BEFORE THE PUBLIC UTILITIES COMMISSION OF OHIO

In the Matter of the Application of)	
Ohio Power Company for Authority to)	Case No. 13-2385-EL-SSO
Establish a Standard Service Offer)	
Pursuant to §4928.143, Revised Code,)	
in the Form of an Electric Security Plan)	
)	
In the Matter of the Application of)	
Ohio Power Company for Approval of)	Case No. 13-2386-EL-AAM
Certain Accounting Authority)	

NOTICE OF ERRATA RE: DIRECT TESTIMONY OF CHERYL ROBERTO

PLEASE TAKE NOTICE that the Direct Testimony of Cheryl Roberto, filed on May 6, 2014, is hereby being revised to correct an inadvertent error that occurred during the electronic scanning of the document for filing. The pages 6-8 of Ms. Roberto's testimony were inadvertently omitted, and are hereby corrected in the revised Direct Testimony attached to this notice.

Dated: May 9, 2014

Respectfully Submitted,

/s/ Trent A. Dougherty

Trent Dougherty, Counsel of Record (0079817)
1207 Grandview Avenue, Suite 201
Columbus, Ohio 43212-3449
(614) 487-7506 - Telephone
(614) 487-7510 - Fax
tdougherty@theOEC.org

Counsel for OEC & EDF

BEFORE THE PUBLIC UTILITIES COMMISSION OF OHIO

In the Matter of the Application of Ohio Power Company for Authority to Establish a Standard Service Offer Pursuant to §4928.143, Revised Code, in the Form of an Electric Security Plan))))	Case No. 13-2385-EL-SSO
In the Matter of the Application of Ohio Power Company for Approval of Certain Accounting Authority)))	Case No. 13-2386-EL-AAM

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

Trent Dougherty, **Counsel of Record** (0079817)
1207 Grandview Avenue, Suite 201
Columbus, Ohio 43212-3449
(614) 487-7506 - Telephone
(614) 487-7510 - Fax
tdougherty@theOEC.org

John Finnigan (0018689) Senior Regulatory Attorney Environmental Defense Fund 128 Winding Brook Lane Terrace Park, Ohio 45174 (513) 226-9558 jfinnigan@edf.org

Counsel for the Ohio Environmental Council and Environmental Defense Fund

I. INTRODUCTION

- 2 Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.
- 3 A. My name is Cheryl Roberto. My business address in 1207 Grandview Ave., Suite 201,
- 4 Columbus, OH 43212.
- 5 Q. BY WHOM ARE YOU CURRENTLY EMPLOYED, AND WHAT IS YOUR JOB
- 6 TITLE?

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- 7 A. I am employed by Environmental Defense Fund ("EDF") as Associate Vice President,
- 8 Clean Energy.
- 9 Q. PLEASE BRIEFLY DESCRIBE YOUR EDUCATIONAL BACKGROUND AND
- 10 YOUR RELEVANT PROFESSIONAL EXPERIENCE.
- 11 A. I earned a B.A. in Political Science from Kent State University, a J.D. from the Ohio
- 12 State University Moritz College of Law, and a Certificate of Completion, Strategic
- Management of Regulatory and Enforcement Agencies from Harvard University, John F.
- 14 Kennedy School of Government, Executive Education. In my current position at EDF, I
- lead the national EDF Clean Energy Program. Through regulatory reform and new utility
- incentives, among others, the EDF Clean Energy Program aims to help modernize our
- outdated energy infrastructure, accelerate the deployment of cutting-edge, clean
- technologies into the nation' electric system and break down the regulatory and financial
- barriers to broad-scale adoption of renewable energy, energy efficiency and other
- innovative ways to generate, distribute and use energy. Prior to joining EDF, I served as a
- Commissioner of the Public Utilities Commission of Ohio (PUCO) from 2008 to 2012,
- where I was the lead commissioner for PUCO's partnership with the United States
- Department of Energy combined heat and power pilot project. Also I served as Co-Chair

1 of the 2012 National Electricity Forum, which centered on envisioning an intelligent, 2 interactive and resilient electric grid. 3 O. ON WHOSE BEHALF ARE YOU TESTIFYING? 4 A. I am testifying on behalf of EDF and the Ohio Environmental Council ("OEC"), 5 intervenors in this case. 6 WHAT IS THE PURPOSE OF YOUR TESTIMONY? Q. 7 The purpose of my testimony is to: (i) review the Company's gridSMART Phase 2 Rider; A. 8 and (ii) review the Company's Economic Development Rider. 9 II. **GRIDSMART PHASE 2** ARE YOU FAMILIAR WITH THE COMPANY'S GRIDSMART PHASE 1 10 Q. 11 PROGRAM? Yes. I served on the Commission when this program was approved and when the 12 A. 13 Company started to implement the program. I have also read the Company's status 14 report on gridSMART Phase 1, which it filed with its application in Case No. 13-1939-EL-RDR. 15 WHAT IS YOUR OPINION OF THE GRIDSMART PHASE 1 PROGRAM? 16 Q. The program has been a success. The Company managed to install the equipment 17 A. without major disruptions for its business or for customers. The equipment appears to be 18 working as intended and this occurred because the storage equipment had not been 19 20 widely used in outdoor conditions and did not function well when subjected to the 21 weather. The Company has demonstrated a very high level of technical and managerial

expertise in managing this program.

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1	Q.	ARE YOU FAMILIAR WITH THE COMPANY'S PROPOSAL REGARDING
2		GRIDSMART PHASE 2?
3	A.	Yes. I have reviewed the Company's application in Case No. 13-1939-EL-RDR, where

the Company seeks approval of this program. I have also reviewed the testimony of Pablo Vegas, Selwyn Dias, David Roush and Andrea Mitchell in the present proceeding

6 Q. WHAT RECOMMENDATION DO YOU MAKE REGARDING THE

GRIDSMART PHASE 2 PROGRAM?

A.

I recommend that the Commission approve the program subject to certain conditions which I discuss below, regarding the following areas: (1) annual approval process; (2) treatment of operational cost savings; (3) regulatory commitments; (4) performance metrics; (5) deployment of Green Button Connect; (6) implementing a prepaid electric service program; (7) providing public outreach and education; (9) implementing the Volt/VAR proposal; and (9) continuing their dynamic pricing and time-based rate programs. In my opinion, the gridSMART Phase 2 deployment can provide meaningful benefits for customers. The Company demonstrated this in the cost/benefit information it provided in Case No. 13-1939-EL-RDR. In another example of smart grid deployment benefits, Commonwealth Edison recently sought permission to accelerate its smart grid deployment by three years, to complete the deployment in 2018 instead of the currently scheduled date of 2021, and claimed that the accelerated deployment would save customers \$150 million.

Q. WHAT IS YOUR RECOMMENDATION REGARDING THE ANNUAL APPROVAL PROCESS FOR THE GRIDSMART PHASE 2 PROJECT?

I	A.	I recommend that the Commission continue to use an annual update process similar to the
2		process used for gridSMART Phase 1. An example is Case No. 12-509-EL-RDR.
3	Q.	WHAT IS YOUR RECOMMENDATION REGARDING THE TREATMENT OF
4		OPERATIONAL COST SAVINGS FOR THE GRIDSMART PHASE 2
5		PROJECT?
6	A.	I recommend that the Commission require the Company to net the operational cost
7		savings from the Phase 2 deployment against the costs of deployment. This will provide
8		a fair allocation of project benefits between shareholders and ratepayers. The
9		Commission approved a similar approach for Duke Energy's smart grid rider in In the
10		Matter of the Application of Duke Energy Ohio, Inc. to Adjust and Set its Gas and
11		Electric recovery Rate for 2009 SmartGrid Costs Under Rider AU and Rider DR-IM,
12		Case No. 10-867-GE-RDR (Opinion and Order) (March 23, 2011); <i>Id.</i> (Stipulation at ¶
13		14)(February 14, 2011).
14	Q.	WHAT IS YOUR RECOMMENDATION REGARDING REGULATORY
15		COMMITMENTS FOR THE GRIDSMART PHASE 2 PROJECT?
16	A.	In the gridSMART Phase 1 project, the Company made certain commitments relating to
17		real-time pricing, smart appliances, plug-in electric vehicles and plug-in hybrid electric
18		vehicles. I recommend that the Company continue these commitments, and that the size
19		of each commitment from the Phase 1 project should be scaled up by a factor of nine to
20		reflect the larger size of the Phase 2 deployment. The Company stated in its initial
21		gridSMART rider update application that the U.S. Department of Energy required these
22		types of commitments as a condition of the grant to help fund Phase 1. It is reasonable

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that the Company should continue these commitments, scaled up to reflect the larger size

of the Phase 2 deployment. I support the Company's decision in the Phase 1 case to scale
back the community energy storage program due to operational problems, and
recommend that the Company continue to test this technology. If the testing is successful,
the Company should deploy the equipment, scaled up to reflect the larger size of the
Phase 2 deployment.

6 Q. WHAT IS YOUR RECOMMENDATION REGARDING PERFORMANCE

METRICS FOR THE GRIDSMART PHASE 2 PROJECT?

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8 A. I recommend that the Company do annual reporting of performance metrics on the results 9 of Phase 2 deployment. This would help the Commission and other stakeholders to 10 determine: (1) how well the Company is performing on the Phase 2 deployment; and (2) 11 the program's cost-effectiveness. AEP Ohio plans to invest \$465 million on Phase 2, 12 which is a significant sum. The annual rider updates are summary proceedings, conducted 13 without a hearing. It would be reasonable for the Company to self-report, with each 14 annual rider update filing, on various performance metrics related to how the 15 implementation is proceeding. I recommend that the Company work collaboratively 16 with interested stakeholders to develop these performance metrics. A good starting point for these discussions would be the performance metrics adopted for the Commonwealth 17 18 Edison smart grid deployment in Illinois. We filed these performance metrics with the 19 Commission in our Initial Comments in Case No. 13-1939-EL-RDR, filed November 1, 20 2013.

Q. WHAT IS YOUR RECOMMENDATION REGARDING DEPLOYMENT OF GREEN BUTTON CONNECT FOR THE GRIDSMART PHASE 2 PROJECT?

1	A.	The Company's former CEO has stated that AEP will deploy Green Button for its
2		customers. AEP is also listed on the U.S. Department of Energy's website as one of the
3		companies implementing Green Button. I recommend that the Company deploy Green
4		Button in connection with the gridSMART Phase 2 project, including Green Button
5		Connect My Data (Beta), which allows customers to easily share their electricity usage
6		data with CRES providers and other service companies. The Company should also
7		commit to report on the efficacy of Green Button in saving energy for its customers.
8	Q.	WHAT IS YOUR RECOMMENDATION REGARDING IMPLEMENTING A
9		PREPAID ELECTRIC SERVICE PROGRAM FOR THE GRIDSMART PHASE 2
10		PROJECT?
11	A.	In the gridSMART Phase 1 case, the Company agreed not to implement any prepaid
12		metering program through the end of 2011. This time period has now expired. Several
13		other state commissions have approved prepaid electric service pilot programs. A
14		prepaid electric service program using the new advanced meters and in-home displays
15		would be an innovative new service that could help customers save energy. The
16		Company should commit to work with the gridSMART collaborative to design a pilot
17		program to determine whether this would be another effective use for this new smart grid
18		technology. The program should be implemented as part of the next gridSMART rider
19		update filing.
20	Q.	WHAT IS YOUR RECOMMENDATION REGARDING PROVIDING PUBLIC
21		OUTREACH AND EDUCATON FOR THE GRIDSMART PHASE 2 PROJECT?
22	A.	I recommend that the Company should commit to work with the gridSMART
23		collaborative to develop a public outreach and education plan. The Company is

experienced in managing public outreach and education from the Phase 1 deployment, but it would be helpful to develop a plan for how this will be handled for the Phase 2 deployment.

A.

PROJECT?

Q. WHAT IS YOUR RECOMMENDATION REGARDING IMPLEMENTING THE COMPANY'S VOLT/VAR PROPOSAL FOR THE GRIDSMART PHASE 2

The Company has successfully implemented a Volt VAR Optimization program with Phase 1, and reported that it has received a 3% energy savings and a 2-3% reduction in peak demand on circuits where Volt VAR equipment was deployed. The Company proposed in its application for approval of gridSMART Phase 2 to invest \$20 million for Volt VAR Optimization in Phase 2, to satisfy a refund obligation from its excess earnings case to invest this amount in a project benefitting customers. The Company also proposed to invest an additional \$20 million in this program "if appropriate for energy efficiency benchmark compliance." I generally support the concept of the full \$40 million investment in Volt VAR equipment; subject to the Company submitting a cost/benefit analysis for this investment. In addition, the Company should commit to using the energy savings and reduction in peak demand to bid into PJM's forward capacity auction and credit the resulting revenues to customers.

I do not support allowing the Company to use the savings from the Volt/VAR

Optimization program to qualify for recovery of distribution lost revenues and shared savings. To the extent those savings are achieved on the utility-side of the meter, they are analogous to transmission and distribution savings, which can be counted toward compliance with the benchmarks but are not eligible for shared savings.

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2.	COMPANY'S DYNAMIC PRICING AND TIME-BASED RATE PROGRAMS

FOR THE GRIDSMART PHASE 2 PROJECT?

A. I recommend that the Company continue its current dynamic pricing and time-based rate programs. The Company introduced these rates as part of its regulatory commitments in connection with gridSMART Phase 1. The Company filed an application to cancel these rates in Case No. 13-1937-EL-RDR. In the Commission's March 26, 2014 Finding and Order in Case No. 12-3151-EL-COI), the Commission stated that utilities which have deployed smart meters should continue to offer time-based rate programs.

10 Q. WHAT IS YOUR RECOMMENDATION REGARDING PROVIDING ACCESS 11 TO USAGE DATA FOR CRES PROVIDERS?

A. I recommend that the Company work collaboratively with Commission Staff and other industry stakeholders to provide electricity usage data to CRES providers which would enable them to offer dynamic pricing and time-based rate programs. In Case No. 12-150-EL-COI, CRES providers identified lack of usage data and lack of access to the utility's billing system as barriers which prevent them from offering dynamic pricing and time-based rate programs. In the Commission's March 26, 2014 Finding and Order in Case No. 12-3151-EL-COI), the Commission ordered the establishment of a working group to resolve these issues. I am confident that the Company will work constructively within this collaborative process to resolve these issues.

III. ECONOMIC DEVELOPMENT RIDER

1	Q.	DO YOU HAVE ANY RECOMMENDATIONS REGARDING THE COMPANY'S
2		PROPOSAL FOR AN ECONOMIC DEVELOPMENT RIDER AS DESCRIBED
3		IN COMPANY WITNESS SPITZNOGLE'S TESTIMONY?
4	A.	Yes. I have reviewed Mr. Spitznogle's testimony and I generally support this proposal.
5		As I understand it, this rider is used to recover the costs of the subsidy when the
6		Company offers discounted electricity through unique arrangements with select
7		customers. However, I recommend that prior to seeking recovery the Company be
8		required to undertake good faith efforts to reduce the costs to be recovered from all
9		customers through the deployment of all cost-effective energy efficiency measures for
10		which the investment would be recovered during the term of the unique arrangement at
11		the facilities of the customers enjoying the discounted electricity The customer should
12		commit the energy efficiency programs toward the Company's compliance with the
13		energy efficiency standards.
14	Q.	WHY SHOULD THE UNIQUE ARRANGEMENT CUSTOMERS BE REQUIRED
15		TO MAKE THIS COMMITMENT?
16	A.	The unique arrangements customer receives the benefit of subsidized rates without any
17		obligation to try to use the electricity sensibly. The customer isn't required to make any
18		commitments regarding the manner in which they use their energy. The unique
19		arrangements customer can use the cost savings from the lower electricity rates to benefit
20		their owners/shareholders, while the other customers who pay the subsidy receive no
21		benefit. For example, in 2011 the Commission approved a ten-year unique arrangement
22		between the Company and Timken in Case No. 10-3066-EL-AEC. From my review of
23		publicly available information, I can find no evidence that Timken was required to make

any commitments regarding its use of energy at its Ohio steel facilities. Yet the lower electricity prices paid by Timken under this unique arrangement allowed Timken to flow benefits back to its shareholders. For example, in February 2014, Timken announced a 9% increase in its quarterly dividend to \$0.25 per quarter (http://news.timken.com/index.php?s=12504&item=136842).

This was a missed opportunity for the Company, its customers, and long-term for Timken. Does it make more sense to give a man a fish to feed him for a day or teach him to fish to feed him for a lifetime? Energy efficiency is extremely cost-effective. A March 2014 study by the Lawrence Berkeley National Laboratory ("LBNL"), which reviewed 1,700 energy efficiency programs in 31 states over a three-year period, found that the average cost for procuring the energy efficiency savings was 2.1¢ per kilowatt-hour. A 1999 LBNL study reviewed the steel industry's current manufacturing practices and found that steelmakers could reduce their energy usage by 18% and also reduce their greenhouse gas emissions by 19% by adopting cost-effective energy efficiency programs (http://eetd.lbl.gov/newsletter/nl02/eetd-nl02-7-steel.html). In the case of Timken, it receives a 15% discount (but potentially up to 25% discount) on its electricity bill through the subsidy while investment in cost-effective energy efficiency with a payback within the time frame of its unique arrangement could provide a long-term reduction in its overall energy needs.

Requiring unique arrangements customers to deploy all cost-effective energy efficiency can benefit the Company and its other customers by reducing the costs of this rider, lowering wholesale electricity costs, and providing cost-effective greenhouse gas reductions which could potentially be credited toward soon-to-be-issued carbon standards

for existing fossil-fuel generation facilities. To the extent that energy efficiency
programs have a wholesale price suppression impact, customers benefit in this manner.

To the extent that the energy efficiency programs would be associated with lower
greenhouse gas emissions for the customer's manufacturing operations, this may be
available as a compliance option for Ohio's compliance with the U.S. EPA's upcoming
rules on carbon emissions from existing fossil-fuel plants, which will be issued next
month.

8 Q. DOES THIS CONCLUDE YOUR PRE-FILED DIRECT TESTIMONY?

9 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 9th day of May, 2014.

Frent Doughert

Steven T. Nourse
Matthew J. Satterwhite
American Electric Power Service
Corporation
1 Riverside Plaza, 29th Floor
Columbus. OH 43215
stnourse@aep.com
msatterwhite@aep.com

Barth E. Royer
Bell & Royer Co., L.P.A.
33 South Grant Ave.
Columbus, OH 43215-3927
BarthRoyer@aol.com

Gary A. Jeffries
Dominion Resources Services
501 Martindale Street, Suite 400
Pittsburgh, PA 15212
Gary.A.Jeffries@dom.com

Rocco D'Ascenzo
Assistant General Counsel
Duke Energy Ohio, Inc.
139 East Fourth Street
1303-Main
Cincinnati, Ohio 45202
rocco.d'ascenzo@duke-energy.com

Philip B. Sineneg Thompson Hine LLP 41 South High Street, Suite 1700 Columbus, OH 43215 Philip.Sineneng@thompsonhine.com

William Wright
Assistant Attorney General
Public Utilities Commission of Ohio
180 East Broad Street, 6th Floor
Columbus, Ohio 43215
William.wright@puc.state.oh.us

Samuel C. Randazzo
Joseph E. Oliker
Frank P. Darr
Matthew R. Pritchard
McNees Wallace & Nurick LLC
21 East State Street, 17th Floor
Columbus. Ohio 43215
sam@mwncmh.com
joliker@mwncmh.com
joliker@mwncmh.com
mpritchard@mwncmh.com
mpritchard@mwncmh.com

Maureen R. Grady Ohio Consumers' Counsel 10 W. Broad Street Suite 1800 Columbus, OH 43215-3485 grady@occ.state.oh.us Michael L. Kurtz
David F. Boehm
Boehm, Kurtz & Lowry
36 East Seventh Street, Suite 1510
Cincinnati, Ohio 45202
mkurtz@BKLIawfirm.com
dboehm@BKLIawfirm.com

Colleen L. Mooney
Cathryn N. Loucas
Ohio Partners for Affordable Energy
231 West Lima Street
Findlay, OH 45840
cmooney@ohiopartners.org
cloucas@ohiopartners.org

Vincent Parisi
Lawrence Friedeman
Matthew White
Interstate Gas Supply
6100 Emerald Parkway
Dublin, Ohio 43016
vparisi@igsenergy.com
Ifriedeman@igsenergy.com
mswhite@igsenergy.com

Mark Hayden
Jacob A. McDermott
Scott J. Casto
First Energy Service Corp.
76 South Main Street
Akron, OH 44308
haydenm@firstenergycorp.com
jmcdermott@firstenergycorp.com
scasto@firstenergycorp.com

Thomas J. O'Brien Bricker & Eckler LLP 100 South Third Street Columbus, OH 43215 tobrien@bricker.com dborchers@bricker.com Stephanie M. Chmiel THOMPSON HINE LLP 41 S. High Street, Suite 1700 Columbus, Ohio 43215 Stephanie.Chmiel@ThompsonHine.com

Gregory J. Poulos ENERNOC, INC. 471 E. Broad Street, Suite 1520 Columbus, Ohio 43215 gpoulos@enernoc.com

J. Thomas Siwo BRICKER & ECKLER LLP 100 South Third Street Columbus, Ohio 43215-4291 tsiwo@bricker.com

Nicholas McDaniel (0089817) ELPC 1207 Grandview Avenue, Suite 201 Columbus, Ohio 43212 NMcDaniel@elpc.org

Lisa M. Hawrot SPILMAN THOMAS & BATTLE, PLLC Century Centre Building 1233 Main Street, Suite 4000 P.O. Box 831 Wheeling, WV 26003-8731 lhawrot@spilmanlaw.com

Derrick Price Williamson SPILMAN THOMAS & BATTLE, PLLC 1100 Bent Creek Blvd., Suite 101 Mechanicsburg, PA 17050 dwilliamson@spilmanlaw.com

Steve W. Chriss WAL-MART STORES, INC. 2001 SE 10th Street Bentonville, AR 72716-0550 Stephen.Chriss@walmart.com Samantha Williams
NATURAL RESOURCES DEFENSE
COUNCIL
20 N. Wacker Drive, Suite 1600
Chicago, IL 60606
swilliams@nrdc.org

Michael R. Smalz OHIO POVERTY LAW CENTER 555 Buttles Avenue Columbus, Ohio 43215-1137 msmalz@ohiopovertylaw.com

Peggy P. Lee SOUTHEASTERN OHIO LEGAL SERVICES 964 E. State Street Athens, Ohio 45701 plee@oslsa.org

Joseph M. Clark
DIRECT ENERGY
21 East State Street, 19th Floor
Columbus, Ohio 43215
joseph.clark@directenergy.com

M. Howard Petricoff
Gretchen L. Petrucci
VORYS, SATER, SEYMOUR AND
PEASE LLP
52 East Gay Street
P.O. Box 1008
Columbus, Ohio 43216-1008
mhpetricoff@vorys.com
glpetrucci@vorys.com

David I Fein EXELON CORPORATION 10 South Dearborn Street, 47th Floor Chicago, IL 60603 david.fein@exeloncorp.com

Cynthia Fonner Brady Assistant General Counsel EXELON BUSINESS SERVICES COMPANY 4300 Winfield Road Warrenville, IL 60555 cynthia.brady@constellation.com

Lael Campbell EXELON 101 Constitution Avenue, NW Washington, DC 20001 Lael.Campbell@constellation.com

Richard Sites Ohio Hospital Association 155 E. Broad Street, 15th FL Columbus, OH 43215 <u>ricks@ohanet.org</u>

Mark A. Whitt
Andrew J. Campbell
Gregory Williams
Whitt Sturtevant LLP
86 East Broad Street
Columbus, OH 43215
whitt@whitt-sturtevant.com
campbell@whitt-sturtevant.com
williams@whitt-sturtevant.com

Kimberly W. Bojko
Mallory Mohler
Carpenter Lipps & Leland LLP
280 North High Street, Suite 1300
Columbus, OH 43215
Bojko@carpenterlipps.com
mohler@carpenterlipps.com

Judi L. Sobecki
The Dayton Power & Light Company
1065 Woodman Drive
Dayton, OH 45432
Judi.sobecki@aes.com

Mark S. Yurick
Zachary D. Kravitz
Taft Stettinius & Hollister LLP
65 E State Street, Suite 1000
Columbus, OH 43215
myurick@taftlaw.com
zkravitz@taftlaw.com

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Summary: Notice Notice of Errata Re: Direct Testimony of Cheryl Roberto electronically filed by Mr. Trent A Dougherty on behalf of Ohio Environmental Council and Environmental Defense Fund