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**BEFORE  
THE PUBLIC UTILITIES COMMISSION OF OHIO**

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In the Matter of the Application of Ohio )  
Edison Company, The Cleveland Electric )  
Illuminating Company, and The Toledo )  
Edison Company for Authority to Establish )  
A Standard Service Offer Pursuant to )  
R.C. § 4928.143 in the Form of an Electric )  
Security Plan. )

Case No. 08-935-EL-SSO

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**DIRECT TESTIMONY OF KEVIN M. MURRAY  
ON BEHALF OF INDUSTRIAL ENERGY USERS-OHIO**

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September 29, 2008

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**DIRECT TESTIMONY OF KEVIN M. MURRAY**

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**1 I. INTRODUCTION**

**2 Q1. Please state your name and business address.**

**3 A1. My name is Kevin M. Murray. My business address is 21 East State Street, 17<sup>th</sup>**  
**4 Floor, Columbus, Ohio 43215-4228.**

**5 Q2. By whom are you employed and in what position?**

**6 A2. I am a Technical Specialist for McNees Wallace & Nurick LLC ("McNees"),**  
**7 providing testimony on behalf of Industrial Energy Users-Ohio ("IEU-Ohio").**

**8 Q3. Please describe your educational background.**

**9 A3. I graduated from the University of Cincinnati in 1982 with a Bachelor of Science**  
**10 degree in Metallurgical Engineering.**

**11 Q4. Please describe your professional experience.**

**12 A4. I have been employed by McNees for eleven years where I focus on helping**  
**13 IEU-Ohio members address issues that affect the price and availability of utility**

1 services. I have also been active on behalf of industrial customers in the  
2 formation of regional transmission operators and the organization of regional  
3 electricity markets. Prior to joining McNees, I was employed by Kegler, Brown,  
4 Hill & Ritter in a similar capacity. I previously spent twelve years with The  
5 Timken Company, a specialty steel and roller bearing manufacturer. While at  
6 The Timken Company, I worked within a group that arranged for electricity and  
7 natural gas requirements for facilities in the United States. I also spent several  
8 years in supervisory positions within the company's steelmaking operations.

9 **Q5. Have you previously testified before this Commission?**

10 A5. I have previously submitted testimony in the Ohio Edison Company, The  
11 Cleveland Electric Illuminating Company, and The Toledo Edison Company  
12 (collectively "FirstEnergy" or "Companies") electric distribution companies' rate  
13 increase cases which are pending before the Commission (Case No.  
14 07-551-EL-AIR, *et al.*). However, on February 11, 2008, a Stipulation and  
15 Recommendation supported by many of the parties in those proceedings was  
16 submitted in the cases. The Stipulation and Recommendation, if adopted, would  
17 resolve many of the contested issues in those proceedings. A provision in the  
18 Stipulation and Recommendation provides that my testimony in those  
19 proceedings will not be offered.

20 I have also submitted direct testimony in the Companies' companion application  
21 for approval of a competitive bidding process in Case No. 08-936-EL-SSO.

**Q6. What is the purpose of your testimony?**

**A6. The purpose of my testimony is to address changes that are necessary to FirstEnergy's proposed electric security plan ("ESP") in order to make the overall plan reasonable and more favorable in the aggregate than a market rate option ("MRO"). First, the application has a placeholder regarding how customer-sited capabilities to meet demand response, energy efficiency and peak demand reduction obligations will be incorporated into the ESP, but does not address these issues in sufficient detail to allow customers or the Commission to understand how the Companies will utilize customer-sited capabilities to meet the alternative energy requirements. Second, the proposed minimum default service charge and standby charge are duplicative. Third, the ESP includes a provision that allows FirstEnergy to pass through any costs related to or arising from its participation in a regional transmission organization ("RTO"). However, the application does not commit the electric distribution utilities ("EDUs") or their affiliates to seek to reduce the costs arising from participation in an RTO and its associated markets. Fourth, the ESP proposes that all generation charges be per kilowatt hour ("kWh") charges rather than a combination of demand and energy charges. Fifth, the ESP includes the option for customers currently served under interruptible tariff schedules to continue to receive service under two new interruptible riders. However, the riders unnecessarily restrict customers from also participating in any demand response options that may be available through the Midwest ISO ("MISO"). Finally, as part of this proceeding,**

modification should be made to the Companies' standby and partial service tariffs as well as the avoided cost purchase price.

## **II. CUSTOMER-SITED CAPABILITIES**

**Q7. What are customer-sited demand response, energy efficiency and peak demand capabilities?**

A7. It is my understanding that customer-sited capabilities are the means an EDU may use to comply with the portfolio requirements of Amended Substitute Senate Bill 221 ("SB 221") beginning in 2009.

**Q8. How is compliance with these requirements measured?**

A8. It is my understanding that compliance is addressed in SB 221 both directly and by giving the Commission the ability to issue rules. The Commission recently issued draft rules on the portfolio requirements.

**Q9. How should EDUs treat customer-sited capabilities for the purposes of providing the standard service offer ("SSO") in conjunction with the ESP?**

A9. It is my understanding that the portfolio requirements apply to an EDU regardless of whether the SSO is provided under the MRO or ESP approach and that SB 221 encourages the use of customer-sited capabilities to meet these requirements in both an MRO and ESP context.

**Q10. Does FirstEnergy's ESP application address how customer-sited capabilities will be used to meet its portfolio obligations?**

1 A10. The application provides some information but does not comprehensively  
2 address this issue. The application itself identifies that the Companies **will?**  
3 commit to providing \$5 million each year from 2009 through 2013 for investment  
4 in customer energy efficiency/demand side improvements made after January 1,  
5 2009. The direct testimony of Gregory F. Hussing on pages 10-11 also briefly  
6 mentions the proposed demand-side management and energy efficiency rider.  
7 Mr. Hussing indicates that the rider has been structured in such a way that  
8 customers may avoid a charge by implementing customer-sited programs that  
9 help the Companies comply with portfolio obligations. Language that appears on  
10 the Companies' proposed demand-side management and energy efficiency  
11 riders also addresses this issue.

12 **Q11. Is this information contained in the application adequate?**

13 A11. No, it is not. The information provided by FirstEnergy amounts to a placeholder  
14 and the details regarding how customer-sited capabilities will be relied upon have  
15 not been provided.

16 **Q12. Do you have any observations on the proposed demand-side management**  
17 **and energy efficiency rider?**

18 A12. Yes. Mr. Hussing suggests that avoidability of the DSE2 charges is intended to  
19 provide customers with an incentive to implement customer-sited capabilities.  
20 However, for non-residential customers, the initial DSE2 charge is zero. Further,  
21 it appears that the earliest the DSE2 charge for non-residential customers could  
22 increase is January 1, 2010. Thus, at least initially, the rider does not provide  
23 any economic incentives.

1     **III.     DEFAULT AND STANDBY SERVICE CHARGES**

2     **Q13. Does the application provide for default and standby charges?**

3     A13. Yes, it does. FirstEnergy has proposed that all customers, both shopping and  
4       non-shopping, be subject to a \$0.01 per kWh charge. For non-shopping  
5       customers, this charge would be part of the base generation price in Rider GEN.  
6       For shopping customers, this charge would be levied through the minimum  
7       default service rider.

8       Kevin T. Warvell testifies that this non-bypassable charge is intended to  
9       compensate FirstEnergy for generation-related administrative costs and hedging  
10      costs associated with FirstEnergy's obligation to serve the entire load of its retail  
11      customers.

12      FirstEnergy has also proposed a separate power supply reservation rider that  
13      would apply only to customers that switch to an alternative supplier. The rider  
14      would be set at \$0.015 per kWh in 2009, \$0.020 per kWh in 2010 and \$0.025 per  
15      kWh in 2011. This charge would apply unless the customer or its governmental  
16      aggregator elects to waive the right to return to SSO service at the ESP price  
17      during the three-year term of the ESP. Mr. Warvell testifies that this charge is  
18      intended to compensate FirstEnergy for the costs and risks of returning  
19      customers. In return for payment of the charge, FirstEnergy stands willing to  
20      provide customers that switch to an alternative supplier and subsequently return,  
21      generation at the stabilized SSO base generation price. Customers that waive



1 the charge and subsequently return to FirstEnergy for generation service are  
2 subject to a form of market-based rates.

3 **Q14. Do you have any comments on these charges?**

4 A14. FirstEnergy has not provided support for the specific level of the charges.  
5 Additionally, the charges appear to be duplicative. If the \$0.01 per kWh charge is  
6 intended to compensate FirstEnergy for the hedging costs associated with  
7 serving FirstEnergy's entire retail load, it is not clear what additional costs would  
8 result from shopping customers returning. Thus, in totality, the two riders do not  
9 appear to be reasonable.

#### 10 **IV. RTO COSTS**

11 **Q15. Does the application address transmission costs as well as costs**  
12 **associated with FirstEnergy's participation in an RTO?**

13 A15. Yes, it does. FirstEnergy has proposed that all transmission and transmission-  
14 related costs, which it defines as including ancillary services costs, congestion  
15 costs as well as any new charges that may be imposed upon or charged to  
16 FirstEnergy by the Federal Energy Regulatory Commission ("FERC") or an RTO,  
17 be collected through a rider. The proposed cost recovery mechanism is similar to  
18 FirstEnergy's existing transmission and ancillary services riders.

19 **Q16. Do you think FirstEnergy's transmission and RTO cost recovery proposal**  
20 **is reasonable?**

21 A16. I think the Commission should be wary of automatic cost recovery mechanisms  
22 that do not contain auditing and control provisions. The Commission Staff has

1 previously been instructed to review RTO-incurred costs to determine if electric  
2 distribution companies are managing controllable costs so that they are  
3 reasonable. It would be wise to continue this practice.

4 Additionally, to the extent the Commission allows automatic cost recovery  
5 mechanisms for transmission and RTO-related costs, I believe it would be  
6 appropriate for the Commission to require FirstEnergy to proactively work to  
7 minimize these costs. FirstEnergy has suggested that transmission and ancillary  
8 services costs are items over which the company has "little to no control" and  
9 that, therefore, automatic cost recovery is appropriate. This is simply not correct.  
10 First, as a both a stakeholder and a transmission-owning member of MISO,  
11 FirstEnergy has the opportunity to advocate for market rules that will work to  
12 reduce electricity costs for consumers. It is simply not appropriate for EDUs to  
13 seek automatic cost recovery while at the same time they or their affiliates are  
14 advocating RTO market rules and structures designed to increase electricity  
15 costs. Second, claims that RTO costs are entirely uncontrollable are incorrect.  
16 While the incurrence of certain costs may be unavoidable, EDU practices may  
17 certainly impact the level of these costs. For example, once MISO implements  
18 markets for ancillary services, load serving entities may have the option to self  
19 schedule resources to provide operating reserves. Self scheduling operating  
20 reserves, rather than obtaining operating reserves through MISO's ancillary  
21 services markets, may be a lower cost option. Therefore, the Commission  
22 should limit cost recovery to prudently incurred costs, and require EDUs to  
23 proactively take actions to minimize costs.

1    **V.      GENERATION RATE DESIGN**

2    **Q17. Under the proposed ESP, how are generation charges levied upon**  
3       **customers?**

4    A17. For all customer classes, the generation charges to be collected through the  
5       generation service rider are assessed entirely on a per kWh basis. The per kWh  
6       charges are seasonally differentiated, with proposed summer and winter rates.

7    **Q18. Is this rate design appropriate?**

8    A18. No, this rate design is not appropriate for larger customers, such as customers  
9       served at transmission, sub-transmission and primary voltages. This rate design  
10      provides no price signal that the customer's load factor contributes to the cost of  
11      providing electricity. Load factor, often stated as a percentage, is the ratio of the  
12      customer's average demand to its peak demand.

13   **Q19. Why is load factor important?**

14   A19. A higher load factor means that fixed costs are spread over a greater quantity of  
15      usage, lowering the overall average costs per kWh. However, load factor can  
16      also affect variable costs. For example, a fossil-fuel fired generating plant may  
17      be most energy efficient when it is operated at a steady state near capacity.  
18      Repeatedly cycling this type of generating plant unit up and down may lower its  
19      energy efficiency, resulting in higher fuel costs per unit of output.

20      Designing generation charges to be entirely kWh based implicitly suggests that  
21      generation costs are entirely variable. As electric generation tends to be a  
22      capital-intensive endeavor, I do not subscribe to the theory that generation costs

1 are entirely variable. However, if you presume generation costs are entirely  
2 variable, that would argue that there is no need for shopping customers to pay  
3 any charges to FirstEnergy default or standby service, so long as they were  
4 willing to accept a market price for energy. In other words, there would be no  
5 justification to provide any reservation fees to FirstEnergy in its role as the  
6 provider of last resort ("POLR").

7 **Q20. What is your recommendation regarding the generation rate design?**

8 A20. I recommend that once the generation revenue requirement has been  
9 established for the transmission, sub-transmission and primary rate schedules,  
10 that the generation rider rates be structured as a two-part rate consisting of both  
11 demand and energy components. Since we do not have a cost of service study  
12 to guide us on rate design, I recommend a demand charge of \$14 per kW, with  
13 the remainder of the revenue requirement to be collected through seasonally  
14 differentiated kWh charges. The \$14 per kW demand charge is comparable to  
15 the first block demand charge under Ohio Edison's current Schedule 23.

16 **VI. INTERRUPTIBLE SERVICE**

17 **Q21. Does the proposed ESP provide customers with interruptible service**  
18 **options?**

19 A21. Yes, it does. Each of the operating companies has proposed an economic load  
20 response program rider as well as an optional load response program rider. The  
21 first rider subjects the customer to interruptions as a result of economic

1 considerations. Under the latter rider, interruptions are only triggered by an  
2 emergency curtailment event.

3 **Q22. Do these riders have restrictions on eligibility for service?**

4 Q22. Yes, they do. For each company, the availability of service under the economic  
5 load response program rider is limited to customers served under interruptible  
6 service arrangements as of July 31, 2008. Additionally, under both riders,  
7 customers are foreclosed from participating in any other load curtailment  
8 program, including demand options that may be available through MISO.

9 **Q23. Do you believe these restrictions are appropriate?**

10 A23. No, I do not. FirstEnergy has not offered any support for restricting service under  
11 the economic load response program rider to customers served under  
12 interruptible service arrangements as of July 31, 2008. Based upon the need to  
13 achieve peak demand reductions to meet portfolio obligations, there is no reason  
14 to support restricting the availability of interruptible service options. Further, an  
15 interruptible service is, by definition, always available.

16 Given that the two interruptible riders are complementary, i.e. the latter is  
17 associated with capacity requirements while the former is based upon energy  
18 prices, customers should be able to elect service under both riders. Additionally,  
19 any customer that meets other eligibility requirements should be permitted to  
20 take service under the economic load response program rider rather than limiting  
21 eligibility to customers served under interruptible arrangements as of July 31,  
22 2008.

1 **Q24. Why is the restriction on participation in MISO's demand response options**  
2 **unnecessary?**

3 A24. The optional load response program rider appears to be designed to assist  
4 FirstEnergy in meeting planning reserve requirements under Module E of MISO's  
5 transmission and energy markets tariff. Module E contains a provision that  
6 restricts load modifying resources (i.e., interruptible loads) from being registered  
7 under Module E by more than one market participant. Thus, from a capacity  
8 planning purpose, the restriction is redundant and is addressed by MISO's tariff.

9 With respect to energy usage, there is no reason why FirstEnergy needs to have  
10 exclusive use of an interruptible resource. All FirstEnergy needs to have is first  
11 call on the resource. Thus, for example, if a customer elects service under the  
12 proposed optional load response program rider, in which FirstEnergy may only  
13 curtail usage under an emergency curtailment event, the customer should be  
14 allowed to take advantage of economic interruption opportunities that may arise  
15 through MISO.

16 **VII. PARTIAL SERVICE AND COGENERATION**

17 **Q25. Does FirstEnergy's application include partial service and cogeneration**  
18 **rate schedules similar to those currently in place?**

19 A25. No, it does not. The application lists these schedules as outside of the scope of  
20 the application.

1 **Q26. Do you believe that the partial service and cogeneration schedules should**  
2 **be included as part of the ESP?**

3 A26. Absolutely. Given that cogeneration is among the customer-sited options that  
4 can fulfill the alternative energy resource portfolio obligations, it is crucial that  
5 partial service and cogeneration schedules not create barriers toward utilization  
6 of these options.

7 **Q27. What changes should be made to the currently existing partial service and**  
8 **cogeneration schedules in the context of the ESP?**

9 A27. My recommended changes are twofold. First, reservation demand charges  
10 should be dramatically reduced under the schedules to reflect a recognition that  
11 backup energy can normally be obtained from RTO power markets. Second, the  
12 avoided cost power purchased rates should be updated to reflect present day  
13 realities.

14 My recommendation is for EDUs to provide both partial service and avoided cost  
15 purchases based upon a pass-through of energy costs reflected in hourly RTO  
16 energy markets. Under this approach, there would be no demand charge for  
17 standby, supplemental or maintenance power so long as usage was not  
18 coincident with system peak. Standby, supplemental or maintenance power  
19 would reflect a pass-through of the applicable hourly RTO locational marginal  
20 prices for energy. Avoided cost purchases would also be made at the applicable  
21 hourly RTO locational marginal prices for energy for symmetry.

1   **VIII. CONCLUSION**


2   **Q28. Does this conclude your testimony?**

3   **A28. Yes, it does. However, I reserve the right to submit supplemental testimony.**



## **CERTIFICATE OF SERVICE**

I hereby certify that a copy of the foregoing *Direct Testimony of Kevin M. Murray* was served upon the following parties of record this 29<sup>th</sup> day of September 2008, via electronic transmission, hand-delivery or first class mail, postage prepaid.



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