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BEFORE THE PUBLIC UTILITIES COMMISSION OF OHIO

In the Matter of the Application of Columbia Gas of Ohio, Inc. for Approval of Tariffs to Recover, Through, an Automatic Adjustment Clause, Costs Associated with the Establishment of an Infrastructure Replacement Program and for Approval of Certain Accounting Treatment.

Case No. 07-478-GA-UNC

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PREPARED TESTIMONY

OF

BRUCE M. HAYES

ON BEHALF OF THE OFFICE OF THE OHIO CONSUMERS' COUNSEL

10 West Broad St., Suite 1800 Columbus, OH 43215

October 23, 2007

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I. INTRODUCTION

2	01.	PLEASE STATE YOUR NAME, ADDRESS	AND	POSITION
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My name is Bruce M. Hayes. My business address is 10 West Broad Street, Suite

1800, Columbus, Ohio 43215-3485. I am employed by the Office of the Ohio

Consumers' Counsel ("OCC" or "Consumers' Counsel") as a Senior Regulatory

Analyst.

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Q2. WOULD YOU PLEASE BRIEFLY SUMMARIZE YOUR EDUCATIONAL

AND PROFESSIONAL EXPERIENCE?

A2. I graduated from the University of Kentucky in 1973 with a Bachelor of Science 10 in Mechanical Engineering. I joined Aetna Life and Casualty in 1973 and held 11 various positions related to Loss Control and Safety Engineering. In 1979, I 12 joined Columbia Gas of Kentucky ("CKY") as an Industrial Sales Engineer. I 13 transferred to Columbia Gas of Ohio ("COH") in 1986 and held a variety of 14 positions in economic development, marketing and sales. During my time at the 15 16 Columbia companies, I was actively involved in the development and implementation of the industrial and commercial gas transportation programs. In 17 18 the early 1980's, I was involved in expanding CKY's transportation program from a single self help customer to over fifty industrial and large commercial customers 19 by initially establishing special contract interstate transportation programs like the 20 Fuel Oil Displacement and Special Marketing Programs. I was also involved in a 21 customer issue regarding intrastate transportation and valuation of gas. We 22 23 modified our methodology so that valuation of gas occurred on British Thermal

units ("Btu") value rather than volume. This led to changes in transportation policies and billing in all the states in the Columbia Gas Distribution System.

In the 1990's I managed the COH rate flexing or rate discounting program for industrial customers, arranged for long term capacity release to large customers and arranged discounts on Columbia Gas Transmission interstate pipelines. I had input to the transportation and gas supply departments on issues such as transportation contracts, curtailment, enhanced banking arrangements and electronic measurement for large volume customers.

In 2002, I joined OCC as a Senior Regulatory Analyst. My duties include research, investigation and analysis of gas and electric utility filings at the state and federal levels, participation in special projects and assistance in policy development and implementation. I represent OCC on the gas committee of The National Association of State Utility Consumer Advocates and have served as an Executive Committee member with the North American Energy Standards Board. I have participated in various Ohio Gas Cost Recovery ("GCR") case work and Management/Performance ("M/P") audits beginning with my Senior Staff Engineer position with Columbia Gas of Ohio and as a Senior Regulatory Analyst for the OCC.

1	Q3.	HAVE YOU PREVIOUSLY SUBMITTED TESTIMONY BEFORE THIS
2		COMMISSION?
3	A3.	Yes. I have testified in the following Public Utilities Commission of Ohio
4		("PUCO") cases:
5		Dominion East Ohio Company ("DEO"), Case No. 05-219-GA-GCR; and
6		Columbia Gas of Ohio, Inc. ("COH"), Case Nos. 04-220-GA-GCR and 05-220-
7		GA-GCR.
8		
9	Q4.	HAVE YOU PREVIOUSLY SUBMITTED TESTIMONY BEFORE
10		ANOTHER STATE REGULATORY COMMISSION?
11	A4.	Yes. I submitted testimony on behalf of CKY, before the Kentucky Public
12		Service Commission in CKY, Inc. Rate Case No. 8281. The testimony was
13		related to a long term decrease in the forecasted throughput for CKY.
14		
15	Q5.	WHAT DOCUMENTS HAVE YOU REVIEWED IN THE PREPARATION OF
16		YOUR TESTIMONY?
17	A5.	I reviewed all public documents filed under PUCO Case No. 07-478-GA-UNC. I
18		have also reviewed Columbia Gas Ohio, Inc.'s ("COH", "the Company", or
19		"Columbia") responses to data requests by the Utility Service Partners, Inc
20		("USP") and OCC in this docket. I also reviewed certain documents related to
21		Case Nos. 00-681-GA-GPS and 05-463-GA-COI. I have also attended and
22		reviewed the depositions of Duke Energy Ohio, Inc ("Duke") employees Gary J.

¹ In the Matter of An Adjustment of Rates of Columbia Gas of Kentucky, Inc., Case No. 8281, Order (December 30, 1981).

Hebbeler and William Don Wathen in Case No. 07-590-GA-ALT as well as interrogatories in that case related to the Accelerated Main Replacement Program ("AMRP") and the associated risers replacement covered in that proposed program. I am familiar with meter and regulator settings, by way of training from Columbia Gas and I have reviewed a number technical sites related to risers, service head adaptors and gas pipe fittings. I have also discussed gas riser and partial replacement service head adaptors with a consultant hired by OCC for work in Case 05-463-GA-COI.

A6.

II. PURPOSE OF TESTIMONY

Q6. WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS PROCEEDING?

The purpose of my testimony is to present a number of issues and questions which should be addressed prior to any decision in this case. I believe that COH has rushed its application for approval of tariffs to recover costs associated with the establishment of an Infrastructure Replacement Program ("IRP") because the application does not present complete and detailed plans and analysis that would result in a safe and cost efficient riser replacement program within a reasonable time period. Therefore the Commission should not approve cost recovery of COH's IRP until the details and full analysis of costs and alternatives are presented and the questions raised in my testimony have been addressed on the record in this proceeding.

2	111.	LEAST COST/REASONABLE OPTION.
4	Q 7.	ON WHAT BASIS ARE YOU CONCLUDING THE REPLACEMENT PLAN
5		IS NOT THE LEAST COST/REASONABLE OPTION?
6	A7.	In preparing comments for the generic riser investigation (Case No. 05-463-GA-
7		COI), OCC was made aware of riser service head adaptor replacement kits that
8		were available for replacement for the prone to leak service head adaptors. In
9		discussions with Duke and later discovery and depositions of Duke's personnel,
10		OCC confirmed that the partial replacement kits or partial replacement service
11		head adaptors were being utilized and the partial replacement service head
12		adaptors did present a lower cost alternative to full riser replacement.
13		
14	Q8.	WHAT TYPE OF SAVINGS WERE EXPERIENCED BY DUKE
15		UTILIZING THE PARTIAL REPLACEMENT SERVICE HEAD
16		ADAPTOR?
17	A8.	Duke experienced actual cost savings of \$27.76 between the material and labor
18		cost of using the partial replacement versus the full replacement riser for prone to
19		leak risers since 2005. (See BMH Attachment 1) Additionally, unmeasured
20		savings were attributed to avoiding excavation and potential removal and
21		replacement of hard surfaces such as concrete and blacktop, avoiding damage of
22		drain tiles, and avoiding or reducing the cost of remediation of expensive
23		landscaping. For example, in Duke it was estimated that the cost to excavate a
24		soft hole (in dirt) was \$75 and to excavate a hard hole (in concrete or stone) was
25		\$150. (See BMH Attachment 1)

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1	Q 11.	WHEN CAN THE PARTIAL REPLACEMENT SERVICE HEAD ADAPTOR
2		BE USED?
3	AII.	It is my understanding the partial replacement service head adaptor can be used
4		when there is a minimum of at least 8 inches between the ground and the point on
5		the riser above ground where the old service head adaptor is cut off. In addition,
6		the remaining lower portion of the riser needs to be free of corrosion and the
7		plastic pipe free of damage.
8		
9	Q12.	WHAT STEPS DID DUKE TAKE TO ENSURE THAT THE PARTIAL
10		REPLACEMENT SERVICE HEAD ADAPTOR IS A SAFE, LEAST
11		COST/REASONABLE ALTERNATIVE?
12	A12.	Duke worked with the Perfection Corporation to provide a safe partial
13		replacement service adaptor head that provided a lower cost alternative to full
14		riser replacement. Duke and Perfection also submitted the partial replacement
15		service head adaptor to Battelle Memorial Institute Laboratories for additional
16		testing for safety. (See BMH Attachment 4)
17		
18	IV.	THE COH IRP PLAN IS INCOMPLETE AND UNREASONABLE.
19	Q13.	HAS COLUMBIA PRESENTED A COMPLETE AND REASONABLE PLAN
20		TO REPLACE LEAKING AND PRONE TO LEAK RISERS?
21 22	A13.	No. Columbia's application does not contain:
2 3		Any consideration of the partial replacement alternative;
24		• Any details or cost analysis of how the materials will be procured;

4 34 3

What riser has been selected to replace prone to leak Design A 1 risers: 2 3 Any details on communications made to the public; 4 Any details on the priority or order of customers selected for riser 5 replacement; 6 7 Any details on riser replacement by random selection or some type 8 of geographic selection, that is, street, neighborhood, city, etc; 9 10 Any details on how many in house or contracted workers will be 11 used; and 12 13 Any details or cost analysis of the mix of in house or contracted 14 workers. 15 16 HAS COH PRESENTED AN ANALYSIS OF ALTERNATIVES? 17 18 No. The lack of details in the COH plan makes through analysis of the costs of A14. 19 20 the plan impossible. COH's application does not discuss alternative approaches. Duke is currently replacing its 87,000 Design A risers over a 27 year period, and 21 22 has proposed in its rate case filing (Case No. 07-589-GA-AIR) to speed that replacement up to 9 years as part of its AMRP plan. DEO has proposed to replace 23 its smaller number of prone to leak risers over a twenty year program in its rate 24 case filing (Case No. 07-829-GA-AIR). COH has proposed a three year riser 25 replacement program. There are possible implications for the different timelines. 26 For example, if COH has based its replacement plan based on resources available 27 in a three year program, where does that leave other gas distribution companies 28

located within COH geographic area? Will smaller companies be left to hire

higher cost contractors to replace risers if COH decides to bid out contract work?

29

30

1	Q15.	WHY IS IT YOUR OPINION THAT THE COH APPLICATION TO
2 3 4		RECOVER IRP COSTS IS RUSHED?
5	A15.	The need to replace leaking risers is necessary and reasonable, however, there has
6		been no explanation of the plan time differences between COH and the other
7		LDCs. The rush to replace prone to leak risers with a plan that does not include
8		what replacement riser is to be used, presents few details or cost analysis is
9		unreasonable and could possibly lead to a costly replacement program with
10		unproven safety benefits.
11		
12	V.	CONCLUSION
13	Q16.	WHAT IS YOUR RECOMMENDATION?
14	A16.	Based on the failure of COH to consider the cost efficient use of the partial
15		replacement service head adaptor; lack of detail in the procurement of materials,
16		mix of in-house employees and contractors; and lack of analysis of alternatives,
17		the Commission should not approve cost recovery of COH's IRP until the details
18		and full analysis of costs and alternatives are presented and the questions raised in
19		my testimony have been addressed on the record in this proceeding.
20		
21	Q 17.	DOES THIS CONCLUDE YOUR TESTIMONY AT THIS TIME?
22	A17.	Yes it does. However I reserve the right to incorporate new information that may

subsequently become available.

CERTIFICATE OF SERVICE

I hereby certified that a true copy of the foregoing Prepared Testimony of Bruce M. Hayes, on behalf of the Office of the Ohio Consumers' Counsel, was served by first class United States Mail, postage prepaid, and electronic mail to the persons listed below, on this 23rd day of October, 2007.

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BMH Attachment 1

Ohio Consumers' Counsel
Third Set Interrogatories
Duke Energy Ohio, Inc.
PUCO Case No. 07-589-GA-AIR
PUCO Case No. 07-590-GA-ALT
PUCO Case No. 07-591-GA-AAM
Date Received: August 14, 2007
Response Due: September 4, 2007

OCC-INT-03-020

REQUEST:

20. Referring to the response to OCC Interrogatory No. 17, please detail the cost associated with each different procedure or process used by DE-Ohio to repair or replace defective or prone to leak natural gas risers.

RESPONSE:

DE-Ohio's current costs are as follows:

Install riser less than two inches:

Contractor Labor: \$198.00 Material: \$78.79

Install adapter:

Contractor Labor: \$171.00 Material: \$78.03

The above costs do not include the cost of Company inspections, or the cost of overseeing contractors or Company employees, or situations where hard pavement restoration or extraordinary landscaping restoration is required.

Other situational charges that may apply:

Re-light customer appliances: \$34.00 Extra hole in soft surface: \$75.00 Extra hole in hard surface: \$150.00

Ohio Consumers' Counsel
Third Set Production of Documents
Duke Energy Ohio, Inc.
PUCO Case No. 07-589-GA-AIR
PUCO Case No. 07-590-GA-ALT
PUCO Case No. 07-591-GA-AAM
Date Received: August 14, 2007
Response Due: September 4, 2007

OCC-POD-03-021

REQUEST:

21. Please provide copies of all workpapers, data, source documents, and/or other information DE-Ohio relied upon in responding to OCC Interrogatory Nos. 20 and 21 pertaining to the costs associated with the different procedures and processes used or not used by DE-Ohio to repair or replace defective or prone to leak natural gas risers.

RESPONSE:

See Attachment OCC-POD-03-021.

<u>Duke Energy Ohio</u> Response to OCC-POD-03-021 (OCC-INT-03-020) Support for Material Costs

Perfection Adapter	Material <u>Item</u>	Unit <u>Price</u>	
, stroomstradptor	Adapter	\$	21.10
	Support Bracket	Š	4.93
	Meter Bracket	\$	52.00
	Total Adapter	\$	78.03
Perfection Riser			
	Riser	\$	21.86
	Support Bracket	\$	4.93
	Meter Bracket	\$	<u>52.00</u>
	Total Riser	\$	78,79



OCC-POD-03-022

REQUEST:

22. Please provide copies of all workpapers, data, source documents, and/or other information DE-Ohio relied upon in responding to OCC Interrogatory Nos. 31 and 32 pertaining to the number of gas riser repairs (already performed or to be performed) by DE-Ohio or others under DE-Ohio's control.

RESPONSE:

See Attachment OCC-POD-03-022.

<u>Duke Energy Ohio</u> Response to OCC-POD-03-022 (OCC-INT-03-032)

PUCO Case No. 07-589-GA-AIR Attachment OCC-POD-03-022 Page 2 of 2

	Riser Optimization Program			
Year	Prone to Leak Adapters	Prone to Leak Risers	Prone to Leak Total	
2005	3,703	745	4,448	
2006	1,319	805	2,124	
2007	752	414	1,166	
		•	7 729	

BMH Attachment 3

Potential Magnitude of Savings Using Partial Replacement Service Head Adaptor

Total Potential Savings Using Partial Replacement	31,373,100.00
⊒ot Pai	↔
	=
COH Costs for Surface Restoration & Damages \$81 + \$18 = \$99	\$ = (00.66
OE	φ ,
Duke Labor and Material Savings	27.76 plus \$
Duk Mat	\$ `×
	×
% of Risers Subject to Partial Replacement	75%
Φ	×
Number of Prone to Leak Risers	330,000

BMH Attachment 4

Ohio Consumers' Counsel
Third Set Interrogatories
Duke Energy Ohio, Inc.
PUCO Case No. 07-589-GA-AIR
PUCO Case No. 07-590-GA-ALT
PUCO Case No. 07-591-GA-AAM
Date Received: August 14, 2007
Response Due: September 4, 2007

OCC-INT-03-026

REQUEST:

26. Referring to the response to OCC Interrogatory No. 17, please identify each meeting, and who was in attendance, that the Company has held with manufacturers or other experts regarding different procedures or processes used by DE-Ohio to repair or replace defective or prone to leak natural gas risers.

RESPONSE:

DE-Ohio met on various occasions with representatives from Perfection, Continental, Lyall, and Battelle to discuss riser replacement. The dates of the meetings and attendees were not recorded by DE-Ohio employees.

Ohio Consumers' Counsel
Third Set Interrogatories
Duke Energy Ohio, Inc.
PUCO Case No. 07-589-GA-AIR
PUCO Case No. 07-590-GA-ALT
PUCO Case No. 07-591-GA-AAM
Date Received: August 14, 2007
Response Due: September 4, 2007

OCC-INT-03-037

REQUEST:

37. Referring to the response to OCC Interrogatory No. 17, please identify any non-DE-Ohio parties that worked with the Company to develop the different procedures and processes used by DE-Ohio to repair or replace defective or prone to leak natural gas risers.

RESPONSE:

Perfection, Continental, Lyall, and Battelle.