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 DAVID J. CRUSEY

OCTOBER 11, 2016

PUBLIC VERSION

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

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ON BEHALF OF THE DAYTON POWER AND LIGHT COMPANY

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1	I.	INTRODUCTION	ON

- 2 Q. Please state your name, employer and business address.
- 3 A. My name is David J. Crusey. My business address is 1065 Woodman Drive, Dayton,
- 4 Ohio 45432.
- 5 Q. By whom and in what capacity are you employed?
- 6 A. I am employed by AES US Services, LLC, which is the service company that serves The
- Dayton Power and Light Company ("DP&L" or the "Company").
- 8 Q. How long have you been in your present position?
- 9 A. I have been employed at The Dayton Power and Light Company ("DP&L" or "The
- 10 Company") and AES for over 27 years. I have been in my current position since AES
- acquired DP&L in late 2011, though my responsibilities have changed during this period.
- Prior to the AES acquisition of DP&L in late 2011, I held the position of Vice President,
- 13 Commercial Operations for DP&L.
- 14 Q. What are your responsibilities in your current position?
- 15 A. In my current position I report to the Vice President, Commercial Operations of the AES
- US SBU. I am currently responsible for the Company's generation scheduling and
- dispatch function. I am also responsible for the commercial functions related to the
- Company's generating assets associated with the PJM Regional Transmission
- Organization ("RTO"). I am also involved in other commercial-related issues for the
- 20 AES US SBU.
- 21 Q. Will you describe briefly your educational and business background?

- 1 A. Yes. I earned a Bachelor of Science degree in Electrical Engineering and a Master of 2 Business Administration degree, both from the University of Dayton. I am a CFA 3 charterholder and I have also earned the Financial Risk Manager (FRM) and Energy Risk 4 Professional (ERP) professional designations from the Global Association of Risk 5 Professionals. Currently, I am also an adjunct professor at the University of Dayton in 6 the Economics and Finance Department. Prior to the 2011 acquisition of DP&L by AES. 7 I was the Vice President of DP&L's Commercial Operations organization and was 8 responsible for managing the Company's overall energy commodity position, including 9 all coal, natural gas, energy, capacity, emission allowances and renewable energy 10 certificates. I was responsible for the Company's coal and related transportation 11 activities, and for the Company's PJM energy and capacity markets and generation 12 scheduling and dispatch area. I have worked extensively with DP&L's power plant co-13 owners on fuel and other commercial-related issues. Prior to my time as Vice President, 14 Commercial Operations, I held various management, energy trading and marketing, 15 regulatory and other technical positions at DP&L. I have been actively involved in 16 energy commodity trading and energy marketing throughout my career. In summary, 17 since 1994, my duties and responsibilities at DP&L and AES have been directly involved 18 with commercial wholesale energy and commodity-related issues. Prior to 1994 and 19 when I started at the Company in 1989, I worked in the Company's Engineering, 20 Technical Services, Major Accounts and Regulatory departments.
- Q. Have you previously provided testimony before the Public Utilities Commission of 22 Ohio ("PUCO" or the "Commission") or the Federal Energy Regulatory 23 Commission ("FERC")?

21

1	A.	Yes. I have participated in a FERC	hearing related to a dispute with one of DP&L's
2		municipal customers. I have provide	ed written testimony to the Commission in DP&L's
3		2011 Fuel Audit case, 11-5730-EL-	FAC. I also provided written testimony and testified
4		at hearing before the Commission is	n DP&L's 2012 Fuel Audit case, 12-2881-EL-FAC.
5	Q.	What is the purpose of this testim	ony?
6	A.	The purpose of this testimony is	so support and explain DP&L's internal forecasts of
7		commodity and capacity prices and	to support the generation dispatch amounts used by
8		Company Witness Jackson.	
9	II.	DP&L FORECASTS	
10	Q.	Can you identify DP&L's forecas	s of commodity and capacity prices?
11	A.	Yes. DP&L's commodity and capac	city price forecasts are summarized below.
		DP&L Price Fo	ecasts
		Commodity Unit 2017	<u>2018</u> <u>2019</u> <u>2020</u> <u>2021</u> <u>2022</u> <u>2023</u>
		Power ATC AD Hub S/MWh	
	11800	00 ILB Coal (\$/Ton FOB Barge) \$/Ton	
		Natural Gas Henry Hub \$/MMBtu	
12		Capacity RPM S/MW-Day \$	
13	Q.	Can you describe how DP&L pre	pared its forecasts?
14	A.	Yes. DP&L's approach to prepar	ing its energy commodity price forecasts is
15			
16			Energy commodities markets have
17		different degrees of liquidity, mark	et depth and price transparency for different periods.
18		To obtain the , DP&	L used a combination of publicly

1		information, published commodity indices, and information obtained	ı unougn
2		recent transactions and communications with commodity brokers. I	For most
3		commodities, we were able to obtain that was su	ıfficiently
4		liquid, transparent, and with enough market depth for	
5		For the	
6			
7			
8			
9			
10			
11	Q.	Was this process used for all commodities, and if so, please explain.	
12	A.	Yes. The Company's approach used	and when
12 13	A.	Yes. The Company's approach used they were, in our view, an accurate reflection of the price that could be transact	
	A.		ted in the
13	A.	they were, in our view, an accurate reflection of the price that could be transac	ted in the
13 14	A.	they were, in our view, an accurate reflection of the price that could be transact market for each respective commodity with sufficient liquidity and market	ted in the
13 14 15	A.	they were, in our view, an accurate reflection of the price that could be transact market for each respective commodity with sufficient liquidity and market volume. I discussed above how the Company used	ted in the
13 14 15 16	A.	they were, in our view, an accurate reflection of the price that could be transact market for each respective commodity with sufficient liquidity and market volume. I discussed above how the Company used	ted in the
1314151617	A.	they were, in our view, an accurate reflection of the price that could be transact market for each respective commodity with sufficient liquidity and market volume. I discussed above how the Company used	ted in the
13 14 15 16 17	A.	they were, in our view, an accurate reflection of the price that could be transact market for each respective commodity with sufficient liquidity and market volume. I discussed above how the Company used	ted in the
13 14 15 16 17 18	A .	they were, in our view, an accurate reflection of the price that could be transact market for each respective commodity with sufficient liquidity and market volume. I discussed above how the Company used	ted in the
13 14 15 16 17 18 19 20	A.	they were, in our view, an accurate reflection of the price that could be transact market for each respective commodity with sufficient liquidity and market volume. I discussed above how the Company used	ted in the

Is the method that DP&L used to prepare those forecasts reasonable?

23

Q.

1	A.	Yes, this method is reasonable for multiple reasons. First, , th
2		Company which by definition are the prices that can be transacted in
3		and therefore reflect the value of the commodity. Second, the Company used
4		
5		Third, as I will explain later, the Company's power price forecast used the
6		
7		Fourth, of the forecast were based upon o
8		derived The Company's entire seven-year
9		forecast is The Company's
10		forecast is not solely the Company's independent view or opinion of forward market
11		prices.
12	Q.	Can you describe DP&L's projections of natural gas prices?
13	A.	Yes. As I stated earlier,
14		
15		
16		For example, the open interest, which is the
17		total number of contracts that are open or outstanding for trading, on the Intercontinental
18		Exchange ("ICE") trading platform
19		
20		
21	Q.	Can you describe DP&L's projections of power prices?
22	A.	Yes. For the , the Company at the AEP-Dayton
23		Hub, also referred to as the AD Hub in its forecast. for power are

David J. Crusey Page 6 of 13

1	sufficiently liquid, and have a low bid-ask spread for the	, so using them
2	is appropriate. The method that the Company	
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3	Q.	Can you describe DP&L's projections of coal prices?
4	A.	Yes. Similar to the other commodities, the Company for coal for the
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11		
12		
13		
14		• The of coal for the
15		• The estimated production cost of coal suppliers based on publicly available
16		information;
17		Considerations that coal suppliers will have to compete with other new and
18		additional sources of fuel over
19		• Considerations that coal suppliers' cost of production sets a long-term "floor" on
20		the price at which they will sell in the market.
21		The last point is critical in longer-term coal prices. The coal supplier industry has

demonstrated price discipline over the long-term by not selling coal at or below their cost

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1		of production. for coal are subject to short-term decreases below cost of
2		production due to temporary over-supply, lack of short-term demand or supplier-specific
3		inventory issues. Over the long-term, however, coal suppliers have showed tremendous
4		discipline in shutting down mines that are not profitable. This fact is important when
5		forecasting prices because this discipline puts an
6		
7	Q.	Can you describe DP&L's projections of PJM capacity prices?
8	A.	Yes. For each delivery year, PJM's RPM capacity construct holds an auction each May
9		for three years into the future. A delivery year starts June 1st and ends May 31st of the
10		following year. The actual results and prices of the PJM RPM capacity auctions that
11		have already been held were used for the 2017/18, 2018/19, and 2019/20 delivery years.
12		Therefore, the Company used for the of
13		the capacity forecast period. The Company forecasted the capacity values for the
14		remaining using an
15		
16		
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19		
20		
21		
22	Q.	Can you describe DP&L's projections of emission allowance prices?

1	A.	Yes. The Company used
2		
3	Q.	Are DP&L's price forecasts reasonable?
4	A.	Yes, DP&L's price forecasts are reasonable for several reasons. First and foremost,
5		DP&L uses the
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12		
13		
14	Q.	Are DP&L's projections consistent with other market forecasts?
15	A.	Yes, below is a summary table that compares DP&L's price forecast to the price forecast
16		of PIRA Energy Group, ESAI Energy LLC, and IHS Markit, all of which are well known
17		energy industry consultants.

ATC AD Hub Power (\$/MWh)	2017	2018	2019	2020	2021	2022	2023
PIRA - 5/26/16	\$29.40	\$30.34	\$34.28	\$34.04	\$33.64	\$33.53	\$33.46
ESAI - 6/30/16	\$29.12	\$32.46	\$32.45	\$32.75	\$33.44	\$34.38	\$36.31
DP&L Projection - 6/30/16						***************************************	, , , , , , , , , , , , , , , , , , , ,

11800 ILB Coal (FOB Barge \$/Ton)	2017	2018	2019	2020	2021	2022	2023
PIRA - 5/26/16	\$35.04	\$35.70	\$36.69	\$37.04	\$37.26	\$37.47	\$37.69
ESAI - 6/30/16	n/a	n/a	n/a	n/a	n/a	n/a	n/a
DP&L Projection - 6/30/16	· · · · · · · · · · · · · · · · · · ·			,			

Henry Hub NG (\$/MMBtu)	2017	2018	2019	2020	2021	2022	2023
PIRA - 5/26/16	\$2.95	\$3.40	\$4.22	\$4.13	\$4.05	\$4.01	\$3.98
ESAI - 6/30/16	\$3.18	\$3.17	\$3.16	\$3.32	\$3.34	\$3.59	\$3.73
DP&L Projection - 6/30/16							

PJM Capacity (\$/MW-Day)	2017	2018	2019	2020	2021	2022	2023
I H S August 2016			1	\$140	\$140	n/a	n/a
ESAI - 6/30/16				\$130	\$134	\$151	\$164
DP&L Projection - 6/30/16	\$144	\$159	\$127		,		

The IHS capacity price forecast for 2020 and 2021 uses the IHS forecast for the 2020/21 delivery year. IHS does not have an updated forecast for the remaining years. The ESAI capacity value for 2020 uses ESAI's forecast for the 2020/21 delivery year. As can be seen from the table,

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Q. Was DP&L's internal commodity price forecast prepared for purposes of this case?

- 9 A. No, the forecast was not prepared for the purpose of this case, but was instead prepared in
 10 the ordinary course of DP&L's business and is what DP&L uses to make business
 11 decisions. DP&L considers the forecast to be reliable.
- 12 Q. Would you please explain whether the Company itself uses the commodity price
- 13 **forecast?**

2	A.	Yes. The Company uses the commodity price forecast for its internal budgeting and planning.
3	Q.	Were you involved in the development of the updated commodity curves, and if so,
4		to what extent?
5	A.	Yes. I was actively involved in the development of the capacity price forecast, given my
6		experience and current responsibility for the PJM capacity market position at DP&L. I
7		am also familiar with the detailed forecast preparation work for the other energy
8		commodities.
9	Q.	Did the Company use any third party or publicly available information to complete
10		its price forecast?
11	A.	Yes. The Company used publicly available information on coal producers to gain insight
12		into the cost of production for suppliers of the type of coal it uses.
13		
14		
15		
16	Q.	Were the commodity price forecasts provided in your testimony the same forecasts
17		used in DP&L's internal budgeting and planning process and the financial schedules
18		filed in this case?
19	A.	Yes, for the most part. Some of the price forecasts had minor adjustments made to them
20		to account for transportation cost or basis cost associated with reflecting the value that
21		DP&L receives or pays for each commodity. The power price forecast was completed

- for the AD Hub because it is the trading location and there is also price transparency at
 this point. DP&L, however, gets paid for the power from its generators at the generator
 location. To account for this fact, the Company adjusted the AD Hub price forecast to
 reflect the price at each generator.
- 5 Q. Are the price forecasts that you sponsor used to determine DP&L's generation dispatch forecast?
- 7 A. Yes.
- 8 Q. Please explain the process used to develop the generation dispatch forecast?
- 9 A. The commodity price forecasts that I am sponsoring were used as inputs to develop the 10 projected dispatch of each of the Company's plants. The projected generation dispatch 11 was determined by using the forward price estimates included in my testimony as inputs 12 into the Company's dispatch model. The dispatch model includes all of DP&L's plants 13 and related characteristics and simulates plant dispatch over time based on the inputted 14 forward price curves. This plant output or dispatch is then used to develop the projected 15 energy margins that are an input in the Company's financial forecast as sponsored by 16 Company Witness Jackson. Those projected energy margins were calculated by taking 17 the output production volumes of the dispatch model and using them as the inputs into 18 the Company's financial forecasting model.
- Q. Were the commodity price forecasts adjusted as part of the process to determine the
 generation dispatch?
- A. Yes. Some of the price forecasts had minor adjustments made to them to account for transportation cost or basis cost (locational price differences) associated with reflecting the value that DP&L receives or pays for each commodity. For example, the coal price

forecast includes an adjustment for transportation costs to account for the cost incurred in
moving the coal from the purchase location to DP&L's plants. Also, the power price
forecast was completed for the AD Hub because it is the trading location and there is also
price transparency at this point. DP&L, however, gets paid for the power from its
generators at the generator location. To account for this, the Company adjusted the AD
Hub price forecast to reflect the price at each generator which is where the Company's
generators get paid.

8 Q. Does this conclude your testimony?

- 9 A. Yes, it does.
- 10 1106095.1

CERTIFICATE OF SERVICE

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

upon the following counsel of record, this 11th day of October, 2016:

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