

BEFORE THE
PUBLIC UTILITIES COMMISSION OF OHIO

THE DAYTON POWER AND LIGHT COMPANY

CASE NO. 16-0395-EL-SSO
CASE NO. 16-0397-EL-AAM
CASE NO. 16-0396-EL-ATA

DIRECT TESTIMONY OF
ERIC R. BROWN

PUBLIC VERSION

OCTOBER 11, 2016

- ☐ **MANAGEMENT POLICIES, PRACTICES, AND ORGANIZATION**
- ☐ **OPERATING INCOME**
- ☐ **RATE BASE**
- ☐ **ALLOCATIONS**
- ☐ **RATE OF RETURN**
- ☒ **RATES AND TARIFFS**
- ☐ **OTHER**

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I. INTRODUCTION

Q. Please state your name and business address.

A. My name is Eric R. Brown. My business address is 1065 Woodman Drive, Dayton, Ohio 45432.

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

A. I am employed by The Dayton Power and Light Company ("DP&L" or "Dayton" or the "Company") as a Rate Analyst in the Regulatory Operations department.

Q. Will you describe briefly your educational and business background?

A. I received a Bachelor of Business Administration degree from the University of Hawaii at Hilo in 2008. I am currently pursuing a Master of Business Administration degree from Cleveland State University, and I plan to graduate in May 2016. I have been employed by DP&L in the Regulatory Operations department since 2009.

Q. Have you previously provided testimony before the Public Utilities Commission of Ohio ("PUCO" or the "Commission")?

A. Yes. I have sponsored testimony before the PUCO in the Company's Competitive Bid True-Up ("CBT") Rider Case No. 14-563-EL-RDR and the Company's Significantly Excessive Earnings Test Case No. 15-928-EL-UNC.

Q. What are your responsibilities in your current position?

A. In my current position, I am responsible for assisting in the development, analysis, revision, and administration of the Company's tariff schedules, rate designs, and policies. I have responsibility for the CBT Rider, Competitive Bidding Rate ("CB Rate"), and the

1 Company's Competitive Bidding Process ("CBP"). I am one of the liaisons for the
2 Company to the Auction Manager, Auction Consultant, and Commission Staff regarding
3 the Company's CBP auctions.

4 **II. PURPOSE OF TESTIMONY**

5 **Q. What is the purpose of this testimony?**

6 A. The purpose of my testimony is to describe briefly the CBP that the Company is
7 proposing under this Electric Security Plan ("ESP"), to outline how DP&L plans to
8 comply with the renewable energy requirements set forth in Ohio Revised Code ("ORC")
9 §4928.64, to support and explain the methodology used to derive projected results of
10 competitive bidding set forth in Ohio Administrative Code ("OAC") § 4901:1-35-
11 03(B)(2)(b), to support the methodology of the Standard Offer Rate and rate design, and
12 the elimination of the Alternative Energy Rider ("AER") and the CBT Rider.

13 **Q. Are you sponsoring any Exhibits?**

14 A. Yes. I am sponsoring:

- 15 • Exhibit ERB-1 (Proxy DP&L Auction Results)
- 16 • Exhibit ERB-2 (Standard Offer Rate)
- 17 • Exhibit ERB-3 (CB, CBT Flow Chart)
- 18 • Exhibit ERB-4 (Standard Offer Rate Flow Chart)

19
20 **III. COMPETITIVE BIDDING PROCESS**

21 **Q. Briefly describe the CBP that DP&L is proposing under this ESP.**

1 A. The Company is proposing a CBP schedule that will serve 100% of its Standard Service
2 Offer (“SSO”) load for the time period of June 1, 2017 to December 31, 2023. Two
3 auctions will be conducted for procurement in the first period, June 1, 2017 to May 31,
4 2018. One auction will be held per year thereafter with varying product lengths of 7, 12,
5 19, 24, 31, 36, and 43 months being offered, for a total of eight auctions in the ESP. The
6 12-month delivery periods will align with the PJM calendar, with a delivery period
7 beginning on June 1st of each year and ending on May 31st of the following year, with an
8 exception in the final period which will be June 1, 2023 to December 31, 2023.

9 DP&L has chosen Charles River Associates (“CRA”) as its auction manager. However,
10 the Commission has the right to choose a different auction manager at any time during
11 this CBP schedule if certain guidelines are not met or an auction is not in compliance
12 with any federal, state, or auction parameters. The Commission also has the right to
13 modify and alter load caps or any other feature of the CBP process for future auctions as
14 the Commission deems necessary based upon its continuing review of the CBP process,
15 including its review of the reports on the auction provided to the Commission by the
16 independent auction manager, the Commission's consultant, the Company, and Staff.
17 The Company’s CBP plan is subject to modification during the ESP period as the
18 Commission deems necessary and after consultation with the Company, auction manager,
19 and the Commission’s auction consultant.

20 DP&L’s proposed CBP plan is described in more detail by Company Witness Lee of
21 Charles River Associates.

1 **IV. RENEWABLE ENERGY**

2 **Q. Does DP&L plan to include a renewable energy requirement component in the**
3 **generation-related services that must be provided by the winning bidder?**

4 A. Yes. DP&L plans to require winning bidders to supply Renewable Energy Credits
5 (“RECs”) to meet the Company’s renewable energy requirements contained in ORC
6 §4928.64.

7 **Q. Can you explain how that process will work?**

8 A. Yes. Each winning CBP supplier will be responsible for providing PUCO-certified RECs
9 that meet the requirements of ORC §4928.64 for the supplier’s portion of the Standard
10 Service Offer (“SSO”) load obligation in DP&L’s service territory. DP&L will require
11 each CBP supplier to provide RECs by February 10th of every year in an amount
12 sufficient to cover its obligation in the previous calendar year (January 1st to December
13 31st). For example, a CBP supplier providing SSO supply from June 1, 2017 to May 31,
14 2018 will need to provide enough RECs by February 10, 2018 to cover its obligation
15 from June 1, 2017 to December 31, 2017. That same CBP supplier, if it no longer serves
16 SSO load after May 31, 2018, will need to provide enough RECs by February 10, 2019 to
17 cover its 2018 obligation (January 1, 2018 to May 31, 2018). A CBP supplier may
18 choose to deliver RECs monthly in the year it is supplying power, or in a lump sum by
19 February 10th of the following year. The REC requirement in each year will be a stated
20 percentage multiplied by the load, in MWhs, being served by the supplier in each
21 delivery year. The percentage(s) for each calendar year will be included in the CBP
22 Master SSO Supply Agreement. Each supplier will be responsible for procuring the

1 RECs and transferring the RECs to a DP&L-specified Generation Attribute Tracking
2 System ("GATS") account. DP&L will continue to be responsible for retiring the RECs
3 for each respective year and annually reporting compliance to the PUCO.

4 **Q. What will happen if the CBP suppliers do not deliver RECs to meet the ORC**
5 **§4928.64 requirements?**

6 A. DP&L will have the right to net damages or replacement costs from suppliers for non-
7 delivery of RECs. This process will be outlined in the CBP Master SSO Supply
8 Agreement. In addition, compliance payments listed under ORC §4928.64(C)(2) will not
9 be accepted in lieu of providing RECs to the Company.

10 **Q. Please explain how the Company is proposing to recover the cost of complying with**
11 **the ORC §4928.64 renewable energy requirements starting June 1, 2017 under this**
12 **ESP filing?**

13 A. DP&L is proposing to recover the cost of complying with the ORC §4928.64 renewable
14 energy requirements by including these costs in the auction product, and therefore as part
15 of the CBP supplier's energy bid price. The result is that the cost will be included in the
16 Standard Offer Rate that will be assessed to all DP&L SSO customers.

17 **Q. Please explain why it is reasonable to include RECs in the CBP auction product?**

18 A. There are several reasons why this approach is reasonable. The Ohio renewable energy
19 requirements are generation-related costs directly associated with providing generation
20 service to retail customers in Ohio. Beginning in 2016, DP&L is no longer supplying
21 generation for SSO load. Since CBP auction winners are supplying 100% of SSO load, it

1 is reasonable and appropriate to include the renewable energy requirement as a
2 component of the bid product. Moreover, inclusion of RECs is reasonable because RECs
3 are procured through an open market process, just as all other products being offered as
4 part of the bid.

5 **Q. Are there other reasons that renewable requirements should be included as part of**
6 **the competitive bid?**

7 A. Yes. First, by requiring auction suppliers to meet this requirement, REC purchases will
8 be driven by the market. Since this requirement will be included in the auction bid price,
9 suppliers have a significant interest and incentive to purchase RECs at the lowest possible
10 price, driving SSO prices down. Second, renewable energy requirements are an Ohio
11 requirement imposed on suppliers of retail generation. At the time of its initial SSO
12 filing in 2012, DP&L had a need to continue to participate in the REC market because the
13 Company was still supplying generation for a portion of the SSO load. Beginning in
14 2016, that is no longer the case because 100% of the SSO load will be provided by the
15 competitive bid winners. Therefore it is reasonable that CBP auction winners should
16 meet renewable energy requirements for the tranches they serve, just as Competitive
17 Retail Electric Service (“CRES”) providers in Ohio must meet them for their load.

18 **Q. Do any other states operate their default supply auctions in a similar way?**

19 A. Pennsylvania electric default service auctions contain a renewable energy compliance
20 requirement as part of the bid product. Many of the same auction suppliers that bid and
21 serve load in Pennsylvania electric default service auctions also bid and win tranches to
22 serve load in auctions for Ohio SSO service. This is not a new or complex requirement,

1 as auction bidders are familiar with this concept and have been procuring RECs for SSO
2 load for several years in Pennsylvania.

3 **Q. Will the Company continue to charge the AER to recover the cost of complying with**
4 **ORC §4928.64?**

5 A. No. DP&L proposes to terminate the AER once the related regulatory asset balance is
6 fully recovered, as DP&L will no longer be independently procuring RECs to meet its
7 ORC §4928.64 renewable energy requirements. Beginning June 1, 2017 the renewable
8 compliance costs will be reflected in the Standard Offer Rate.

9 **V. AUCTION PRICE**

10 **Q. Did you develop proxy auction prices used to project retail rates in the Standard**
11 **Offer Rate?**

12 A. Yes. To assist in preparing the projected retail rate effect of the Company's ESP plan, I
13 developed proxy auction prices throughout the duration of the ESP. These proxy auction
14 prices were then used to develop rates for the Company's Standard Offer Rate found in
15 Exhibit ERB-2. These proxy auction prices are derived from the actual auction results
16 from recent Ohio utility SSO auctions, which were then adjusted to reflect an equivalent
17 proxy market-based auction price for a CBP in the Dayton zone.

18 **Q. Please explain the methodology you used in developing these proxy market-based**
19 **auction prices for the CBP.**

20 A. By way of background, the SSO auction supply contract commonly used in Ohio creates
21 a complex fixed-price full requirements product which transfers certain risks to the
22 winning auction supplier. These risks include variables such as forward market price

1 volatility, day ahead and real time Locational Marginal Pricing (“LMP”) price volatility,
2 unknown correlations between fuel and power prices, customer energy usage variations,
3 customer switching risks, capacity cost recovery risk, and ancillary services price risk.
4 When a supplier decides to participate in an SSO supply auction, it assigns a value to
5 these various risks and prices those risks into its estimate of the overall cost to serve the
6 SSO Load. Each supplier prices risks differently, based upon institutional beliefs, risk
7 appetite and modeling techniques. These values will affect the price that the suppliers
8 will be willing to bid in the SSO supply auction. Since pricing methodologies employed
9 by suppliers vary, DP&L looked to the results of actual supply auctions that have taken
10 place in the most recent Ohio utility SSO auctions to derive a reasonable publicly-
11 available indication of the market’s assessment of these risk factors within Ohio.

12 **Q. Did DP&L make adjustments to the Ohio utility SSO auction results?**

13 A. Yes. Starting with the winning prices in each SSO auction, DP&L removed known
14 fixed-cost components and the locational energy price differences between the products
15 being solicited in each auction, which left a cost to serve SSO auctions in Ohio at a
16 common point which could be used in projecting auction clearing prices in a DP&L CBP.
17 Specifically, for Ohio, this common pricing point is the PJM AEP-Dayton Hub. PJM
18 RPM capacity prices are currently known through May 2020 delivery. This RPM
19 capacity value was removed from the auction clearing price. The remaining price was
20 translated to the common PJM AEP-Dayton Hub by removing the locational energy price
21 difference between the Ohio utility load zones. Using publicly available average PJM
22 day-ahead LMP price differences between the delivery load zone and AEP-Dayton Hub
23 as a proxy, the locational difference was removed, leaving a common cost to supply SSO

1 auctions in Ohio at the AEP-Dayton Hub. I next divided this cost to supply by the
2 forward AEP-Dayton prices for a wholesale block over an equivalent time frame and on
3 the same day as the auctions. This calculation yielded a ratio between market projections
4 and actual auction results. This ratio was then applied to AEP-Dayton forward curves.

5 **Q. What were the results of these calculations?**

6 A. This methodology produced fairly consistent results, with an average SSO Auction to
7 AEP-Dayton Hub Scaling Factor ("Scaling Factor"), of 1.258 times the AD Hub
8 wholesale block supply.

9 **Q. What does the average scaling factor represent?**

10 A. This average scaling factor represents a projection that the cost market participants would
11 impute for the cost above a flat block product to deliver supply under an SSO auction
12 contract, factoring in the risks I described earlier.

13 **Q. How are forecasted auction prices calculated?**

14 A. Forward price curves for each of the auction periods and a cost to supply were projected
15 to calculate what the market would currently place on DP&L's auctions at AEP-Dayton
16 hub. Using the average scaling factor, actual and proxy PJM RPM capacity prices, and
17 including proxy cost to supply renewable resources per Ohio Alternative Energy
18 requirements, a final proxy DP&L CBP auction clearing price was estimated for each
19 auction period.

20 **Q. Does this calculation appear in any exhibits that you are sponsoring?**

21 A. Yes. A more detailed explanation is included in Exhibit ERB-1.

22 **Q. Is that methodology reasonable?**

1 A. Yes, the methodology is reasonable because it represents an unbiased measure of the
2 market's view of the costs and risks of supplying SSO auction load in a CBP, based upon
3 publicly available information. A competitive supplier bidding in the CBP individually
4 would make its own assessments of these costs and risks, choose one or more pricing
5 methodologies to account for them, and adjust the bids it submits in the CBP based on its
6 discretion. Any attempt to imply a particular set of assumptions and pricing methodology
7 would be too subjective and speculative. The methodology that I have employed for
8 purposes of projected proxy future auction clearing prices in the CBP in this filing is
9 reasonable because it is based on the results of the recent Ohio utility SSO auctions,
10 which is the confluence of all of the auction participants' assessments regarding pricing.
11 Given that each auction has had multiple winning bidders, the projections represent
12 unbiased supplier views regarding the value of the various costs and risks of supplying
13 SSO load, as reflected by the market's collective view in assessing these costs and risk
14 premiums.

15 **VI. STANDARD OFFER RATE**

16 **Q. What does the Company propose with regard to its Standard Offer Rate?**

17 A. First, DP&L is proposing to combine the functions of its current CB Rate and CBT Rider
18 into one tariff, the Standard Offer Rate. The Standard Offer Rate will be the tariff
19 representing DP&L's retail generation charge as a result of its CBP auctions. The
20 Standard Offer Rate will also include any over- or under-recovery of supply costs
21 associated with the CBP and recovery of costs to administer and implement the auction
22 that were previously recovered through the CBT Rider.

1 Second, DP&L is proposing to transition to an all-energy rate design for all tariff classes.
2 This design will better align the cost recovery from SSO customers with how the energy
3 is procured for those customers through the CBP as power is procured from winning
4 auction suppliers on a \$/MWh basis. DP&L will continue to make a heating discount
5 available during winter months for residential heating customers.

6 Third, DP&L is proposing to include a cash working capital component to be in the rate
7 derived from the resulting CBP auction clearing prices. A cash working capital
8 component is appropriate to compensate the Company for the revenue lag and expense
9 leads associated with providing SSO service.

10 **Q. Why is DP&L eliminating the demand component of the competitive bidding rate?**

11 A. DP&L pays SSO auction suppliers on a \$/MWh basis based on delivery to serve SSO
12 load. Recovery of those costs from SSO customers should be on the same basis.
13 Potential bidders must factor into their bids the price of PJM capacity based on what they
14 expect the tranche profile to require. They do not bid on or serve individual consumers
15 or certain customer demand profiles. Historical load data provided to potential bidders
16 for the purpose of bidding is based on energy delivered. Establishing the Standard Offer
17 Rate on a \$/kWh basis will better align the cost recovery from SSO customers with how
18 the cost to procure that energy is assessed by winning auction suppliers on a \$/MWh
19 basis and will minimize true-up variations.

20 **Q. How did you calculate the cash working capital component of the Standard Offer**
21 **Rate?**

1 A. I used the revenue calculation and payment lags from DP&L Case No. 15-1830-EL-AIR
2 and applied them to the estimated average daily cost of generation supply to arrive at
3 cash working capital. I multiplied cost of capital by cash working capital to calculate the
4 revenue requirement for cash working capital. I divided this requirement by sales,
5 resulting in the cash working capital component of the Standard Offer Rate.

6 **Q. How will the Standard Offer Rate be administered under this ESP?**

7 A. The Standard Offer Rate will be updated on an annual basis. DP&L's annual filing will
8 include the rate change as a result of the CBP auctions, but will also include a true-up for
9 the previous 12 months over/under recovery and recovery of costs to administer and
10 implement the auction.

11 To summarize, the Standard Offer Rate will include: 1) auction supply costs, 2)
12 administrative costs, 3) reconciliation costs, and 4) cash working capital. Auction supply
13 costs will compensate auction winners for delivery to serve SSO load. Administrative
14 costs include CBP auction costs, CBP consultant fees, PUCO consultant fees, audit costs,
15 and supplier default costs (if any). Reconciliation costs are any over- or under-recovery
16 of auction supply costs and administrative costs. Cash working capital is required to
17 compensate the Company for the revenue lag and expense leads associated with
18 providing SSO service.

19 DP&L will then adjust the Standard Offer Rate for the commercial activities tax
20 ("CAT"), and will adjust it for distribution losses based on tariff class. The rates will be

1 on a standalone Standard Offer Rate (Tariff Sheet No. G10), and charged on a \$ per kWh
2 basis for all SSO load based on tariff class.

3 **Q. How will DP&L charge generation rates for the period January 1, 2017 to May 31,**
4 **2017?**

5 A. DP&L is proposing that the ESP period begin on January 1, 2017. However, the
6 Company's current auction schedule ends on May 31, 2017, with the proposed auction
7 schedule beginning delivery on June 1, 2017. During this five-month overlap period,
8 DP&L is proposing to implement the Standard Offer Rate proposed in this case,
9 including the associated rate design, in place of the CB Rate and CBT Rider. The
10 Standard Offer Rate for this five-month period will be calculated using the current
11 tranche-weighted average auction price of winning bids found in PUCO Case No. 13-
12 2120-EL-UNC, including any projected over/under recovery in the current CBT Rider.
13 Thus, the CB and the CBT Rider will be terminated on December 31, 2016. DP&L will
14 continue the current AER during this interim five-month period. Starting on June 1,
15 2017, the Standard Offer Rate will begin in its proposed form as found in this ESP and
16 the AER will be terminated.

17 **Q. How is the residential heating (winter) rate calculated?**

18 A. As stated above, DP&L will continue to make a heating discount available during winter
19 months for residential heating customers. All residential customers, non-heating and
20 heating, will be charged the same rate for all kWh during the summer months.
21 Residential heating customers will be charged a discounted rate for all kWh during the
22 winter months. A discount of 15.27% to the Standard Offer Rate will be applied to the

1 winter usage of residential heating customers. The calculation of this percentage is
2 performed on Exhibit ERB-2.13.

3 Winter months continue to be the billing months of January, February, March, April,
4 May, November, and December.

5 **Q. Why is a 15.27% heating discount appropriate for the Standard Offer Rate**
6 **component?**

7 A. A 15.27% heating discount is appropriate because it matches what the Company is
8 currently providing for that component. By keeping the discount at 15.27%, residential
9 heating customers will not experience significant rate shifts due to increasing, decreasing,
10 or eliminating the discount. Likewise, other tariff classes will not experience any
11 significant cost shifting nor changes to tariff class cost allocations.

12 **Q. What are the benefits of the Standard Offer Rate proposal?**

13 A. The proposed Standard Offer Rate will offer several benefits over the current construct.
14 First, the proposed Standard Offer Rate will be easier for the Company to administer, for
15 the PUCO to audit, and for intervenor groups and customers to review and understand.
16 Currently, costs of procuring power through the CBP auction and costs to administer the
17 auction are recovered in separate tariffs. Combining the functions of both tariffs into the
18 Standard Offer Rate will make the tariff easier to administer and audit. Exhibit ERB-3
19 shows how the CB Rate and CBT Rider are currently administered. Exhibit ERB-4
20 shows the Company's proposal regarding the Standard Offer Rate.

1 The Standard Offer Rate will also benefit customers. If the renewable energy
2 requirement is included in the auction price, as DP&L proposes, then the current AER
3 would be eliminated and the Standard Offer Rate would be the only SSO generation
4 charge beginning June 2017. Thus, the Standard Offer Rate will be equal to the Price-to-
5 Compare (“PTC”), creating a bill that is more understandable for customers. Also, given
6 that the Standard Offer Rate will be the PTC, and the Standard Offer Rate is updated
7 annually, the PTC will be known and constant for 12-month periods. This modification
8 provides rate stability, transparency, and predictability for all customers due to the fact
9 that they can more easily compare equivalent CRES offers. Customers, both SSO and
10 shopping, will know the SSO price they can expect to pay for the next 12 months for their
11 generation service and make an informed decision.

12 Given that the CBT Rider was trued-up on a seasonal quarterly basis, eliminating it and
13 including its functions in the Standard Offer Rate will avoid seasonal variances that are
14 inherent in quarterly true-up schedules. This adjustment has the effect of smoothing out
15 the generation rate and eliminating potential rate shifts based on weather-related factors.

16 **VII. SCHEDULES AND WORKPAPERS**

17 **Q. What is shown on Exhibit ERB-1?**

18 A. Exhibit ERB-1 shows proxy DP&L auction results for each term for the proposed ESP
19 period.

20 **Q. What is shown on Exhibit ERB-1.1?**

1 A. Exhibit ERB-1.1 is the formulation of proxy DP&L CBP auction clearing prices using
2 forward curves and renewable cost forecasts. Page 4 shows the summary of the DP&L
3 forecasted energy price for each term.

4 Q. **What is shown on Exhibit ERB-1.2?**

5 A. Exhibit ERB-1.2 is a list of scaling factors by each Ohio electric utility to produce an
6 average scaling factor.

7 Q. **What is shown on Exhibits ERB-1.3, ERB-1.4, ERB-1.5, and ERB-1.6?**

8 A. Exhibits ERB-1.3, ERB-1.4, ERB-1.5, and ERB-1.6 is the formulation of the auction
9 price/market price ratio for each Ohio utility's SSO auction. Line 1 on Page 2 is the
10 auction clearing prices for each auction. Line 3 is the auction capacity value calculated
11 on Page 1 for each delivery period. Line 4 is the auction non-capacity value, calculated
12 by subtracting Line 3 from Line 1. Line 6 is the energy price by zone after applying the
13 DA basis from the AEP-Dayton Hub. Line 8 is the auction price/market price ratio,
14 calculated by dividing Line 6 by Line 7.

15 Q. **What is shown on Exhibit ERB-2?**

16 A. Exhibit ERB-2 is a summary of the forecasted Standard Offer Rates for the entire ESP
17 period, broken down by each 12-month period, by tariff class.

18 Q. **What is shown on Exhibits ERB-2.1 through ERB-2.7?**

19 A. Exhibits ERB-2.1 through ERB-2.7 show the calculation of the Standard Offer Rate,
20 including conversion from auction price, reconciliation component, cash working capital
21 component, and residential heating (winter) discount for each period. Line 1 is

1 distribution loss factors based on tariff class. Line 3 is historical SSO kWh based on
2 2015 sales by tariff class. Line 8 is the Standard Offer Rate per MWh, which is the sum
3 of the auction price of the relevant auction(s), the reconciliation component, and the cash
4 working capital component. Line 11 is the Standard Offer Rate per MWh by tariff class.
5 It is the product of the tariff loss factor (Line 1) times the Standard Offer Rate per MWh
6 (Line 8) times the adjustment for Commercial Activity Tax (Line 10). Line 13 is the
7 Standard Offer rate represented in kWh. Line 15 is Standard Offer Revenue, calculated
8 by multiplying the Standard Offer Rate (Line 13) by the forecasted SSO kWh (Line 3).

9 The Residential Heat (Winter) rate (Line 18) is applied the winter discount factor (Line
10 19) which results in the Residential Heat (Winter) rate (Line 21) that will apply to all
11 residential heating customer usage during winter months. Line 25 is the difference of the
12 original Residential Heat (Winter) revenue (Line 15) and the Residential Heat (Winter)
13 revenue after discount (Line 23). This amount is spread across the remaining tariff
14 classes using an allocation (Line 29) of the total SSO kWh, resulting in final Standard
15 Offer Rates (Line 33). Line 35 is Standard Offer Revenue with the heating discount,
16 calculated adding Line 15 and Line 31.

17 Line 38 is the difference of the Residential Heat (Summer) rate (Line 36) and the
18 Residential Heat (Winter) rate (Line 37), divided by Line 36. This verifies the 15.27%
19 winter discount.

20 **Q. What is shown on Exhibit ERB-2.11?**

1 A. Exhibit ERB-2.11 shows the calculation of cash working capital for each period. Line 1
2 is the estimated generation supply cost, derived from Exhibits ERB-2.1 through ERB-2.7.
3 Line 3 is the estimated average daily cost of that generation supply, which is Line 1
4 divided by the number of days in the period. Revenue collection lag and expense lead
5 (Lines 5 and 6) were calculated in DP&L Case No. 15-1830-EL-AIR. Net Lag days
6 (Line 8) is the difference between Line 5 and Line 6. The estimated average daily cost
7 multiplied by the net lag in days arrives at the cash working capital. This amount is
8 multiplied by the cost of capital (Line 12) to get the revenue requirement for cash
9 working capital (Line 14). The component of cash working capital for the Standard Offer
10 Rate (Line 18) is the revenue requirement for cash working capital (Line 14) divided by
11 the estimated sales for the year (Line 16).

12 **Q. What is shown on Exhibit ERB-2.12?**

13 A. Exhibit ERB-2.12 is the calculation of the reconciliation component. This function was
14 previously performed in the CBT Rider, but the Company is proposing to incorporate it
15 into the Standard Offer Rate as described above. The reconciliation threshold has been
16 eliminated. Column C is the cost paid to auction suppliers for their delivery to serve SSO
17 load. Column D is the cost to administer the auction. Column E are the revenues
18 received through the Standard Offer Rate. Column F is the sum of Columns C through E.
19 Column G is the previous month's year-to-date ("YTD") total plus the current months
20 over/under recovery. Lines 1 through 12 are the previous 12 months actual data. Lines
21 13 through 24 are a 12 month forecast for the upcoming period. Total over/under

1 recovery (Line 26) is divided by forecasted SSO sales to reach the forecasted
2 reconciliation rate to be assessed on all tariff classes.

3 **Q. What is shown on Exhibit ERB-2.13?**

4 A. Exhibit ERB-2.13 is the calculation of the discount applied to the Residential Heating
5 (Winter) tariff class under the CB Rate.

6 Column D is 2015 kWh SSO sales by Residential and Residential Heating tariff classes
7 by usage block. Column D is CB Rates effective January 1, 2016 for Residential and
8 Residential Heating tariff classes by usage block. Column G is the revenue for
9 Residential and Residential Heating tariff classes by usage block and is calculated by
10 multiplying Column D by Column F. Column H is calculated by dividing Column G by
11 Column D. Line 12 is the calculation of the winter discount percentage. It is equal to
12 Column H, Line 4 minus Column H, Line 10, and dividing that by Column H, Line 4.

13 **VIII. CONCLUSION**

14 **Q. Please summarize your testimony.**

15 A. The Company's CBP plan, Standard Offer Rate proposal, and proxy auction results are
16 all reasonable and should be approved.

17 **Q. Does this conclude your testimony?**

18 A. Yes, it does.

The Dayton Power and Light Company
Case No. 16-0395-EL-SSO
Proxy DP&L Auction Results

Exhibit ERB-1

Page 1 of 2

Line	Delivery Start Date	Delivery End Date	Proxy Auction Price for the Term (\$/MWh)	Number of Tranches to be Auctioned
(A)	(B)	(C)	(D)	(E)
			Exhibit ERB-1.1, Page 4, Col (H)	Exhibit ERB-1.1, Page 4, Col (I)
1	6/1/2017	5/31/2018	\$52.46	33
2	6/1/2017	5/31/2019	\$52.82	33
3	6/1/2017	5/31/2020	\$51.25	34
4	6/1/2018	5/31/2020	\$50.65	16
5	6/1/2018	5/31/2021	\$50.89	17
6	6/1/2019	5/31/2021	\$49.76	16
7	6/1/2019	5/31/2022	\$51.40	17
8	6/1/2020	5/31/2021	\$51.37	17
9	6/1/2020	5/31/2022	\$53.04	16
10	6/1/2020	12/31/2023	\$53.72	17
11	6/1/2021	5/31/2022	\$54.70	16
12	6/1/2021	5/31/2023	\$55.17	17
13	6/1/2021	12/31/2023	\$54.62	17
14	6/1/2022	5/31/2023	\$55.63	24
15	6/1/2022	12/31/2023	\$54.57	25
16	6/1/2023	12/31/2023	\$52.77	41

The Dayton Power and Light Company
Case No. 16-0395-EL-SSO
Proxy DP&L Auction Results

Exhibit ERB-1

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Proxy Auction Price for the Term			
Line	Delivery Start Date	Delivery End Date	(\$/MWh)
(A)	(B)	(C)	(D) *
1	6/1/2017	5/31/2018	\$52.17
2	6/1/2018	5/31/2019	\$51.61
3	6/1/2019	5/31/2020	\$50.88
4	6/1/2020	5/31/2021	\$51.70
5	6/1/2021	5/31/2022	\$53.77
6	6/1/2022	5/31/2023	\$54.79
7	6/1/2023	12/31/2023	\$53.70

* The Proxy Auction Price for each delivery date is calculated by weighting the auction price for each term shown on page 1 by the respective number of tranches for that term.

The Dayton Power and Light Company
Case No. 16-0395-EL-SSO
Proxy DP&L CBP Auction Clearing Prices

Exhibit ERB-1.1
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Line	Delivery Month	Corporate Forecast			NERC Hours			Days in Month	RPM Price (\$/MW-day)	RPM (\$/MWh @ 50% LF)	Renewables (\$/MWh)
		On	Off	ATC	On	Off	Total				
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)
				$\frac{(E) = [(C)*(F) + (D)*(G)]}{(G)}$			$(H) = (F) + (G)$	$(I) = (H)/24$	<u>PJM and Corporate Forecast</u>	$(K) = (I)*(J)/[(H)*50\%]$	<u>Corporate Forecast</u>
1	6/1/2017				352	368	720	30			
2	7/1/2017				320	424	744	31			
3	8/1/2017				368	376	744	31			
4	9/1/2017				320	400	720	30			
5	10/1/2017				352	392	744	31			
6	11/1/2017				336	385	721	30			
7	12/1/2017				320	424	744	31			
8	1/1/2018				352	392	744	31			
9	2/1/2018				320	352	672	28			
10	3/1/2018				352	391	743	31			
11	4/1/2018				336	384	720	30			
12	5/1/2018				352	392	744	31			
13	6/1/2018				336	384	720	30			
14	7/1/2018				336	408	744	31			
15	8/1/2018				368	376	744	31			
16	9/1/2018				304	416	720	30			
17	10/1/2018				368	376	744	31			
18	11/1/2018				336	385	721	30			
19	12/1/2018				320	424	744	31			
20	1/1/2019				352	392	744	31			
21	2/1/2019				320	352	672	28			
22	3/1/2019				336	407	743	31			
23	4/1/2019				352	368	720	30			
24	5/1/2019				352	392	744	31			
25	6/1/2019				320	400	720	30			
26	7/1/2019				352	392	744	31			
27	8/1/2019				352	392	744	31			
28	9/1/2019				320	400	720	30			
29	10/1/2019				368	376	744	31			
30	11/1/2019				320	401	721	30			
31	12/1/2019				336	408	744	31			
32	1/1/2020				352	392	744	31			
33	2/1/2020				320	376	696	29			
34	3/1/2020				352	391	743	31			
35	4/1/2020				352	368	720	30			
36	5/1/2020				320	424	744	31			
37	6/1/2020				352	368	720	30			
38	7/1/2020				368	376	744	31			
39	8/1/2020				336	408	744	31			

The Dayton Power and Light Company
Case No. 16-0395-EL-SSO
Proxy DP&L CBP Auction Clearing Prices

Exhibit ERB-1.1
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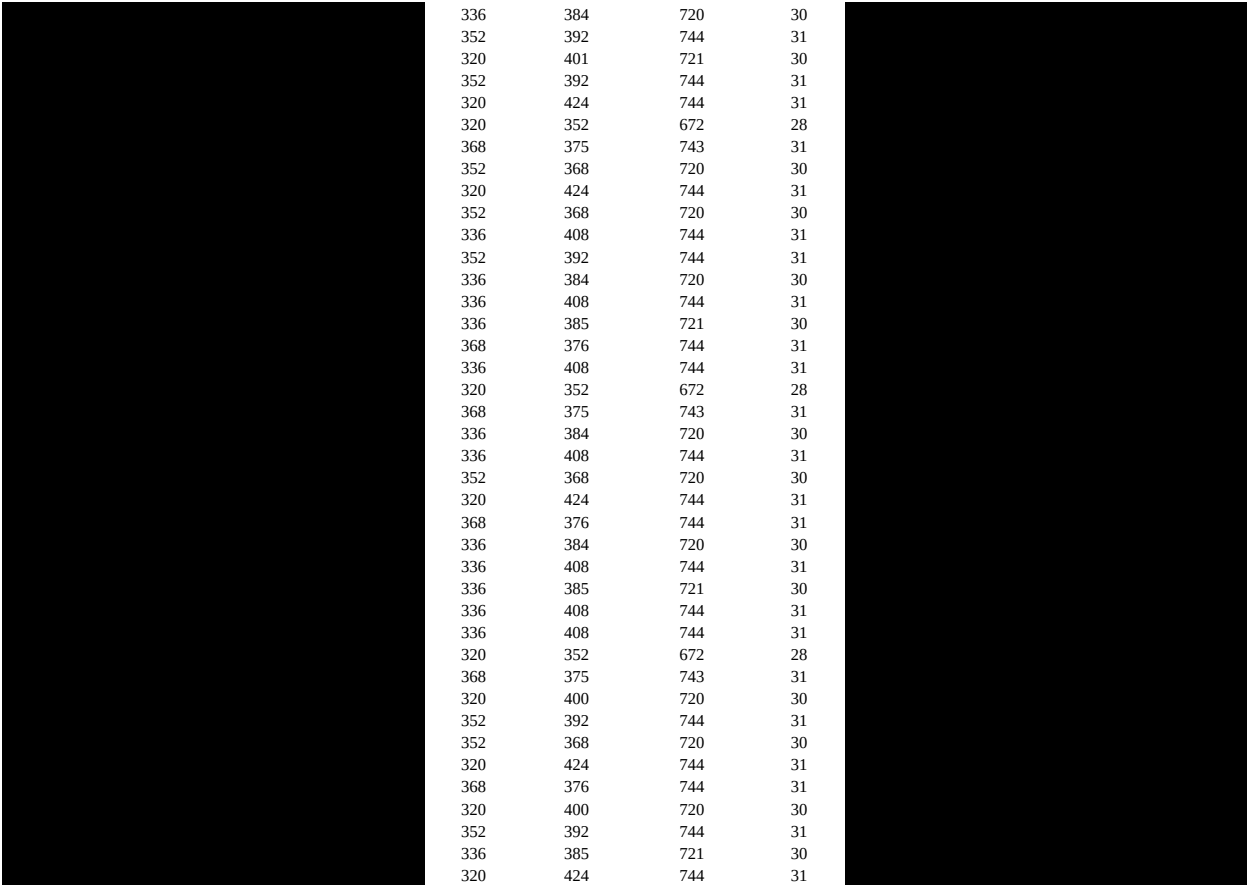
Line	Delivery Month	Corporate Forecast			NERC Hours			Days in Month	RPM Price (\$/MW-day)	RPM (\$/MWh @ 50% LF)	Renewables (\$/MWh)
		On	Off	ATC	On	Off	Total				
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)
				$\frac{(E) = [(C)*(F) + (D)*(G)]}{[(F) + (G)]}$			$(H) = (F) + (G)$	$(I) = (H)/24$	<u>PJM and Corporate Forecast</u>	$(K) = (I)*(J)/[(H)*50\%]$	<u>Corporate Forecast</u>
1	9/1/2020					336	384	720	30		
2	10/1/2020					352	392	744	31		
3	11/1/2020					320	401	721	30		
4	12/1/2020					352	392	744	31		
5	1/1/2021					320	424	744	31		
6	2/1/2021					320	352	672	28		
7	3/1/2021					368	375	743	31		
8	4/1/2021					352	368	720	30		
9	5/1/2021					320	424	744	31		
10	6/1/2021					352	368	720	30		
11	7/1/2021					336	408	744	31		
12	8/1/2021					352	392	744	31		
13	9/1/2021					336	384	720	30		
14	10/1/2021					336	408	744	31		
15	11/1/2021					336	385	721	30		
16	12/1/2021					368	376	744	31		
17	1/1/2022					336	408	744	31		
18	2/1/2022					320	352	672	28		
19	3/1/2022					368	375	743	31		
20	4/1/2022					336	384	720	30		
21	5/1/2022					336	408	744	31		
22	6/1/2022					352	368	720	30		
23	7/1/2022					320	424	744	31		
24	8/1/2022					368	376	744	31		
25	9/1/2022					336	384	720	30		
26	10/1/2022					336	408	744	31		
27	11/1/2022					336	385	721	30		
28	12/1/2022					336	408	744	31		
29	1/1/2023					336	408	744	31		
30	2/1/2023					320	352	672	28		
31	3/1/2023					368	375	743	31		
32	4/1/2023					320	400	720	30		
33	5/1/2023					352	392	744	31		
34	6/1/2023					352	368	720	30		
35	7/1/2023					320	424	744	31		
36	8/1/2023					368	376	744	31		
37	9/1/2023					320	400	720	30		
38	10/1/2023					352	392	744	31		
39	11/1/2023					336	385	721	30		
40	12/1/2023					320	424	744	31		

Exhibit ERB-1.1
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18 * Col (D) price for each delivery period is calculated by multiplying Col (E) by Col (I) for each delivery month of the period and dividing by the sum of Col (I) for the period on pages 1-3.
19 ** Col (F) price for each delivery period is calculated by multiplying Col (I) by Col (K) for each delivery month of the period and dividing by the sum of Col (I) for the period on pages 1-3.
20 *** Col (G) price for each delivery period is calculated by multiplying Col (I) by Col (L) for each delivery month of the period and dividing by the sum of Col (I) for the period on pages 1-3.

The Dayton Power and Light Company
Case No. 16-0395-EL-SSO
Auction Scaling Factors

Exhibit ERB-1.2

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Line	Company	Auction Date	Scaling Factors	Source
(A)	(B)	(C)	(D)	(E)
1	First Energy	1/22/2013	1.261	Exhibit ERB-1.3, Line 8, Col (C)
2	First Energy	10/22/2013	1.149	Exhibit ERB-1.3, Line 8, Col (D)
3	First Energy	10/22/2013	1.203	Exhibit ERB-1.3, Line 8, Col (E)
4	First Energy	1/28/2014	1.243	Exhibit ERB-1.3, Line 8, Col (F)
5	First Energy	1/28/2014	1.438	Exhibit ERB-1.3, Line 8, Col (G)
6	First Energy	10/14/2014	1.245	Exhibit ERB-1.3, Line 8, Col (H)
7	First Energy	1/27/2015	1.227	Exhibit ERB-1.3, Line 8, Col (I)
8	Duke Energy Ohio	5/21/2013	1.183	Exhibit ERB-1.4, Line 8, Col (C)
9	Duke Energy Ohio	11/12/2013	1.197	Exhibit ERB-1.4, Line 8, Col (D)
10	Duke Energy Ohio	5/14/2015	1.306	Exhibit ERB-1.4, Line 8, Col (E)
11	Duke Energy Ohio	5/14/2015	1.377	Exhibit ERB-1.4, Line 8, Col (F)
12	Duke Energy Ohio	5/14/2015	1.411	Exhibit ERB-1.4, Line 8, Col (G)
13	Duke Energy Ohio	11/16/2015	1.225	Exhibit ERB-1.4, Line 8, Col (H)
14	AEP Ohio	4/28/2015	1.170	Exhibit ERB-1.5, Line 8, Col (C)
15	AEP Ohio	4/28/2015	1.256	Exhibit ERB-1.5, Line 8, Col (D)
16	AEP Ohio	4/28/2015	1.296	Exhibit ERB-1.5, Line 8, Col (E)
17	AEP Ohio	5/12/2015	1.184	Exhibit ERB-1.5, Line 8, Col (F)
18	AEP Ohio	5/12/2015	1.266	Exhibit ERB-1.5, Line 8, Col (G)
19	AEP Ohio	5/12/2015	1.301	Exhibit ERB-1.5, Line 8, Col (H)
20	AEP Ohio	11/3/2015	1.166	Exhibit ERB-1.5, Line 8, Col (I)
21	Dayton Power and Light	10/28/2013	1.172	Exhibit ERB-1.6, Line 8, Col (C)
22	Dayton Power and Light	9/23/2014	1.386	Exhibit ERB-1.6, Line 8, Col (D)
23	Dayton Power and Light	9/28/2015	1.265	Exhibit ERB-1.6, Line 8, Col (E)
24				
25	Average Scaling Factor		1.258	Average of Lines 1 thru 23

Exhibit EBB-1.3

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* ATC = (on peak prices * on peak hours + off peak prices * off peak hours) / total hours

The Dayton Power and Light Company
Case No. 16-0395-EL-SSO
First Energy Auction Results

Exhibit ERB-1.3
Page 2 of 2

Line	Description	1/22/2013 Auction Results	10/22/2013 Auction Results	10/22/2013 Auction Results	1/28/2014 Auction Results	1/28/2014 Auction Results	10/14/2014 Auction Results	1/27/2015 Auction Results	Source
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
1	Auction Results	\$59.17	\$50.91	\$59.99	\$55.83	\$68.31	\$73.82	\$69.18	Case No. 12-2742-EL-UNC
2	Delivery Period	6/13 - 5/16	6/14 - 5/15	6/14 - 5/16	6/14 - 5/15	6/14 - 5/16	6/15 - 5/16	6/15 - 5/16	Case No. 12-2742-EL-UNC
3	Auction Capacity Value *	\$12.53	\$10.68	\$17.68	\$10.77	\$17.73	\$24.70	\$24.70	Col (U) * Col (W) / Sum Col (U)
4	Auction Non-Capacity Value	\$46.64	\$40.23	\$42.31	\$45.06	\$50.58	\$49.12	\$44.48	Line 1 - Line 3
5	ATSI DA LMP Basis from AD Hub **	\$0.88	\$1.35	\$1.35	\$1.53	\$1.53	\$2.73	\$2.28	See Note Below
6	Capacity and Basis Removed	\$45.76	\$38.88	\$40.96	\$43.53	\$49.05	\$46.38	\$42.19	Line 4 - Line 5
7	AD Hub Market Price	\$36.27	\$33.85	\$34.06	\$35.02	\$34.12	\$37.26	\$34.39	Pg 1, Line 39-42, Cols (E) and (H) and (K) and (N) and (Q)
8	Auction Price/Market Price Ratio	1.261	1.149	1.203	1.243	1.438	1.245	1.227	Line 6 / Line 7

* For Column (C): Col (W) * Col (U) / Sum Col (U)

* For Columns (D) and (E): Col (Y) * Col (U) / Sum Col (U)

* For Columns (F) and (G): Col (AA) * Col (U) / Sum Col (U)

* For Column (H) and (I): Col (CC) * Col (U) / Sum Col (U)

** Line 5 is the average of the difference in PJM DA LMPs for the 12-month period before the auction date

Exhibit ERB-1.4
Page 1 of 2

* $ATC = (\text{on peak prices} * \text{on peak hours} + \text{off peak prices} * \text{off peak hours}) / \text{total hours}$

The Dayton Power and Light Company
Case No. 16-0395-EL-SSO
Duke Energy Ohio Auction Results

Exhibit ERB-1.4
Page 2 of 2

Line (A)	Description (B)	5/21/2013 Auction Results (C)	11/12/2013 Auction Results (D)	5/14/2015 Auction Results (E)	5/14/2015 Auction Results (F)	5/14/2015 Auction Results (G)	11/16/2015 Auction Results (H)	Source (I)
1	Auction Results	\$54.16	\$50.11	\$58.79	\$57.60	\$59.17	\$49.86	Case Nos. 11-6000-EL-UNC, 15-6000-EL-UNC
2	Delivery Period	6/14 - 5/15	6/14 - 5/15	6/15 - 5/16	6/15 - 5/17	6/15 - 5/18	6/16 - 5/18	Case Nos. 11-6000-EL-UNC, 15-6000-EL-UNC
3	Auction Capacity Value *	\$10.68	\$10.68	\$11.32	\$8.14	\$8.75	\$10.30	See Note Below
4	Auction Non-Capacity Value	\$43.48	\$39.43	\$47.47	\$49.46	\$50.42	\$39.56	Line 1 - Line 3
5	DEOK DA LMP Basis from AD Hub **	-\$0.60	-\$0.83	-\$0.53	-\$0.53	-\$0.53	\$0.12	See Note Below
6	Capacity and Basis Removed	\$44.08	\$40.26	\$48.00	\$49.99	\$50.94	\$39.44	Line 4 - Line 5
7	AD Hub Market Price	\$37.25	\$33.63	\$36.74	\$36.29	\$36.09	\$32.20	Pg 1, Lines 51-55, Cols (E) and (H) and (K) and (N)
8	Auction Price/Market Price Ratio	1.183	1.197	1.306	1.377	1.411	1.225	Line 6 / Line 7

* For Column (C): Col (T) * Col (R) / Sum Col (R)

* For Column (D): Col (V) * Col (R) / Sum Col (R)

* For Columns (E) through (G) : Col (X) * Col (R) / Sum Col (R)

* For Column (H): Col (Y) * Col (R) / Sum Col (R)

** Line 5 is the average of the difference in PJM DA LMPs for the 12-month period before the auction date

The Dayton Power and Light Company
Case No. 16-0395-EL-SSO
AEP Ohio Auction Results

Exhibit ERB-1.5
Page 1 of 2

		AD Hub Prices on Auction Date:														RPM Price (\$/MW-day)		RPM Price (\$/MW-day) At		RPM Price (\$/MW-day) @ 50% LF	
		4/28/2015			5/12/2015			11/3/2015			NERC Hours					At 4/28/2015, 5/12/2015		@ 50% LF		At 11/3/2015	
Line	Delivery Month	On	Off	ATC*	On	Off	ATC*	On	Off	ATC*	On	Off	Total	Days in Month							
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)	(Q)	(R)	(S)	(T)	(U)	
														(N) = (L) + (M)	(O) = (N)/24	PIM	(Q) = (P)*(O) / [(N)*50%]	PIM	(S) = (R)*(O) / [(N)*50%]		
1	6/1/2015	\$39.81	\$26.39	\$32.95	\$41.45	\$27.29	\$34.21				352	368	720	30	\$135.81	\$11.32	\$135.81	\$11.32	\$11.32		
2	7/1/2015	\$50.84	\$30.73	\$40.68	\$53.90	\$31.36	\$42.51				368	376	744	31	\$135.81	\$11.32	\$135.81	\$11.32	\$11.32		
3	8/1/2015	\$43.34	\$27.94	\$34.89	\$45.72	\$29.06	\$36.58				336	408	744	31	\$135.81	\$11.32	\$135.81	\$11.32	\$11.32		
4	9/1/2015	\$37.28	\$26.11	\$31.32	\$38.69	\$26.93	\$32.42				336	384	720	30	\$135.81	\$11.32	\$135.81	\$11.32	\$11.32		
5	10/1/2015	\$36.63	\$27.11	\$31.61	\$38.20	\$27.42	\$32.52				352	392	744	31	\$135.81	\$11.32	\$135.81	\$11.32	\$11.32		
6	11/1/2015	\$36.58	\$27.91	\$31.76	\$38.15	\$28.26	\$32.65				320	401	721	30	\$135.81	\$11.32	\$135.81	\$11.32	\$11.32		
7	12/1/2015	\$38.88	\$31.21	\$34.84	\$40.92	\$31.42	\$35.91				352	392	744	31	\$135.81	\$11.32	\$135.81	\$11.32	\$11.32		
8	1/1/2016	\$53.89	\$42.77	\$47.55	\$54.37	\$43.38	\$48.11				320	424	744	31	\$135.81	\$11.32	\$135.81	\$11.32	\$11.32		
9	2/1/2016	\$47.21	\$38.30	\$42.60	\$47.66	\$38.87	\$43.11				336	360	696	29	\$135.81	\$11.32	\$135.81	\$11.32	\$11.32		
10	3/1/2016	\$39.77	\$33.16	\$36.43	\$39.98	\$34.10	\$37.01				368	375	743	31	\$135.81	\$11.32	\$135.81	\$11.32	\$11.32		
11	4/1/2016	\$36.48	\$28.11	\$32.02	\$36.87	\$28.83	\$32.58				336	384	720	30	\$135.81	\$11.32	\$135.81	\$11.32	\$11.32		
12	5/1/2016	\$38.38	\$26.50	\$31.87	\$39.10	\$26.75	\$32.33				336	408	744	31	\$135.81	\$11.32	\$135.81	\$11.32	\$11.32		
13	6/1/2016	\$40.40	\$26.50	\$33.30	\$41.00	\$26.63	\$33.66	\$38.01	\$24.08	\$30.89	352	368	720	30	\$59.38	\$4.95	\$98.29	\$8.19	\$8.19		
14	7/1/2016	\$50.64	\$28.55	\$38.05	\$51.72	\$28.48	\$38.48	\$44.49	\$25.55	\$33.70	320	424	744	31	\$59.38	\$4.95	\$98.29	\$8.19	\$8.19		
15	8/1/2016	\$43.61	\$27.95	\$35.70	\$44.58	\$27.89	\$36.15	\$39.56	\$24.90	\$32.15	368	376	744	31	\$59.38	\$4.95	\$98.29	\$8.19	\$8.19		
16	9/1/2016	\$36.93	\$26.25	\$31.23	\$37.50	\$26.43	\$31.60	\$34.35	\$24.20	\$28.94	336	384	720	30	\$59.38	\$4.95	\$98.29	\$8.19	\$8.19		
17	10/1/2016	\$36.13	\$26.50	\$30.85	\$36.69	\$26.67	\$31.20	\$33.39	\$25.35	\$28.98	336	408	744	31	\$59.38	\$4.95	\$98.29	\$8.19	\$8.19		
18	11/1/2016	\$36.68	\$26.55	\$31.27	\$37.44	\$26.72	\$31.72	\$33.99	\$26.10	\$29.78	336	385	721	30	\$59.38	\$4.95	\$98.29	\$8.19	\$8.19		
19	12/1/2016	\$37.88	\$30.69	\$33.94	\$38.19	\$30.87	\$34.18	\$34.74	\$27.95	\$31.02	336	408	744	31	\$59.38	\$4.95	\$98.29	\$8.19	\$8.19		
20	1/1/2017	\$52.72	\$42.28	\$46.99	\$53.43	\$43.11	\$47.77	\$41.21	\$36.60	\$38.68	336	408	744	31	\$59.38	\$4.95	\$98.29	\$8.19	\$8.19		
21	2/1/2017	\$48.88	\$38.22	\$43.30	\$49.57	\$38.99	\$44.03	\$38.79	\$32.90	\$35.70	320	352	672	28	\$59.38	\$4.95	\$98.29	\$8.19	\$8.19		
22	3/1/2017	\$40.46	\$34.01	\$37.20	\$40.24	\$33.70	\$36.94	\$37.92	\$29.72	\$33.78	368	375	743	31	\$59.38	\$4.95	\$98.29	\$8.19	\$8.19		
23	4/1/2017	\$35.94	\$29.79	\$32.52	\$35.76	\$29.60	\$32.34	\$35.33	\$26.28	\$30.30	320	400	720	30	\$59.38	\$4.95	\$98.29	\$8.19	\$8.19		
24	5/1/2017	\$38.35	\$24.82	\$31.22	\$39.31	\$25.35	\$31.95	\$37.61	\$25.05	\$30.99	352	392	744	31	\$59.38	\$4.95	\$98.29	\$8.19	\$8.19		
25	6/1/2017	\$40.79	\$24.72	\$32.58	\$41.55	\$25.25	\$33.22	\$38.36	\$24.95	\$31.51	352	368	720	30	\$119.81	\$9.98	\$149.02	\$12.42	\$12.42		
26	7/1/2017	\$49.39	\$28.33	\$37.39	\$49.57	\$27.98	\$37.27	\$45.86	\$24.70	\$33.80	320	424	744	31	\$119.81	\$9.98	\$149.02	\$12.42	\$12.42		
27	8/1/2017	\$43.61	\$27.87	\$35.66	\$43.83	\$27.52	\$35.59	\$40.64	\$24.30	\$32.38	368	376	744	31	\$119.81	\$9.98	\$149.02	\$12.42	\$12.42		
28	9/1/2017	\$36.86	\$25.06	\$30.30	\$37.74	\$25.60	\$31.00	\$34.38	\$25.10	\$29.22	320	400	720	30	\$119.81	\$9.98	\$149.02	\$12.42	\$12.42		
29	10/1/2017	\$35.25	\$27.05	\$30.93	\$35.12	\$26.67	\$30.67	\$32.36	\$23.47	\$27.68	352	392	744	31	\$119.81	\$9.98	\$149.02	\$12.42	\$12.42		
30	11/1/2017	\$35.15	\$27.61	\$31.12	\$35.02	\$27.22	\$30.85	\$32.76	\$24.06	\$28.11	336	385	721	30	\$119.81	\$9.98	\$149.02	\$12.42	\$12.42		
31	12/1/2017	\$39.40	\$29.65	\$33.84	\$39.36	\$29.21	\$33.58	\$35.37	\$27.46	\$30.86	320	424	744	31	\$119.81	\$9.98	\$149.02	\$12.42	\$12.42		
32	1/1/2018	\$56.41	\$43.10	\$49.40	\$56.65	\$42.80	\$49.35	\$43.44	\$38.80	\$41.00	352	392	744	31	\$119.81	\$9.98	\$149.02	\$12.42	\$12.42		
33	2/1/2018	\$52.19	\$39.90	\$45.75	\$52.35	\$39.60	\$45.67	\$39.88	\$36.05	\$37.87	320	352	672	28	\$119.81	\$9.98	\$149.02	\$12.42	\$12.42		
34	3/1/2018	\$42.09	\$33.45	\$37.54	\$42.09	\$33.50	\$37.57	\$38.41	\$28.80	\$33.35	352	391	743	31	\$119.81	\$9.98	\$149.02	\$12.42	\$12.42		
35	4/1/2018	\$34.80	\$29.25	\$31.84	\$34.81	\$29.35	\$31.90	\$31.80	\$25.25	\$28.31	336	384	720	30	\$119.81	\$9.98	\$149.02	\$12.42	\$12.42		
36	5/1/2018	\$38.42	\$26.50	\$32.14	\$38.40	\$26.60	\$32.18	\$33.07	\$22.95	\$27.74	352	392	744	31	\$119.81	\$9.98	\$149.02	\$12.42	\$12.42		
37																					
38	Delivery Periods																				
39	6/15 - 5/16	\$41.58	\$30.55	\$35.71	\$42.92	\$31.16	\$36.67														
40	6/15 - 5/17	\$41.54	\$30.35	\$35.57	\$42.50	\$30.75	\$36.24														
41	6/15 - 5/18	\$41.70	\$30.28	\$35.61	\$42.39	\$30.51	\$36.06														
42	6/16 - 5/18							\$37.32	\$27.24	\$31.93											

* ATC = (on peak prices * on peak hours + off peak prices * off peak hours) / total hours

The Dayton Power and Light Company
Case No. 16-0395-EL-SSO
AEP Ohio Auction Results

Exhibit ERB-1.5
Page 2 of 2

Line	Description	4/28/2015 Auction Results	4/28/2015 Auction Results	4/28/2015 Auction Results	5/12/2015 Auction Results	5/12/2015 Auction Results	5/12/2015 Auction Results	11/3/2015 Auction Results	Source
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
1	Auction Results	\$53.79	\$53.51	\$55.58	\$55.42	\$54.70	\$56.35	\$48.29	Case No. 15-792-EL-UNC
2	Delivery Period	6/15 - 5/16	6/15 - 5/17	6/15 - 5/18	6/15 - 5/16	6/15 - 5/17	6/15 - 5/18	6/16 - 5/18	Case No. 15-792-EL-UNC
3	Auction Capacity Value *	\$11.32	\$8.14	\$8.75	\$11.32	\$8.14	\$8.75	\$10.30	See Note Below
4	Auction Non-Capacity Value	\$42.47	\$45.37	\$46.83	\$44.10	\$46.56	\$47.60	\$37.99	Line 1 - Line 3
5	AEP Ohio DA LMP Basis from AD Hub **	\$0.68	\$0.68	\$0.68	\$0.69	\$0.69	\$0.69	\$0.75	See Note Below
6	Capacity and Basis Removed	\$41.80	\$44.70	\$46.15	\$43.41	\$45.87	\$46.91	\$37.23	Line 4 - Line 5
7	AD Hub Market Price	\$35.71	\$35.57	\$35.61	\$36.67	\$36.24	\$36.06	\$31.93	Pg 1, Lines 39-42, Cols (E) and (H) and (K)
8	Auction Price/Market Price Ratio	1.170	1.256	1.296	1.184	1.266	1.301	1.166	Line 6 / Line 7

* For Columns (C) through (H): Col (Q) * Col (O) / Sum Col (O)

* For Column (I): Col (S) * Col (O) / Sum Col (O)

** Line 5 is the average of the difference in PJM DA LMPs for the 12-month period before the auction date

The Dayton Power and Light Company
Case No. 16-0395-EL-SSO
Dayton Power and Light Auction Results

Exhibit ERB-1.6

Page 1 of 2

AD Hub Prices on Auction Date:													NERC Hours		RPM Price		RPM Price		RPM Price		RPM Price	
10/28/2013			9/23/2014			9/28/2015			(\$/MW-day) at		(\$/MW-day) at				(\$/MW-day) at		(\$/MW-day) at					
Line	Delivery Month	On	Off	ATC*	On	Off	ATC*	On	Off	ATC*	On	Off	Total	Days in Month	10/28/2013	RPM (\$/MWh @ 50% LF)	9/23/2014	RPM (\$/MWh @ 50% LF)	9/28/2015	RPM (\$/MWh @ 50% LF)		
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)	(Q)	(R)	(S)	(T)	(U)		
													(N) = (L) + (M)	(O) = (N)/24	PJM	(Q) = (P)*(O) / [(N)*50%]	PJM	(S) = (R)*(O) / [(N)*50%]	PJM	(U) = (T)*(O) / [(N)*50%]		
1	1/1/2014	\$40.10	\$33.05	\$36.99							416	328	744	31	\$28.45	\$2.37						
2	2/1/2014	\$38.72	\$32.00	\$35.84							384	288	672	28	\$28.45	\$2.37						
3	3/1/2014	\$38.36	\$30.48	\$34.89							416	327	743	31	\$28.45	\$2.37						
4	4/1/2014	\$37.46	\$28.85	\$33.82							416	304	720	30	\$28.45	\$2.37						
5	5/1/2014	\$37.50	\$26.59	\$32.69							416	328	744	31	\$28.45	\$2.37						
6	6/1/2014	\$39.58	\$26.60	\$32.66							336	384	720	30	\$129.28	\$10.77						
7	7/1/2014	\$51.22	\$28.41	\$39.20							352	392	744	31	\$129.28	\$10.77						
8	8/1/2014	\$45.83	\$28.26	\$36.19							336	408	744	31	\$129.28	\$10.77						
9	9/1/2014	\$37.09	\$26.31	\$31.34							336	384	720	30	\$129.28	\$10.77						
10	10/1/2014	\$35.33	\$27.47	\$31.36							368	376	744	31	\$129.28	\$10.77						
11	11/1/2014	\$37.36	\$28.66	\$32.33							304	417	721	30	\$129.28	\$10.77						
12	12/1/2014	\$37.85	\$30.60	\$34.03							352	392	744	31	\$129.28	\$10.77						
13	1/1/2015	\$40.19	\$31.79	\$35.58	\$59.47	\$41.60	\$49.67				336	408	744	31	\$129.28	\$10.77	\$128.38	\$10.70				
14	2/1/2015	\$40.19	\$31.79	\$35.79	\$51.43	\$37.63	\$44.20				320	352	672	28	\$129.28	\$10.77	\$128.38	\$10.70				
15	3/1/2015	\$37.95	\$29.37	\$33.43	\$46.11	\$34.24	\$39.86				352	391	743	31	\$129.28	\$10.77	\$128.38	\$10.70				
16	4/1/2015	\$37.95	\$29.37	\$33.56	\$41.64	\$29.86	\$35.62				352	368	720	30	\$129.28	\$10.77	\$128.38	\$10.70				
17	5/1/2015	\$37.70	\$26.70	\$31.43	\$41.85	\$27.28	\$33.55				320	424	744	31	\$129.28	\$10.77	\$128.38	\$10.70				
18	6/1/2015	\$41.39	\$26.55	\$33.81	\$43.55	\$26.75	\$34.96				352	368	720	30	\$135.72	\$11.31	\$135.79	\$11.32				
19	7/1/2015	\$49.78	\$29.72	\$39.64	\$56.62	\$29.21	\$42.77				368	376	744	31	\$135.72	\$11.31	\$135.79	\$11.32				
20	8/1/2015	\$49.78	\$29.72	\$38.78	\$47.15	\$28.31	\$36.82				336	408	744	31	\$135.72	\$11.31	\$135.79	\$11.32				
21	9/1/2015	\$37.95	\$27.39	\$32.32	\$39.55	\$26.25	\$32.46				336	384	720	30	\$135.72	\$11.31	\$135.79	\$11.32				
22	10/1/2015	\$35.80	\$27.69	\$31.53	\$37.79	\$27.01	\$32.11				352	392	744	31	\$135.72	\$11.31	\$135.79	\$11.32				
23	11/1/2015	\$37.10	\$29.17	\$32.69	\$38.79	\$26.91	\$32.18				320	401	721	30	\$135.72	\$11.31	\$135.79	\$11.32				
24	12/1/2015	\$38.44	\$31.15	\$34.60	\$41.74	\$32.04	\$36.63				352	392	744	31	\$135.72	\$11.31	\$135.79	\$11.32				
25	1/1/2016	\$40.31	\$33.09	\$36.20	\$56.10	\$43.20	\$48.75	\$48.11	\$38.72	\$42.76	320	424	744	31	\$135.72	\$11.31	\$135.79	\$11.32	\$135.81	\$11.32		
26	2/1/2016	\$40.31	\$33.09	\$36.58	\$50.15	\$39.32	\$44.55	\$43.99	\$34.78	\$39.23	336	360	696	29	\$135.72	\$11.31	\$135.79	\$11.32	\$135.81	\$11.32		
27	3/1/2016	\$37.11	\$29.83	\$33.44	\$42.84	\$35.38	\$39.07	\$39.80	\$34.54	\$37.15	368	375	743	31	\$135.72	\$11.31	\$135.79	\$11.32	\$135.81	\$11.32		
28	4/1/2016	\$37.11	\$29.83	\$33.23	\$38.76	\$31.04	\$34.64	\$37.95	\$28.71	\$33.02	336	384	720	30	\$135.72	\$11.31	\$135.79	\$11.32	\$135.81	\$11.32		
29	5/1/2016	\$38.56	\$26.77	\$32.09	\$40.73	\$27.26	\$33.34	\$39.94	\$26.40	\$32.51	336	408	744	31	\$135.72	\$11.31	\$135.79	\$11.32	\$135.81	\$11.32		
30	6/1/2016	\$41.61	\$26.96	\$34.12	\$43.88	\$26.36	\$34.93	\$39.64	\$25.53	\$32.43	352	368	720	30	\$59.37	\$4.95	\$59.38	\$4.95	\$60.13	\$5.01		
31	7/1/2016	\$51.85	\$29.53	\$39.13	\$54.40	\$28.10	\$39.41	\$48.20	\$27.25	\$36.26	320	424	744	31	\$59.37	\$4.95	\$59.38	\$4.95	\$60.13	\$5.01		
32	8/1/2016	\$51.85	\$29.53	\$40.57	\$47.60	\$27.46	\$37.42	\$40.55	\$25.50	\$32.94	368	376	744	31	\$59.37	\$4.95	\$59.38	\$4.95	\$60.13	\$5.01		
33	9/1/2016	\$38.26	\$26.77	\$32.13	\$38.63	\$24.57	\$31.13	\$36.00	\$25.00	\$30.13	336	384	720	30	\$59.37	\$4.95	\$59.38	\$4.95	\$60.13	\$5.01		
34	10/1/2016	\$36.16	\$29.43	\$32.47	\$37.29	\$27.06	\$31.68	\$35.75	\$26.06	\$30.44	336	408	744	31	\$59.37	\$4.95	\$59.38	\$4.95	\$60.13	\$5.01		
35	11/1/2016	\$36.56	\$29.43	\$32.75	\$37.34	\$27.91	\$32.30	\$36.15	\$26.71	\$31.11	336	385	721	30	\$59.37	\$4.95	\$59.38	\$4.95	\$60.13	\$5.01		
36	12/1/2016	\$38.21	\$29.43	\$33.40	\$41.55	\$30.55	\$35.52	\$37.00	\$28.61	\$32.40	336	408	744	31	\$59.37	\$4.95	\$59.38	\$4.95	\$60.13	\$5.01		
37	1/1/2017	\$41.63	\$34.07	**	\$37.49	\$57.33	\$45.25	\$50.71	\$47.31	\$39.46	\$43.01	336	408	744	31	\$59.37	\$4.95	\$59.38	\$4.95	\$60.13	\$5.01	
38	2/1/2017	\$41.63	\$34.18	**	\$37.73	\$52.84	\$40.83	\$46.55	\$44.25	\$35.58	\$39.71	320	352	672	28	\$59.37	\$4.95	\$59.38	\$4.95	\$60.13	\$5.01	
39	3/1/2017	\$38.32	\$30.41	**	\$34.33	\$44.89	\$34.93	\$39.86	\$39.38	\$31.13	\$35.22	368	375	743	31	\$59.37	\$4.95	\$59.38	\$4.95	\$60.13	\$5.01	
40	4/1/2017	\$38.32	\$30.16	**	\$33.79	\$37.64	\$30.66	\$33.76	\$34.40	\$27.56	\$30.60	320	400	720	30	\$59.37	\$4.95	\$59.38	\$4.95	\$60.13	\$5.01	
41	5/1/2017	\$39.52	\$28.29	**	\$33.60	\$41.34	\$26.84	\$33.70	\$37.37	\$24.41	\$30.54	352	392	744	31	\$59.37	\$4.95	\$59.38	\$4.95	\$60.13	\$5.01	
42																						
43	Delivery Periods																					
44	1/14 - 5/17	\$40.17	\$29.45	\$34.57																		
45	1/15 - 5/17				\$45.11	\$31.49	\$37.84															
46	1/16 - 5/17							\$40.29	\$29.75	\$34.66												

* ATC = (on peak prices * on peak hours + off peak prices * off peak hours) / total hours

** Column (D), Lines 37 through 41 are estimates (Actual data not available from public source)

The Dayton Power and Light Company
Case No. 16-0395-EL-SSO
Dayton Power and Light Auction Results

Exhibit ERB-1.6
Page 2 of 2

Line	Description	10/28/2013 Auction Results	9/23/2014 Auction Results	9/28/2015 Auction Results	Source
(A)	(B)	(C)	(D)	(E)	(F)
1	Auction Results	\$49.32	\$62.08	\$51.49	Case Nos. 13-2120-EL-UNC
2	Delivery Period	1/14 - 5/17	1/15 - 5/17	1/16 - 5/17	Case Nos. 13-2120-EL-UNC
3	Auction Capacity Value *	\$8.21	\$8.57	\$6.86	See Note Below
4	Auction Non-Capacity Value	\$41.11	\$53.51	\$44.63	Line 1 - Line 3
5	DAY DA LMP Basis from AD Hub **	\$0.58	\$1.04	\$0.78	See Note Below
6	Capacity and Basis Removed	\$40.53	\$52.47	\$43.84	Line 4 - Line 5
7	AD Hub Market Price	\$34.57	\$37.84	\$34.66	Pg 1, Lines 44-46, Cols (E) and (H) and (K) and (N)
8	Auction Price/Market Price Ratio	1.172	1.386	1.265	Line 6 / Line 7

* For Column (C): Col (Q) * Col (O) / Sum Col (O)

* For Column (D): Col (S) * Col (O) / Sum Col (O)

* For Columns (E): Col (U) * Col (O) / Sum Col (O)

** Line 5 is the average of the difference in PJM DA LMPs for the 12-month period before the auction date

The Dayton Power and Light Company
Case No. 16-0395-EL-SSO
Standard Offer Rate
Forecasted Standard Offer Rates (per kWh)

Exhibit ERB-2
Page 1 of 1

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)
<u>Line</u>	<u>Period</u>	<u>Residential</u>	<u>Residential Heat</u> <u>(Summer)</u>	<u>Residential Heat</u> <u>(Winter)</u>	<u>Secondary</u>	<u>Primary</u>	<u>Primary</u> <u>Substation</u>	<u>High Voltage</u>	<u>Private Outdoor</u> <u>Lighting</u>	<u>Street Lighting</u>	<u>Source</u>
1	June 2017 - May 2018	\$0.0563333	\$0.0563333	\$0.0477306	\$0.0563333	\$0.0548866	\$0.0543163	\$0.0543163	\$0.0563333	\$0.0563333	Exhibit ERB-2.1, Line 33
2											
3	June 2018 - May 2019 *	\$0.0557287	\$0.0557287	\$0.0472183	\$0.0557287	\$0.0542975	\$0.0537333	\$0.0537333	\$0.0557287	\$0.0557287	Exhibit ERB-2.2, Line 33
4											
5	June 2019 - May 2020 *	\$0.0549401	\$0.0549401	\$0.0465502	\$0.0549401	\$0.0535292	\$0.0529730	\$0.0529730	\$0.0549401	\$0.0549401	Exhibit ERB-2.3, Line 33
6											
7	June 2020 - May 2021 *	\$0.0558260	\$0.0558260	\$0.0473008	\$0.0558260	\$0.0543923	\$0.0538271	\$0.0538271	\$0.0558260	\$0.0558260	Exhibit ERB-2.4, Line 33
8											
9	June 2021 - May 2022 *	\$0.0580615	\$0.0580615	\$0.0491949	\$0.0580615	\$0.0565704	\$0.0559826	\$0.0559826	\$0.0580615	\$0.0580615	Exhibit ERB-2.5, Line 33
10											
11	June 2022 - May 2023 *	\$0.0591640	\$0.0591640	\$0.0501290	\$0.0591640	\$0.0576446	\$0.0570456	\$0.0570456	\$0.0591640	\$0.0591640	Exhibit ERB-2.6, Line 33
12											
13	June 2023 - December 2023 *	\$0.0580832	\$0.0580832	\$0.0492133	\$0.0580832	\$0.0565916	\$0.0560035	\$0.0560035	\$0.0580832	\$0.0580832	Exhibit ERB-2.7, Line 33

* Forecast only - subject to change upon subsequent annual filings

The Dayton Power and Light Company
Case No. 16-0395-EL-SSO
Standard Offer Rate
Calculation of the Standard Offer Rate
Period 1 (June 2017 - May 2018)

Exhibit ERB-2.1
Page 1 of 1

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)
Line	Description	Residential	Residential Heat (Summer)	Residential Heat (Winter)	Secondary	Primary	Primary Substation	High Voltage	Private Outdoor Lighting	Street Lighting	Total	Source
1	Distribution Loss Factor - Energy	1.04461	1.04461	1.04461	1.04461	1.01701	1.00613	1.00613	1.04461	1.04461		DP&L's 2015 Loss Study
2												
3	Forecasted SSO Billing Determinants (kWh)	1,746,525,226	295,103,722	720,413,890	658,346,741	54,024,707	10,488,754	427,266,960	15,109,952	1,313,510	3,928,593,462	2015 SSO sales
4												
5	Auction Price	\$52.17										Exhibit ERB-1, Page 2, Line 1
6	Reconciliation Component *	\$0.00										Exhibit ERB-2.12, Line 30 * 1,000
7	Cash Working Capital Component	\$0.11										Exhibit ERB-2.11, Line 18 * 1,000
8	Standard Offer Rate per MWh	\$52.28										Line 5 + Line 6 + Line 7
9												
10	Adjustment for Commercial Activity Tax (CAT)	1.0026										
11	Standard Offer Rate per MWh, by tariff class	\$54.76	\$54.76	\$54.76	\$54.76	\$53.31	\$52.74	\$52.74	\$54.76	\$54.76		Line 1 * Line 8 * Line 10
12												
13	Standard Offer Rate	\$0.0547558	\$0.0547558	\$0.0547558	\$0.0547558	\$0.0533091	\$0.0527388	\$0.0527388	\$0.0547558	\$0.0547558		Line 11 / 1000
14												
15	Standard Offer Rate Revenue	\$95,632,386	\$16,158,640	\$39,446,839	\$36,048,302	\$2,880,009	\$553,164	\$22,533,547	\$827,358	\$71,922	\$214,152,167	Line 3 * Line 13
16												
17												
18	Standard Offer Rate - Residential Heat (Winter)	\$0.0547558										Column (E), Line 13
19	Winter Discount Factor	12.83%										
20	Discount kWh	\$0.0070										Line 18 * Line 19
21	Standard Offer Rate - Residential Heat (Winter) - after discount	\$0.0477306										Line 18 - Line 20
22												
23	Residential Heat (Winter) Standard Offer Rate Revenue - after discount	\$34,385,787										(Column (E), Line 3) * Line 21
24												
25	Residential Heating Discount Amount	\$5,061,052										(Column (E), Line 15) - Line 23
26												
27	Total SSO kWh less Residential Heat (Winter) kWh	3,208,179,572										Line 5, Column (L) - Column (E)
28												
29	% of Total SSO kWh	54.440%	9.198%		20.521%	1.684%	0.327%	13.318%	0.471%	0.041%		Line 3 / Line 27
30												
31	Heating Discount Adder	\$2,755,224	\$465,540		\$1,038,572	\$85,226	\$16,546	\$674,033	\$23,837	\$2,072		Line 25 * Line 29
32												
33	Standard Offer Rate with Heating Discount	\$0.0563333	\$0.0563333	\$0.0477306	\$0.0563333	\$0.0548866	\$0.0543163	\$0.0543163	\$0.0563333	\$0.0563333		Line 35 / Line 3
34												
35	Standard Offer Rate Revenue with Heating Discoun	\$98,387,610	\$16,624,180	\$34,385,787	\$37,086,875	\$2,965,235	\$569,711	\$23,207,580	\$851,194	\$73,994	\$214,152,167	Line 15 + Line 31
36	Residential Heat (Summer) Rate	\$0.0563333										Column (D), Line 33
37	Residential Heat (Winter) Rate	\$0.0477306										Column (E), Line 33
38	Winter Discount Percentage	15.27%										(Line 36 - Line 37) / Line 36

* DP&L is not forecasting any over/under recovery under Reconciliation Component; illustration of component placement only

The Dayton Power and Light Company
Case No. 16-0395-EL-SSO
Standard Offer Rate
Calculation of the Standard Offer Rate
Period 2 (June 2018 - May 2019)

Exhibit ERB-2.2
Page 1 of 1

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)
Line	Description	Residential	Residential Heat (Summer)	Residential Heat (Winter)	Secondary	Primary	Primary Substation	High Voltage	Private Outdoor Lighting	Street Lighting	Total	Source
1	Distribution Loss Factor - Energy	1.04461	1.04461	1.04461	1.04461	1.01701	1.00613	1.00613	1.04461	1.04461		DP&L's 2015 Loss Study
2												
3	Forecasted SSO Billing Determinants (kWh)	1,746,525,226	295,103,722	720,413,890	658,346,741	54,024,707	10,488,754	427,266,960	15,109,952	1,313,510	3,928,593,462	2015 SSO sales
4												
5	Auction Price	\$51.61										Exhibit ERB-1, Page 2, Line 2
6	Reconciliation Component *	\$0.00										Exhibit ERB-2.12, Line 30 * 1,000
7	Cash Working Capital Component	\$0.11										Exhibit ERB-2.11, Line 18 * 1,000
8	Standard Offer Rate per MWh	\$51.72										Line 5 + Line 6 + Line 7
9												
10	Adjustment for Commercial Activity Tax (CAT)	1.0026										
11	Standard Offer Rate per MWh, by tariff class	\$54.17	\$54.17	\$54.17	\$54.17	\$52.74	\$52.17	\$52.17	\$54.17	\$54.17		Line 1 * Line 8 * Line 10
12												
13	Standard Offer Rate	\$0.0541681	\$0.0541681	\$0.0541681	\$0.0541681	\$0.0527369	\$0.0521727	\$0.0521727	\$0.0541681	\$0.0541681		Line 11 / 1000
14												
15	Standard Offer Rate Revenue	\$94,605,953	\$15,985,208	\$39,023,452	\$35,661,392	\$2,849,096	\$547,227	\$22,291,671	\$818,477	\$71,150	\$211,853,626	Line 3 * Line 13
16												
17												
18	Standard Offer Rate - Residential Heat (Winter)	\$0.0541681										Column (E), Line 13
19	Winter Discount Factor	12.83%										
20	Discount kWh	\$0.0069										Line 18 * Line 19
21	Standard Offer Rate - Residential Heat (Winter) - after discount	\$0.0472183										Line 18 - Line 20
22												
23	Residential Heat (Winter) Standard Offer Rate Revenue - after discount	\$34,016,719										(Column (E), Line 3) * Line 21
24												
25	Residential Heating Discount Amount	\$5,006,733										(Column (E), Line 15) - Line 23
26												
27	Total SSO kWh less Residential Heat (Winter) kWh	3,208,179,572										Line 5, Column (L) - Column (E)
28												
29	% of Total SSO kWh	54.440%	9.198%		20.521%	1.684%	0.327%	13.318%	0.471%	0.041%		Line 3 / Line 27
30												
31	Heating Discount Adder	\$2,725,653	\$460,543		\$1,027,426	\$84,312	\$16,369	\$666,799	\$23,581	\$2,050		Line 25 * Line 29
32												
33	Standard Offer Rate with Heating Discount	\$0.0557287	\$0.0557287	\$0.0472183	\$0.0557287	\$0.0542975	\$0.0537333	\$0.0537333	\$0.0557287	\$0.0557287		Line 35 / Line 3
34												
35	Standard Offer Rate Revenue with Heating Discoun	\$97,331,606	\$16,445,751	\$34,016,719	\$36,688,818	\$2,933,407	\$563,596	\$22,958,470	\$842,058	\$73,200	\$211,853,626	Line 15 + Line 31
36	Residential Heat (Summer) Rate	\$0.0557287										Column (D), Line 33
37	Residential Heat (Winter) Rate	\$0.0472183										Column (E), Line 33
38	Winter Discount Percentage	15.27%										(Line 36 - Line 37) / Line 36

* DP&L is not forecasting any over/under recovery under Reconciliation Component; illustration of component placement only

The Dayton Power and Light Company
Case No. 16-0395-EL-SSO
Standard Offer Rate
Calculation of the Standard Offer Rate
Period 3 (June 2019 - May 2020)

Exhibit ERB-2.3
Page 1 of 1

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)
Line	Description	Residential	Residential Heat (Summer)	Residential Heat (Winter)	Secondary	Primary	Primary Substation	High Voltage	Private Outdoor Lighting	Street Lighting	Total	Source
1	Distribution Loss Factor - Energy	1.04461	1.04461	1.04461	1.04461	1.01701	1.00613	1.00613	1.04461	1.04461		DP&L's 2015 Loss Study
2												
3	Forecasted SSO Billing Determinants (kWh)	1,746,525,226	295,103,722	720,413,890	658,346,741	54,024,707	10,488,754	427,266,960	15,109,952	1,313,510	3,928,593,462	2015 SSO sales
4												
5	Auction Price	\$50.88										Exhibit ERB-1, Page 2, Line 3
6	Reconciliation Component *	\$0.00										Exhibit ERB-2.12, Line 30 * 1,000
7	Cash Working Capital Component	\$0.11										Exhibit ERB-2.11, Line 18 * 1,000
8	Standard Offer Rate per MWh	\$50.99										Line 5 + Line 6 + Line 7
9												
10	Adjustment for Commercial Activity Tax (CAT)	1.0026										
11	Standard Offer Rate per MWh, by tariff class	\$53.40	\$53.40	\$53.40	\$53.40	\$51.99	\$51.43	\$51.43	\$53.40	\$53.40		Line 1 * Line 8 * Line 10
12												
13	Standard Offer Rate	\$0.0534016	\$0.0534016	\$0.0534016	\$0.0534016	\$0.0519907	\$0.0514345	\$0.0514345	\$0.0534016	\$0.0534016		Line 11 / 1000
14												
15	Standard Offer Rate Revenue	\$93,267,242	\$15,759,011	\$38,471,254	\$35,156,769	\$2,808,782	\$539,484	\$21,976,262	\$806,896	\$70,144	\$208,855,844	Line 3 * Line 13
16												
17												
18	Standard Offer Rate - Residential Heat (Winter)	\$0.0534016										Column (E), Line 13
19	Winter Discount Factor	12.83%										
20	Discount kWh	\$0.0069										Line 18 * Line 19
21	Standard Offer Rate - Residential Heat (Winter) - after discount	\$0.0465502										Line 18 - Line 20
22												
23	Residential Heat (Winter) Standard Offer Rate Revenue - after discount	\$33,535,411										(Column (E), Line 3) * Line 21
24												
25	Residential Heating Discount Amount	\$4,935,843										(Column (E), Line 15) - Line 23
26												
27	Total SSO kWh less Residential Heat (Winter) kWh	3,208,179,572										Line 5, Column (L) - Column (E)
28												
29	% of Total SSO kWh	54.440%	9.198%		20.521%	1.684%	0.327%	13.318%	0.471%	0.041%		Line 3 / Line 27
30												
31	Heating Discount Adder	\$2,687,061	\$454,023		\$1,012,879	\$83,118	\$16,137	\$657,358	\$23,247	\$2,021		Line 25 * Line 29
32												
33	Standard Offer Rate with Heating Discount	\$0.0549401	\$0.0549401	\$0.0465502	\$0.0549401	\$0.0535292	\$0.0529730	\$0.0529730	\$0.0549401	\$0.0549401		Line 35 / Line 3
34												
35	Standard Offer Rate Revenue with Heating Discoun	\$95,954,303	\$16,213,033	\$33,535,411	\$36,169,648	\$2,891,900	\$555,621	\$22,633,621	\$830,143	\$72,164	\$208,855,844	Line 15 + Line 31
36	Residential Heat (Summer) Rate	\$0.0549401										Column (D), Line 33
37	Residential Heat (Winter) Rate	\$0.0465502										Column (E), Line 33
38	Winter Discount Percentage	15.27%										(Line 36 - Line 37) / Line 36

* DP&L is not forecasting any over/under recovery under Reconciliation Component; illustration of component placement only

The Dayton Power and Light Company
Case No. 16-0395-EL-SSO
Standard Offer Rate
Calculation of the Standard Offer Rate
Period 4 (June 2020 - May 2021)

Exhibit ERB-2.4
Page 1 of 1

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)
Line	Description	Residential	Residential Heat (Summer)	Residential Heat (Winter)	Secondary	Primary	Primary Substation	High Voltage	Private Outdoor Lighting	Street Lighting	Total	Source
1	Distribution Loss Factor - Energy	1.04461	1.04461	1.04461	1.04461	1.01701	1.00613	1.00613	1.04461	1.04461		DP&L's 2015 Loss Study
2												
3	Forecasted SSO Billing Determinants (kWh)	1,746,525,226	295,103,722	720,413,890	658,346,741	54,024,707	10,488,754	427,266,960	15,109,952	1,313,510	3,928,593,462	2015 SSO sales
4												
5	Auction Price	\$51.70										Exhibit ERB-1, Page 2, Line 4
6	Reconciliation Component *	\$0.00										Exhibit ERB-2.12, Line 30 * 1,000
7	Cash Working Capital Component	\$0.11										Exhibit ERB-2.11, Line 18 * 1,000
8	Standard Offer Rate per MWh	\$51.81										Line 5 + Line 6 + Line 7
9												
10	Adjustment for Commercial Activity Tax (CAT)	1.0026										
11	Standard Offer Rate per MWh, by tariff class	\$54.26	\$54.26	\$54.26	\$54.26	\$52.83	\$52.26	\$52.26	\$54.26	\$54.26		Line 1 * Line 8 * Line 10
12												
13	Standard Offer Rate	\$0.0542627	\$0.0542627	\$0.0542627	\$0.0542627	\$0.0528290	\$0.0522638	\$0.0522638	\$0.0542627	\$0.0542627		Line 11 / 1000
14												
15	Standard Offer Rate Revenue	\$94,771,174	\$16,013,125	\$39,091,603	\$35,723,672	\$2,854,071	\$548,182	\$22,330,595	\$819,907	\$71,275	\$212,223,603	Line 3 * Line 13
16												
17												
18	Standard Offer Rate - Residential Heat (Winter)	\$0.0542627										Column (E), Line 13
19	Winter Discount Factor	12.83%										
20	Discount kWh	\$0.0070										Line 18 * Line 19
21	Standard Offer Rate - Residential Heat (Winter) - after discount	\$0.0473008										Line 18 - Line 20
22												
23	Residential Heat (Winter) Standard Offer Rate Revenue - after discount	\$34,076,153										(Column (E), Line 3) * Line 21
24												
25	Residential Heating Discount Amount	\$5,015,450										(Column (E), Line 15) - Line 23
26												
27	Total SSO kWh less Residential Heat (Winter) kWh	3,208,179,572										Line 5, Column (L) - Column (E)
28												
29	% of Total SSO kWh	54.440%	9.198%		20.521%	1.684%	0.327%	13.318%	0.471%	0.041%		Line 3 / Line 27
30												
31	Heating Discount Adder	\$2,730,399	\$461,345		\$1,029,215	\$84,459	\$16,397	\$667,960	\$23,622	\$2,053		Line 25 * Line 29
32												
33	Standard Offer Rate with Heating Discount	\$0.0558260	\$0.0558260	\$0.0473008	\$0.0558260	\$0.0543923	\$0.0538271	\$0.0538271	\$0.0558260	\$0.0558260		Line 35 / Line 3
34												
35	Standard Offer Rate Revenue with Heating Discoun	\$97,501,573	\$16,474,470	\$34,076,153	\$36,752,886	\$2,938,530	\$564,580	\$22,998,555	\$843,529	\$73,328	\$212,223,603	Line 15 + Line 31
36	Residential Heat (Summer) Rate	\$0.0558260										Column (D), Line 33
37	Residential Heat (Winter) Rate	\$0.0473008										Column (E), Line 33
38	Winter Discount Percentage	15.27%										(Line 36 - Line 37) / Line 36

* DP&L is not forecasting any over/under recovery under Reconciliation Component; illustration of component placement only

The Dayton Power and Light Company
Case No. 16-0395-EL-SSO
Standard Offer Rate
Calculation of the Standard Offer Rate
Period 5 (June 2021 - May 2022)

Exhibit ERB-2.5
Page 1 of 1

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)
Line	Description	Residential	Residential Heat (Summer)	Residential Heat (Winter)	Secondary	Primary	Primary Substation	High Voltage	Private Outdoor Lighting	Street Lighting	Total	Source
1	Distribution Loss Factor - Energy	1.04461	1.04461	1.04461	1.04461	1.01701	1.00613	1.00613	1.04461	1.04461		DP&L's 2015 Loss Study
2												
3	Forecasted SSO Billing Determinants (kWh)	1,746,525,226	295,103,722	720,413,890	658,346,741	54,024,707	10,488,754	427,266,960	15,109,952	1,313,510	3,928,593,462	2015 SSO sales
4												
5	Auction Price	\$53.77										Exhibit ERB-1, Page 2, Line 5
6	Reconciliation Component *	\$0.00										Exhibit ERB-2.12, Line 30 * 1,000
7	<u>Cash Working Capital Component</u>	<u>\$0.12</u>										Exhibit ERB-2.11, Line 18 * 1,000
8	Standard Offer Rate per MWh	\$53.89										Line 5 + Line 6 + Line 7
9												
10	<u>Adjustment for Commercial Activity Tax (CAT)</u>	<u>1.0026</u>										
11	Standard Offer Rate per MWh, by tariff class	\$56.44	\$56.44	\$56.44	\$56.44	\$54.94	\$54.36	\$54.36	\$56.44	\$56.44		Line 1 * Line 8 * Line 10
12												
13	Standard Offer Rate	\$0.0564356	\$0.0564356	\$0.0564356	\$0.0564356	\$0.0549445	\$0.0543567	\$0.0543567	\$0.0564356	\$0.0564356		Line 11 / 1000
14												
15	Standard Offer Rate Revenue	\$98,566,199	\$16,654,356	\$40,656,990	\$37,154,193	\$2,968,361	\$570,134	\$23,224,822	\$852,739	\$74,129	\$220,721,923	Line 3 * Line 13
16												
17												
18	Standard Offer Rate - Residential Heat (Winter)	\$0.0564356										Column (E), Line 13
19	Winter Discount Factor	12.83%										
20	Discount kWh	\$0.0072										Line 18 * Line 19
21	Standard Offer Rate - Residential Heat (Winter) - after discount	\$0.0491949										Line 18 - Line 20
22												
23	Residential Heat (Winter) Standard Offer Rate Revenue - after discount	\$35,440,689										(Column (E), Line 3) * Line 21
24												
25	Residential Heating Discount Amount	\$5,216,301										(Column (E), Line 15) - Line 23
26												
27	Total SSO kWh less Residential Heat (Winter) kWh	3,208,179,572										Line 5, Column (L) - Column (E)
28												
29	% of Total SSO kWh	54.440%	9.198%		20.521%	1.684%	0.327%	13.318%	0.471%	0.041%		Line 3 / Line 27
30												
31	Heating Discount Adder	\$2,839,742	\$479,820		\$1,070,431	\$87,841	\$17,054	\$694,710	\$24,568	\$2,136		Line 25 * Line 29
32												
33	Standard Offer Rate with Heating Discount	\$0.0580615	\$0.0580615	\$0.0491949	\$0.0580615	\$0.0565704	\$0.0559826	\$0.0559826	\$0.0580615	\$0.0580615		Line 35 / Line 3
34												
35	Standard Offer Rate Revenue with Heating Discount	\$101,405,941	\$17,134,176	\$35,440,689	\$38,224,624	\$3,056,201	\$587,188	\$23,919,532	\$877,307	\$76,264	\$220,721,923	Line 15 + Line 31
36	Residential Heat (Summer) Rate	\$0.0580615										Column (D), Line 33
37	Residential Heat (Winter) Rate	\$0.0491949										Column (E), Line 33
38	Winter Discount Percentage	15.27%										(Line 36 - Line 37) / Line 36

* DP&L is not forecasting any over/under recovery under Reconciliation Component; illustration of component placement only

The Dayton Power and Light Company
Case No. 16-0395-EL-SSO
Standard Offer Rate
Calculation of the Standard Offer Rate
Period 6 (June 2022 - May 2023)

Exhibit ERB-2.6
Page 1 of 1

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)
Line	Description	Residential	Residential Heat (Summer)	Residential Heat (Winter)	Secondary	Primary	Primary Substation	High Voltage	Private Outdoor Lighting	Street Lighting	Total	Source
1	Distribution Loss Factor - Energy	1.04461	1.04461	1.04461	1.04461	1.01701	1.00613	1.00613	1.04461	1.04461		DP&L's 2015 Loss Study
2												
3	Forecasted SSO Billing Determinants (kWh)	1,746,525,226	295,103,722	720,413,890	658,346,741	54,024,707	10,488,754	427,266,960	15,109,952	1,313,510	3,928,593,462	2015 SSO sales
4												
5	Auction Price	\$54.79										Exhibit ERB-1, Page 2, Line 6
6	Reconciliation Component *	\$0.00										Exhibit ERB-2.12, Line 30 * 1,000
7	Cash Working Capital Component	\$0.12										Exhibit ERB-2.11, Line 18 * 1,000
8	Standard Offer Rate per MWh	\$54.91										Line 5 + Line 6 + Line 7
9												
10	Adjustment for Commercial Activity Tax (CAT)	1.0026										
11	Standard Offer Rate per MWh, by tariff class	\$57.51	\$57.51	\$57.51	\$57.51	\$55.99	\$55.39	\$55.39	\$57.51	\$57.51		Line 1 * Line 8 * Line 10
12												
13	Standard Offer Rate	\$0.0575072	\$0.0575072	\$0.0575072	\$0.0575072	\$0.0559878	\$0.0553888	\$0.0553888	\$0.0575072	\$0.0575072		Line 11 / 1000
14												
15	Standard Offer Rate Revenue	\$100,437,775	\$16,970,589	\$41,428,986	\$37,859,678	\$3,024,724	\$580,959	\$23,665,804	\$868,931	\$75,536	\$224,912,983	Line 3 * Line 13
16												
17												
18	Standard Offer Rate - Residential Heat (Winter)	\$0.0575072										Column (E), Line 13
19	Winter Discount Factor	12.83%										
20	Discount kWh	\$0.0074										Line 18 * Line 19
21	Standard Offer Rate - Residential Heat (Winter) - after discount	\$0.0501290										Line 18 - Line 20
22												
23	Residential Heat (Winter) Standard Offer Rate Revenue - after discount	\$36,113,628										(Column (E), Line 3) * Line 21
24												
25	Residential Heating Discount Amount	\$5,315,358										(Column (E), Line 15) - Line 23
26												
27	Total SSO kWh less Residential Heat (Winter) kWh	3,208,179,572										Line 5, Column (L) - Column (E)
28												
29	% of Total SSO kWh	54.440%	9.198%		20.521%	1.684%	0.327%	13.318%	0.471%	0.041%		Line 3 / Line 27
30												
31	Heating Discount Adder	\$2,893,668	\$488,932		\$1,090,758	\$89,509	\$17,378	\$707,902	\$25,034	\$2,176		Line 25 * Line 29
32												
33	Standard Offer Rate with Heating Discount	\$0.0591640	\$0.0591640	\$0.0501290	\$0.0591640	\$0.0576446	\$0.0570456	\$0.0570456	\$0.0591640	\$0.0591640		Line 35 / Line 3
34												
35	Standard Offer Rate Revenue with Heating Discoun	\$103,331,443	\$17,459,521	\$36,113,628	\$38,950,436	\$3,114,233	\$598,337	\$24,373,706	\$893,965	\$77,713	\$224,912,983	Line 15 + Line 31
36	Residential Heat (Summer) Rate	\$0.0591640										Column (D), Line 33
37	Residential Heat (Winter) Rate	\$0.0501290										Column (E), Line 33
38	Winter Discount Percentage	15.27%										(Line 36 - Line 37) / Line 36

* DP&L is not forecasting any over/under recovery under Reconciliation Component; illustration of component placement only

The Dayton Power and Light Company
Case No. 16-0395-EL-SSO
Standard Offer Rate
Calculation of the Standard Offer Rate
Period 7 (June 2023 - December 2023)

Exhibit ERB-2.7
Page 1 of 1

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)
Line	Description	Residential	Residential Heat (Summer)	Residential Heat (Winter)	Secondary	Primary	Primary Substation	High Voltage	Private Outdoor Lighting	Street Lighting	Total	Source
1	Distribution Loss Factor - Energy	1.04461	1.04461	1.04461	1.04461	1.01701	1.00613	1.00613	1.04461	1.04461		DP&L's 2015 Loss Study
2												
3	Forecasted SSO Billing Determinants (kWh)	1,018,806,382	172,143,838	420,241,436	384,035,599	31,514,412	6,118,440	249,239,060	8,814,139	766,214	2,291,679,520	2015 SSO sales
4												
5	Auction Price	\$53.70										Exhibit ERB-1, Page 2, Line 7
6	Reconciliation Component *	\$0.00										Exhibit ERB-2.12, Line 30 * 1,000
7	Cash Working Capital Component	\$0.21										Exhibit ERB-2.11, Line 18 * 1,000
8	Standard Offer Rate per MWh	\$53.91										Line 5 + Line 6 + Line 7
9												
10	Adjustment for Commercial Activity Tax (CAT)	1.0026										
11	Standard Offer Rate per MWh, by tariff class	\$56.46	\$56.46	\$56.46	\$56.46	\$54.97	\$54.38	\$54.38	\$56.46	\$56.46		Line 1 * Line 8 * Line 10
12												
13	Standard Offer Rate	\$0.0564567	\$0.0564567	\$0.0564567	\$0.0564567	\$0.0549651	\$0.0543770	\$0.0543770	\$0.0564567	\$0.0564567		Line 11 / 1000
14												
15	Standard Offer Rate Revenue	\$57,518,446	\$9,718,673	\$23,725,445	\$21,681,383	\$1,732,193	\$332,702	\$13,552,872	\$497,617	\$43,258	\$128,802,589	Line 3 * Line 13
16												
17												
18	Standard Offer Rate - Residential Heat (Winter)	\$0.0564567										Column (E), Line 13
19	Winter Discount Factor	12.83%										
20	Discount kWh	\$0.0072										Line 18 * Line 19
21	Standard Offer Rate - Residential Heat (Winter) - after discount	\$0.0492133										Line 18 - Line 20
22												
23	Residential Heat (Winter) Standard Offer Rate Revenue - after discount	\$20,681,468										(Column (E), Line 3) * Line 21
24												
25	Residential Heating Discount Amount	\$3,043,977										(Column (E), Line 15) - Line 23
26												
27	Total SSO kWh less Residential Heat (Winter) kWh	1,871,438,084										Line 5, Column (L) - Column (E)
28												
29	% of Total SSO kWh	54.440%	9.198%		20.521%	1.684%	0.327%	13.318%	0.471%	0.041%		Line 3 / Line 27
30												
31	Heating Discount Adder	\$1,657,134	\$280,000		\$624,651	\$51,260	\$9,952	\$405,398	\$14,337	\$1,246		Line 25 * Line 29
32												
33	Standard Offer Rate with Heating Discount	\$0.0580832	\$0.0580832	\$0.0492133	\$0.0580832	\$0.0565916	\$0.0560035	\$0.0560035	\$0.0580832	\$0.0580832		Line 35 / Line 3
34												
35	Standard Offer Rate Revenue with Heating Discoun	\$59,175,580	\$9,998,673	\$20,681,468	\$22,306,033	\$1,783,452	\$342,654	\$13,958,271	\$511,954	\$44,504	\$128,802,589	Line 15 + Line 31
36	Residential Heat (Summer) Rate	\$0.0580832										Column (D), Line 33
37	Residential Heat (Winter) Rate	\$0.0492133										Column (E), Line 33
38	Winter Discount Percentage	15.27%										(Line 36 - Line 37) / Line 36

* DP&L is not forecasting any over/under recovery under Reconciliation Component; illustration of component placement only

The Dayton Power and Light Company
Case No. 16-0395-EL-SSO
Standard Offer Rate
Calculation of the Standard Offer Rate

Exhibit ERB-2.8
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NO LONGER APPLICABLE

The Dayton Power and Light Company
Case No. 16-0395-EL-SSO
Standard Offer Rate
Calculation of the Standard Offer Rate

Exhibit ERB-2.9
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NO LONGER APPLICABLE

The Dayton Power and Light Company
Case No. 16-0395-EL-SSO
Standard Offer Rate
Calculation of the Standard Offer Rate

Exhibit ERB-2.10
Page 1 of 1

NO LONGER APPLICABLE

The Dayton Power and Light Company
Case No. 16-0395-EL-SSO
Standard Offer Rate
Cash Working Capital (CWC)

Exhibit ERB-2.11

Page 1 of 1

<u>Line</u>	<u>Description</u>	<u>June 2017 to</u> <u>May 2018</u>	<u>June 2018 to</u> <u>May 2019 *</u>	<u>June 2019 to</u> <u>May 2020 *</u>	<u>June 2020 to</u> <u>May 2021 *</u>	<u>June 2021 to</u> <u>May 2022 *</u>	<u>June 2022 to</u> <u>May 2023 *</u>	<u>June 2023 to</u> <u>December 2023 *</u>	<u>Source</u>
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(M)
1	Estimated Generation Supply Cost	\$ 214,195,141	\$ 211,931,471	\$ 208,980,592	\$ 212,613,568	\$ 221,644,927	\$ 227,766,467	\$ 230,934,426	Exhibits ERB-2.1 to ERB-2.7, Column L, Line 35
2									
3	Estimated Average Daily Cost	\$ 586,836	\$ 580,634	\$ 570,985.22	\$ 582,503	\$ 607,246	\$ 624,018	\$ 630,968.38	Line 1 / number of days in the period
4									
5	Revenue Collection Lag (days)	42.7	42.7	42.7	42.7	42.7	42.7	42.7	PUCO Case No. 15-1830-EL-AIR, WP B-5.1a, Line 1
6	Expense Leads (days)	33.2	33.2	33.2	33.2	33.2	33.2	33.2	PUCO Case No. 15-1830-EL-AIR
7									
8	Net Lag (days)	9.5	9.5	9.5	9.5	9.5	9.5	9.5	Line 5 - Line 6
9									
10	CWC	\$ 5,574,942	\$ 5,516,025	\$ 5,424,360	\$ 5,533,778	\$ 5,768,841	\$ 5,928,168	\$ 5,994,200	Line 3 * Line 8
11									
12	Cost of Capital	7.86%	7.86%	7.86%	7.86%	7.86%	7.86%	7.86%	PUCO Case No. 15-1830-EL-AIR, Schedule D-1a, Line 7
13									
14	Revenue Requirement for CWC	\$ 438,190	\$ 433,560	\$ 426,355	\$ 434,955	\$ 453,431	\$ 465,954	\$ 471,144	Line 10 * Line 12
15									
16	Estimated Sales (kWh)	3,928,593,462	3,928,593,462	3,928,593,462	3,928,593,462	3,928,593,462	3,928,593,462	2,291,679,520	Exhibits ERB-2.1 to ERB-2.7, Column L, Line 5
17									
18	Rate for CWC	\$ 0.0001115	\$ 0.0001104	\$ 0.0001085	\$ 0.0001107	\$ 0.0001154	\$ 0.0001186	\$ 0.0002056	Line 14 / Line 16

* Forecast only - subject to change upon subsequent annual filings

The Dayton Power and Light Company
Case No. 16-0395-EL-SSO
Standard Offer Rate
Standard Offer Rate Reconciliation
**** For Illustration Purposes Only ****

Exhibit ERB-2.12

Page 1 of 1

<u>Line</u> (A)	<u>Description</u> (B)	<u>Auction Supply</u> <u>Charges</u> (C)	<u>Auction Cost</u> <u>Charges</u> (D)	<u>Standard Offer</u> <u>Rate Revenues</u> (E)	<u>(Over)/Under</u> (F)	<u>YTD</u> ¹ (G)	<u>Source</u> (H)
1	June 2016	\$11,849,539	\$51,634	(\$12,543,710)	(\$642,537)	(\$642,537)	Internal Data
2	July 2016	\$12,619,668	\$48,523	(\$12,504,330)	\$163,861	(\$478,676)	Internal Data
3	August 2016	\$12,951,043	\$51,957	(\$11,692,184)	\$1,310,816	\$832,140	Internal Data
4	September 2016	\$12,219,362	\$51,417	(\$12,858,405)	(\$587,626)	\$244,514	Internal Data
5	October 2016	\$11,588,093	\$48,300	(\$12,402,062)	(\$765,669)	(\$521,155)	Internal Data
6	November 2016	\$12,632,855	\$49,317	(\$12,910,270)	(\$228,098)	(\$749,253)	Internal Data
7	December 2016	\$12,456,448	\$50,241	(\$11,464,949)	\$1,041,740	\$292,487	Internal Data
8	January 2017	\$12,075,091	\$48,573	(\$12,185,408)	(\$61,744)	\$230,743	Internal Data
9	February 2017	\$11,359,263	\$51,736	(\$12,221,922)	(\$810,923)	(\$580,180)	Internal Data
10	March 2017	\$12,827,049	\$48,343	(\$11,554,462)	\$1,320,930	\$740,750	Internal Data
11	April 2017	\$11,924,985	\$51,904	(\$11,742,975)	\$233,914	\$974,664	Internal Data
12	May 2017	\$11,798,293	\$50,067	(\$12,459,929)	(\$611,569)	\$363,095	Internal Data
13	June 2017	\$12,000,000	\$50,125	(\$12,050,125)	\$0	\$363,095	Corporate Forecast
14	July 2017	\$12,000,000	\$50,125	(\$12,050,125)	\$0	\$363,095	Corporate Forecast
15	August 2017	\$12,000,000	\$50,125	(\$12,050,125)	\$0	\$363,095	Corporate Forecast
16	September 2017	\$12,000,000	\$50,125	(\$12,050,125)	\$0	\$363,095	Corporate Forecast
17	October 2017	\$12,000,000	\$50,125	(\$12,050,125)	\$0	\$363,095	Corporate Forecast
18	November 2017	\$12,000,000	\$50,125	(\$12,050,125)	\$0	\$363,095	Corporate Forecast
19	December 2017	\$12,000,000	\$50,125	(\$12,050,125)	\$0	\$363,095	Corporate Forecast
20	January 2018	\$12,000,000	\$50,125	(\$12,050,125)	\$0	\$363,095	Corporate Forecast
21	February 2018	\$12,000,000	\$50,125	(\$12,050,125)	\$0	\$363,095	Corporate Forecast
22	March 2018	\$12,000,000	\$50,125	(\$12,050,125)	\$0	\$363,095	Corporate Forecast
23	April 2018	\$12,000,000	\$50,125	(\$12,050,125)	\$0	\$363,095	Corporate Forecast
24	May 2018	\$12,000,000	\$50,125	(\$12,050,125)	\$0	\$363,095	Corporate Forecast
25							
26	Total (Over)/Under recovery					\$363,095	Line 24
27							
28	Forecasted SSO Sales (kWh)					3,928,593,462	Exhibit ERB-2.1, Column L, Line 3
29							
30	Forecasted Reconciliation Rate					\$0.0000924	Line 26 / Line 28

¹ YTD = current month Total + previous month YTD total

The Dayton Power and Light Company
Case No. 16-0395-EL-SSO
Standard Offer Rate
Residential Heating (Winter) Discount Calculation

Exhibit ERB-2.13

Page 1 of 1

Line	Tariff Class	Description	2015 kWh SSO Sales	CB Rate (as of 1/1/2016)	Revenue	Average Rate	Winter Discount %
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
					Column D * Column E	Column F / Column D	(Column G, Line 4 - Column G, Line 10) / Column G, Line 4
1	Residential						
2		0-750 kWh	1,204,377,083	\$ 0.0670061	\$ 80,700,611		
3		> 750 kWh	542,148,143	\$ 0.0565484	\$ 30,657,610		
4		Total	1,746,525,226		\$ 111,358,221	\$ 0.0637599	
5							
6	Residential Heating						
7		0-750 kWh	497,902,409	\$ 0.0670061	\$ 33,362,499		
8		> 750 kWh (S)	99,034,160	\$ 0.0565484	\$ 5,600,223		
9		> 750 kWh (W)	418,581,043	\$ 0.0379838	\$ 15,899,299		
10		Total	1,015,517,612		\$ 54,862,021	\$ 0.0540237	
11							
12					Winter discount %		15.27%

The Dayton Power and Light Company
Case No. 16-0395-EL-SSO
Standard Offer Rate
Calculation of Private Outdoor Lighting Charges

Exhibit ERB-2.14

Page 1 of 1

Line	Description	kWh/Fixture	Standard Offer Rate	Standard Offer Rate Charge/Fixture/Month
			\$/kWh	\$/Fixture/Month
(A)	(B)	(C)	(D)	(E)
				(E) = (C) * (D)
1	Private Outdoor Lighting			
2	9,500 Lumens High Pressure Sodium	39	\$ 0.0563333	\$ 2.1969987
3	28,000 Lumens High Pressure Sodium	96	\$ 0.0563333	\$ 5.4079968
4	7,000 Lumens Mercury	75	\$ 0.0563333	\$ 4.2249975
5	21,000 Lumens Mercury	154	\$ 0.0563333	\$ 8.6753282
6	2,500 Lumens Incandescent	64	\$ 0.0563333	\$ 3.6053312
7	7,000 Lumens Fluorescent	66	\$ 0.0563333	\$ 3.7179978
8	4,000 Lumens PT Mercury	43	\$ 0.0563333	\$ 2.4223319

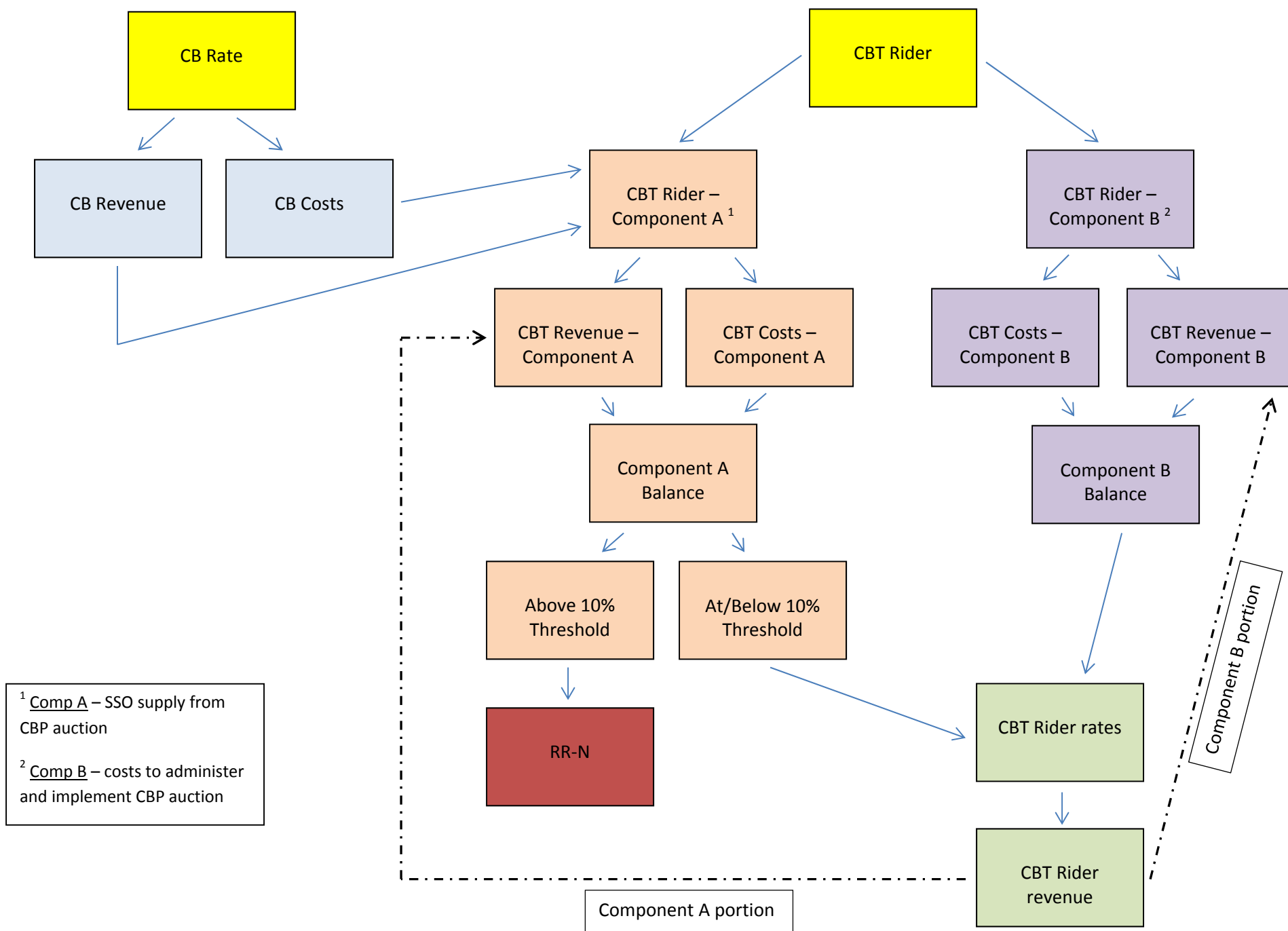
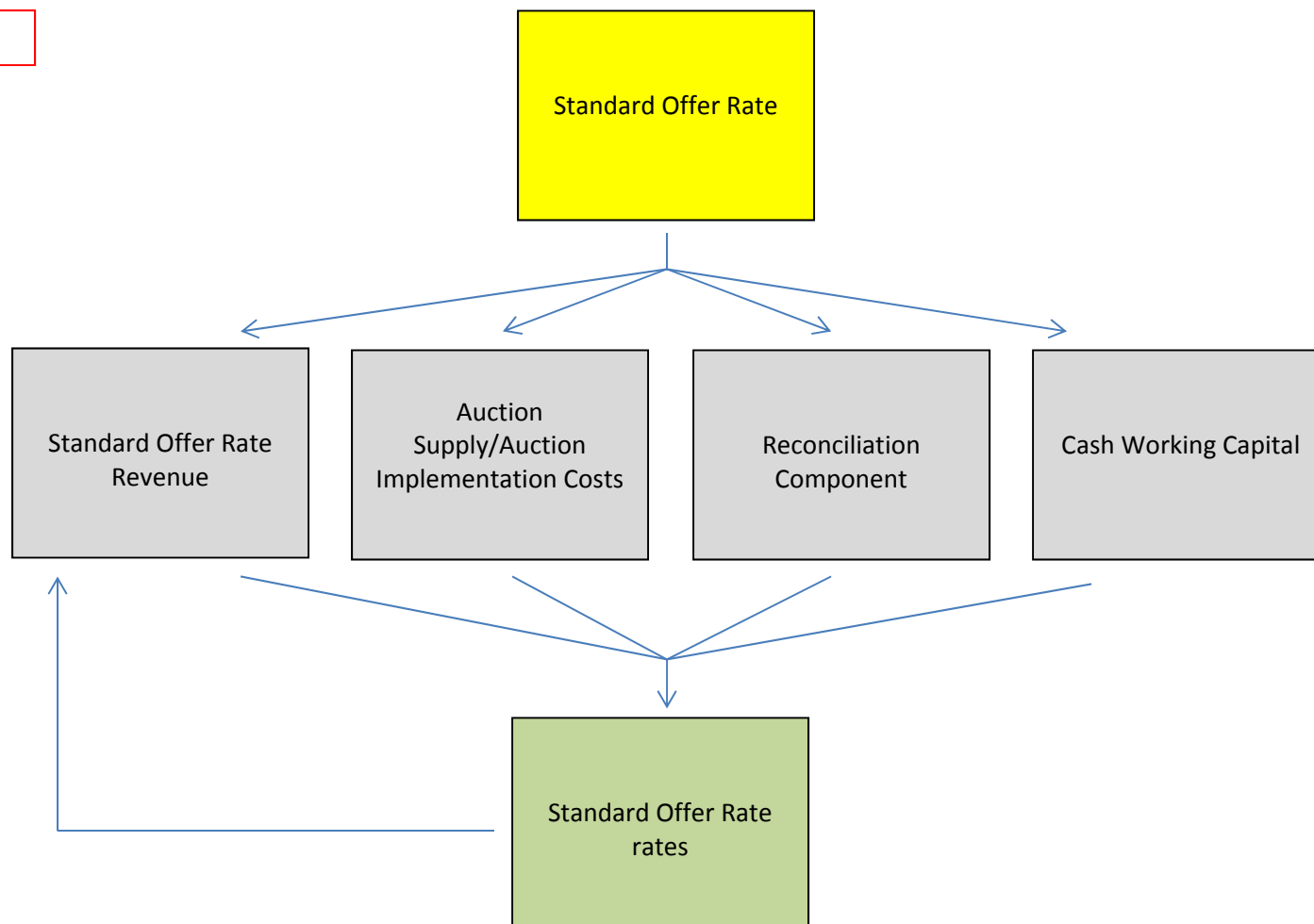


Exhibit ERB-4



CERTIFICATE OF SERVICE

I certify that a copy of the foregoing testimony has been served via electronic mail

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Case No(s). 16-0395-EL-SSO, 16-0396-EL-ATA, 16-0397-EL-AAM

Summary: Testimony Direct Testimony of Eric R. Brown - Public Version - October 11, 2016
electronically filed by Mr. Charles J. Faruki on behalf of The Dayton Power and Light
Company