

March 2, 2017

#### BY OVERNIGHT MAIL AND E-MAIL

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Debra A. Howland
Executive Director and Secretary
New Hampshire Public Utilities Commission
21 S. Fruit Street, Suite 10
Concord, NH 03301-2429

**RE:** <u>Docket No. DG 14-222</u> Northern Utilities, Inc., Annual Report of Gas Meter Testing Costs for 2016

Dear Director Howland:

In accordance with condition six of the New Hampshire Public Utilities Commission's April 1, 2015 Secretarial Letter in docket DG 14-222, regarding Northern Utilities, Inc.'s Request for Waiver of Puc 505.07(a), enclosed please find:

- 1) Meter testing program cost analysis of Northern-NH Division's annual outsourced gas meter testing program costs.
- 2) Copy of a "Utility and Industries" quote for cost of service.
- Cost benefit analysis of Unitil's three gas divisions to outsource the meter testing program.

These materials provide an updated cost estimate for bringing the meter testing and servicing operations "in-house."

Thank you for your attention to this matter.

Sincerely,

Gary Epler

Attorney for Northern Utilities, Inc.

**Enclosures** 

cc: Randall Knepper, P.E., Director, Safety Division

### Unitil - Northern Gas Meter Testing Cost Analysis 2016

### **Cost Analysis**

The 2016 cost for Northern to outsource the testing of the 1119 meters associated with its NH customers was \$32,483.01, or an average of \$29.03 per meter.

The total cost for the 3362 meters associated with Unitil's three gas companies was \$64,371.37, or an average of \$19.15 per meter.

It is estimated that in order to bring the meter testing and servicing operation back inhouse, Unitil would need to hire two full-time employees and the annual cost with benefits would be:

2 Full Time Employees w/ Benefits	\$171,267
Utility Expenses	\$3,500
Tool Replacements	\$1,000
Total	\$175,767

The estimated annual cost of \$175,767 for two employees, utilities, and tools would result in the cost per meter test for the 3362 meters tested in 2016 to be \$52.28 per meter.

Additional consideration should be taken for the start-up costs that would be incurred and depreciated over time to facilitate a meter testing laboratory are as follows:

	Location			
Start-up Costs	Fitchburg	Portsmouth		
Facility Estimate	\$411,348	\$1,003,669		
Equipment Estimate	\$257,661	\$257,661		
Total	\$669,009	\$1,261,329		

#### Conclusion

Due to the estimated annual operating costs of \$175,767 exceeding the most recent annual expenditures of \$64,371.37 paid to vendors for performing testing, it is not economical at this time for Unitil to pursue establishing a gas meter testing facility.

NU-N	IH 2016 Meter Tes	t Cos	t Summary			
Description of Test/Repair	Size of Meter	С	ost per Test	Quantity	Т	est Cost
Class A Repair	Domestic	\$	22.25	43	\$	956.75
Class A Repair	Class 400	\$	22.12	3	\$	66.36
Class A Repair	Class 700	\$	58.79	0	\$	-
Class A Repair	Class 800/1000	\$	62.25	2	\$	124.50
Class A Repair	Rotary (all sizes)	\$	72.00	0	\$	-
Intest/Condemn; or Class B & C Test only	Domestic	\$	9.81	654	\$	6,415.74
Intest/Condemn; or Class B & C Test only	Class 400	\$	9.81	56	\$	549.36
Intest/Condemn; or Class B & C Test only	Class 700 - 1000	\$	57.46	97	\$	5,573.62
Intest/Condemn; or Class B & C Test only	Class 1400	\$	64.99	0	\$	-
Intest/Condemn; or Class B & C Test only	Class 2300	\$	70.32	1	\$	70.32
Intest/Condemn; or Class B & C Test only	Class 5000	\$	76.99	0	\$	-
Intest/Condemn; or Class B & C Test only	Rotary 1.5M - 7M	\$	69.86	252	\$	17,604.72
Intest/Condemn; or Class B & C Test only	Rotary 11M	\$	72.53	6	\$	435.18
Intest/Condemn; or Class B & C Test only	Rotary 16M	\$	75.19	5	\$	375.95
Intest/Condemn; or Class B & C Test only	Rotary 23M	\$	80.53	0	\$	-
				1119	\$	32,172.50
			Shipping	Expenses		310.51
				Total	\$	32,483.01
	Shipping	Break	down			
Diaphragm 0 - 500 CFH	67.6%	\$	209.78			
Diaphragm > 500 CFH	8.9%	\$	27.75			
Rotary	23.5%	\$	72.98			
	100.0%	\$	310.51		_	
PUC Meter Group Classification	# of Meters	To	otal Expense	Cost per Meter		
Diaphragm 0 - 500 CFH	756	\$	8,197.99	\$ 10.84		
		1		1		

100

263

1119

\$

\$

\$

5,796.19 \$

18,488.83 \$

32,483.01

57.96

70.30

29.03

Diaphragm > 500 CFH

Average Cost Per Meter

Rotary

Unit	il 2016 Meter Test	Cost	Summary				
Description of Test/Repair	Size of Meter	Cost per Test		Quantity	Test Cost		
Class A Repair	Domestic	\$	22.25	205	\$ 4,561.25		
Class A Repair	Class 400	\$	22.12	6	\$ 132.72		
Class A Repair	Class 700	\$	58.79	0	\$ -		
Class A Repair	Class 800/1000	\$	62.25	2	\$ 124.50		
Class A Repair	Rotary (all sizes)	\$	72.00	0	\$ -		
Intest/Condemn; or Class B & C Test only	Domestic	\$	9.81	2525	\$ 24,770.25		
Intest/Condemn; or Class B & C Test only	Class 400	\$	9.81	140	\$ 1,373.40		
Intest/Condemn; or Class B & C Test only	Class 700 - 1000	\$	57.46	137	\$ 7,872.02		
Intest/Condemn; or Class B & C Test only	Class 1400	\$	64.99	0	\$ -		
Intest/Condemn; or Class B & C Test only	Class 2300	\$	70.32	1	\$ 70.32		
Intest/Condemn; or Class B & C Test only	Class 5000	\$	76.99	0	\$ -		
Intest/Condemn; or Class B & C Test only	Rotary 1.5M - 7M	\$	69.86	333	\$ 23,263.38		
Intest/Condemn; or Class B & C Test only	Rotary 11M	\$	72.53	7	\$ 507.71		
Intest/Condemn; or Class B & C Test only	Rotary 16M	\$	75.19	6	\$ 451.14		
Intest/Condemn; or Class B & C Test only	Rotary 23M	\$	80.53	0	\$ -		
		_		3362	\$ 63,126.69		
			Shipping	Expenses	\$ 1,244.68		
		<b>D</b> 1		Total	\$ 64,371.37		
D:k 0	Shipping	Τ.					
Diaphragm 0 - 500 CFH	85.5%	\$	1,064.75				
Diaphragm > 500 CFH	4.2%	\$	51.83				
Rotary	10.3%	\$	128.10				
DUOM ( O O O O O	100.0%	\$ 1,244.68		0	1		
PUC Meter Group Classification	# of Meters	Total Expense		Cost per Meter	ļ		
D: 1 0 500 05:1	0070	1	04.000.0=	<b>A</b> 44.00			
Diaphragm 0 - 500 CFH	2876	\$	31,902.37	\$ 11.09			

140

346

3362

\$

\$

\$

8,118.67

64,371.37

24,350.33 \$

\$

57.99

70.38

19.15

Diaphragm > 500 CFH

Average Cost Per Meter

Rotary

**Utilities and Industries** 1995 Industrial Blvd

Reynoldsville, PA 15851

Phone: (814) 653-8269 Fax: (814) 653-4127

# **QUOTATION**

Quote Number: 1645

> Quote Date: 01/20/16

> > Page: 1

This quote is valid for 15 days from the date it is received. If 15 days have passed it will be necessary to contact the company representative who sent you the quote to verify the pricing is still valid.

FITCHBURG GAS AND ELECTRIC LIGHT COMPANY 285 JOHN FITCH HIGHWAY

L FITCHBURG, MA 01420-8207

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FITCHBURG GAS AND ELECTRIC

LIGHT COMPANY

285 JOHN FITCH HIGHWAY

Ī FITCHBURG, MA 01420-8207

ATTN: MIKE

Entered By: RF

Location: DEFAULT

Account Cd: UNITIL F Salesperson:

RFQ Number:

Ship Via: UI TRUCK

Taxable: Ν

Pmt Terms: **NET 15** 

Line	Order Qty	Part# / Description	DISC	Price	UM	Extended Price	Est Ship
	1	CLASS J REP DOM UNITIL INTEST/CONDEMN DOM	0.00	\$9.8100	EA	\$9.81	04/30/15
	1	CLASS J REP 400 UNITIL INTEST/CONDEMN 400'S	0.00	\$9.8100	EA	\$9.81	04/30/15
	1	CLASS J REP LC UNITIL INTEST/CON LC 700-1000	0.00	\$57.4600	EA	\$57.46	04/30/15
	1	CLASS J REP LC UNITIL INTEST/CON LC AL1400	0.00	\$64.9900	EA	\$64.99	04/30/15
	1	CLASS J REP LC UNITIL INTEST/CON LC AL2300	0.00	\$70.3200	EA	\$70.32	04/30/15
	1	CLASS J REP LC UNITIL INTEST/CON LC AL5000	0.00	\$76.9900	EA	\$76.99	04/30/15
	1	CLASS J REP ROT UNITIL INTEST/CON ROT 1.5M-7M	0.00	\$69.8600	EA	\$69.86	04/30/15
	1	CLASS J REP ROT UNITIL INTEST/CON ROT 11M	0.00	\$72.5300	EA	\$72.53	04/30/15
	1	CLASS J REP ROT UNITIL INTEST/CON ROT 16M	0.00	\$75.1900	EA	\$75.19	04/30/15
	1	CLASS J REP ROT UNITIL INTEST/CON ROT 23M	0.00	\$80.5300	EA	\$80.53	04/30/15
	1	INTEST DOM SPECIAL TEST DOMESTIC METER	0.00	\$28.0000	EA	\$28.00	01/07/15
	1	LC INTEST SPECIAL TEST LARGE CAPACITY	0.00	\$52.6700	EA	\$52.67	01/07/15
	1	ROTARY INTEST SPECIAL TEST ROTARY METER	0.00	\$47.0000	EA	\$47.00	01/07/15
	1	REPAIR CLASS A AMERICAN/ROCKWELL DOM METE	0.00 RS	\$22.5000	EA	\$22.50	01/07/15

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FITCHBURG GAS AND ELECTRIC LIGHT COMPANY 285 JOHN FITCH HIGHWAY

L FITCHBURG, MA 01420-8207

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FITCHBURG GAS AND ELECTRIC

LIGHT COMPANY

285 JOHN FITCH HIGHWAY

Ī FITCHBURG, MA 01420-8207

ATTN: MIKE

Entered By: RF RFQ Number:

Location: DEFAULT Ship Via: UI TRUCK

Account Cd: UNITIL F Taxable: Ν Salesperson: Pmt Terms: **NET 15** 

Line	Order Qty	Part# / Description	DISC	Price	UM	Extended Price	Est Ship
	1	REPAIR CLASS B AMERICAN/ROCKWELL DOM METER	0.00	\$34.9000	EA	\$34.90	01/07/15
	1	REPAIR CLASS C AMERICAN/ROCKWELL DOM METER	0.00	\$40.1100	EA	\$40.11	01/07/15
	0	EXTRA PARTS DOM DOMESTIC EXTRTA PARTS	0.00	\$0.0000	EA	\$0.00	04/30/15
	1	REPAIR CLASS A 400 CLASS METERS	0.00	\$22.1200	EA	\$22.12	01/07/15
	1	REPAIR CLASS B 400 CLASS METERS	0.00	\$35.8300	EA	\$35.83	01/07/15
	1	REPAIR CLASS C 400 CLASS METERS	0.00	\$41.6700	EA	\$41.67	01/07/15
	0	EXTRA PARTS DOM EXTRA PARTS 400 CLASS METERS	0.00	\$0.0000	EA	\$0.00	04/30/15
	1	CLASS A REPAIR 700 CLASS LARGE CAPACITY METE	0.00 R	\$78.3400	EA	\$78.34	01/07/15
	1	CLASS B REPAIR 700 CLASS LARGE CAPACITY METE	0.00	\$155.4900	EA	\$155.49	01/07/15
	1	CLASS C REPAIR 700 CLASS LARGE CAPACITY METE	0.00 R	\$182.5900	EA	\$182.59	01/07/15
	1	CLASS A REPAIR AL800/1000 LC METER	0.00	\$75.6700	EA	\$75.67	01/07/15
	1	CLASS B REPAIR AL800/1000 LC METER	0.00	\$154.2600	EA	\$154.26	01/07/15
	1	CLASS C REPAIR AL800/1000 LC METER	0.00	\$189.7200	EA	\$189.72	01/07/15
	0	EXTRA PARTS LC LARGE CAPACITY EXTRA PARTS	0.00	\$0.0000	EA	\$0.00	04/30/15

Utilities and Industries
1995 Industrial Blvd
Reynoldsville, PA 1585

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FITCHBURG GAS AND ELECTRIC LIGHT COMPANY 285 JOHN FITCH HIGHWAY

L FITCHBURG, MA 01420-8207

ATTN: MIKE

LIGHT COMPANY

FITCHBURG GAS AND ELECTRIC

285 JOHN FITCH HIGHWAY

FITCHBURG, MA 01420-8207

Entered By: RF RFQ Number:

Location:DEFAULTShip Via:UI TRUCKAccount Cd:UNITIL FTaxable:NSalesperson:0Pmt Terms:NET 15

Line Order Qty Part# / Description DISC Price UM Extended Price Est Ship **ROTARY REPAIR A** 0.00 EΑ \$72.00 01/07/15 \$72.0000 INTEST, CLEAN, PAINT ALL SIZES EΑ ROTARY REPAIR B 0.00 \$268,9800 \$268.98 01/07/15 1.5M ROTARY METER \$268.98 ROTARY REPAIR B 0.00 \$268.9800 EΑ 01/07/15 3M -5M ROTARY METER 1 ROTARY REPAIR B 0.00 \$239.1400 EΑ \$239.14 01/07/15 7M ROTARY METER 1 ROTARY REPAIR B 0.00 \$239,1400 EΑ \$239.14 01/07/15 11M ROTARY METER **ROTARY REPAIR B** 0.00 \$268.9800 EΑ \$268.98 01/07/15 16M ROTARY METER **ROTARY REPAIR B** 0.00 \$327.9600 EΑ \$327.96 01/07/15 23M ROTARY METER 0 EXTRA PARTS ROT 0.00 \$0.0000 EΑ 04/30/15 \$0.00 ROTARY METER EXTRA PARTS DDM 0.00 \$2.8900 EΑ \$2.89 01/07/15 **INSTALL BADGES** DDM 0.00 \$5.1000 EΑ \$5.10 01/07/15 **INSTALL BADGER UNITS** 1 DDM 0.00 \$5.1000 EΑ \$5.10 01/07/15 **INSTALL ERTS** 0 DELVCHG-PU 0.00 \$0.0000 EΑ \$0.00 04/30/15 **UNITIL PICKUP CHARGES** 

Utilities and Industries
1995 Industrial Blvd

Reynoldsville, PA 15851

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## **QUOTATION**

FITCHBURG GAS AND ELECTRIC

285 JOHN FITCH HIGHWAY

FITCHBURG, MA 01420-8207

\$0.0000

EΑ

LIGHT COMPANY

ATTN: MIKE

Quote Number: 1645

Quote Date: 01/20/16

Page: 4

\$0.00

04/30/15

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FITCHBURG GAS AND ELECTRIC LIGHT COMPANY 285 JOHN FITCH HIGHWAY

L FITCHBURG, MA 01420-8207

Entered By: RF RFQ Number:

Location: DEFAULT Ship Via: UI TRUCK Account Cd: UNITIL F Taxable: N

Salesperson: 0 Pmt Terms: NET 15

Line Order Qty Part# / Description DISC Price UM Extended Price Est Ship

0 DELVCHG-DEL 0.00 S
UNITIL DELIVERY CHARGES
THIS QUOTE IS 2016 PRICING FOR ALL DIVISIONS OF UNITIL.
PRICING STAYED THE SAME AS 2015.

Serving the Natural Gas Industry With: Meters, Drips, Correctors, Recorders, Filters Prefabs, Separators, Testing, Repairs, H2S Treatment Units

 Subtotal:
 \$3,446.63

 Sales Tax:
 \$0.00

 Freight:
 \$0.00

Total: \$3,446.63