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March 23, 2012

The Honorable Greta See  
Attorney Examiner  
Public Utilities Commission of Ohio  
180 East Broad Street  
Columbus, Ohio 43215

Re: *Ohio Power Company*, Case No. 10-2929-EL-UNC

**Steven T. Nourse**  
Senior Counsel –  
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Dear Ms. See:

On March 14, 2012, you issued a scheduling entry that, among other things, afforded Ohio Power Company (dba AEP Ohio) an opportunity to update or revise the testimony that was filed on August 31, 2011 in this proceeding. Today, AEP Ohio is filing the enclosed testimony to be sponsored by the following witnesses during the upcoming evidentiary hearing:

Richard E. Munczinski, AEP  
Frank C. Graves, The Brattle Group  
Kelly D. Pearce, PhD, AEP  
Dana E. Horton, AEP  
William A. Allen, AEP

With the exception of Mr. Allen, the four remaining witnesses had previously filed testimony on August 31, 2011 and are now submitting an updated/revised version of their Direct Testimony. For those four witnesses, a redlined version of testimony is also being submitted solely for the convenience of the parties so that they can see the specific changes made from the August 31, 2011 versions (regarding the exhibits of Dr. Pearce, only a portion of KDP-7 changed). During the April 17, 2012 hearing, AEP Ohio will sponsor and introduce for admission into the evidentiary record the clean, updated version of each piece of testimony that is being filed today. Please note that the testimony of William A. Klun that was filed on August 31, 2011 is no longer being sponsored and should be considered withdrawn.

Thank you for your attention to this matter.

Respectfully Submitted,

A handwritten signature in blue ink, appearing to read 'St. Nourse', is written over a horizontal line.

EXHIBIT NO. \_\_\_\_\_

BEFORE  
THE PUBLIC UTILITIES COMMISSION OF OHIO

In the Matter of the Commission's Review   )  
of the Capacity Charges of Ohio Power       )  
Company and Columbus Southern Power       )     Case No. 10-2929-EL-UNC  
Company                                               )

DIRECT TESTIMONY OF  
DANA E. HORTON  
ON BEHALF OF  
OHIO POWER COMPANY

Filed: March 23, 2012

BEFORE  
THE PUBLIC UTILITIES COMMISSION OF OHIO  
DIRECT TESTIMONY OF  
DANA E. HORTON  
ON BEHALF OF  
OHIO POWER COMPANY

1    **PERSONAL BACKGROUND**

2    **Q.    PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.**

3    A.    My name is Dana Earl Horton. My business address is 1 Riverside Plaza,  
4           Columbus, Ohio 43215. I am employed as Director – RTO Policy in the Regulatory  
5           Services Department of American Electric Power Service Corporation (AEP).  
6           American Electric Power Service Corporation is agent for AEP Ohio, which is  
7           comprised of Ohio Power Company, hereby referred to as AEP or the Company.

8    **Q.    PLEASE PROVIDE YOUR EDUCATION AND WORKING CAREER**  
9           **BACKGROUND.**

10   A.    I graduated from Muskingum College in New Concord, Ohio, in 1979 with a  
11           Bachelor of Arts in Accounting. I also received a Masters of Business  
12           Administration from Miami (Ohio) University in 1980. I worked for Ernst &  
13           Whinney as a CPA from 1980-83 before I joined AEP in January 1984. During my  
14           tenure at AEP, I have held positions in the Controllers Department, Trading &  
15           Marketing, Commercial Operations, and most recently in Regulatory Services. My  
16           main responsibility since AEP joined PJM in 2004 has been as an advocate for AEP  
17           in the PJM stakeholder process. In this role I work extensively with the stakeholder  
18           process under which PJM transmission and market rules are established. As relevant  
19           to this testimony, I was part of the AEP team that participated in the PJM  
20           stakeholder process leading up to the adoption of the rules implementing the

1 Reliability Pricing Model (“RPM”) and the Fixed Resource Requirement (“FRR”)  
2 that initially was developed in 2006. As one of the key members of the AEP  
3 negotiating team, I was present at the Federal Energy Regulatory Commission  
4 (“FERC”) offices during each of the RPM/FRR settlement discussions. For the  
5 reasons I discuss below, AEP was at the center of the discussions around the FRR  
6 and was one of the most active participants in the stakeholder process that led up to  
7 the FRR rules at issue in this proceeding, including several key provisions in the  
8 PJM Tariff and PJM’s Reliability Assurance Agreement (“RAA”).<sup>1</sup>

9 **Q. PLEASE EXPLAIN THE PURPOSE OF YOUR TESTIMONY IN THIS**  
10 **PROCEEDING.**

11 A. The primary purpose of my testimony is to describe the RPM and FRR options to  
12 supply capacity, the development of the FRR and why AEP chose this option. In  
13 addition, I will provide background and explanations for certain provisions in the  
14 FRR procedures including the requirements for alternative retail suppliers (called  
15 CRES providers in Ohio) with respect to their capacity obligations.

16 **Q. PLEASE EXPLAIN THE METHODS FOR SUPPLY AND PROCUREMENT**  
17 **OF CAPACITY IN PJM.**

18 A. There are two methods in PJM for the supply and procurement of capacity – RPM  
19 and FRR.

20 **Q. PLEASE BRIEFLY EXPLAIN THE RPM CAPACITY OPTION.**

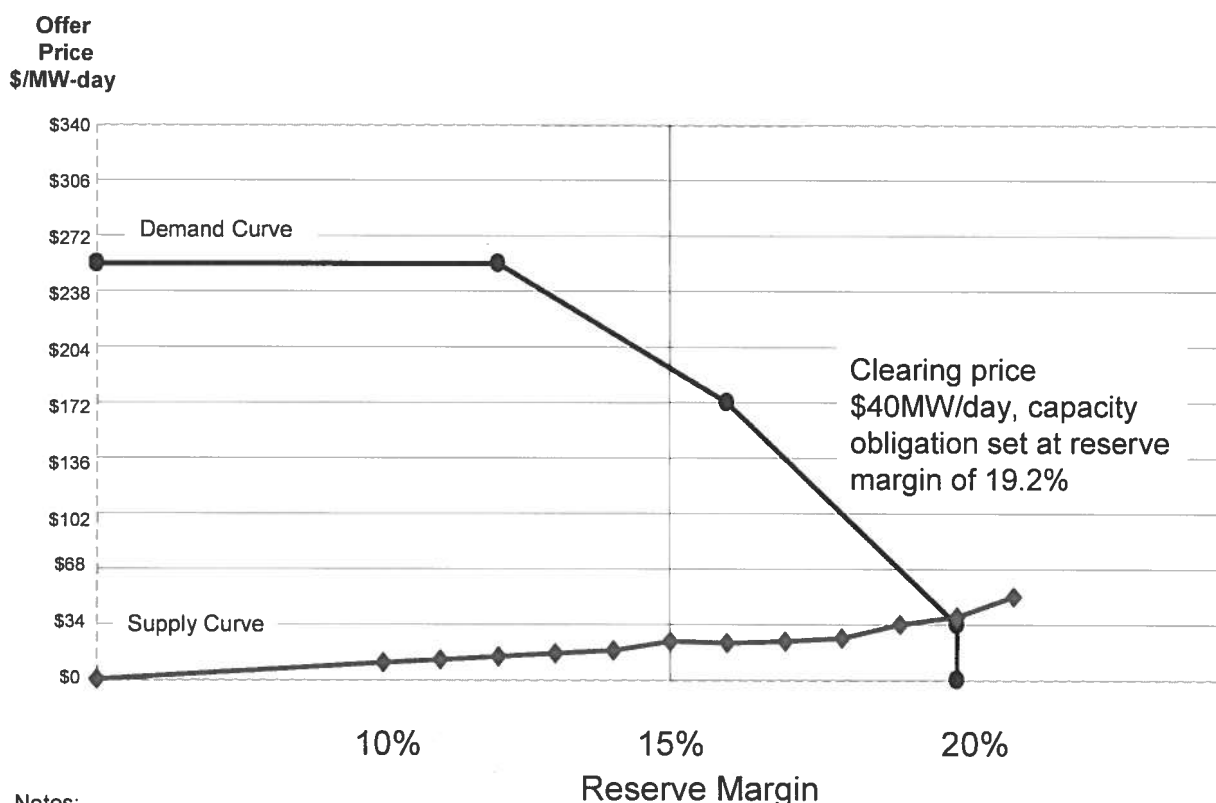
21 A. The RPM is an administratively determined market approach. Under the RPM, PJM  
22 clears the supply offers from generators against an administrative demand curve to  
23 arrive at both a price and a quantity paid by Load Serving Entities (LSEs) for their

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<sup>1</sup> PJM’s Reliability Assurance Agreement defines protocols necessary for maintaining reliability on the PJM system.

capacity and reserve obligations. Figure 1 below graphically represents the supply and demand curves for a Base Residual Auction. The Base Residual Auction is what PJM calls the initial auction used to set the RPM clearing prices three years in advance of the delivery year.

**Figure 1: Example of Supply/Demand Curve – Entire PJM Region**



Notes:

- Demand curve is administratively set by PJM. Maximum clearing price = 1.5 x Net CONE = \$258/MW-day in graph.
- Supply curve is based on offers by generators in RPM capacity market.
- Net CONE is equivalent to \$172/MW-day. Net CONE is defined as the cost of new entry for a gas peaking unit. PJM uses this value as the basis for determining the RPM demand curve.

In the graph above, the top line is the administrative demand curve. It is generally a downward sloping curve. This means that the more MWs which are purchased, the lower the price paid per MW of capacity. PJM calls this the Variable Resource Requirement curve.

1           The upward sloping curve is the supply curve. This curve is developed  
2 through actual offers submitted by generators into the RPM auction.

3           In this graph, the two curves cross where the price equals approximately  
4 \$40/MW-day and the quantity of capacity procured is approximately at a 19.2%  
5 reserve margin. The graph shows that all the loads in this zone will need to  
6 purchase capacity equal to a 19.2% reserve margin at \$40/MW-day. So, as a  
7 simplistic example, an LSE with a 100MW peak load obligation in the 2007/08  
8 delivery year, which is participating in the RPM auction process, will pay \$1.7M  
9  $(100\text{MWs} \times 1.192 \times \$40/\text{MW-day} \times 365 \text{ days} = \$1.7\text{M})$  to PJM for its capacity  
10 obligations in this particular example, which is representative of the 2007/08  
11 delivery year auction.

12 **Q. IS THE \$40/MW-DAY THE PRICE PAID BY THE CRES PROVIDER?**

13 A. No. The \$40/MW-day in the example is indicative of what the initial RPM auction  
14 cleared for the 2007/08 delivery year. As Witness Pearce describes in his testimony (and  
15 Exhibit KDP-7), the rate charged to CRES providers must include adjustments to the initial  
16 base auction for MWs cleared in the incremental auctions, and then grossed up for PJM's  
17 scaling factors (for reserves and load changes) and losses. For 2007/08, the initial clearing  
18 price was approximately \$40/MW-day, while the final capacity charge to CRES providers  
19 was approximately \$46/MW-day.

20 **Q. PLEASE EXPLAIN THE FRR OPTION.**

21 A. The FRR was developed to allow a utility the ability to provide its own capacity  
22 resources for its load obligations and not be subject to the RPM capacity market  
23 fluctuations (i.e. volatile clearing prices and reserve margins). Under the FRR  
24 option, the LSE supplies its own capacity obligations through its own generating  
25 fleet, or through bi-lateral arrangements with another supplier. If an LSE has a

1 100MW capacity obligation and chose FRR, the LSE could supply this capacity  
2 from its own generation fleet without making any payments to PJM.

3 **Q. WHY WAS THE FRR OPTION DEVELOPED AS ANOTHER METHOD**  
4 **FOR SUPPLYING CAPACITY?**

5 A. It was important to have an appropriate mechanism for LSEs that owned or  
6 controlled sufficient generation to meet their own load and reserve margin  
7 obligations. AEP advocated strongly at FERC and during the stakeholder  
8 negotiations for the FRR option. This option was important to AEP, because:

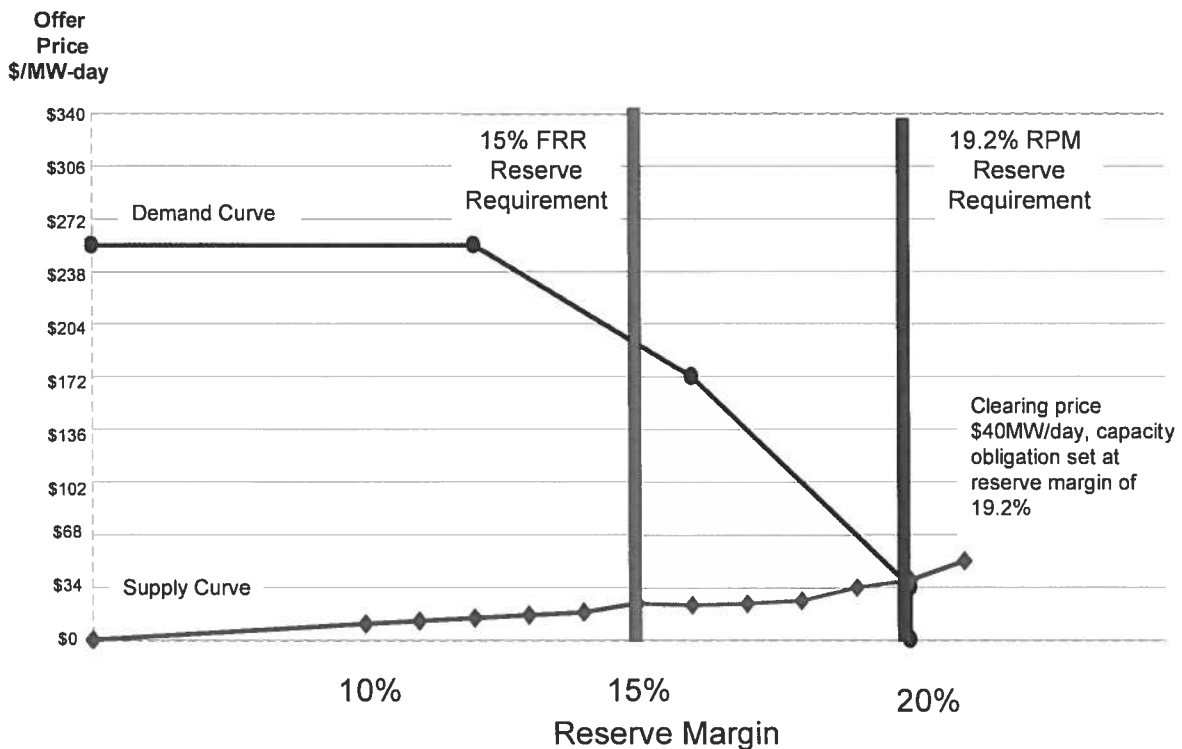
- 9 • FRR was consistent with the Company's regulatory framework.  
10 AEP utilities in PJM were among the few remaining vertically  
11 integrated utilities that retained their generation to meet the load  
12 obligations of their customers. For AEP, the FRR mechanism  
13 allowed it to continue to recover its embedded generation costs  
14 associated with the customers it serves through existing Commission  
15 approved rate structures. Conversely, many of the other PJM utilities  
16 have segregated their load from their generation, either by divesting  
17 their generation to third parties or transferring it to affiliated  
18 generation companies.
- 19 • It did not make sense for AEP to offer its own generation into a  
20 capacity auction and then essentially be required to buy it back to  
21 satisfy its load obligation, since the Company had sufficient  
22 generation to meet its own load obligation.
- 23 • AEP was at risk for being required to purchase more capacity than  
24 necessary because of the potential for the RPM auction to clear at a  
25 higher reserve margin level than the Company carried on its system.

1    **Q.    WHAT WAS THE OUTCOME OF THIS INITIAL DECISION?**

2    A.    At the time AEP initially made the decision to choose FRR, the FRR reserve  
3           requirement as set by PJM was 15%. In 2007/08, the auction actually cleared at a  
4           19.2% reserve margin. If we had chosen RPM in 2007/08, AEP would have  
5           purchased an additional 4.2% of capacity to meet the RPM reserve margin that was  
6           not necessary to meet the Company's internal load obligations. See Figure 2 for a  
7           graphic representation of this difference.

8

9                    **Figure 2: Comparison of Reserve Requirements FRR vs RPM**



Notes:

- Demand curve is administratively set by PJM. Maximum clearing price = 1.5 x Net CONE = \$258/MW-day in graph.
- Supply curve is based on offers by generators in RPM capacity market.
- Net CONE is equivalent to \$172/MW-day. Net CONE is defined as the cost of new entry for a gas peaking unit. PJM uses this value as the basis for determining the RPM demand curve.

10  
11

12    **Q.    WHY WAS THE RPM RESERVE MARGIN HIGHER THAN THE FRR**  
13           **RESERVE MARGIN?**



1 A. The key difference is in how the reserve margins are determined for FRR and RPM.  
2 For FRR, the reserve margin used is the reserve margin PJM calculates for the entire  
3 PJM RTO for planning purposes. However, the reserve margin for RPM is set by  
4 supply offers and an administratively set demand curve. Figure 2 above shows this  
5 relationship graphically.

6 **Q. WHAT WOULD THIS ADDITIONAL 4.2% IN CAPACITY RESERVES**  
7 **HAVE COST AEP AND ITS CUSTOMERS?**

8 A. In the 2007/08 period, this additional capacity obligation would have cost AEP and  
9 its customers an additional \$15.7M.

10 **Q. HOW DID YOU DERIVE THIS NUMBER?**

11 A. AEP's total company peak load in PJM is approximately 22,000MWs. If the  
12 Company had been required to carry an additional 4.2% in capacity reserves, AEP  
13 would have been obligated to supply 925MWs of additional capacity for 2007/08  
14 (4.2% of 22,000MWs). With the billed RPM capacity rate of \$46.73/MW-day  
15 (which is the \$40/MW-day clearing price grossed up for reserve margin and losses),  
16 the total cost would have been 925MWs x \$46.73/MW-day x 365 days = \$15.7M.

17 **Q. PLEASE COMPARE THE RESERVE MARGIN FOR FRR TO THE**  
18 **RESERVE MARGIN FOR RPM FOR ALL THE YEARS THE AUCTION**  
19 **HAS CLEARED TO DATE.**

20 A. There have been eight RPM auctions held since the initiation of the capacity  
21 auctions for the 2007/08 delivery year. The average target reserve margin set  
22 annually by PJM has been approximately 15.5% from 2007/08 through 2014/15.  
23 The average reserve margin cleared in the RPM auction in these eight years has  
24 been approximately 19% in the AEP zone. The difference is 3.5%. With the  
25 average RPM clearing price for all auctions being approximately \$90/MW-day,

1 AEP has saved its customers \$25M annually (22,000MWs x 3.5% x \$90/MW-day x  
2 365 days = \$25M) by choosing FRR.

3 **Q. BACK TO THE INITIAL DEVELOPMENT OF THE FRR OPTION, HOW**  
4 **DID FERC RULE ON FRR IN ITS INITIAL OPINION?**

5 A. FERC agreed that it was not necessary or appropriate to force utilities such as AEP  
6 to participate in the RPM auction. In their April 20, 2006 Initial Order, FERC states  
7 in paragraph 110 that “We agree with AEP that LSEs and states should have the  
8 option of choosing an alternative to the forward procurement auction if they identify  
9 sufficient capacity to meet their loads....”

10 At that point, as part of the settlement process at FERC, PJM and the PJM  
11 stakeholders entered into negotiations to develop the FRR process. These  
12 deliberations focused on the preparation of rules that enabled utilities such as AEP  
13 to meet their capacity obligations through use of their own generation (including bi-  
14 lateral arrangements) and to maintain reserve margins established by the PJM  
15 planning process rather than through the auction process. This provided benefits to  
16 native load customers by giving the LSEs choices for meeting capacity  
17 requirements.

18 **Q. WERE YOU PART OF THE FERC SETTLEMENT NEGOTIATIONS**  
19 **RELATING TO THE FRR RULES?**

20 A. Yes. The development of the FRR was largely driven by AEP. The AEP team  
21 (including myself) was at the core of and very active in the PJM stakeholder  
22 deliberations relating to these issues. These discussions took place under FERC  
23 Docket ER05-1410.

1   **Q.   PLEASE EXPLAIN HOW A CRES PROVIDER SERVING LOAD IN THE**  
2       **SERVICE TERRITORY OF AN FRR ENTITY MAY SUPPLY ITS**  
3       **CAPACITY REQUIREMENT.**

4   A.   The CRES provider has two options for supplying its capacity requirement. These  
5       include: 1) supplying its own capacity (with its own generation or through a bi-  
6       lateral contract) or 2) paying the FRR entity to supply capacity for the CRES  
7       provider.

8   **Q.   DURING THE FERC SETTLEMENT PROCESS, DID THE**  
9       **STAKEHOLDERS DISCUSS THE LEVEL OF COMPENSATION FOR**  
10      **CAPACITY TO BE PAID BY CRES PROVIDERS TO FRR ENTITIES?**

11  A.   Yes. The stakeholders held several discussions throughout the FERC settlement  
12      process regarding the compensation level for capacity that CRES retail LSEs would  
13      pay to the FRR entities in the event that the CRES provider did not have sufficient  
14      generation resources to enable them to meet their capacity requirements.

15  **Q.   WHY WAS IT NECESSARY TO DISCUSS THE CAPACITY**  
16      **COMPENSATION TO BE PAID BY CRES PROVIDERS?**

17  A.   Under the FRR rules, AEP is ultimately responsible for ensuring adequate capacity  
18      resources to meet the load obligation in its service territory, except for capacity that  
19      is self-supplied by a CRES provider. This includes not only the load served by  
20      AEP, but also any load that has switched to a CRES provider. To fulfill the total  
21      capacity requirement for the AEP service territory, the Company supplies capacity  
22      resources to meet the Company's load obligation while the CRES provider has the  
23      option of either 1) paying AEP to supply its capacity obligation or 2) providing its  
24      own resources to meet its capacity obligation. Therefore, this compensation

1 discussion was necessary to ensure that the FRR entity was adequately compensated  
2 for supplying capacity resources used by a CRES provider.

3 **Q. WERE THERE MULTIPLE OPTIONS DISCUSSED FOR CHARGING**  
4 **CRES PROVIDERS FOR THE CAPACITY COVERED UNDER AN FRR**  
5 **PLAN?**

6 A. Yes. The PJM stakeholders ultimately agreed upon three options for determining an  
7 adequate capacity reimbursement price for CRES providers. The first approach,  
8 which would initially serve as a default mechanism, would be for the charges to  
9 track the market clearing price set in the RPM auctions. However, the major  
10 drawback was that there was no guarantee the auction prices would reimburse an  
11 FRR entity for its embedded cost of capacity. So, the stakeholders agreed upon  
12 another method under which the level of capacity compensation would be based on  
13 the FRR's embedded capacity costs.

14 Further, during the PJM stakeholder process, there also was a discussion  
15 about the possibility that any state utility commission might seek to implement a  
16 retail choice program with rules that require shopping customers to pay capacity-  
17 related charges directly to the incumbent utility. Although AEP was not aware of  
18 any such retail mechanism in any of the states in which AEP utilities operated, the  
19 Company did not oppose the inclusion of a provision that would accommodate the  
20 possibility that Ohio or another retail-choice state might one day decide to  
21 implement such a capacity charge directly to a retail customer (as opposed to a  
22 wholesale charge to a CRES provider). AEP fully expected that any such provision  
23 within our regulated jurisdictions would allow the Company to recover the costs for  
24 the capacity it is obligated to supply.

1   **Q.   HAS THE PUBLIC UTILITY COMMISSION OF OHIO (COMMISSION)**  
2       **VOICED SUPPORT FOR THE FRR PLAN SINCE ITS INCEPTION?**

3   A.   Yes. The Commission staff referred to FRR in public comments filed at FERC  
4       provided in advance of a FERC Staff Technical Conference on June 7, 2006. In the  
5       first sentence of their comments, the Commission staff said they “would like to  
6       compliment the FERC for accepting the traditional resource requirement approach  
7       (the Fixed Resource Requirement option) as a legitimate alternative to RPM. The  
8       Ohio Staff would like to request that, in developing the rules for the two  
9       alternatives, the FERC needs to ensure that a resource supplier is treated equitably  
10      in terms of the [Installed Reserve Margin (IRM)] requirement, the penalties for  
11      violating an IRM requirement, and the appropriate length of a resource  
12      commitment, regardless of what alternative the supplier chooses.”

13   **Q.   DID THE COMMISSION PARTICIPATE IN THE RPM AND FRR**  
14       **NEGOTIATIONS?**

15   A.   The Commission staff was present at many of the sessions in Washington D.C.  
16       Because of the nature of the settlement negotiations, I am not permitted to disclose  
17       any details of positions voiced or taken during the discussions.

18   **Q.   YOU HAVE DISCUSSED THE RESERVE MARGIN BENEFITS OF**  
19       **CHOOSING FRR. WERE THERE OTHER BENEFITS THAT RESULTED**  
20       **FROM CHOOSING FRR?**

21   A.   Yes. In addition to the reserve margin benefits noted above, the FRR plan allows  
22       AEP the flexibility to substitute generating units within its fleet for meeting the  
23       Company’s FRR capacity obligations in case of significant unit outages. In other  
24       words, AEP can utilize generating units that **are not** committed as capacity  
25       resources to replace generating units that **are** committed capacity resources in the

1 event of unforeseen operational issues. This flexibility allows AEP the ability to  
2 minimize, or possibly eliminate, financial penalties assessed by PJM associated with  
3 non-performance of a committed capacity resource.

4 **Q. HAS AEP BENEFITED FROM THIS FLEXIBILITY?**

5 A. Yes. In 2009, AEP experienced an extended, but unexpected outage with a  
6 committed capacity resource that lasted for over a year. Fortunately, under the  
7 FRR, AEP was able to substitute other uncommitted capacity resources within the  
8 AEP fleet for this unit in order to avoid most of the penalties that PJM would have  
9 assessed had AEP been in RPM. The RPM rules do not allow LSEs to hold some  
10 units in reserve to cover unexpected forced outages.

11 **Q. IS THERE A FINANCIAL BENEFIT TO THIS FLEXIBILITY?**

12 A. Yes. To illustrate the financial implications of being able to manage the risk of  
13 forced outages, if AEP would find itself 1000 MW short of capacity due to an  
14 unexpected forced outage, the penalty provisions for the 2009/10 delivery year  
15 would be 120% of the RPM clearing price. This would equate to \$44M of penalties  
16 for a 1000 MW shortage (1000MWs x 365 days x 120% x \$102/MW-day RPM  
17 clearing price).

18 **Q. WOULD AEP HAVE REALIZED THE SAME BENEFITS IN RPM?**

19 A. No. Under RPM AEP would have to offer 100% of its capacity into the auction and  
20 not hold any capacity in reserves to address forced outage situations.

21 **Q. ARE THE CRES PROVIDERS EXPOSED TO THESE PENALTY**  
22 **PROVISIONS IF THEY DO NOT BRING THEIR OWN CAPACITY TO**  
23 **SERVE THEIR RETAIL OBLIGATIONS?**

1 A. No. If a CRES provider relies on AEP for its capacity requirement, AEP is  
2 responsible for 100% of the penalties associated with non-performance under the  
3 FRR, and does not pass on to the CRES providers any of the penalties incurred.

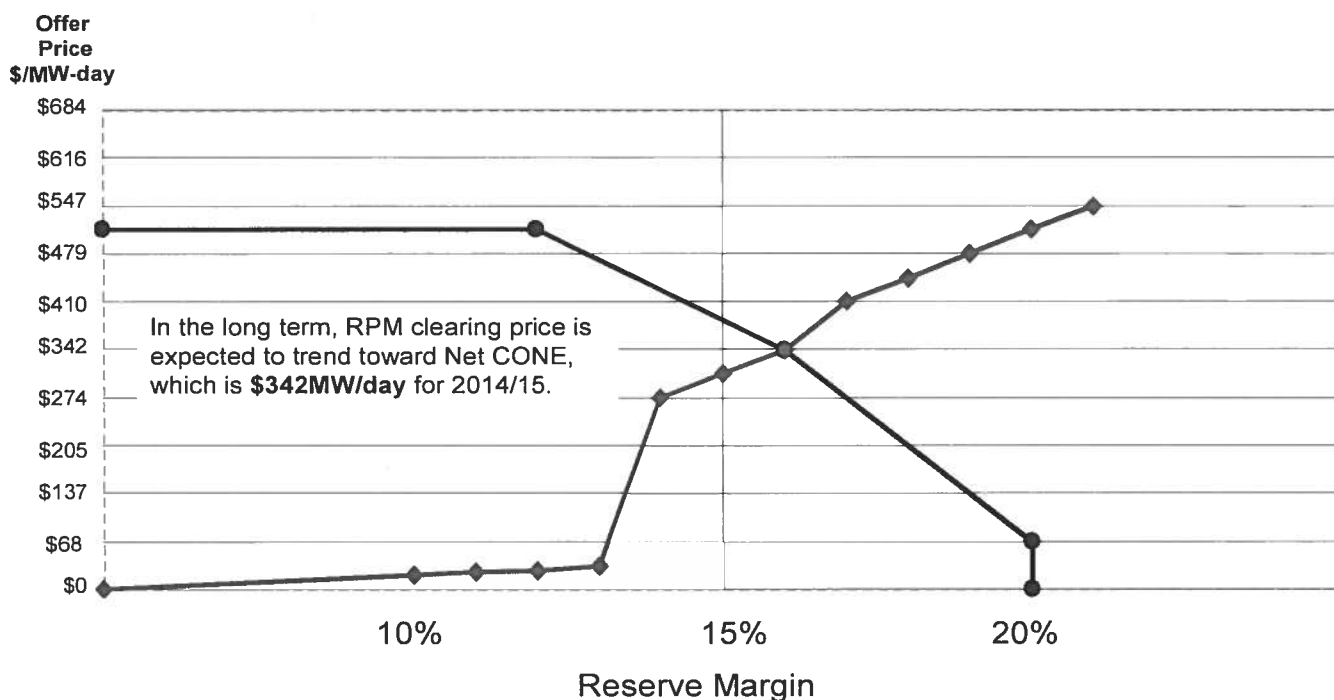
4 **Q. PLEASE ILLUSTRATE THE IMPACT OF USING THE RPM AUCTION**  
5 **CLEARING PRICE ON THE CAPACITY CHARGE PAID BY CRES**  
6 **PROVIDERS AND THE FRR ENTITY.**

7 A. For 2012/13, the RPM auction clearing price in the AEP zone was approximately  
8 \$20/MW-day. This is equivalent to a \$0.83/MWH adder to the energy cost  
9 (\$20/MW-day/24 hours). The average PJM wholesale energy costs in 2010 were  
10 \$48.34/MWH. The \$0.83/MWH for capacity is only 1.7% of the energy price using  
11 these illustrative numbers.

12 However, if the RPM capacity auction clearing price continues to rise to Net  
13 CONE, the clearing price will be closer to \$342/MW-day (the Net CONE used for  
14 the 2014/15 auction, as represented in Figure 3 below). This would equate to a  
15 \$14.25/MWH (\$342/MW-day / 24 hours) cost for capacity. This \$14.25/MWH for  
16 capacity is over 29% of the 2010 energy cost of \$48.34/MWH.

1

**Figure 3: Long Run RPM Auction Clearing Price at Net CONE**



**Notes:**

- Demand curve is administratively set by PJM. Maximum clearing price = 1.5 x Net CONE = \$513/MW-day in graph.
- Maximum reserve margin cleared = 20%, or target reserve margin (15% in example) + 5%.
- Supply curve is based on offers by generators in RPM capacity market.
- Net CONE is equivalent to \$342/MW-day. Net CONE is defined as the cost of new entry for a gas peaking unit. PJM uses this value as the basis for determining the RPM demand curve.

2  
3

**Q. WHAT HAS PJM STATED FOR THE FUTURE OF CAPACITY SUPPLIES AND RPM AUCTION CLEARING PRICES?**

A. PJM believes that in the long run, capacity prices will likely average close to the Net CONE prices (\$342/MW-day for the 2014/15 RPM auction), even if there is continued volatility in the short run. PJM is supported in this opinion by independent consultant Professor Benjamin Hobbs<sup>2</sup>, who provided opinions and analytical work as part of the RPM development process. Professor Hobbs supported the premise that in the long run Net CONE would be the value that would

<sup>2</sup> See PJM Interconnection, L.L.C., June 30, 2008 informational filing at FERC in Docket Nos. ER05-1410-000 and EL05-148-000.



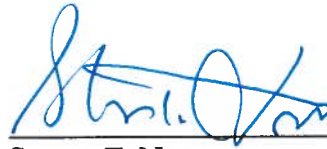
1           attract the necessary reserve levels of primarily gas units in the RPM capacity  
2           market.

3   **Q.   DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?**

4   **A.   Yes.**

## CERTIFICATE OF SERVICE

The undersigned hereby certifies that a true and correct copy of the foregoing Columbus Southern Power Company's and Ohio Power Company's testimony of Dana E. Horton has been served upon the below-named counsel via electronic mail this 23<sup>rd</sup> day of March, 2012.



Steven T. Nourse

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**This foregoing document was electronically filed with the Public Utilities**

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**3/23/2012 4:43:52 PM**

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**Case No(s). 10-2929-EL-UNC**

Summary: Testimony of Dana E. Horton electronically filed by Mr. Steven T Nourse on behalf of Ohio Power Company