## BEFORE THE PUBLIC UTILITIES COMMISSION OF RHODE ISLAND

CITY OF NEWPORT ) DOCKET NO. 4595

**DIRECT TESTIMONY** 

**OF** 

JEROME D. MIERZWA

### ON BEHALF OF THE DIVISION OF PUBLIC UTILITIES AND CARRIERS

**April 14, 2016** 



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#### DIRECT TESTIMONY OF JEROME D. MIERZWA

1		I. <u>INTRODUCTION</u>
2	Q.	WOULD YOU PLEASE STATE YOUR NAME AND BUSINESS
3		ADDRESS?
4	A.	My name is Jerome D. Mierzwa. I am a principal and President of Exeter Associates,
5		Inc. ("Exeter"). My business address is 10480 Little Patuxent Parkway, Suite 300,
6		Columbia, Maryland 21044. Exeter specializes in providing public utility-related
7		consulting services.
8	Q.	PLEASE DESCRIBE YOUR EDUCATIONAL BACKGROUND AND
9		EXPERIENCE.
10	A.	I graduated from Canisius College in Buffalo, New York, in 1981 with a Bachelor of
11		Science Degree in Marketing. In 1985, I received a Master's Degree in Business
12		Administration with a concentration in finance, also from Canisius College. In July
13		1986, I joined National Fuel Gas Distribution Corporation ("NFG Distribution") as a
14		Management Trainee in the Research and Statistical Services Department ("RSS").
15		I was promoted to Supervisor RSS in January 1987. While employed with NFG
16		Distribution, I conducted various financial and statistical analyses related to the
17		Company's market research activity and state regulatory affairs. In April 1987, as
18		part of a corporate reorganization, I was transferred to National Fuel Gas Supply
19		Corporation's ("NFG Supply") rate department where my responsibilities included

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1		utility cost of service and rate design analysis, expense and revenue requirement
2		forecasting and activities related to federal regulation. I was also responsible for
3		preparing NFG Supply's Purchase Gas Adjustment ("PGA") filings and developing
4		interstate pipeline and spot market supply gas price projections. These forecasts were
5		utilized for internal planning purposes as well as in NFG Distribution's purchased gas
6		cost proceedings.
7		In April 1990, I accepted a position as a Utility Analyst with Exeter
8		Associates, Inc. ("Exeter"). In December 1992, I was promoted to Senior Regulatory
9		Analyst. Effective April 1, 1996, I became a principal of Exeter. Since joining
10		Exeter, my assignments have included water and gas utility class cost of service and
11		rate design analysis, evaluating the gas purchasing practices and policies of natural
12		gas utilities, sales and rate forecasting, performance-based incentive regulation,
13		revenue requirement analysis, the unbundling of utility services, and the evaluation of
14		customer choice natural gas transportation programs.
15	Q.	HAVE YOU PREVIOUSLY TESTIFIED IN REGULATORY
16		PROCEEDINGS ON UTILITY RATES?
17	A.	Yes. I have provided testimony on more than 200 occasions in proceedings before
18		the Federal Energy Regulatory Commission ("FERC"), utility regulatory
19		commissions in Delaware, Georgia, Illinois, Indiana, Louisiana, Maine, Montana,
20		Nevada, New Jersey, Ohio, Pennsylvania, Texas, Utah, and Virginia, as well as
21		before the Public Utilities Commission of Rhode Island ("Commission").
22	Q.	HAVE YOU PREVIOUSLY TESTIFIED ON WATER UTILITY ISSUES
23		BEFORE THIS COMMISSION?
24	A.	Yes. I was asked by the Division of Public Utilities and Carriers ("the Division") to
25		testify on water utility issues in City of Newport-Water Division ("Newport") Docket

	and rate design issues in Pawtucket Water Supply Board Docket Nos. 2674 and 3945;
	Kent County Water Authority Docket Nos. 2555 and 3311; and Providence Water
	Supply Board Docket Nos. 2048, 3163 and 3832.
Q.	WHAT IS THE PURPOSE OF YOUR TESTIMONY?
A.	My testimony addresses the Class Cost of Service ("CCOS") Study presented by
	Newport and the distribution of the revenue increase authorized by the Commission
	in this proceeding to the various customer classes.
Q.	PLEASE SUMMARIZE YOUR RECOMMENDATIONS CONCERNING
	NEWPORT'S CCOS STUDY AND THE DISTRIBUTION OF THE
	REVENUE INCREASE AUTHORIZED BY THE COMMISSION IN THIS
	PROCEEDING.
A.	My recommendations concerning Newport's CCOS Study and distribution of the
	revenue increase authorized in this proceeding are as follows:
	• With one exception, I generally find Newport's CCOS Study to be reasonable. The exception concerns the allocation of water treatment capital costs. Newport has proposed to allocate water treatment capital costs based on the capacity reserved on behalf of each of its wholesale customers. As I explain in my testimony, this is unreasonable and results in a misallocation of costs. I recommend that Newport's CCOS Study be modified to reflect an allocation of water treatment capital costs utilizing Newport's historic practice of allocating these costs based on the base-extra capacity method.
	• Newport has proposed to distribute the revenue increase authorized in this proceeding based on the results of its CCOS Study. As just explained, Newport's CCOS Study should be modified to reflect an allocation of water treatment capital costs based on the base-extra capacity method. However, under this approach, the volumetric rates of retail customers will be reduced, while the volumetric rates of wholesale customers would likely increase significantly. To provide for gradualism, I recommend that retail volumetric rates remain unchanged and that the increase in revenues generated above the indicated cost of service of retail customers be proportionately allocated to
	A. Q.

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2	Q.	HOW IS THE REMAINDER OF YOUR TESTIMONY ORGANIZED?
3	A.	Following this introductory section, my testimony is divided into three additional
4		sections. The first section provides an overview of water utility cost of service
5		methodologies. Next, I address Newport's CCOS Study. Finally, I present my
6		recommendations concerning the distribution of the revenue increase authorized by
7		the Commission in this proceeding.
8		
9		II. OVERVIEW OF COST OF SERVICE METHODOLOGIES
10	Q.	WHAT IS THE OBJECTIVE OF A COST OF SERVICE STUDY?
11	A.	A cost of service study is conducted to assist a utility or commission in determining
12		the level of costs properly recoverable from each of the various classes to which the
13		utility provides service. Allocation of recoverable costs to each class of service is
14		generally based on usage and cost causation principles.
15	Q.	WHAT ARE THE PRIMARY COST OF SERVICE STUDY
16		METHODOLOGIES UTILIZED FOR WATER UTILITIES?
17	A.	The two most commonly used and widely recognized methods of allocating costs
18		to customer classes for water utilities are the base-extra capacity method and the
19		commodity-demand method. Both of these methods are set forth in the American
20		Water Works Association's ("AWWA") Principles of Water Rates, Fees and
21		Charges ("AWWA M1 Manual").
22	Q.	PLEASE SUMMARIZE EACH OF THESE METHODS.
23	A.	Under the base-extra capacity method, investment and costs are first classified into
24		four primary functional cost categories: base or average capacity, extra capacity,
25		customer, and direct fire protection. Customer costs are commonly further divided

reduce the volumetric rates of Newport's two wholesale customers.

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between meter and service related and account or bill related costs. Extra capacity
costs may also be divided between maximum day and maximum hour costs. Once
investment and costs are classified to these functional categories, they are then
allocated to customer classes. Base costs are allocated according to average water
use, and extra capacity costs are allocated on the basis of the excess of peak demands
over average demands. Meter and service related customer costs are allocated on the
basis of relative meter and service investment or a proxy thereof. Account related
customer costs are allocated in proportion to the number of customers or the number
of bills. The CCOS Study presented by Newport in this proceeding utilizes the base
extra-capacity methodology.

The commodity-demand method follows the same general procedures. However, usage related costs are classified as commodity and demand related rather than as base and extra capacity related. Commodity related costs are allocated to customer classes on the basis of total water use (which is equivalent to average demand), and demand related costs are allocated on the basis of each class' contribution to peak demand rather than on the basis of class demands in excess of average use.

#### III. EVALUATION OF NEWPORT'S CLASS COST OF SERVICE STUDY

- Q. PLEASE IDENTIFY THE CUSTOMER CLASSES INCLUDED IN NEWPORT'S CCOS STUDY.
- A. Newport's CCOS Study includes two retail classes—Residential and Non-Residential; two wholesale customers—the Navy and Portsmouth Water and Fire Department ("PWFD"); and Public and Private Fire Protection.

1	Q.	DOES THE CCOS STUDY SPONSORED BY NEWPORT IN THIS
2		PROCEEDING UTILIZE THE SAME PROCEDURES AGREED TO AND
3		APPROVED BY THE COMMISSION IN THE COMPANY'S TWO MOST
4		RECENT PREVIOUS PROCEEDINGS IN DOCKET NOS. 4128 AND
5		4355?
6	A.	Generally yes, with one exception. That exception concerns Newport's proposed
7		allocation of water treatment capital costs based on the capacity reserved on behalf of
8		each of its wholesale customers (design demands). In preparing the CCOS Study,
9		Newport has also updated the study utilized in Docket No. 4355 to reflect more recen
10		information (e.g., water sales projections, proposed rate year expenses, customer
11		demands, etc.).
12	Q.	PLEASE RXPLAIN NEWPORT'S PROPOSAL TO ALLOCATE WATER
13		TREATMENT CAPITAL COSTS BASED ON DESIGN DEMANDS?
14	A.	As explained in the direct testimony of Newport witness Julia Forgue, Newport begar
15		planning significant capital projects at its two water treatment plants—Lawton Valley
16		and Station 1—in 2008. The projects included the design and construction of a new
17		Lawton Valley Water Treatment plant and significant improvements to the Station 1
18		Water Treatment Plant (collectively, the "WTP Projects"). When Newport sized the
19		WTP Projects, it used 20-year projected average day and peak day demands provided
20		by its wholesale customers—PWFD and the Navy. PWFD informed Newport that it
21		would have average day demands of 1.64 MGD and peak day demands of 3.0 MGD.
22		The Navy informed Newport that it would have average day demands of 0.95 MGD
23		and peak day demands of 1.395 MGD. This information served as a basis for
24		establishing the design capacities of the WTP Projects, and Newport used its
25		wholesale customers' projected demands when it sized the WTP Projects. Since the

1		WTP Projects were sized based on projected demands, Newport has proposed to
2		allocate costs based on projected demands.
3	Q.	HOW DOES NEWPORT'S PROPOSED METHOD OF ALLOCATING
4		WATER TREATMENT CAPITAL COSTS COMPARE TO THE METHOD
5		THAT WAS AGREED TO AND APPROVED IN DOCKET NO. 4355?
6	A.	In Docket No. 4355, treatment capital costs were allocated to the base-extra capacity
7		functional cost categories and then to each customer class based on the base and extra
8		capacity demands of each class. In this proceeding, water treatment capital costs are
9		allocated directly to each customer class based on each class' proportion share of base
10		(average day) and extra capacity (maximum day) treatment capacity used to design
11		the WTP Projects.
12	Q.	DO YOU AGREE WITH NEWPORT'S PROPOSED ALLOCATION OF
13		TREATMENT CAPITAL COSTS?
14	A.	No, I do not. Newport's proposed allocation of treatment capital costs is inconsistent
15		with actual customer class demands and the treatment facilities required to serve each
16		class. Therefore, Newport's proposal results in a misallocation of costs. For
17		example, as explained by Newport witness Harold J. Smith (page 24, lines 11-14),
18		Newport's WTP Project facilities were designed based on a maximum day demand of
19		1.395 MGD for the Navy. However, based on actual daily meter reads, the Navy's
20		current maximum daily demand is 2.084 MGD. That is, the Navy is using water
21		treatment facilities being paid for by other customers. Thus, Newport's proposal
22		would significantly understate the maximum day water treatment capital costs that
23		should be assigned to the Navy.
24	Q.	WHAT DO YOU RECOMMEND WITH RESPECT TO THE
25		ALLOCATION OF WATER TREATMENT CAPITAL COSTS?

1	A.	I recommend that water treatment capital costs continue to be allocated based on
2		actual utilization of the WTP Project facilities utilizing the base-extra capacity
3		method agreed to and approved in Docket Nos. 4128 and 4355.
4	Q.	HAVE YOU REVISED NEWPORT'S CCOS STUDY TO REFLECT AN
5		ALLOCATION OF WATER TREATMENT CAPITAL COSTS USING THE
6		BASE-EXTRA CAPACITY METHOD?
7	A.	No, I have not because it was unnecessary to do so. HJS Schedule D-8 sponsored by
8		witness Smith identifies the results of a CCOS Study which allocates treatment
9		capital costs using the base-extra capacity method.
10		
11		IV. REVENUE DISTRIBUTION
12	Q.	HOW HAS NEWPORT PROPOSED TO DISTRIBUTE THE REVENUE
13		INCREASE AUTHORIZED BY THE COMMISSION IN THIS
14		PROCEEDING?
15	A.	Newport is proposing to distribute the revenue increase authorized in this proceeding
16		based on the results of its CCOS Study. The proposed increases in rates based on
17		Newport's requested increase are identified in JHS Schedule D-8. If the increase
18		authorized by the Commission is less than Newport's requested increase, rates would
19		be designed by adjusting the costs included in the CCOS Study to reflect the cost of
20		service approved by the Commission.
21	Q.	HJS SCHEDULE D-8 ALSO IDENTIFIES CCOS STUDY RATES USING
22		THE BASE-EXTRA CAPACITY METHOD TO ALLOCATE WATER
23		TREATMENT CAPITAL COSTS. ARE YOU PROPOSING TO SET
24		RATES BASED ON THE RESULTS OF THIS CCOS STUDY?

1	A.	I am proposing that he results of the base-extra capacity CCOS study serve as a guide
2		to setting rates in this proceeding. As shown on HJS Schedule D-8, under the base-
3		extra capacity method, even at the revenue increase requested by Newport, the
4		volumetric rates of the retail classes would be reduced, while the volumetric rates of
5		the Navy and PWFD would increase by 37 and 27 percent, respectively. If Newport's
6		requested increase is reduced by the Commission in this proceeding, the decrease in
7		retail volumetric charges will be even greater. Because cost allocation is an art rather
8		than an exact science, and to provide for gradualism, I recommend that retail
9		volumetric rates remain unchanged and that the increase in revenues generated above
10		the indicated cost of service of retail customers be proportionately allocated to reduce
11		the volumetric rates of Newport's two wholesale customers.

DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?

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Yes, it does.

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Q.

A.