#### **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**
- $\Box \quad \textbf{RATE BASE}$
- $\Box \quad \textbf{ALLOCATIONS}$
- □ RATE OF RETURN
- **RATES AND TARIFFS**
- OTHER

#### **BEFORE THE**

# PUBLIC UTILITIES COMMISSION OF OHIO

# DIRECT TESTIMONY OF

#### **DAVID J. CRUSEY**

# ON BEHALF OF THE DAYTON POWER AND LIGHT COMPANY

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# 1 I. INTRODUCTION

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	А.	I am employed by AES US Services, LLC, which is the service company that serves The
7		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
11		acquired DP&L in late 2011, though my responsibilities have changed during this period.
12		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
16		US SBU. I am currently responsible for the Company's generation scheduling and
17		dispatch function. I am also responsible for the commercial functions related to the
18		Company's generating assets associated with the PJM Regional Transmission
19		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.
21	Q.	Have you previously provided testimony before the Public Utilities Commission of

22Ohio ("PUCO" or the "Commission") or the Federal Energy Regulatory23Commission ("FERC")?

A. Yes. I have participated in a FERC hearing related to a dispute with one of DP&L's
 municipal customers. I have provided written testimony to the Commission in DP&L's
 2011 Fuel Audit case, 11-5730-EL-FAC. I also provided written testimony and testified
 at hearing before the Commission in DP&L's 2012 Fuel Audit case, 12-2881-EL-FAC.

- 5 Q. What is the purpose of this testimony?
- A. The purpose of this testimony is to support and explain DP&L's internal forecasts of
  commodity and capacity prices and to support the generation dispatch amounts used by
  Company Witness Jackson.
- 9 II. <u>DP&L FORECASTS</u>

#### 10 Q. Can you identify DP&L's forecasts of commodity and capacity prices?

11 A. Yes. DP&L's commodity and capacity price forecasts are summarized below.

#### **DP&L** Price Forecasts

		Commodity	<u>Unit</u>	<u>2017</u>	<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	ILB Coal (S/Ton FOB Barge)	\$/Ton							
		Natural Gas Henry Hub	S/MMBtu							
12		Capacity RPM	S/MW-Day	S						
13	Q.	Can you describe h	ow DP&L	] pre	pared	its fo	orecas	sts?		
14	A.	Yes. DP&L's appr	oach to p	repar	ing it	s ene	ergy c	omm	odity	price forecasts is
15										
16								Ene	ergy c	commodities markets have
17		different degrees of	liquidity,	mark	et dep	oth an	d pric	ce trai	nspare	ency for different periods.
18		To obtain the	,	DP&	L use	ed a o	combi	natio	n of	publicly

1		information, published commodity indices, and information obta	ined through
2		recent transactions and communications with commodity brokers.	For most
3		commodities, we were able to obtain that wa	s sufficiently
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	А.		
	A.	Yes. The Company's approach used	sacted in the
13	A.	Yes. The Company's approach used they were, in our view, an accurate reflection of the price that could be tran	sacted in the
13 14	A.	Yes. The Company's approach used they were, in our view, an accurate reflection of the price that could be tran market for each respective commodity with sufficient liquidity and mar	sacted in the ket depth or
13 14 15	A.	Yes. The Company's approach used they were, in our view, an accurate reflection of the price that could be tran market for each respective commodity with sufficient liquidity and mar volume. I discussed above how the Company used	sacted in the ket depth or
13 14 15 16	A.	Yes. The Company's approach used they were, in our view, an accurate reflection of the price that could be tran market for each respective commodity with sufficient liquidity and mar volume. I discussed above how the Company used	sacted in the ket depth or
<ol> <li>13</li> <li>14</li> <li>15</li> <li>16</li> <li>17</li> </ol>	<b>A</b> .	Yes. The Company's approach used they were, in our view, an accurate reflection of the price that could be tran market for each respective commodity with sufficient liquidity and mar volume. I discussed above how the Company used	sacted in the ket depth or
<ol> <li>13</li> <li>14</li> <li>15</li> <li>16</li> <li>17</li> <li>18</li> </ol>	Α.	Yes. The Company's approach used they were, in our view, an accurate reflection of the price that could be tran market for each respective commodity with sufficient liquidity and mar volume. I discussed above how the Company used	sacted in the ket depth or
<ol> <li>13</li> <li>14</li> <li>15</li> <li>16</li> <li>17</li> <li>18</li> <li>19</li> </ol>	Α.	Yes. The Company's approach used they were, in our view, an accurate reflection of the price that could be tran market for each respective commodity with sufficient liquidity and mar volume. I discussed above how the Company used	sacted in the ket depth or
<ol> <li>13</li> <li>14</li> <li>15</li> <li>16</li> <li>17</li> <li>18</li> <li>19</li> <li>20</li> </ol>	<b>A</b> .	Yes. The Company's approach used they were, in our view, an accurate reflection of the price that could be tran market for each respective commodity with sufficient liquidity and mar volume. I discussed above how the Company used	sacted in the ket depth or

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

1	A.	Yes, this method is reaso	onable for multiple reasons	. First,	, the
2		Company	which by definition are	e the prices the	at can be transacted in
3		and therefore	reflect the value of the com	modity. Secon	nd, the Company used
4					
5		Third, as I will explain	later, the Company's power	r price forecas	st used the
6					
7			Fourth,	of the foreca	ast were based upon or
8		derived		The Compa	ny's entire seven-year
9		forecast is			The Company's
10		forecast is not solely the	e Company's independent	view or opinic	on of forward market
11		prices.			
12	0	Can you describe DD&I	la projections of natural a	aa mutaaa?	
	Q.		's projections of natural g	as prices?	
13	A.	Yes. As I stated earlier,			
14					
15					
16			For exa	mple, the oper	n interest, which is the
17		total number of contracts	that are open or outstanding	g for trading, o	on the Intercontinental
18		Exchange ("ICE") tradin	g platform		
19					
20					
21	0			•	
21	Q.	·	's projections of power pr	ices?	
22	A.	Yes. For the	, the Company		at the AEP-Dayton
23		Hub, also referred to as	the AD Hub in its forec	ast.	for power are

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	А.	Yes. Similar to the other commodities, the Company for coal for the
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11		
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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
22		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 1 <sup>st</sup> and ends May 31 <sup>st</sup> 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		
17		
18		
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
6		
7		
8		
9		
10		
11		
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				\$140	\$140	n/a	n/a
ESAI - 6/30/16				\$130	\$134	\$151	\$164
DP&L Projection - 6/30/16	\$144	\$159	\$127		, ,		

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The IHS capacity price forecast for 2020 and 2021 uses the IHS forecast for the 2020/21 2 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,

- 6
- 7

#### 8 **O**. Was DP&L's internal commodity price forecast prepared for purposes of this case?

- 9 No, the forecast was not prepared for the purpose of this case, but was instead prepared in A. 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?

1	A.	Yes. The Company uses the commodity price forecast for its internal budgeting and
2		planning.

- 3 Q. Were you involved in the development of the updated commodity curves, and if so,
  4 to what extent?
- A. Yes. I was actively involved in the development of the capacity price forecast, given my
  experience and current responsibility for the PJM capacity market position at DP&L. I
  am also familiar with the detailed forecast preparation work for the other energy
  commodities.

# 9 Q. Did the Company use any third party or publicly available information to complete 10 its price forecast?

A. Yes. The Company used publicly available information on coal producers to gain insight
into the cost of production for suppliers of the type of coal it uses.

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- 14
- 15

Q. Were the commodity price forecasts provided in your testimony the same forecasts
used in DP&L's internal budgeting and planning process and the financial schedules
filed in this case?

A. Yes, for the most part. Some of the price forecasts had minor adjustments made to them
 to account for transportation cost or basis cost associated with reflecting the value that
 DP&L receives or pays for each commodity. The power price forecast was completed

1		for the AD Hub because it is the trading location and there is also price transparency at
2		this point. DP&L, however, gets paid for the power from its generators at the generator
3		location. To account for this fact, the Company adjusted the AD Hub price forecast to
4		reflect the price at each generator.
5	Q.	Are the price forecasts that you sponsor used to determine DP&L's generation
6		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.
19	Q.	Were the commodity price forecasts adjusted as part of the process to determine the
20		generation dispatch?
0.1		

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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