)	\$ (2,339,390)	\$ (915,190)	\$ -	\$ (8,909,370)
Swap/Futures Dth Sold or Settle	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ -
Net Cost, \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (at Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Swap Settlement - Receipt / (Payment)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Call Dth (Buy a Call)	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ -
Call Strike \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (At Henry Hub or Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cost of Call \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Value \$ of Call Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Cost) \$ of Call Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Collar Dth	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ -
Floor \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Celling \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (at Henry Hub or Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cost of Floor \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Value of Collar \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Cost) / Value \$ of Collar Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Put Dth (Sell a Put)	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ -
Put Strike \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (at Henry Hub or Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Revenue from Put \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Value \$ of Put Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Cost) \$ of Put Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Note 1: Market data using NYMEX Close Prices as of October 31, 2015.

Note 2: Policy minimums are 12/31/2015 targets.

Note 3: For 2015 through 2019, Budgeted & Expected Dth are from FINAL F&PP Budget for 2015. *12/15-12/16 updated 10/20/2015 based on Preliminary 2016

Note 4: Empire currently has no positions utilizing "options" and therefore the options section of this report is not shown.

Note 5: Storage and usage are estimates based on most current information available.

Storage Estimates	
Balance Dth	703,817
WACOG \$/Dth	2.658

The Empire District ELECTRIC Company Gas Position Summary as of November 30, 2015										
	Current/Upcoming Year				All Years					Total Net All Years
	December 2015	January 2016	February 2016	Mar - Dec 2016	Dec - Dec 2015	Year 2016 60% min	Year 2017 40% min	Year 2018 20% min	Year 2019 10% min	
Budget Dth (3)	962,200	1,181,400	939,700	12,106,400	962,200	14,227,500	14,671,030	14,766,560	14,382,698	59,009,988
Expected Dth (3)	962,200	1,181,400	939,700	12,106,400	962,200	14,227,500	14,671,030	14,766,560	14,382,698	59,009,988
Policy minimum hedged Dth (2)	577,320	708,840	563,820	7,263,840	577,320	8,536,500	5,868,412	2,953,312	1,438,270	19,373,814
Policy Maximum hedged Dth	962,200	1,181,400	939,700	12,106,400	962,200	11,382,000	11,736,824	11,813,248	11,506,158	47,400,430
Amount co-designated from Hedge amount										-
Amount Hedged from Upside Volatility Dth percentage	508,888 53%	920,000 78%	720,000 77%	6,976,000 58%	508,888 53%	8,616,000 61%	5,992,900 41%	3,025,000 20%	1,460,000 10%	19,602,788 33%
Amount Hedged from Downside Volatility Dth percentage	\$ 508,888 53%	\$ 920,000 78%	\$ 720,000 77%	\$ 6,976,000 58%	\$ 508,888 53%	\$ 8,616,000 61%	\$ 5,992,900 41%	\$ 3,025,000 20%	\$ 1,460,000 10%	\$ 19,602,788 33%
Average Cost per Dth hedged	\$ 4.500	\$ 3.127	\$ 2.725	\$ 3.476	\$ 4.500	\$ 3.376	\$ 3.347	\$ 3.334	\$ 2.955	\$ 3.364
Net all Positions \$ (1)	\$ (1,168,553)	\$ (820,200)	\$ (312,960)	\$ (7,346,888)	\$ (1,168,553)	\$ (8,480,048)	\$ (3,679,412)	\$ (1,829,640)	\$ 168,500	\$ (14,989,153)
PHYSICAL HEDGES										
Purchased Dth	\$ 8,888	\$ -	\$ -	\$ 2,676,000	\$ 8,888	\$ 2,676,000	\$ 782,900	\$ 565,000	\$ -	\$ 4,032,788
Purchased \$	\$ 18,718	\$ -	\$ -	\$ 9,344,800	\$ 18,718	\$ 9,344,800	\$ 2,863,350	\$ 2,130,450	\$ -	\$ 14,357,318
Purchased \$/Dth	\$ 2.106	\$ -	\$ -	\$ 3.492	\$ 2.106	\$ 3.492	\$ 3.657	\$ 3.771	\$ -	\$ 3.560
Market \$	\$ 18,665	\$ -	\$ -	\$ 6,010,502	\$ 18,665	\$ 6,010,502	\$ 1,833,478	\$ 1,355,430	\$ -	\$ 9,219,075
Market \$/Dth (on Southern Start Pipeline)	\$ 2.100	\$ -	\$ -	\$ 2.246	\$ 2.100	\$ 2.246	\$ 2.342	\$ 2.401	\$ -	\$ 2.286
Difference (\$) versus current market	\$ (53)	\$ -	\$ -	\$ (3,334,298)	\$ (53)	\$ (3,334,298)	\$ (1,029,872)	\$ (774,020)	\$ -	\$ (5,138,243)
FINANCIAL HEDGES										
Swap/Futures Dth Purchased	\$ 500,000	\$ 920,000	\$ 720,000	\$ 4,300,000	\$ 500,000	\$ 5,940,000	\$ 5,210,000	\$ 2,460,000	\$ 1,460,000	\$ 15,570,000
Net Cost, \$/Dth	\$ 4.543	\$ 3.127	\$ 2.725	\$ 3.466	\$ 4.543	\$ 3.324	\$ 3.300	\$ 3.234	\$ 2.955	\$ 3.306
Market \$/Dth (at Swap location)	\$ 2.206	\$ 2.235	\$ 2.290	\$ 2.533	\$ 2.206	\$ 2.457	\$ 2.792	\$ 2.805	\$ 3.070	\$ 2.873
Difference (\$) versus current Market	\$ (1,168,500)	\$ (820,200)	\$ (312,960)	\$ (4,012,590)	\$ (1,168,500)	\$ (5,145,750)	\$ (2,649,540)	\$ (1,055,620)	\$ 168,500	\$ (9,850,910)
Swap/Futures Dth Sold or Settle	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ -
Net Cost, \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (at Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Swap Settlement - Receipt / (Payment)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Call Dth (Buy a Call)	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ -
Call Strike \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (At Henry Hub or Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cost of Call \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Value \$ of Call Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Cost) \$ of Call Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Collar Dth	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ -
Floor \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Ceiling \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (at Henry Hub or Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cost of Floor \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Value of Ceiling \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Cost) / Value \$ of Collar Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Put Dth (Sell a Put)	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ -
Put Strike \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (at Henry Hub or Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Revenue from Put \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Value \$ of Put Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Cost) \$ of Put Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Note 1: Market data using NYMEX Close Prices as of November 30, 2015.

Note 2: Policy minimums are 12/31/2015 targets.

Note 3: For 2015 through 2019, Budgeted & Expected Dth are from PRELIMINARY F&PP Budget for 2016.

Note 4: Empire currently has no positions utilizing "options" and therefore the options section of this report is not shown.

Note 5: Storage and usage are estimates based on most current information available.

Storage Estimates	
Balance Dth	589,756
WACOG \$/Dth	2.651

The Empire District ELECTRIC Company
Gas Position Summary as of December 31, 2015

	Current/Upcoming Year				All Years					Total Net All Years
	January 2016	February 2016	March 2016	Apr - Dec 2016	Jan - Dec 2016	Year 2017 40% min	Year 2018 20% min	Year 2019 10% min	Year 2020 0% min	
Budget Dth (3)	1,181,400	939,700	417,400	11,689,000	14,227,500	14,671,030	14,766,560	14,382,698	14,486,940	72,534,728
Expected Dth (3)	1,181,400	939,700	417,400	11,689,000	14,227,500	14,671,030	14,766,560	14,382,698	14,486,940	72,534,728
Policy minimum hedged Dth (2)	708,840	563,820	250,440	7,013,400	8,536,500	5,868,412	2,953,312	1,438,270	-	18,796,494
Policy Maximum hedged Dth	1,181,400	939,700	417,400	11,689,000	14,227,500	11,736,824	11,813,248	11,506,158	11,589,552	60,873,282
Amount de-designated from Hedge amount										-
Amount Hedged from Upside Volatility Dth	950,000	720,000	240,000	6,736,000	8,646,000	5,992,900	3,025,000	1,460,000	-	19,123,900
percentage	80%	77%	57%	58%	61%	41%	20%	10%	0%	26%
Amount Hedged from Downside Volatility Dth	\$ 950,000	\$ 720,000	\$ 240,000	\$ 6,736,000	\$ 8,646,000	\$ 5,992,900	\$ 3,025,000	\$ 1,460,000	\$ -	\$ 19,123,900
percentage	80%	77%	57%	58%	61%	41%	20%	10%	0%	26%
Average Cost per Dth hedged	\$ 3.100	\$ 2.725	\$ 2.552	\$ 3.509	\$ 3.372	\$ 3.347	\$ 3.334	\$ 2.955	\$ -	\$ 3.326
Net all Positions \$ (1)	\$ (698,210)	\$ (279,120)	\$ (45,360)	\$ (7,130,124)	\$ (8,152,814)	\$ (3,625,894)	\$ (1,738,665)	\$ 196,240	\$ -	\$ (13,321,133)
PHYSICAL HEDGES										
Purchased Dth	\$ 30,000	\$ -	\$ -	\$ 2,676,000	\$ 2,706,000	\$ 782,900	\$ 585,000	\$ -	\$ -	\$ 4,053,900
Purchased \$	\$ 68,550	\$ -	\$ -	\$ 9,344,800	\$ 9,413,350	\$ 2,863,350	\$ 2,130,450	\$ -	\$ -	\$ 14,407,150
Purchased \$/Dth	\$ 2,285	\$ -	\$ -	\$ 3,492	\$ 3,479	\$ 3,657	\$ 3,771	\$ -	\$ -	\$ 3,554
Market \$	\$ 64,500	\$ -	\$ -	\$ 6,080,646	\$ 6,145,146	\$ 1,864,446	\$ 1,387,405	\$ -	\$ -	\$ 9,396,997
Market \$/Dth (on Southern Start Pipeline)	\$ 2,150	\$ -	\$ -	\$ 2,272	\$ 2,271	\$ 2,381	\$ 2,456	\$ -	\$ -	\$ 2,318
Difference (\$) versus current market	\$ (4,050)	\$ -	\$ -	\$ (3,264,154)	\$ (3,268,204)	\$ (998,904)	\$ (743,045)	\$ -	\$ -	\$ (5,010,153)
FINANCIAL HEDGES										
Swap/Futures Dth Purchased	\$ 920,000	\$ 720,000	\$ 240,000	\$ 4,060,000	\$ 5,940,000	\$ 5,210,000	\$ 2,460,000	\$ 1,460,000	\$ -	\$ 15,070,000
Net Cost, \$/Dth	\$ 3.127	\$ 2.725	\$ 2.552	\$ 3.520	\$ 3.324	\$ 3.300	\$ 3.234	\$ 2.955	\$ -	\$ 3.265
Market \$/Dth (at Swap location)	\$ 2.372	\$ 2.337	\$ 2.363	\$ 2.568	\$ 2.501	\$ 2.796	\$ 2.829	\$ 3.089	\$ -	\$ 2.714
Difference (\$) versus current Market	\$ (694,160)	\$ (279,120)	\$ (45,360)	\$ (3,865,970)	\$ (4,884,610)	\$ (2,626,990)	\$ (995,620)	\$ 196,240	\$ -	\$ (8,310,980)
Swap/Futures Dth Sold or Settle	0	0	0	0	0	0	0	0	0	-
Net Cost, \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (at Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Swap Settlement - Receipt / (Payment)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Call Dth (Buy a Call)	0	0	0	0	0	0	0	0	0	-
Call Strike \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (At Henry Hub or Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cost of Call \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Value \$ of Call Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Cost) \$ of Call Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Collar Dth	0	0	0	0	0	0	0	0	0	-
Floor \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Ceiling \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (at Henry Hub or Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cost of Floor \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Value of Ceiling \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Cost) / Value \$ of Collar Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Put Dth (Sell a Put)	0	0	0	0	0	0	0	0	0	-
Put Strike \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (at Henry Hub or Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Revenue from Put \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Value \$ of Put Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Cost) \$ of Put Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Note 1: Market data using NYMEX Close Prices as of December 31, 2015.

Note 2: Policy minimums are 12/31/2015 targets.

Note 3: For 2015 through 2020, Budgeted & Expected Dth are from Final F&PP Budget for 2016-2020.

Note 4: Empire currently has no positions utilizing "options" and therefore the options section of this report is not shown.

Note 5: Storage and usage are estimates based on most current information available.

Storage Estimates	
Balance Dth	418,118
WACOG \$/Dth	2.634

The Empire District ELECTRIC Company Gas Position Summary as of January 31, 2016										
	Current/Upcoming Year				All Years					Total Not All Years
	February 2016	March 2016	April 2016	May - Dec 2016	Feb - Dec 2016	Year 2017 40% min	Year 2018 20% min	Year 2019 10% min	Year 2020 0% min	
Budget Dth (3)	939,700	417,400	670,700	11,018,300	13,046,100	14,671,030	14,766,560	14,382,698	14,486,940	71,353,328
Expected Dth (3)	939,700	417,400	670,700	11,018,300	13,046,100	14,671,030	14,766,560	14,382,698	14,486,940	71,353,328
Policy minimum hedged Dth (2)	563,820	250,440	402,420	6,610,980	7,827,660	5,868,412	2,953,312	1,438,270	-	18,087,654
Policy Maximum hedged Dth	939,700	417,400	670,700	11,018,300	13,046,100	11,736,824	11,813,248	11,506,158	11,589,552	59,691,882
Amount de-designated from Hedge amount										-
Amount Hedged from Upside Volatility Dth percentage	720,000 77%	240,000 57%	200,000 30%	6,336,000 58%	7,496,000 57%	5,992,900 41%	3,025,000 20%	1,460,000 10%	- 0%	17,973,900 25%
Amount Hedged from Downside Volatility Dth percentage	\$ 720,000 77%	\$ 240,000 57%	\$ 200,000 30%	\$ 6,336,000 58%	\$ 7,496,000 57%	\$ 5,992,900 41%	\$ 3,025,000 20%	\$ 1,460,000 10%	\$ - 0%	\$ 17,973,900 25%
Average Cost per Dth hedged	\$ 2.725	\$ 2.552	\$ 3.990	\$ 3.522	\$ 3.427	\$ 3.347	\$ 3.334	\$ 2.955	\$ -	\$ 3.346
Not all Positions \$ (1)	\$ (385,680)	\$ (60,960)	\$ (378,400)	\$ (7,122,610)	\$ (7,947,650)	\$ (3,847,320)	\$ (1,848,508)	\$ 153,900	\$ -	\$ (13,489,578)
PHYSICAL HEDGES										
Purchased Dth	\$ -	\$ -	\$ 200,000	\$ 2,476,000	\$ 2,676,000	\$ 782,900	\$ 565,000	\$ -	\$ -	\$ 4,023,900
Purchased \$	\$ -	\$ -	\$ 798,000	\$ 8,546,800	\$ 9,344,800	\$ 2,863,350	\$ 2,130,450	\$ -	\$ -	\$ 14,338,600
Purchased \$/Dth	\$ -	\$ -	\$ 3.990	\$ 3.452	\$ 3.492	\$ 3.657	\$ 3.771	\$ -	\$ -	\$ 3.563
Market \$	\$ -	\$ -	\$ 419,600	\$ 5,485,900	\$ 5,905,500	\$ 1,817,760	\$ 1,354,803	\$ -	\$ -	\$ 9,078,062
Market \$/Dth (on Southern Start Pipeline)	\$ -	\$ -	\$ 2.098	\$ 2.216	\$ 2.207	\$ 2.322	\$ 2.398	\$ -	\$ -	\$ 2.256
Difference (\$) versus current market	\$ -	\$ -	\$ (378,400)	\$ (3,060,900)	\$ (3,439,300)	\$ (1,045,590)	\$ (775,648)	\$ -	\$ -	\$ (5,260,538)
FINANCIAL HEDGES										
Swap/Futures Dth Purchased	\$ 720,000	\$ 240,000	\$ -	\$ 4,060,000	\$ 5,020,000	\$ 5,210,000	\$ 2,480,000	\$ 1,460,000	\$ -	\$ 14,150,000
Net Cost, \$/Dth	\$ 2.725	\$ 2.552	\$ -	\$ 3.520	\$ 3.360	\$ 3.300	\$ 3.234	\$ 2.955	\$ -	\$ 3.274
Market \$/Dth (at Swap location)	\$ 2.189	\$ 2.298	\$ -	\$ 2.520	\$ 2.462	\$ 2.763	\$ 2.798	\$ 3.060	\$ -	\$ 2.693
Difference (\$) versus current Market	\$ (385,680)	\$ (60,960)	\$ -	\$ (4,061,710)	\$ (4,508,350)	\$ (2,801,730)	\$ (1,072,860)	\$ 153,900	\$ -	\$ (8,229,040)
Swap/Futures Dth Sold or Settle	\$ -	\$ -	\$ -	\$ (200,000.00)	\$ (200,000.00)	\$ -	\$ -	\$ -	\$ -	\$ (200,000.00)
Net Cost, \$/Dth	\$ -	\$ -	\$ -	\$ 2.61	\$ 2.61	\$ -	\$ -	\$ -	\$ -	\$ 2.61
Market \$/Dth (at Swap location)	\$ -	\$ -	\$ -	\$ 2.47	\$ 2.47	\$ -	\$ -	\$ -	\$ -	\$ 2.47
Swap Settlement - Receipt / (Payment)	\$ -	\$ -	\$ -	\$ (0.14)	\$ (0.14)	\$ -	\$ -	\$ -	\$ -	\$ (0.14)
Call Dth (Buy a Call)	0	0	0	0	0	0	0	0	0	-
Call Strike \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (At Henry Hub or Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cost of Call \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Value \$ of Call Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Cost) \$ of Call Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Collar Dth	0	0	0	0	0	0	0	0	0	-
Floor \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Ceiling \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (at Henry Hub or Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cost of Floor \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Value of Ceiling \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Cost) / Value \$ of Collar Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Put Dth (Sell a Put)	0	0	0	0	0	0	0	0	0	-
Put Strike \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (at Henry Hub or Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Revenue from Put \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Value \$ of Put Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Cost) \$ of Put Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Note 1: Market data using NYMEX Close Prices as of January 31, 2016.

Note 2: Policy minimums are 12/31/2015 targets.

Note 3: For 2015 through 2020, Budgeted & Expected Dth are from Final F&PP Budget for 2016-2020.

Note 4: Empire currently has no positions utilizing "options" and therefore the options section of this report is not shown.

Note 5: Storage and usage are estimates based on most current information available.

Storage Estimates	
Balance Dth	328,118
WACOG \$/Dth	2.634

The Empire District ELECTRIC Company Gas Position Summary as of February 29, 2016										
	Current/Upcoming Year				All Years					Total Net All Years
	March 2016	April 2016	May 2016	Jun - Dec 2016	Mar - Dec 2016	Year 2017 60% min	Year 2018 40% min	Year 2019 20% min	Year 2020 10% min	
Budget Dth (3)	417,400	670,700	1,017,300	10,001,000	12,106,400	14,671,030	14,766,560	14,382,698	14,486,940	70,413,628
Expected Dth (3)	417,400	670,700	1,017,300	10,001,000	12,106,400	14,671,030	14,766,560	14,382,698	14,486,940	70,413,628
Policy minimum hedged Dth (2)	250,440	402,420	610,380	6,000,600	7,263,840	8,802,618	5,906,624	2,876,540	1,448,694	26,298,316
Policy Maximum hedged Dth	417,400	670,700	1,017,300	10,001,000	12,106,400	11,736,824	11,813,248	11,506,158	11,589,552	58,752,182
Amount de-designated from Hedge amount										-
Amount Hedged from Upside Volatility Dth	258,400	200,000	440,000	5,896,000	6,794,400	5,992,900	3,025,000	1,460,000	-	17,272,300
percentage	62%	30%	43%	59%	56%	41%	20%	10%	0%	25%
Amount Hedged from Downside Volatility Dth	\$ 258,400	\$ 200,000	\$ 440,000	\$ 5,896,000	\$ 6,794,400	\$ 5,992,900	\$ 3,025,000	\$ 1,460,000	\$ -	\$ 17,272,300
percentage	62%	30%	43%	59%	56%	41%	20%	10%	0%	25%
Average Cost per Dth hedged	\$ 2.470	\$ 3.990	\$ 3.189	\$ 3.547	\$ 3.496	\$ 3.347	\$ 3.334	\$ 2.955	\$ -	\$ 3.370
Not all Positions \$ (1)	\$ (284,542)	\$ (497,600)	\$ (659,720)	\$ (9,330,373)	\$ (10,772,234)	\$ (5,144,821)	\$ (2,601,900)	\$ (547,000)	\$ -	\$ (19,066,056)
PHYSICAL HEDGES										
Purchased Dth	\$ 18,400	\$ 200,000	\$ 200,000	\$ 2,276,000	\$ 2,694,400	\$ 782,900	\$ 565,000	\$ -	\$ -	\$ 4,042,300
Purchased \$	\$ 26,118	\$ 798,000	\$ 798,000	\$ 7,748,800	\$ 9,370,918	\$ 2,863,350	\$ 2,130,450	\$ -	\$ -	\$ 14,364,718
Purchased \$/Dth	\$ 1.419	\$ 3.990	\$ 3.990	\$ 3.405	\$ 3.478	\$ 3.657	\$ 3.771	\$ -	\$ -	\$ 3.554
Market \$	\$ 27,416	\$ 300,400	\$ 309,400	\$ 4,005,878	\$ 4,643,094	\$ 1,704,179	\$ 1,245,890	\$ -	\$ -	\$ 7,593,163
Market \$/Dth (on Southern Start Pipeline)	\$ 1.490	\$ 1.502	\$ 1.547	\$ 1.760	\$ 1.723	\$ 2.177	\$ 2.205	\$ -	\$ -	\$ 1.878
Difference (\$) versus current market	\$ 1.298	\$ (497,600)	\$ (488,600)	\$ (3,742,922)	\$ (4,727,824)	\$ (1,159,171)	\$ (884,560)	\$ -	\$ -	\$ (6,771,555)
FINANCIAL HEDGES										
Swap/Futures Dth Purchased	\$ 480,000	\$ -	\$ 240,000	\$ 3,820,000	\$ 4,540,000	\$ 5,210,000	\$ 2,460,000	\$ 1,460,000	\$ -	\$ 13,670,000
Net Cost, \$/Dth	\$ 2.307	\$ -	\$ 2.521	\$ 3.583	\$ 3.392	\$ 3.300	\$ 3.234	\$ 2.955	\$ -	\$ 3.282
Market \$/Dth (at Swap location)	\$ 1.711	\$ -	\$ 1.808	\$ 2.120	\$ 2.060	\$ 2.535	\$ 2.536	\$ 2.580	\$ -	\$ 2.382
Difference (\$) versus current Market	\$ (285,840)	\$ -	\$ (171,120)	\$ (5,587,450)	\$ (6,044,410)	\$ (3,985,750)	\$ (1,717,340)	\$ (547,000)	\$ -	\$ (12,294,500)
Swap/Futures Dth Sold or Settle	\$ (240,000.00)	\$ -	\$ -	\$ (200,000.00)	\$ (440,000.00)	\$ -	\$ -	\$ -	\$ -	\$ (440,000.00)
Net Cost, \$/Dth	\$ 2.06	\$ -	\$ -	\$ 2.61	\$ 2.31	\$ -	\$ -	\$ -	\$ -	\$ 2.31
Market \$/Dth (at Swap location)	\$ 1.71	\$ -	\$ -	\$ 2.03	\$ 1.86	\$ -	\$ -	\$ -	\$ -	\$ 1.86
Swap Settlement - Receipt / (Payment)	\$ (0.35)	\$ -	\$ -	\$ (0.57)	\$ (0.45)	\$ -	\$ -	\$ -	\$ -	\$ (0.45)
Call Dth (Buy a Call)	0	0	0	0	0	0	0	0	0	-
Call Strike \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (At Henry Hub or Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cost of Call \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Value \$ of Call Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Cost) \$ of Call Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Collar Dth	0	0	0	0	0	0	0	0	0	-
Floor \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Ceiling \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (at Henry Hub or Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cost of Floor \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Value of Ceiling \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Cost) / Value \$ of Collar Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Put Dth (Sell a Put)	0	0	0	0	0	0	0	0	0	-
Put Strike \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (at Henry Hub or Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Revenue from Put \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Value \$ of Put Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Cost) \$ of Put Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Note 1: Market data using NYMEX Close Prices as of February 29, 2016.

Note 2: Policy minimums are 12/31/2015 targets.

Note 3: For 2015 through 2020, Budgeted & Expected Dth are from Final F&PP Budget for 2016-2020.

Note 4: Empire currently has no positions utilizing "options" and therefore the options section of this report is not shown.

Note 5: Storage and usage are estimates based on most current information available.

Storage Estimates	
Balance Dth	46,118
WACOG \$/Dth	2.631

Schedule JSR-D-4

Proprietary

12/18

The Empire District ELECTRIC Company
Gas Position Summary as of March 31, 2016

	Current/Upcoming Year				All Years					Total Not All Years
	April 2016	May 2016	June 2016	Jul - Dec 2016	Apr - Dec 2016	Year 2017 60% min	Year 2018 40% min	Year 2019 20% min	Year 2020 10% min	
Budget Dth (3)	670,700	1,017,300	1,091,600	8,909,400	11,689,000	14,671,030	14,766,560	14,382,698	14,486,940	69,996,228
Expected Dth (3)	670,700	1,017,300	1,091,600	8,909,400	11,689,000	14,671,030	14,766,560	14,382,698	14,486,940	69,996,228
Policy minimum hedged Dth (2)	402,420	610,380	654,960	5,345,640	7,013,400	8,802,618	5,906,824	2,876,540	1,448,694	26,047,876
Policy Maximum hedged Dth	670,700	1,017,300	1,091,600	8,909,400	11,689,000	11,736,824	11,813,248	11,506,158	11,589,552	58,334,782
Amount de-designated from Hedge amount										
Amount Hedged from Upside Volatility Dth	200,000	440,000	540,000	5,356,000	6,536,000	5,992,900	3,025,000	1,460,000	-	17,013,900
percentage	30%	43%	49%	60%	56%	41%	20%	10%	0%	24%
Amount Hedged from Downside Volatility Dth	\$ 200,000	\$ 440,000	\$ 540,000	\$ 5,356,000	\$ 6,536,000	\$ 5,992,900	\$ 3,025,000	\$ 1,460,000	\$ -	\$ 17,013,900
percentage	30%	43%	49%	60%	56%	41%	20%	10%	0%	24%
Average Cost per Dth hedged	\$ 3.990	\$ 3.189	\$ 3.844	\$ 3.517	\$ 3.537	\$ 3.347	\$ 3.334	\$ 2.955	\$ -	\$ 3.384
Not all Positions \$ (1)	\$ (476,000)	\$ (588,080)	\$ (1,072,820)	\$ (7,074,392)	\$ (9,211,292)	\$ (3,685,650)	\$ (1,823,803)	\$ (166,440)	\$ -	\$ (14,887,185)
PHYSICAL HEDGES										
Purchased Dth	\$ 200,000	\$ 200,000	\$ 440,000	\$ 1,836,000	\$ 2,676,000	\$ 782,900	\$ 565,000	\$ -	\$ -	\$ 4,023,900
Purchased \$	\$ 798,000	\$ 798,000	\$ 1,650,000	\$ 6,098,800	\$ 9,344,800	\$ 2,863,350	\$ 2,130,450	\$ -	\$ -	\$ 14,338,600
Purchased \$/Dth	\$ 3.990	\$ 3.990	\$ 3.750	\$ 3.322	\$ 3.492	\$ 3.657	\$ 3.771	\$ -	\$ -	\$ 3.563
Market \$	\$ 322,000	\$ 344,800	\$ 797,280	\$ 3,632,118	\$ 5,096,198	\$ 1,890,550	\$ 1,409,508	\$ -	\$ -	\$ 8,396,256
Market \$/Dth (on Southern Start Pipeline)	\$ 1.610	\$ 1.724	\$ 1.812	\$ 1.978	\$ 1.904	\$ 2.415	\$ 2.495	\$ -	\$ -	\$ 2.087
Difference (\$) versus current market	\$ (476,000)	\$ (453,200)	\$ (852,720)	\$ (2,466,682)	\$ (4,248,602)	\$ (972,800)	\$ (720,943)	\$ -	\$ -	\$ (5,942,344)
FINANCIAL HEDGES										
Swap/Futures Dth Purchased	\$ -	\$ 240,000	\$ 100,000	\$ 3,720,000	\$ 4,060,000	\$ 5,210,000	\$ 2,460,000	\$ 1,460,000	\$ -	\$ 13,190,000
Net Cost, \$/Dth	\$ -	\$ 2.521	\$ 4.255	\$ 3.565	\$ 3.520	\$ 3.300	\$ 3.234	\$ 2.955	\$ -	\$ 3.317
Market \$/Dth (at Swap location)	\$ -	\$ 1.959	\$ 2.054	\$ 2.326	\$ 2.298	\$ 2.780	\$ 2.785	\$ 2.841	\$ -	\$ 2.639
Difference (\$) versus current Market	\$ -	\$ (134,880)	\$ (220,100)	\$ (4,607,710)	\$ (4,962,690)	\$ (2,712,650)	\$ (1,102,860)	\$ (166,440)	\$ -	\$ (8,944,840)
Swap/Futures Dth Sold or Settle	\$ -	\$ -	\$ -	\$ (200,000.00)	\$ (200,000.00)	\$ -	\$ -	\$ -	\$ -	\$ (200,000.00)
Net Cost, \$/Dth	\$ -	\$ -	\$ -	\$ 2.61	\$ 2.61	\$ -	\$ -	\$ -	\$ -	\$ 2.61
Market \$/Dth (at Swap location)	\$ -	\$ -	\$ -	\$ 2.21	\$ 2.21	\$ -	\$ -	\$ -	\$ -	\$ 2.21
Swap Settlement - Receipt / (Payment)	\$ -	\$ -	\$ -	\$ (0.39)	\$ (0.39)	\$ -	\$ -	\$ -	\$ -	\$ (0.39)
Call Dth (Buy a Call)	0	0	0	0	0	0	0	0	0	-
Call Strike \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (At Henry Hub or Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cost of Call \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Value \$ of Call Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Cost) \$ of Call Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Collar Dth	0	0	0	0	0	0	0	0	0	-
Floor \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Ceiling \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (at Henry Hub or Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cost of Floor \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Value of Ceiling \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Cost) / Value \$ of Collar Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Put Dth (Sell a Put)	0	0	0	0	0	0	0	0	0	-
Put Strike \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (at Henry Hub or Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Revenue from Put \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Value \$ of Put Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Cost) \$ of Put Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Note 1: Market data using NYMEX Close Prices as of March 31, 2016.

Note 2: Policy minimums are 12/31/2015 targets.

Note 3: For 2015 through 2020, Budgeted & Expected Dth are from Final F&PP Budget for 2016-2020.

Note 4: Empire currently has no positions utilizing "options" and therefore the options section of this report is not shown.

Note 5: Storage and usage are estimates based on most current information available.

Storage Estimates	
Balance Dth	-
WACOG \$/Dth	0.000

The Empire District Electric Company										
Gas Position Summary as of April 30, 2016										
	Current/Upcoming Year				All Years					Total
	May 2016	June 2016	July 2016	Aug - Dec 2016	May - Dec 2016	Year 2017 60% min	Year 2018 40% min	Year 2019 20% min	Year 2020 10% min	Net All Years
SUMMARY										
Budget Dth (3)	1,017,300	1,091,600	2,085,200	6,824,200	11,018,300	14,671,030	14,766,560	14,382,698	14,486,940	69,325,528
Expected Dth (3)	1,017,300	1,091,600	2,085,200	6,824,200	11,018,300	14,671,030	14,766,560	14,382,698	14,486,940	69,325,528
Policy minimum hedged Dth (2)	610,380	654,960	1,251,120	4,094,520	6,610,980	8,802,618	5,906,624	2,876,540	1,448,694	25,645,456
Policy Maximum hedged Dth	1,017,300	1,091,600	2,085,200	6,824,200	11,018,300	11,736,824	11,813,248	11,506,158	11,589,552	57,664,082
Amount de-designated from Hedge amount										
Amount Hedged from Upside Volatility Dth percentage	490,000	540,000	2,078,000	3,278,000	6,386,000	5,992,800	3,025,000	1,460,000	-	16,863,900
	48%	49%	100%	48%	58%	41%	20%	10%	0%	24%
Amount Hedged from Downside Volatility Dth percentage	\$ 490,000	\$ 540,000	\$ 2,078,000	\$ 3,278,000	\$ 6,386,000	\$ 5,992,800	\$ 3,025,000	\$ 1,460,000	\$ -	\$ 16,863,900
	48%	49%	100%	48%	58%	41%	20%	10%	0%	24%
Average Cost per Dth hedged	\$ 3.045	\$ 3.844	\$ 3.577	\$ 3.479	\$ 3.509	\$ 3.347	\$ 3.334	\$ 2.955	\$ -	\$ 3.372
Net all Positions \$ (1)	\$ (573,490)	\$ (979,020)	\$ (2,763,912)	\$ (3,141,712)	\$ (7,458,134)	\$ (2,173,162)	\$ (1,302,363)	\$ (21,880)	\$ -	\$ (10,955,539)
PHYSICAL HEDGES										
Purchased Dth	\$ 250,000	\$ 440,000	\$ 798,000	\$ 1,038,000	\$ 2,526,000	\$ 782,900	\$ 565,000	\$ -	\$ -	\$ 3,873,900
Purchased \$	\$ 887,250	\$ 1,650,000	\$ 2,623,400	\$ 3,475,400	\$ 8,636,050	\$ 2,863,350	\$ 2,130,450	\$ -	\$ -	\$ 13,629,850
Purchased \$/Dth	\$ 3.549	\$ 3.750	\$ 3.287	\$ 3.348	\$ 3.419	\$ 3.657	\$ 3.771	\$ -	\$ -	\$ 3.518
Market \$	\$ 440,000	\$ 878,680	\$ 1,696,548	\$ 2,305,818	\$ 5,321,046	\$ 2,143,398	\$ 1,545,208	\$ -	\$ -	\$ 9,009,652
Market \$/Dth (on Southern Start Pipeline)	\$ 1.760	\$ 1.997	\$ 2.126	\$ 2.221	\$ 2.107	\$ 2.738	\$ 2.735	\$ -	\$ -	\$ 2.326
Difference (\$) versus current market	\$ (447,250)	\$ (771,320)	\$ (928,852)	\$ (1,169,582)	\$ (3,315,004)	\$ (719,952)	\$ (585,243)	\$ -	\$ -	\$ (4,620,198)
FINANCIAL HEDGES										
Swap/Futures Dth Purchased	\$ 240,000	\$ 100,000	\$ 1,280,000	\$ 2,440,000	\$ 4,060,000	\$ 5,210,000	\$ 2,460,000	\$ 1,460,000	\$ -	\$ 13,190,000
Net Cost, \$/Dth	\$ 2.521	\$ 4.255	\$ 3.757	\$ 3.464	\$ 3.520	\$ 3.300	\$ 3.234	\$ 2.955	\$ -	\$ 3.317
Market \$/Dth (at Swap location)	\$ 1.995	\$ 2.178	\$ 2.322	\$ 2.655	\$ 2.498	\$ 3.021	\$ 2.942	\$ 2.940	\$ -	\$ 2.837
Difference (\$) versus current Market	\$ (126,240)	\$ (207,700)	\$ (1,837,060)	\$ (1,972,130)	\$ (4,143,130)	\$ (1,453,210)	\$ (717,120)	\$ (21,880)	\$ -	\$ (6,335,340)
Swap/Futures Dth Sold or Settle	\$ -	\$ -	\$ -	\$ (200,000.00)	\$ (200,000.00)	\$ -	\$ -	\$ -	\$ -	\$ (200,000.00)
Net Cost, \$/Dth	\$ -	\$ -	\$ -	\$ 2.61	\$ 2.61	\$ -	\$ -	\$ -	\$ -	\$ 2.61
Market \$/Dth (at Swap location)	\$ -	\$ -	\$ -	\$ 2.41	\$ 2.41	\$ -	\$ -	\$ -	\$ -	\$ 2.41
Swap Settlement - Receipt / (Payment)	\$ -	\$ -	\$ -	\$ (0.19)	\$ (0.19)	\$ -	\$ -	\$ -	\$ -	\$ (0.19)
Call Dth (Buy a Call)	0	0	0	0	0	0	0	0	0	-
Call Strike \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (At Henry Hub or Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cost of Call \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Value \$ of Call Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Cost) \$ of Call Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Collar Dth	0	0	0	0	0	0	0	0	0	-
Floor \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Ceiling \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (at Henry Hub or Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cost of Floor \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Value of Collar \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Cost) / Value \$ of Collar Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Put Dth (Sell a Put)	0	0	0	0	0	0	0	0	0	-
Put Strike \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (at Henry Hub or Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Revenue from Put \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Value \$ of Put Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Cost) \$ of Put Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Note 1: Market data using NYMEX Close Prices as of April 30, 2016.

Note 2: Policy minimums are 12/31/2016 targets.

Note 3: For 2016 through 2020, Budgeted & Expected Dth are from Final F&PP Budget for 2016-2020.

Note 4: Empire currently has no positions utilizing "options" and therefore the options section of this report is not shown.

Note 5: Storage and usage are estimates based on most current information available.

Storage Estimates	
Balance Dth	-
WACOG \$/Dth	0.000

The Empire District Electric Company
Gas Position Summary as of May 31, 2016

	Current/Upcoming Year				All Years					Total Not All Years
	June 2016	July 2016	August 2016	Sep - Dec 2016	Jun - Dec 2016	Year 2017 60% min	Year 2018 40% min	Year 2019 20% min	Year 2020 10% min	
SUMMARY										
Budget Dth (3)	1,091,600	2,085,200	1,930,300	4,893,900	10,001,000	14,671,030	14,766,560	14,382,698	14,486,940	68,308,228
Expected Dth (3)	1,091,600	2,085,200	1,930,300	4,893,900	10,001,000	14,671,030	14,766,560	14,382,698	14,486,940	68,308,228
Policy minimum hedged Dth (2)	654,960	1,251,120	1,158,180	2,936,340	6,000,600	8,802,618	5,906,624	2,876,540	1,448,694	25,035,076
Policy Maximum hedged Dth	1,091,600	2,085,200	1,930,300	4,893,900	10,001,000	11,736,824	11,813,248	11,506,158	11,589,552	56,646,782
Amount do-designated from Hedge amount										-
Amount Hedged from Upside Volatility Dth percentage	609,017 56%	2,078,000 100%	1,878,000 97%	1,400,000 29%	5,965,017 60%	5,992,900 41%	3,025,000 20%	1,460,000 10%	- 0%	16,442,917 24%
Amount Hedged from Downside Volatility Dth percentage	\$ 609,017 56%	\$ 2,078,000 100%	\$ 1,878,000 97%	\$ 1,400,000 29%	\$ 5,965,017 60%	\$ 5,992,900 41%	\$ 3,025,000 20%	\$ 1,460,000 10%	\$ - 0%	\$ 16,442,917 24%
Average Cost per Dth hedged	\$ 3.625	\$ 3.577	\$ 3.691	\$ 3.196	\$ 3.528	\$ 3.347	\$ 3.334	\$ 2.955	\$ -	\$ 3.376
Net all Positions \$ (1)	\$ (1,105,402)	\$ (2,789,876)	\$ (2,612,526)	\$ (559,450)	\$ (7,067,254)	\$ (2,187,867)	\$ (1,313,098)	\$ 10,240	\$ -	\$ (10,557,979)
PHYSICAL HEDGES										
Purchased Dth	\$ 509,017	\$ 798,000	\$ 798,000	\$ 240,000	\$ 2,345,017	\$ 782,900	\$ 565,000	\$ -	\$ -	\$ 3,692,917
Purchased \$	\$ 1,782,252	\$ 2,623,400	\$ 2,623,400	\$ 852,000	\$ 7,881,052	\$ 2,863,350	\$ 2,130,450	\$ -	\$ -	\$ 12,874,852
Purchased \$/Dth	\$ 3.501	\$ 3.287	\$ 3.287	\$ 3.550	\$ 3.361	\$ 3.657	\$ 3.771	\$ -	\$ -	\$ 3.486
Market \$	\$ 906,050	\$ 1,714,104	\$ 1,789,914	\$ 550,320	\$ 4,960,388	\$ 2,156,373	\$ 1,552,653	\$ -	\$ -	\$ 8,669,414
Market \$/Dth (on Southern Start Pipeline)	\$ 1.780	\$ 2.148	\$ 2.243	\$ 2.293	\$ 2.115	\$ 2.754	\$ 2.748	\$ -	\$ -	\$ 2.348
Difference (\$) versus current market	\$ (876,202)	\$ (909,296)	\$ (833,486)	\$ (301,680)	\$ (2,920,664)	\$ (706,977)	\$ (577,798)	\$ -	\$ -	\$ (4,205,438)
FINANCIAL HEDGES										
Swap/Futures Dth Purchased	\$ 100,000	\$ 1,280,000	\$ 1,280,000	\$ 1,160,000	\$ 3,820,000	\$ 5,210,000	\$ 2,460,000	\$ 1,460,000	\$ -	\$ 12,950,000
Net Cost, \$/Dth	\$ 4.255	\$ 3.757	\$ 3.773	\$ 3.122	\$ 3.583	\$ 3.300	\$ 3.234	\$ 2.955	\$ -	\$ 3.332
Market \$/Dth (at Swap location)	\$ 1.963	\$ 2.288	\$ 2.383	\$ 2.900	\$ 2.497	\$ 3.016	\$ 2.835	\$ 2.962	\$ -	\$ 2.841
Difference (\$) versus current Market	\$ (229,200)	\$ (1,880,580)	\$ (1,779,040)	\$ (257,770)	\$ (4,146,590)	\$ (1,480,890)	\$ (735,300)	\$ 10,240	\$ -	\$ (6,352,540)
Swap/Futures Dth Sold or Settle	\$ -	\$ -	\$ (200,000.00)	\$ -	\$ (200,000.00)	\$ -	\$ -	\$ -	\$ -	\$ (200,000.00)
Net Cost, \$/Dth	\$ -	\$ -	\$ 2.61	\$ -	\$ 2.61	\$ -	\$ -	\$ -	\$ -	\$ 2.61
Market \$/Dth (at Swap location)	\$ -	\$ -	\$ 2.38	\$ -	\$ 2.38	\$ -	\$ -	\$ -	\$ -	\$ 2.38
Swap Settlement - Receipt / (Payment)	\$ -	\$ -	\$ (0.22)	\$ -	\$ (0.22)	\$ -	\$ -	\$ -	\$ -	\$ (0.22)
Call Dth (Buy a Call)	0	0	0	0	0	0	0	0	0	-
Call Strike \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (At Henry Hub or Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cost of Call \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Value \$ of Call Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Cost) \$ of Call Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Collar Dth	0	0	0	0	0	0	0	0	0	-
Floor \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Coiling \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (at Henry Hub or Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cost of Floor \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Value of Coiling \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Cost) / Value \$ of Collar Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Put Dth (Sell a Put)	0	0	0	0	0	0	0	0	0	-
Put Strike \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (at Henry Hub or Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Revenue from Put \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Value \$ of Put Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Cost) \$ of Put Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Note 1: Market data using NYMEX Close Prices as of May 31, 2016.

Note 2: Policy minimums are 12/31/2016 targets.

Note 3: For 2016 through 2020, Budgeted & Expected Dth are from Final F&PP Budget for 2016-2020.

Note 4: Empire currently has no positions utilizing "options" and therefore the options section of this report is not shown.

Note 5: Storage and usage are estimates based on most current information available.

Storage Estimates	
Balance Dth	-
WACOG \$/Dth	0.000

The Empire District Electric Company Gas Position Summary as of June 30, 2016										
	Current/Upcoming Year				All Years					Total
	July 2016	August 2016	September 2016	Oct - Dec 2016	Jul - Dec 2016	Year 2017 60% min	Year 2018 40% min	Year 2019 20% min	Year 2020 10% min	Not All Years
SUMMARY										
Budget Dth (3)	2,085,200	1,930,300	1,398,500	3,495,400	8,909,400	14,671,030	14,766,560	14,382,698	14,486,940	67,216,828
Expected Dth (3)	2,085,200	1,930,300	1,398,500	3,495,400	8,909,400	14,671,030	14,766,560	14,382,698	14,486,940	67,216,828
Policy minimum hedged Dth (2)	1,251,120	1,158,180	839,100	2,097,240	5,345,640	8,802,618	5,908,624	2,876,540	1,448,694	24,380,116
Policy Maximum hedged Dth	2,085,200	1,930,300	1,398,500	3,495,400	8,909,400	11,736,824	11,813,248	11,506,158	11,589,552	55,555,182
Amount do-designated from Hedge amount										
Amount Hedged from Upside Volatility Dth	2,145,017	1,878,000	240,000	1,160,000	5,423,017	5,992,900	3,025,000	1,460,000	-	15,900,917
percentage	103%	97%	17%	33%	61%	41%	20%	10%	0%	24%
Amount Hedged from Downside Volatility Dth	\$ 2,145,017	\$ 1,878,000	\$ 240,000	\$ 1,160,000	\$ 5,423,017	\$ 5,992,900	\$ 3,025,000	\$ 1,460,000	\$ -	\$ 15,900,917
percentage	103%	97%	17%	33%	61%	41%	20%	10%	0%	24%
Average Cost per Dth hedged	\$ 3.548	\$ 3.691	\$ 3.550	\$ 3.122	\$ 3.507	\$ 3.347	\$ 3.334	\$ 2.955	\$ -	\$ 3.363
Not all Positions \$ (1)	\$ (1,731,583)	\$ (1,483,540)	\$ (183,840)	\$ 139,030	\$ (3,259,933)	\$ (1,025,891)	\$ (1,455,133)	\$ (72,480)	\$ -	\$ (5,813,436)
PHYSICAL HEDGES										
Purchased Dth	\$ 865,017	\$ 798,000	\$ 240,000	\$ -	\$ 1,903,017	\$ 782,900	\$ 565,000	\$ -	\$ -	\$ 3,250,917
Purchased \$	\$ 2,801,365	\$ 2,623,400	\$ 852,000	\$ -	\$ 6,276,765	\$ 2,863,350	\$ 2,130,450	\$ -	\$ -	\$ 11,270,565
Purchased \$/Dth	\$ 3.239	\$ 3.287	\$ 3.550	\$ -	\$ 3.298	\$ 3.657	\$ 3.771	\$ -	\$ -	\$ 3.467
Market \$	\$ 2,145,242	\$ 2,228,420	\$ 668,160	\$ -	\$ 5,039,822	\$ 2,263,719	\$ 1,505,558	\$ -	\$ -	\$ 8,809,098
Market \$/Dth (on Southern Start Pipeline)	\$ 2.480	\$ 2.790	\$ 2.784	\$ -	\$ 2.648	\$ 2.891	\$ 2.665	\$ -	\$ -	\$ 2.710
Difference (\$) versus current market	\$ (656,123)	\$ (396,980)	\$ (183,840)	\$ -	\$ (1,236,943)	\$ (589,631)	\$ (624,893)	\$ -	\$ -	\$ (2,461,467)
FINANCIAL HEDGES										
Swap/Futures Dth Purchased	\$ 1,280,000	\$ 1,280,000	\$ -	\$ 1,160,000	\$ 3,720,000	\$ 5,210,000	\$ 2,460,000	\$ 1,460,000	\$ -	\$ 12,850,000
Net Cost, \$/Dth	\$ 3.757	\$ 3.773	\$ -	\$ 3.122	\$ 3.565	\$ 3.300	\$ 3.234	\$ 2.955	\$ -	\$ 3.325
Market \$/Dth (at Swap location)	\$ 2.917	\$ 2.924	\$ -	\$ 3.242	\$ 3.021	\$ 3.219	\$ 2.896	\$ 2.905	\$ -	\$ 3.064
Difference (\$) versus current Market	\$ (1,075,460)	\$ (1,086,560)	\$ -	\$ 139,030	\$ (2,022,990)	\$ (426,260)	\$ (830,240)	\$ (72,480)	\$ -	\$ (3,351,970)
Swap/Futures Dth Sold or Settle	\$ -	\$ (200,000.00)	\$ -	\$ -	\$ (200,000.00)	\$ -	\$ -	\$ -	\$ -	\$ (200,000.00)
Net Cost, \$/Dth	\$ -	\$ 2.61	\$ -	\$ -	\$ 2.61	\$ -	\$ -	\$ -	\$ -	\$ 2.61
Market \$/Dth (at Swap location)	\$ -	\$ 2.92	\$ -	\$ -	\$ 2.92	\$ -	\$ -	\$ -	\$ -	\$ 2.92
Swap Settlement - Receipt / (Payment)	\$ -	\$ 0.32	\$ -	\$ -	\$ 0.32	\$ -	\$ -	\$ -	\$ -	\$ 0.32
Call Dth (Buy a Call)	0	0	0	0	0	0	0	0	0	-
Call Strike \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (At Henry Hub or Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cost of Call \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Value \$ of Call Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Cost) \$ of Call Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Collar Dth	0	0	0	0	0	0	0	0	0	-
Floor \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Ceiling \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (at Henry Hub or Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cost of Floor \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Value of Collar \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Cost) / Value \$ of Collar Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Put Dth (Sell a Put)	0	0	0	0	0	0	0	0	0	-
Put Strike \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (at Henry Hub or Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Revenue from Put \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Value \$ of Put Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Cost) \$ of Put Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Note 1: Market data using NYMEX Close Prices as of June 30, 2016.

Note 2: Policy minimums are 12/31/2016 targets.

Note 3: For 2016 through 2020, Budgeted & Expected Dth are from Final F&PP Budget for 2016-2020.

Note 4: Empire currently has no positions utilizing "options" and therefore the options section of this report is not shown.

Note 5: Storage and usage are estimates based on most current information available.

Storage Estimates	
Balance Dth	-
WACOG \$/Dth	0.000

Schedule JSR-D-4

Proprietary

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The Empire District Electric Company Gas Position Summary as of July 31, 2016										
	Current/Upcoming Year				All Years					Total
	August 2016	September 2016	October 2016	Nov - Dec 2016	Aug - Dec 2016	Year 2017 60% min	Year 2018 40% min	Year 2019 20% min	Year 2020 10% min	Not All Years
SUMMARY										
Budget Dth (3)	1,930,300	1,398,500	1,065,700	2,429,700	6,824,200	14,671,030	14,766,560	14,382,698	14,486,940	65,131,428
Expected Dth (3)	1,930,300	1,398,500	1,065,700	2,429,700	6,824,200	14,671,030	14,766,560	14,382,698	14,486,940	65,131,428
Policy minimum hedged Dth (2)	1,158,180	839,100	639,420	1,457,820	4,094,520	8,802,618	5,906,624	2,876,540	1,448,694	23,128,996
Policy Maximum hedged Dth	1,930,300	1,398,500	1,065,700	2,429,700	6,824,200	11,736,824	11,813,248	11,506,158	11,589,552	53,489,982
Amount de-designated from Hedge amount										-
Amount Hedged from Upside Volatility Dth	1,878,000	240,000	240,000	920,000	3,278,000	5,992,900	3,025,000	1,460,000	-	13,755,900
percentage	97%	17%	23%	38%	48%	41%	20%	10%	0%	21%
Amount Hedged from Downside Volatility Dth	1,878,000	240,000	240,000	920,000	3,278,000	5,992,900	3,025,000	1,460,000	-	13,755,900
percentage	97%	17%	23%	38%	48%	41%	20%	10%	0%	21%
Average Cost per Dth hedged	\$ 3.691	\$ 3.550	\$ 2.598	\$ 3.259	\$ 3.479	\$ 3.347	\$ 3.334	\$ 2.955	\$ -	\$ 3.334
Not all Positions \$ (1)	\$ (2,045,500)	\$ (216,720)	\$ 76,560	\$ 55,950	\$ (2,129,710)	\$ (1,022,100)	\$ (1,463,955)	\$ (69,060)	\$ -	\$ (4,684,825)
PHYSICAL HEDGES										
Purchased Dth	798,000	240,000	-	-	1,038,000	782,900	565,000	-	-	2,385,900
Purchased \$	\$ 2,623,400	\$ 852,000	\$ -	\$ -	\$ 3,475,400	\$ 2,863,350	\$ 2,130,450	\$ -	\$ -	\$ 8,469,200
Purchased \$/Dth	\$ 3.287	\$ 3.550	\$ -	\$ -	\$ 3.348	\$ 3.657	\$ 3.771	\$ -	\$ -	\$ 3.550
Market \$	\$ 1,987,020	\$ 635,280	\$ -	\$ -	\$ 2,622,300	\$ 2,250,600	\$ 1,492,795	\$ -	\$ -	\$ 6,365,695
Market \$/Dth (on Southern Start Pipeline)	\$ 2.490	\$ 2.647	\$ -	\$ -	\$ 2.526	\$ 2.875	\$ 2.642	\$ -	\$ -	\$ 2.668
Difference (\$) versus current market	\$ (636,380)	\$ (216,720)	\$ -	\$ -	\$ (853,100)	\$ (612,750)	\$ (637,655)	\$ -	\$ -	\$ (2,103,505)
FINANCIAL HEDGES										
Swap/Futures Dth Purchased	1,280,000	-	240,000	920,000	2,440,000	5,210,000	2,460,000	1,460,000	-	11,570,000
Net Cost, \$/Dth	\$ 3.773	\$ -	\$ 2.598	\$ 3.259	\$ 3.464	\$ 3.300	\$ 3.234	\$ 2.955	\$ -	\$ 3.277
Market \$/Dth (at Swap location)	\$ 2.672	\$ -	\$ 2.917	\$ 3.320	\$ 2.940	\$ 3.222	\$ 2.898	\$ 2.907	\$ -	\$ 3.054
Difference (\$) versus current Market	\$ (1,409,120)	\$ -	\$ 76,560	\$ 55,950	\$ (1,276,610)	\$ (409,350)	\$ (826,300)	\$ (69,060)	\$ -	\$ (2,581,320)
Swap/Futures Dth Sold or Settle	(200,000)	-	-	-	(200,000)	-	-	-	-	(200,000)
Net Cost, \$/Dth	\$ 2.61	\$ -	\$ -	\$ -	\$ 2.61	\$ -	\$ -	\$ -	\$ -	\$ 2.61
Market \$/Dth (at Swap location)	\$ 2.67	\$ -	\$ -	\$ -	\$ 2.67	\$ -	\$ -	\$ -	\$ -	\$ 2.67
Swap Settlement - Receipt / (Payment)	\$ 0.07	\$ -	\$ -	\$ -	\$ 0.07	\$ -	\$ -	\$ -	\$ -	\$ 0.07
Call Dth (Buy a Call)	0	0	0	0	0	0	0	0	0	-
Call Strike \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (At Henry Hub or Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cost of Call \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Value \$ of Call Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Cost) \$ of Call Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Collar Dth	0	0	0	0	0	0	0	0	0	-
Floor \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Ceiling \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (at Henry Hub or Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cost of Floor \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Value of Collar \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Cost) / Value \$ of Collar Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Put Dth (Sell a Put)	0	0	0	0	0	0	0	0	0	-
Put Strike \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (at Henry Hub or Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Revenue from Put \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Value \$ of Put Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Cost) \$ of Put Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Note 1: Market data using NYMEX Close Prices as of July 31, 2016.

Note 2: Policy minimums are 12/31/2016 targets.

Note 3: For 2016 through 2020, Budgeted & Expected Dth are from Final F&PP Budget for 2016-2020.

Note 4: Empire currently has no positions utilizing "options" and therefore the options section of this report is not shown.

Note 5: Storage and usage are estimates based on most current information available.

Storage Estimates	
Balance Dth	-
WACOG \$/Dth	0.000

Schedule JSR-D-4

Proprietary

17/18

The Empire District Electric Company
Gas Position Summary as of August 31, 2016

	Current/Upcoming Year				All Years					Total Net All Years
	September 2016	October 2016	November 2016	Dec - Dec 2016	Sep - Dec 2016	Year 2017 60% min	Year 2018 40% min	Year 2019 20% min	Year 2020 10% min	
SUMMARY										
Budget Dth (3)	1,398,500	1,065,700	824,400	1,605,300	4,893,900	14,671,030	14,766,560	14,382,698	14,486,940	63,201,128
Expected Dth (3)	1,398,500	1,065,700	824,400	1,605,300	4,893,900	14,671,030	14,766,560	14,382,698	14,486,940	63,201,128
Policy minimum hedged Dth (2)	839,100	639,420	494,640	963,180	2,936,340	8,802,618	5,906,624	2,876,540	1,448,694	21,970,816
Policy Maximum hedged Dth	1,398,500	1,065,700	824,400	1,605,300	4,893,900	11,736,824	11,813,248	11,506,158	11,589,552	51,539,682
Amount de-designated from Hedge amount										
Amount Hedged from Upside Volatility Dth	240,000	240,000	-	920,000	1,400,000	5,992,900	3,025,000	1,460,000	-	11,877,900
percentage	17%	23%	0%	57%	29%	41%	20%	10%	0%	19%
Amount Hedged from Downside Volatility Dth	240,000	240,000	-	920,000	1,400,000	5,992,900	3,025,000	1,460,000	-	11,877,900
percentage	17%	23%	0%	57%	29%	41%	20%	10%	0%	19%
Average Cost per Dth hedged	\$ 3.550	\$ 2.598	\$ -	\$ 3.259	\$ 3.196	\$ 3.347	\$ 3.334	\$ 2.955	\$ -	\$ 3.278
Net all Positions \$ (1)	\$ (228,000)	\$ 69,360	\$ -	\$ (51,690)	\$ (210,330)	\$ (1,428,985)	\$ (1,604,160)	\$ (116,280)	\$ -	\$ (3,359,755)
PHYSICAL HEDGES										
Purchased Dth	240,000	-	-	-	240,000	782,900	565,000	-	-	1,587,900
Purchased \$	\$ 852,000	\$ -	\$ -	\$ -	\$ 852,000	\$ 2,863,350	\$ 2,130,450	\$ -	\$ -	\$ 5,845,800
Purchased \$/Dth	\$ 3.550	\$ -	\$ -	\$ -	\$ 3.550	\$ 3.657	\$ 3.771	\$ -	\$ -	\$ 3.681
Market \$	\$ 624,000	\$ -	\$ -	\$ -	\$ 624,000	\$ 2,203,365	\$ 1,447,030	\$ -	\$ -	\$ 4,274,395
Market \$/Dth (on Southern Start Pipeline)	\$ 2.600	\$ -	\$ -	\$ -	\$ 2.600	\$ 2.814	\$ 2.561	\$ -	\$ -	\$ 2.692
Difference (\$) versus current market	\$ (228,000)	\$ -	\$ -	\$ -	\$ (228,000)	\$ (659,985)	\$ (683,420)	\$ -	\$ -	\$ (1,571,405)
FINANCIAL HEDGES										
Swap/Futures Dth Purchased	-	240,000	-	920,000	1,160,000	5,210,000	2,460,000	1,460,000	-	10,290,000
Net Cost, \$/Dth	\$ -	\$ 2.598	\$ -	\$ 3.259	\$ 3.122	\$ 3.300	\$ 3.234	\$ 2.955	\$ -	\$ 3.215
Market \$/Dth (at Swap location)	\$ -	\$ 2.887	\$ -	\$ 3.203	\$ 3.138	\$ 3.153	\$ 2.859	\$ 2.875	\$ -	\$ 3.042
Difference (\$) versus current Market	\$ -	\$ 69,360	\$ -	\$ (51,690)	\$ 17,670	\$ (769,000)	\$ (920,740)	\$ (116,280)	\$ -	\$ (1,788,350)
Swap/Futures Dth Sold or Settle	-	-	-	-	-	-	-	-	-	-
Net Cost, \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (at Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Swap Settlement - Receipt / (Payment)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Call Dth (Buy a Call)	0	0	0	0	0	0	0	0	0	-
Call Strike \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (At Henry Hub or Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cost of Call \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Value \$ of Call Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Cost) \$ of Call Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Collar Dth	0	0	0	0	0	0	0	0	0	-
Floor \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Ceiling \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (at Henry Hub or Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cost of Floor \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Value of Collar \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Cost) / Value \$ of Collar Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Put Dth (Sell a Put)	0	0	0	0	0	0	0	0	0	-
Put Strike \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Market \$/Dth (at Henry Hub or Swap location)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Revenue from Put \$/Dth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Value \$ of Put Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Cost) \$ of Put Position	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Note 1: Market data using NYMEX Close Prices as of August 31, 2016.

Note 2: Policy minimums are 12/31/2016 targets.

Note 3: For 2016 through 2020, Budgeted & Expected Dth are from Final F&PP Budget for 2016-2020.

Note 4: Empire currently has no positions utilizing "options" and therefore the options section of this report is not shown.

Note 5: Storage and usage are estimates based on most current information available.

Storage Estimates	
Balance Dth	-
WACOG \$/Dth	0.000

Schedule JSR-D-4

Proprietary

18/18

EO-2017-0065 DR 0031

Natural Gas Costs

March 2015 - August 2016

	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16
Total Commodity - WMBTU	916,854	222,590	258,657	1,242,532	1,442,604	1,223,154	869,501	599,446	795,083	440,616	597,680	757,364	852,003	1,144,193	1,505,801	2,115,066	1,945,203	1,027,061
Total Cost	\$ 3,387,281.97	\$ 1,272,880.00	\$ 1,729,815.73	\$ 4,764,818.00	\$ 6,065,292.32	\$ 6,146,807.20	\$ 3,174,826.43	\$ 1,921,173.76	\$ 2,832,883.85	\$ 2,723,663.05	\$ 2,208,424.16	\$ 2,311,986.09	\$ 1,747,207.05	\$ 2,208,162.40	\$ 4,309,828.17	\$ 6,317,200.23	\$ 7,104,427.22	\$ 7,393,000.00
Line:																		
Commodity Cost on Deliveries	134,743.28	170,000.71	321,934.94	520,204.00	2,204,461.38	1,982,407.82	147,777.20	206,651.90	1,168,443.85	779,131.70	946,895.78	201,000.00	137,378.67	229,223.57	1,077,502.51	1,104,519.40	1,104,519.40	\$ 10,712,108.40
Physical Commodity	478,258.84	333,320.05	546,847.07	880,347.48	518,730.88	573,252.03	557,797.18	\$ 919,453.18	488,351.37	508,546.20	420,327.70	318,526.70	189,063.70	306,848.53	524,712.02	528,050.78	473,757.11	527,444.79
Commodity Transportation	40,328.61	6,250.45	6,250.45	6,515.30	43,152.70	34,385.20	26,422.41	23,812.42	12,707.21	15,474.22	11,143.27	10,200.53	18,087.58	28,656.53	33,416.24	31,323.02	60,324.75	44,064.70
Other Costs	294.31	763.75	1,180.60	2,310.49	1,890.00	822.40	1,492.10	11,200.61	0,720.28	2,098.04	1,065.64	1,074.18	326.20	1,115.16	517.05	2,574.16	7,201.10	244.52
Net Actual Commodity Cost	\$ 2,735,710.73	\$ 743,344.69	\$ 863,483.57	\$ 3,657,238.42	\$ 4,196,037.31	\$ 3,575,650.78	\$ 2,441,406.44	\$ 1,300,714.55	\$ 1,816,063.00	\$ 1,020,081.25	\$ 1,418,065.72	\$ 1,396,346.71	\$ 1,337,621.04	\$ 2,202,760.76	\$ 3,683,654.68	\$ 5,526,190.60	\$ 6,580,610.75	\$ 6,719,804.71
Cost of Month	\$ 2,884	\$ 3,338	\$ 3,214	\$ 2,043	\$ 2,800	\$ 2,023	\$ 2,808	\$ 2,820	\$ 2,403	\$ 2,338	\$ 2,371	\$ 2,005	\$ 1,608	\$ 2,013	\$ 2,448	\$ 2,512	\$ 2,680	\$ 2,907
Spot Purchase from Gas Purchase Ret	\$ 2,540	\$ 2,319	\$ 2,876	\$ 2,561	\$ 2,800	\$ 2,840	\$ 2,480	\$ 2,153	\$ 1,876	\$ 2,342	\$ 2,325	\$ 1,800	\$ 1,020	\$ 1,732	\$ 1,607	\$ 2,383	\$ 2,682	\$ 2,862
Cost at Spot Price	\$ 2,334,310.28	\$ 516,346.22	\$ 718,606.13	\$ 3,182,175.67	\$ 3,880,845.86	\$ 3,220,128.56	\$ 2,158,585.88	\$ 1,200,607.24	\$ 1,574,839.41	\$ 1,031,627.88	\$ 1,389,850.18	\$ 1,267,790.38	\$ 1,254,844.59	\$ 1,981,721.40	\$ 3,721,145.04	\$ 5,040,178.45	\$ 5,980,866.20	\$ 6,020,428.08
Physical Hedging Costs	\$ 401,420.45	\$ 226,088.46	\$ 144,857.44	\$ 447,062.75	\$ 316,170.45	\$ 346,724.22	\$ 284,880.46	\$ 76,107.31	\$ 340,225.68	\$ 124,611	\$ 27,233.65	\$ 216,540.33	\$ 72,076.52	\$ 361,620.27	\$ 982,408.84	\$ 484,072.15	\$ 586,773.46	\$ 780,166.83
Total Cost of Fuel at spot prices																		\$ 6,073,353.16
Total Hedging Costs																		\$ 42,604,131.88
Proof:																		\$ 16,785,621.00
Cost - Gas & Commodity Changes	2,348,884.24	701,070.28	880,444.67	3,651,000.06	4,202,590.87	3,600,038.08	2,477,423.88	1,403,541.18	1,844,777.22	1,020,080.66	1,403,519.57	1,396,346.71	1,337,621.04	2,202,760.76	3,683,654.68	5,526,190.60	6,580,610.75	6,719,804.71
Cost - Gas & Commodity Chg (Adj)	2,772,603.40	740,424.85	880,444.67	3,651,000.06	4,202,590.87	3,600,038.08	2,477,423.88	1,403,541.18	1,844,777.22	1,020,080.66	1,403,519.57	1,396,346.71	1,337,621.04	2,202,760.76	3,683,654.68	5,526,190.60	6,580,610.75	6,719,804.71
From Above:																		
Line 14 Commodity Transport	40,328.01	6,250.45	6,250.45	6,515.30	43,152.70	34,385.20	26,422.41	23,812.42	12,707.21	15,474.22	11,143.27	10,200.53	18,087.58	28,656.53	33,416.24	31,323.02	60,324.75	44,064.70
Line 17 Commodity Cost	2,776,043.04	740,075.13	880,742.02	3,650,783.72	4,200,710.81	3,575,254.04	2,440,486.03	1,300,206.97	1,815,083.20	1,024,555.47	1,416,028.00	1,395,379.24	1,336,603.60	2,201,417.59	3,715,077.12	5,036,473.62	5,980,084.50	5,785,701.41
Difference - Should be zero	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00