

**BEFORE
THE PUBLIC UTILITIES COMMISSION OF OHIO**

| | | |
|---------------------------------|---|-------------------------|
| JUDY ALEXANDER, |) | |
| |) | |
| Complainant, |) | |
| |) | Case No. 11-5601-GA-CSS |
| v. |) | |
| |) | |
| THE EAST OHIO GAS COMPANY D/B/A |) | |
| DOMINION EAST OHIO, |) | |
| |) | |
| Respondent. |) | |

**SUPPLEMENTAL DIRECT TESTIMONY OF
MICHAEL A. KAZMER
ON BEHALF OF THE EAST OHIO GAS COMPANY
D/B/A DOMINION EAST OHIO**

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1 **Supplemental Direct Testimony of**

2 **Michael A. Kazmer**

3 **I. INTRODUCTION**

4 **Q1. Please state your name, occupation and business address.**

5 A1. My name is Michael A. Kazmer. I am employed by The East Ohio Gas Company d/b/a
6 Dominion East Ohio ("DEO" or "Company") as an Operations Manager. My business
7 address is 1201 E. 55th Street, Cleveland, Ohio 44103.

8 **Q2. Are you the same Michael A. Kazmer that previously filed direct testimony in this**
9 **proceeding?**

10 A2. Yes.

11 **Q3. What is the purpose of your supplemental direct testimony?**

12 A3. My testimony explains the procedure followed by DEO in conducting a proof test of the
13 gas meters formerly at Judy Alexander's premises.

14 **II. METER PROOF TESTING**

15 **Q4. What is a meter proof test?**

16 A4. DEO performs meter proof tests to ensure that a gas meter is accurately measuring the
17 gas that passes through the meter. DEO typically conducts meter proof tests in two
18 scenarios. First, DEO tests meters when requested by the customer. Second, DEO
19 maintains a statistical meter-testing program.

20 **Q5. Are meter tests commonly run in the ordinary course of business for DEO?**

21 A5. Yes, the Company regularly tests its meters to ensure accuracy. DEO's tariff includes
22 language discussing a customer's right to request a meter test. As I explained above,
23 DEO maintains a statistical meter-testing program.

24 **Q6. Are you familiar with DEO's procedures and equipment to test gas meters?**

25 A6. Yes.

1 **Q7. What equipment does DEO use to conduct meter tests?**

2 A7. DEO currently uses the American Meter Sonic Nozzle Prover, Series III ("Sonic
3 Prover"). In the past, we have used prior models of this machine to perform meter tests.

4 **Q8. Describe the procedure for testing a meter using the Sonic Prover.**

5 A8. The operator logs into the machine and sets it to the proper specifications, based on the
6 size and type of the meter that is being tested. The operator then mounts the meter to the
7 Sonic Prover, enters the serial number of the meter, and initiates the test. To determine
8 the accuracy of the meter, the Sonic Prover draws air through the meter at a pre-set
9 volume and flow rate, and compares the actual volume of air with the volume registered
10 by the meter. For a single meter we typically run two tests at different volumes and flow
11 rates to ensure consistency in the results.

12 **Q9. What do you mean by standardized volume and flow rate?**

13 A9. "Volume" refers to the volume of air drawn through the meter. The standard volume in
14 gas meter tests is 0.5 cf. "Flow rate" refers to the speed at which the particular volume of
15 air is drawn through the meter. There are two standard flow rates used in meter testing:
16 the "open load," in which air is drawn at 100% of the meter's capacity (250 cfh) and the
17 "check load," in which air is drawn at 20% of the meter's capacity (50 cfh). Other
18 volumes and flow rates can be used if necessary.

19 **Q10. How are the results of a meter test determined?**

20 A10. The machine calculates the percent variability between the pre-set volume of air sent
21 through the meter and the amount measured by the meter. For example, if the actual
22 volume drawn through the meter is 0.5 cf, and the meter measures 0.5025 cf, then the
23 percent variability is 0.5% (*i.e.*, 0.5025 is 0.5% greater than 0.5). These figures are
24 automatically displayed on the machine at the conclusion of each test.

1 **III. DEO'S TEST OF MS. ALEXANDER'S METERS**

2 **Q11. Did DEO test Ms. Alexander's meters?**

3 A11. Yes. DEO removed Ms. Alexander's meters at 8207 and 8209 Beman Avenue on May 8,
4 2012, and tested them on May 11, 2012. The results from these meter tests are attached
5 to my testimony as DEO Exhibits 2.11 and 2.12.

6 **Q12. What were the results of the test conducted on the Downstairs Meter (8207 Beman)?**

7 A12. The average variability of the tests at the open load was -0.5%. This means the meter
8 was running slow by 0.5% at the meter's full volumetric capacity. The average
9 variability of the check load was -0.6%. This means the meter was running slow by 0.6%
10 when the pre-set volume was lessened to a more typical customer load. The average of
11 these figures is -0.55%. This means, on average, Ms. Alexander's Downstairs Meter was
12 running *slow* by 0.55%.

13 **Q13. What were the results of the test conducted on the Upstairs Meter (8209 Beman)?**

14 A13. The average variability of the tests at the open load was 1.4%. This means the meter was
15 running fast by 1.4% at the meter's full volumetric capacity. The average variability of
16 the check load was 1.6%. This means the meter was running fast by 1.6% when the pre-
17 set volume was lessened to a more typical customer load. The average of these figures is
18 1.5%. This means, on average, Ms. Alexander's meter was running fast by 1.5%.

19 **Q14. If a meter tests slow, how does that impact a customer?**

20 A14. A meter which tests slow is actually not measuring the full quantity of gas being billed to
21 a customer. Instead, the customer is receiving some gas for free.

22 **Q15. If a meter tests fast, how does that impact a customer?**

23 A15. A meter which tests fast is actually measuring more gas than the amount of gas used by
24 the customer.

25 **Q16. Are you familiar with Ohio Revised Code Section 4933.09?**

26 A16. Yes. That provision requires gas meters to have a percent variability of no greater than
27 three percent (3%).

1 **Q17. Based on the tests you described, did Ms. Alexander's meters meet this standard?**

2 A17. Yes, Ms. Alexander's meters easily met this standard. Ms. Alexander's meter tested well
3 within the 3% threshold. The Downstairs Meter tested a variability of -.05% to -.06%.
4 The Upstairs Meter tested a variability of 1.4% to 1.6%. Based on these results, Ms.
5 Alexander's meters comply with that provision.

6 **Q18. Does this conclude your supplemental direct testimony?**

7 A18. Yes.

CERTIFICATE OF SERVICE

I hereby certify that a copy of the foregoing Supplemental Direct Testimony of Michael A. Kazmer on behalf of The East Ohio Gas Company d/b/a Dominion East Ohio was served by regular U.S. mail to the following person on this 18th day of May, 2011:

Ms. Judy Alexander
4931 East 86th Street
Cleveland, Ohio 44105

One of the Attorneys for The East Ohio Gas
Company d/b/a Dominion East Ohio

DEO EXHIBIT 2.11

**METER TEST RESULTS
DOWNSTAIRS METER**

8207 Beman Avenue

Equipment Maintenance - _ _ X

Meter Inventory | ViewMeters | **TestHistory**

Equipment Type: Equipment Id:

Manufacturer Description: Installed:

Kind and Size: Removed:

Test Information

| Register Type | Reason | Date | Employee Initials | Location | Unit of Measure |
|---------------|--------------|------------|-------------------|-----------|-----------------|
| MCF | CUST REQUEST | 05/11/2012 | DW | TEST SHOP | MCF |

Test Results

Open Load Check Load Fast/Slow Meter State

As Found Spin Time

As Left Differential Test Status

DIAPHRAGM

Line Pressure psig

DEO EXHIBIT 2.12

**METER TEST RESULTS
UPSTAIRS METER**

8209 Beman Avenue

Equipment Maintenance -

Meter Inventory | ViewMeters | **TestHistory**

Equipment Type: GAS Equipment Id: 13737186

Manufacturer Description: EQUIMETER Installed: 11/04/2003

Kind and Size: 345 - ROCKWELL 275 AI TC Removed: 05/08/2012

Test Information

| Register Type | Reason | Date | Employee Initials | Location | Unit of Measure |
|---------------|--------------|------------|-------------------|-----------|-----------------|
| MCF | CUST REQUEST | 05/11/2012 | DW | TEST SHOP | MCF |

Test Results

Open Load: 1.40 Check Load: 1.80 Fast/Slow: 1.60 Meter State: 514.3 Spin Time: .00

As Left: .00 Differential: 0.00 Test Status: COMPLETED

DIAPHRAGM Line Pressure: 0.00 psig.

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Summary: Testimony Supplemental Direct Testimony of Michael A. Kazmer on behalf of The East Ohio Gas Company d/b/a Dominion East Ohio electronically filed by Ms. Melissa L. Thompson on behalf of The East Ohio Gas Company d/b/a Dominion East Ohio