

**BEFORE
THE PUBLIC UTILITIES COMMISSION OF OHIO**

In the Matter of the Application of Ohio)	
Edison Company, The Cleveland Electric)	
Illuminating Company, and The Toledo)	Case Nos.12-2190-EL-POR
Edison Company For Approval of Their)	12-2191-EL-POR
Energy Efficiency and Peak Demand)	12-2192-EL-POR
Reduction Program Portfolio Plans for 2013)	
through 2015)	

**SUPPLEMENTAL TESTIMONY
OF
DYLAN SULLIVAN
ON BEHALF OF THE
NATURAL RESOURCES DEFENSE COUNCIL**

TABLE OF CONTENTS

I:	Introduction	3
II:	The Plan is Not Designed to Meet the Energy Efficiency Benchmarks	4
III:	Conclusion	7

1 **I: Introduction**

2 **Q: What is your name, address, and position?**

3 A: My name is Dylan Sullivan. My business address is 2 North Riverside Plaza, Suite 2250,
4 Chicago, Illinois 60606. I am employed by the Natural Resources Defense Council
5 (“NRDC”) as a Staff Scientist.

6 **Q: Are you the same Dylan Sullivan who earlier gave Direct Testimony in this proceeding?**

7 A: Yes.

8 **Q: Please summarize your Supplemental Testimony?**

9 A: Based on my review of the projected benchmarks and savings included in the Energy Efficiency
10 and Peak Demand Reduction Program Portfolio Plans for 2013 through 2015 (the “Plan”) of Ohio
11 Edison Company, The Cleveland Electric Illuminating Company, and The Toledo Edison
12 Company (“FirstEnergy” or “Companies”), and the Companies’ testimony and discovery
13 responses, I believe that the Plan is *NOT* designed to meet or exceed Ohio’s statutory benchmarks
14 for energy efficiency, and in fact may not achieve the statutory benchmarks for energy efficiency
15 (“benchmarks”). The Plan as-filed fails to consistently achieve the benchmarks no matter how the
16 benchmarks are calculated (incremental annual savings or cumulative savings) or how savings are
17 calculated (using the annualized or *pro-rata* convention).

18 **Q: What do you rely on to make this conclusion?**

19 A: Crucially, I rely upon information presented by the Companies at the September 24, 2012
20 Collaborative meeting: the reported cumulative results achieved to-date from the Companies’
21 Existing Portfolio, including mercantile customer sited projects pending and approved as of
22 September 18, 2012. I also rely on Revised Code Section 4928.66(A)(1)(a), PUCO Table 7A-7G
23 for each Operating Company, Companies Exhibit BDE-1, and Companies Exhibit ECM-2, for
24 which the Companies provided Microsoft Excel versions in response to NRDC Request for
25 Production of Documents 1.

26

1 Because nowhere in the Plan do the Companies actually compare the benchmarks to the expected
2 impacts of the Plan's programs, I had to do several calculations myself, which I will explain
3 below.

4 **Q: On what authority are you filing this Supplemental Testimony?**

5 A: I am filing this Supplemental Testimony pursuant to Ohio Administrative Code Section 4901-1-
6 29(C).

7 **Q: Could you have, with reasonable diligence, filed this testimony earlier?**

8 A: No. First, exhibits DES-3 and DES-4 are based in substantial part on information received on
9 September 24, 2012, 10 days before the testimony deadline. Second, with the expedited
10 procedural schedule, our review of the plan was truncated. Third, nowhere in the Plan do the
11 Companies compare the benchmarks to the expected results of programs. Benchmarks are
12 presented only on a cumulative basis,¹ while the law requires the utilities to save an "additional"
13 amount of energy efficiency each year. Savings are projected in an easily accessible form only on
14 a *pro-rata* basis², even though the Companies request a waiver so that savings can be reported
15 using an annualized accounting methodology.³

16 **II: The Plan is Not Designed to Meet the Energy Efficiency Benchmarks**

17 **Q: What is your understanding of the benchmarks the Companies will be required to meet**
18 **over this Plan?**

19 A: It is my understanding that the Companies must meet benchmarks for both cumulative energy
20 savings and incremental energy savings: that is, they must save an *additional* amount of energy
21 each year, which, when added to previous years' benchmark amounts, must equal a *cumulative*
22 amount of energy savings. I term this annual additional amount of energy savings "incremental
23 savings." The amount of these incremental savings required each year are in Revised Code

¹ Exhibit BDE-1.

² Exhibit ECM-2

³ Application at 12 Paragraph 30.

1 Section 4928.66(A)(1)(a): in 2013 each Operating Company must save an additional .9% of
2 three-year average sales, and an additional 1% of sales in both 2014 and 2015.

3 **Q: Do the Companies' Plans describe the amount of incremental savings each Operating**
4 **Company must achieve each year?**

5 A: No. The Companies only include the amount of cumulative savings each Operating Company
6 must achieve each year. This calculation of cumulative savings is included in the Direct
7 Testimony of Eberts in Exhibit BDE-1. Eberts doesn't calculate the incremental savings
8 benchmarks, only cumulative benchmarks. This makes understanding the projected impacts of the
9 Plans relative to the statutory benchmarks difficult.

10 **Q: Did you independently calculate the incremental amount of energy that each Operating**
11 **Company is required to save each year?**

12 A: Yes. For the years 2013 through 2015, I multiplied the baseline given in Column 8 of Exhibit
13 BDE-1 by the required amount of incremental savings: .9% in 2013 and 1% in 2014 and 2015.
14 The incremental benchmarks for each year and Operating Company are shown in Column 4 of
15 Exhibits DES-4 and 5.

16 **Q: When the projected cumulative impacts of the Plan, combined with the cumulative impacts**
17 **to-date of the Existing Plan, are compared to the cumulative benchmarks, does the Plan as-**
18 **filed meet the targets?**

19 A: No. When the projected cumulative impacts of the Plan, combined with cumulative impacts from
20 the Companies' Existing Plan (including mercantile customer projects pending and approved as
21 of September 18, 2012) are compared to the cumulative benchmarks, the Plan fails to meet the
22 cumulative benchmarks in 6 out of the 9 Operating Company-compliance years. This is shown in
23 Exhibit DES-3.

24 **Q: From where did you get the cumulative benchmarks and the projected cumulative impacts**
25 **of the Plan?**

1 A: The cumulative benchmarks are in Column 10 of Exhibit BDE-1, and shown in Column 3 of
2 Exhibit DES-3. The projected cumulative impacts are from Exhibit ECM-2 (the “MWh Saved”
3 row in the “Portfolio Plan total – Cumulative Projected Savings” column), and shown in column
4 4 of Exhibit DES-3.

5 **Q: From where did you get the cumulative impacts of the Existing Plan?**

6 A: From information presented at the Companies September 24, 2012 Collaborative meeting, and
7 included as Exhibit DES-6. The Existing Plan impacts, shown in Column 5 of Exhibit DES-5,
8 include the impacts of mercantile customer projects pending and approved as of September 18,
9 2012. These numbers are of course subject to evaluation, measurement, and verification, and not
10 all pending applications may be approved. Also, some mercantile customer applications could be
11 filed between September 18, 2012 and November 1, 2012 (the Companies’ deadline if they
12 process the application). These additional applications would not be reflected in the savings
13 included in Column 5.

14 **Q: When incremental savings measured from the Plan’s programs using a *pro-rata* accounting**
15 **convention are compared to incremental benchmarks, does the Plan meet the benchmarks?**

16 A: No. When judged on a *pro-rata* savings basis, the Plan as-filed does not achieve the benchmarks.
17 This is shown in Exhibit DES-4.

18 **Q: How did you determine each program year’s savings on a *pro-rata* basis?**

19 A: The information is in Exhibit ECM-2. But as presented by Miller, the savings accumulate over
20 the life of the Plan: that is, Cumulative Projected Savings in Program Year 2015 include the
21 impacts of Program Year 2013 and 2014. To determine the incremental impact of the Companies’
22 Plan on a *pro-rata* basis, I subtracted Program Year 2013 Cumulative Projected MWh savings
23 from Program Year 2014 Cumulative Projected MWh savings to determine incremental *pro-rata*
24 savings in 2014 and I subtracted Program Year 2014 Cumulative Projected MWh savings from
25 Program Year 2015 Cumulative Projected MWh savings to determine incremental *pro-rata*
26 savings in 2015.

1 **Q: When incremental savings measured from the Plan's programs using an annualized**
2 **accounting convention are compared to these incremental benchmarks, does the Plan meet**
3 **the benchmarks?**

4 A: When judged on an annualized savings basis, the Plan as-filed does not achieve the benchmarks
5 in 6 out of the 9 Operating Company-compliance years. This is shown in Exhibit DES-5,
6 Columns 11 and 12.

7 **Q: How did you calculate the amount of incremental annualized savings for each portfolio and**
8 **Operating Company?**

9 A: I had to use a roundabout method to calculate the amount of annualized savings each Operating
10 Company's energy efficiency portfolio produced in each year of the Plan period, because
11 nowhere do the Companies present annualized savings for a portfolio in each year of the Plan.
12 The Companies do not include this information even though they are asking the Commission for
13 a waiver so they can report annual program progress using an annualized accounting convention.
14 To determine incremental annualized savings, I used PUCO Table 7A through 7G. Each portfolio
15 table includes an Annual MWh Saved column at the right edge of the page. But the savings
16 accumulate in the Column: that is, reported savings for 2015 include the impacts of the program
17 in 2013 and 2014. So to determine *incremental* annual savings in 2014 I subtracted 2013 Annual
18 MWh Saved from 2014 Annual MWh Saved and to determine *incremental* annual savings in
19 2015 I subtracted 2014 Annual MWh Saved from 2015 Annual MWh Saved. The result for each
20 portfolio, Operating Company, and Program Year is reported in Columns 5 through 9 of Exhibit
21 DES-5.

22 **III: Conclusion**

23 **Q: What can you conclude from the benchmark-anticipated savings comparisons described**
24 **above?**

25 A: If the Companies' programs generate the projected results, the Companies will fall short of their
26 benchmarks. The Plan as-filed does not appear to be designed to achieve the benchmarks.

1 **Q:** **Does this conclude your Supplemental Testimony?**

2 **A:** Yes.

CERTIFICATE OF SERVICE

I hereby certify that a true and accurate copy of the foregoing *Motion for Leave to File Supplemental Testimony and Motion for Expedited Ruling* has been served upon the following parties via electronic mail on October 22, 2012.

/s/ Christopher Allwein

Christopher J. Allwein

Devin Parram
Attorney General's Office
Public Utilities Commission of
Ohio
180 East Broad St., 6th Fl.
Columbus, OH 43215
Devin.parram@puc.state.oh.us

Kathy J. Kolich
Carrie M. Dunn
FirstEnergy Service Company
76 South Main Street
Akron, OH 44308
kjkolich@firstenergycorp.com
cdunn@firstenergycorp.com
Attorneys for FirstEnergy Service
Company

Cathryn N. Loucas
Trent Dougherty
The Ohio Environmental Council
1207 Grandview Avenue, Suite 201
Columbus, OH 43212-3449
Cathy@theOEC.org
Trent@theOEC.org
Attorneys for the Ohio Environmental
Council

Colleen L. Mooney
Ohio Partners for Affordable
Energy
231 West Lima Street
Findlay, OH 45839-1793
cmooney2@columbus.rr.com

Robert Kelter
Justin M. Vickers
Nick McDaniel
Environmental Law & Policy Center
35 East Wacker Drive, Suite 1600
Chicago, IL 60601
jvickers@elpc.org
rkelter@elpc.org
nmcDaniel@elpc.org
Attorneys for the Environmental Law
& Policy Center

Christopher J. Allwein
Williams Allwein & Moser, LLC
1373 Grandview Ave., Suite 212
Columbus, OH 43212
callwein@wamenergylaw.com
Attorney for the Sierra Club

Jody M. Kyler
David F. Boehm
Michael L. Kurtz
Boehm, Kurtz & Lowry
36 East Seventh Street, Suite 1510
Cincinnati, OH 45202
jkyler@bkllawfirm.com
dboehm@bkllawfirm.com
mkurtz@bkllawfirm.com
Attorneys for Ohio Energy Group

Richard L. Sites
General Counsel & Senior Director of
Healthy Policy
Ohio Hospital Association
155 East Broad Street, 15th Floor
Columbus, Ohio 43215
ricks@ohanet.org

Michael K. Lavanga
Brickfield, Burchette, Ritts & Stone,
P.C.
1025 Thomas Jefferson Street, N.W.
8th Floor, West Tower
Washington, D.C. 20007
(202) 342-0800 (Main Number)
(202) 342-0807 (Facsimile)
Mike.Lavanga@bbrslaw.com

Attorney for Nucor Steel Marion

J. Thomas Siwo
Thomas J. O'Brien
BRICKER & ECKLER LLP
100 South Third Street
Columbus, OH 43215-4291
Telephone: (614) 227-2389
Facsimile: (614) 227-2390
E-mail: tsiwo@bricker.com
tobrien@bricker.com

Attorneys for Ohio Manufacturers'
Association

Kyle L. Kern
Assistant Consumers' Counsel
Office of the Ohio Consumers'
Counsel
10 West Broad Street, Suite 1800
Columbus, OH 43216
kern@occ.state.oh.us

Thomas J. O'Brien
Bricker & Eckler LLP
100 South Third Street
Columbus, Ohio 43215
tobrien@bricker.com

Attorney for Ohio Hospital
Association

Glenn S. Krassen
BRICKER & ECKLER LLP
1001 Lakeside Avenue East, Suite
1350
Cleveland, Ohio 44114
Telephone: (216) 523-5469
Facsimile: (216) 523-7071
E-mail: gkrassen@bricker.com

Matthew W. Warnock
BRICKER & ECKLER LLP
100 South Third Street
Columbus, Ohio 43215
Telephone: (614) 227-2388
Facsimile: (614) 227-2301
mwarnock@bricker.com

Attorneys for Northeast Ohio Public
Energy Council

robinson@citizenpower.org

toddm@wamenergylaw.com

Exhibit DES-3

Cumulative benchmarks/cumulative savings

Company	Year	Cumulative benchmark (MWh)	Projected Cumulative pro-rata Savings (MWh) from Portfolio	Cumulative Savings from Existing Plan (MWh)	Shortfall (MWh), Surplus (-MWh)	Shortfall (% of cumulative benchmark)			
1	2	3	4	5	6	7			
<u>CEI</u>				651,443					
	2013	608,007	63,849		-107,285	-			
	2014	810,348	172,501		-13,596	-			
	2015	1,015,987	285,767		78,777	7.75			
<u>OE</u>				597,160					
	2013	777,392	120,898		59,334	7.63			
	2014	1,033,169	328,307		107,702	10.42			
	2015	1,292,460	530,273		165,027	12.77			
<u>TE</u>				279,820					
	2013	339,969	62,393		-2,244	-			
	2014	462,569	169,617		13,132	2.84			
	2015	594,962	266,360		48,782	8.20			
Notes	(3) from Exhibit BDE-1, Column 10								
	(4) from Exhibit ECM-2, "Portfolio Plan Total - Cumulative Projected Savings" "MWh saved"								
	(5) from Portfolio Progress Estimate as of 7/31/2012, Ohio Energy Efficiency Collaborative, September 24, 2012								
	(6) = (3)-(4)-(5)								
	(7) = (6)/(3)*100								

Incremental benchmark/*pro-rata* savings[illegible]

Exhibit DES-5

Incremental benchmarks/annualized savings

Company	Year	Baseline (GWh)	Incremental annual benchmark (MWh)	Projected Annualized Savings (MWh) from Residential Portfolio	Projected Annualized Savings (MWh) from Small Enterprise Portfolio	Projected Annualized Savings (MWh) from Mercantile Customer Program	Projected Annualized Savings (MWh) from Mercantile Utility Portfolio	Projected Annualized Savings (MWh) from Government Portfolio	Projected Annualized Savings (MWh) from Total Portfolio	Shortfall (MWh) Surplus (- MWh)	Shortfall (% of incremental annual benchmark)
1	2	3	4	5	6	7	8	9	10	11	12
<u>CEI</u>											
	2013	19,000	171,002	36,768	39,851	18,999	11,027	185	106,830	64,172	38
	2014	19,294	192,940	40,666	52,806	13,299	12,295	308	119,374	73,566	38
	2015	19,538	195,382	45,551	52,829	9,499	12,364	308	120,552	74,831	38
<u>OE</u>											
	2013	24,294	218,642	79,633	59,394	40,166	18,843	150	198,187	20,454	9
	2014	24,599	245,993	89,597	85,670	28,539	19,979	187	223,972	22,020	9
	2015	24,855	248,550	84,753	73,291	20,083	19,979	187	198,292	50,258	20
<u>TE</u>											
	2013	10,624	95,616	25,080	31,960	20,115	25,003	25	102,183	-6,567	-
	2014	11,014	110,136	34,443	40,356	13,763	26,681	25	115,268	-5,133	-
	2015	11,442	114,416	20,401	30,113	9,528	26,681	25	86,748	27,668	24
Notes	(3) From Exhibit BDE-1 Column 8										
	(4) = (3)*.009 in 2013 and (3)*.01 in 2014 and 2015										
	(5) From PUCO Tables 7A-B, Summed "Annual" "MWh saved" of programs, 2013=2013, 2014=2014-2013, 2015=2015-2014										
	(6) From PUCO Tables 7C, Summed "Annual" "MWh saved" of programs, 2013=2013, 2014=2014-2013, 2015=2015-2014										
	(7) From PUCO Tables 7D, Summed "Annual" "MWh saved" of programs, 2013=2013, 2014=2014-2013, 2015=2015-2014										
	(8) From PUCO Tables 7E, Summed "Annual" "MWh saved" of programs, 2013=2013, 2014=2014-2013, 2015=2015-2014										
	(9) From PUCO Tables 7F, Summed "Annual" "MWh saved" of programs, 2013=2013, 2014=2014-2013, 2015=2015-2014										
	(10) = (5)+(6)+(7)+(8)+(9)										
	(10) no savings from Transmission and Distribution because the Companies project no savings										
	(11) = (4)-(10)										
	(12) = (11)/(4)*100										

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Summary: Motion for Leave to File Supplemental Testimony of Dylan Sullivan and Motion for Expedited Ruling electronically filed by Mr. Christopher J Allwein on behalf of Natural Resources Defense Council