BEFORE THE PUBLIC UTILITIES COMMISSION OF OHIO

In the Matter of the Application of Ohio)	
Edison Company, The Cleveland Electric)	Case No. 14-1297-EL-SSO
Illuminating Company and the Toledo)	
Edison Company for Authority to Provide)	
for a Standard Service Offer Pursuant to)	
R.C. 4928.143 in the Form of an Electric)	
Security Plan)	

SUPPLEMENTAL DIRECT TESTIMONY OF CHERYL ROBERTO ON BEHALF OF ENVIRONMENTAL DEFENSE FUND AND OHIO ENVIRONMENTAL COUNCIL

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COUNSEL FOR OHIO ENVIRONMENTAL COUNCIL & ENVIRONMENTAL DEFENSE FUND

1		I. <u>INTRODUCTION</u>
2	Q.	PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.
3	A.	My name is Cheryl Roberto. My business address in 1145 Chesapeake Ave., Suite I,
4		Columbus, OH 43212.
5	Q.	ARE YOU THE SAME CHERYL ROBERTO WHO PREVIOUSLY FILED
6		DIRECT TESTIMONY IN THIS PROCEEDING?
7	A.	Yes.
8	Q.	ON WHOSE BEHALF ARE YOU FILING THIS SUPPLEMENTAL DIRECT
9		TESTIMONY?
10	A.	I am filing this supplemental direct testimony on behalf of the Environmental Defense
11		Fund ("EDF") and the Ohio Environmental Council ("OEC"), intervenors in this case.
12	Q.	WHAT IS THE PURPOSE OF YOUR SUPPLEMENTAL DIRECT TESTIMONY?
13	A.	The Commission issued an Opinion and Order in Case No. 13-2385-EL-SSO on February
14		25, 2015, approving AEP Ohio's Electric Security Plan. In that case, AEP Ohio proposed
15		a non-competitive purchase agreement similar to the Economic Stability Program
16		proposed by Ohio Edison Company, The Cleveland Electric Illuminating Company and
17		The Toledo Edison Company ("the Companies"). The Commission declined to approve
18		AEP's non-competitive purchase proposal, but listed several factors which might lead it
19		to approve cost recovery for such non-competitive purchase agreements in the future.
20		My testimony will address these factors as they apply to the Companies' Economic
21		Stability Program.
22 23		II. <u>DISCUSSION OF FACTORS FOR APPROVAL OF</u> NON-COMPETITIVE PURCHASE AGREEMENTS

I	Q.	WHAT ARE THE FACTORS WHICH MIGHT LEAD THE COMMISSION TO
2		APPROVE COST RECOVERY FOR NON-COMPETITIVE PURCHASE
3		AGREEMENTS SUCH AS THE COMPANIES' ECONOMIC STABILITY
4		PROGRAM?
5	A.	At page 25 of its February 25, 2015 Opinion and Order in the AEP Ohio case, the
6		Commission listed the following factors: 1) financial need of the generating plant; 2)
7		necessity of the generating facility, in light of future reliability concerns, including supply
8		diversity; 3) a description of how the generating plant complies with all pertinent
9		environmental regulations and its plan for compliance with pending environmental
10		regulations; and 4) the impact that a closure of the generating plant would have on
11		electric prices and the resulting effect on economic development within the state.
12	Q.	PLEASE COMMENT ON THE FIRST FACTOR – THE FINANCIAL NEED OF
13		THE GENERATING PLANT AS IT RELATES TO THE PRESENT CASE.
14	A.	The Commission did not give any guidance on how this first factor should be applied.
15		Inclusion of this "need-based" factor, however, appears to be an implicit
16		acknowledgement by the Commission that the request is a subsidy intended to prop up
17		generation that would otherwise not survive in the competitive wholesale market. In
18		evaluating the "need" itself, it is important to keep in mind that the evaluation is to be
19		conducted of the financial health of the regulated utility's competitive sister company,
20		not the regulated utility. As such, in the present case, I suggest the appropriate test for
21		need is whether FirstEnergy, the parent company, is unable to, not simply unwilling to,
22		maintain the generation facility. It would be difficult for the Commission to find an
23		actual need if FirstEnergy, the parent, is able, but unwilling to prop up its corporate child

with a subsidy. If FirstEnergy and its shareholders are able but unwilling to subsidize the		
plant, then it suggests that there is not truly a financial need. There is no public policy		
purpose that would support carving out and subsidizing, through regulated utility tariffs,		
the operation of a single economically failing competitive facility when the entire		
enterprise as a whole remains profitable. Finally, even if FirstEnergy the corporate		
parent were unable to assist its corporate child, such a subsidy is anathema to the		
competitive market to which Ohio has committed itself. As such, I recommend that in		
considering this factor the Commission explicitly balance impacts upon the wholesale		
market of the out of market payments for generation against any consideration of need.		
While FirstEnergy, the parent, presented no evidence of financial need, its annual report		
shows that it has \$12.4 billion in shareholder equity, so FirstEnergy is clearly able to pay		
to keep these plants open. ¹ This first factor should not cause the Commission to approve		
the Economic Stability Program for the reasons I outlined above and for the reasons		
stated in my direct testimony.		
PLEASE COMMENT ON THE SECOND FACTOR – THE NECESSITY OF THE		

Q. PLEASE COMMENT ON THE SECOND FACTOR – THE NECESSITY OF THE GENERATING FACILITY, IN LIGHT OF FUTURE RELIABILITY CONCERNS, INCLUDING SUPPLY DIVERSITY – AS IT RELATES TO THE PRESENT CASE.

A. The Commission should not approve the Economic Stability Program based on the second factor. I addressed reliability in my direct testimony. As I discussed, the issue of reliability is a red herring because the Companies are not responsible for resource adequacy. Instead, PJM has this responsibility. If PJM determines that these plants are

 $^{^{1}} A vailable \ at \ \underline{https://www.firstenergycorp.com/content/dam/investor/files/annual-reports/2014/2014-FirstEnergy-Annual-Report.pdf.}$

needed for reliability reasons, then PJM could implement a must-run arrangement to keep
the plants open. Moreover, this would be the better approach for the Companies'
customers. If the plants are truly needed for regional reliability, a must-run arrangement
would be available only for so long as necessary to alleviate any concern. It would not
lock ratepayers into long-term support of an uneconomic facility.

A.

Q. IN HIS SUPPLEMENTAL TESTIMONY, MR. MOUL STATES THAT FOR RELIABILITY BENEFITS SAMMIS AND DAVIS-BESSE ARE SUPERIOR TO ALTERNATIVES THE PJM MARKET WILL PRODUCE. HOW DO YOU RESPOND?

Mr. Moul is overstating the reliability benefits of these units. Mr. Moul states that baseload plants with on-site fuel, in the case of Sammis, coal, and with Davis-Besse, uranium, are capable of running continuously for long periods and withstanding extreme events. When put to the test of the Polar Vortex on January 7, 2014, 13,700 MW of coalfired generation failed to deliver as a result of "forced outages"; i.e. out of service when it had been committed. Nuclear plants were not immune either when in during the same event 1,400 MW of nuclear generation failed. During that same event, 9,700 MW of natural gas fueled plants failed to deliver.² The fact is that no type of generation is immune. Additionally, Mr. Moul quotes Company witness Phillips for the proposition that new transmission is no substitute for generation located in close proximity to load. If the Commission wishes to encourage diversity of supply within Ohio near the load, it could choose any number of competitive mechanisms to accomplish this. For instance, in procuring supply on behalf of default service customers, the Commission could direct the

² Analysis of Operational Events and Market Impacts During the January 2014 Cold Weather Events (PJM Interconnection, May 8, 2014).

1		Companies to seek requests for proposal for specific types of resources, including
2		distributed generation such as combined heat and power or rooftop solar. It could also
3		design a procurement process, such as in Illinois ³ that procures energy efficiency as a part
4		of the portfolio for diversity.
5	Q.	IN HIS SUPPLEMENTAL TESTIMONY, MR. MOUL STATES THAT A MUST-
6		RUN ARRANGEMENT IS NOT A VIABLE ALTERNATIVE FROM AN
7		ECONOMIC OR FROM A RELIABILITY PERSPECTIVE. HOW DO YOU
8		RESPOND?
9	A.	I disagree with Mr. Moul's conclusions. Mr. Moul states that a must-run arrangement is
10		not viable because it is a stop-gap measure, in that it is only in place until new
11		transmission is constructed. This is precisely why the Commission should allow PJM to
12		implement a must-run arrangement if necessary. The Economic Stability Program would
13		require the Companies' customers to pay for the plants for fifteen years, while a must-run
14		agreement would be in effect for a much shorter time period, until the new transmission
15		is in place. None of the arguments advanced by the Companies support locking
16		customers into a long-term contract which, in the best of circumstances, is a money loser
17		in the initial years.
18	Q.	MR. MOUL ALSO STATES THAT A MUST-RUN ARRANGEMENT IS NOT
19		APPROPRIATE FROM A RELIABILITY STANDPOINT BECAUSE IT WILL
20		COST CUSTOMERS, IT WON'T PROVIDE THE ECONOMIC BENEFITS OF
21		KEEPING THE PLANTS OPEN, AND THERE'S NO SUBSTITUTE FOR

³ Illinois Power Agency, *2015 Electricity Procurement Plan*, (September 29, 2014) at pp. 68-99. Available at http://www.icc.illinois.gov/docket/files.aspx?no=14-0588&docId=228565

I		HAVING PLANTS LOCATED NEAR THE LOAD THEY SERVE. HOW DO
2		YOU RESPOND?
3	A.	I disagree. PJM is responsible for managing reliability and it successfully uses must-run
4		arrangements when plants are needed for reliability. Mr. Moul correctly states that
5		customers would need to pay for the new transmission which would be built to replace
6		the plants. But the point of building new transmission is to allow customers to be served
7		by more efficient power plants, which would lower customers' supply costs. I respond
8		elsewhere in my testimony to Mr. Moul's point about the economic benefits of keeping
9		the plants open and location of generation near load.
10		
11	Q.	PLEASE COMMENT ON THE THIRD FACTOR – WHETHER THE
12		GENERATING PLANTS COMPLY WITH ENVIRONMENTAL REGULATIONS
13		– AS IT RELATES TO THE PRESENT CASE.
14	A.	I addressed this in my direct testimony. As I discussed, Mr. Moul testified that the
15		plants' economic vitality is in doubt because market-based revenues for energy and
16		capacity have been at historic lows and do not cover the costs of making the necessary
17		investments and operating the plants. I also discussed how FirstEnergy admitted in its
18		Annual Report that environmental and market conditions are so uncertain that it cannot
19		be determined whether its plants will be profitable over the long term. The Commission
20		therefore should not approve the Economic Stability Program based on this factor.
21	Q.	PLEASE COMMENT ON THE FOURTH FACTOR – THE IMPACT THAT THE
22		PLANTS' CLOSURE WOULD HAVE ON ELECTRIC PRICES AND THE

RESULTING EFFECT ON ECONOMIC DEVELOPMENT IN THE STATE – AS IT RELATES TO THE PRESENT CASE.

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The Commission should not approve the Companies' proposed Economic Stability Program based on the fourth factor. As I discussed in my direct testimony, the Economic Stability Program would subsidize the continued operation of these plants. Any subsidy would harm the regional wholesale market because it would tend to drive away other plant operators who do not receive subsidies for their plants. Driving away competition through uncertainty (whether certain operators will receive anti-competitive subsidies) would tend to result in higher prices over the long run. Moreover, the Companies' customers would also pay higher prices because they would have to pay for the subsidies. The Companies argue that keeping the plants open would have some economic development benefits. But this argument is not persuasive because the Companies' analysis only accounts for the alleged benefits of keeping the plants open. The Companies' economic development analysis does not appear to account for: (1) the economic harm caused by forcing customers to pay higher electricity prices arising from the subsidies; (2) the economic harm caused by distorting the wholesale market, and driving away competitors who choose not to participate because of the anti-competitive subsidies available to certain favored companies; or (3) the economic benefits which would arise from the new plants which might be built, or the energy efficiency programs which might be implemented, if these plants shut down due to market forces.

As I discussed above, the Companies argue that these plants are needed for reliability reasons, and propose that the Companies' customers should pay to keep the plants running. But PJM is responsible for maintaining reliability of electricity supply. If

PJM determines that the plants are needed for regional reliability reasons, then PJM can implement a must-run arrangement tailored to the length of time the reliability concern exists, rather than the long-term arrangement proposed by the Companies. If the Commission were to approve the Companies' long-term proposal, the cost of electricity would be higher in the Companies' service territories than would occur if the Commission would allow PJM to resolve this matter and to enter into an must-run arrangement only for so long as the reliability concern exists. The Companies' proposal would harm economic development by imposing higher electricity costs on the residents and businesses within the Companies' service territories, relative to allowing PJM to resolve the matter.

DO YOU HAVE ANY RECOMMENDATIONS REGARDING AN

Q.

A.

INDEPENDENT ANALYSIS OF THE ECONOMIC STABILITY PROGRAM?

Yes. At page 25 of the Opinion and Order in the AEP ESP case, the Commission reserved the right to require a study by an independent third party, selected by the Commission, of reliability and pricing issues related to AEP's proposal. I recommend that the Commission reject the Companies' Economic Stability Proposal; however, if the Commission is inclined to grant the proposal, it should first hire an independent third party to study the reliability and pricing issues. As the AEP case and this case both demonstrate, the parties' analyses of the pricing issues diverge greatly. I recommend that the Commission hire an independent expert to do this analysis due to: (1) the amount of money FirstEnergy's customers are being asked to pay to support these plants; (2) the long-term nature of the proposal; and (3) the fact that the economic analysis rests on so many projections of future conditions.

Q. DO YOU HAVE ANY OTHER RECOMMENDATIONS REGARDING THE

COMMISSION'S CONSIDERATION OF THE ECONOMIC STABILITY

PROGRAM?

A. Yes. I continue to support the recommendations I made in my direct testimony. In addition, I note that when the Commission listed the four factors in the AEP decision which it would consider when deciding whether to approve a non-competitive purchase agreement, the Commission noted that these were the factors it would consider "at a minimum." I recommend that the Commission consider an additional factor in deciding whether to approve a non-competitive purchase agreement – whether the Companies have also taken all possible steps in managing their electric distribution systems to help provide generation price stability; including but not limited to integrated volt/var control and other means of grid optimization.

Q. HAVE THE COMPANIES TAKEN ALL POSSIBLE STEPS IN MANAGING

THEIR ELECTRIC DISTRIBUTION SYSTEMS TO HELP PROVIDE

GENERATION PRICE STABILITY?

A. No. The Companies have not attempted to make all possible cost-effective energy efficiency programs available to customers. This is important because in many cases, energy efficiency programs could be delivered at a lower cost than providing additional generation resources. The Companies have also failed to open their billing system to allow third parties to finance energy efficiency programs. I discussed this at length in my direct testimony. It is ironic that utilities are always ready, willing and able to open up their billing systems for non-regulated offerings by the utility or its affiliates. We never hear any complaints that the utility's billing system is too complex and too costly to

modify for these offerings. But when a third party wants to use the utility's billing system, the utility always argues that this would be more complex and more costly than sending a spaceship to Mars.

I also recommend that the Companies should implement all cost-effective

Integrated Volt/VAR Control ("IVCC") before the Commission considers approving a
non-competitive purchase agreement.

Q. PLEASE EXPLAIN WHAT IVCC IS.

Α.

IVVC involves the management of various electric distribution system assets and advanced control technologies to "right-size" the voltage delivered to end-use electric customers. IVVC can be used to reduce overall voltage levels, while ensuring these voltages remain within acceptable standards for electric distribution. Reductions in distribution system voltage have been demonstrated to result in reductions in energy consumption across the electric circuits on which these are applied. For example, in a September 2014 report published by the U.S. Department of Energy ("U.S. DOE") on Duke Energy's smart grid investments entitled "Integrated Smart Grid Provides Wide Range of Benefits in Ohio and the Carolinas," which found that IVCC consistently achieved 2% voltage reduction on over 200 Ohio distribution circuits where IVVC was deployed, reducing system losses and fuel costs for Duke's power generation. This report indicates that Duke has installed IVCC across 77% of its circuits in Ohio and the Carolinas.

AEP filed a report in its gridSMART case (Case No. 13-1939-EL-RDR) on September 13, 2013 which explained IVVC (also known as Volt/VAR Optimization) as follows:

⁴ (available at: http://www.energy.gov/sites/prod/files/2014/10/f18/DukeEnergy-SGIG-casestudy-Sep2014.pdf)

Efficiency Benefits

AEP Ohio's gridSMART® Phase 2 VVO [Volt/VAR Optimization] is designed to realize a reduction in energy consumption where deployed, and a reduction in peak demand on circuits where VVO is deployed. Voltage standards exist in the electric utility industry, such as ANSI C84.1, that mandate an acceptable voltage range at the secondary of the distribution transformer. VVO enables a reduction of the average voltage that each customer on the circuit receives, thereby reducing the annual energy consumption of the feeder while maintaining the quality of service to the end-use customer. Based on results obtained through field demonstrations, AEP Ohio estimates that a 3 percent reduction in energy consumption and a 2 to 3 percent reduction in peak demand can be obtained on those circuits on which the technology is deployed.

Other Benefits

Along with the expected efficiency benefits, the technology associated with VVO also provides VAR support, offsetting the need for Generation and Transmission resources to provide VARs. VVO also promotes a "self-healing" grid by maintaining acceptable voltages after a "self-healing" event has occurred. The technology required for VVO will also augment other technologies to improve visibility into system performance and circuit automation.

Electric customers across circuits with active IVVC management and lower voltage levels typically consume less energy without needing to make changes to their individual consumption behavior. Investments in IVVC technology and grid modernization can result not only in energy reductions, but also may provide additional visibility and operational flexibility in responding to a variety of dynamic system conditions. Before the Commission considers approving a non-competitive purchase agreement, it should require the Companies to submit a cost/benefit analysis for all cost-effective IVVC on the Companies' distribution systems, and to obtain Commission approval for implementing the same. This would probably be a much more cost-effective

1		and cleaner method of providing for generation price stability. It is also important to note
2		that the emissions reductions obtained through IVCC could possibly be used as a
3		compliance tool under the Clean Power Plan. This could provide an economic
4		development benefit by lowering compliance costs.
5		III. <u>CONCLUSION</u>
6	Q.	DOES THIS CONCLUDE YOUR PRE-FILED SUPPLEMENTAL DIRECT
7		TESTIMONY?
8	A.	Yes.

CERTIFICATE OF SERVICE

I hereby certify that a true copy of the foregoing has been served upon the following parties by electronic mail this 11th/day.of/May, 2015.

/s/Trent A. Dougherty Trent A. Dougherty

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