

## **Appendix C.3**

**Xcel Energy's Supplemental Response to  
Minnesota Public Utilities Commission IR No. 1, Docket No.  
E-002/TL-09-38**

- Non Public Document – Contains Trade Secret Data  
 Public Document – Trade Secret Data Excised  
 Public Document

Xcel Energy

Docket No.: OAH 15-2500-20599-2  
PUC No. E-002/TL-09-38

Response To: Minnesota Public Utilities Information Request No. 1  
Commission Response Supplement

Date Received: July 24, 2009

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Question:

Using the facilities surcharge rider as model, and both a 3 and 5 year timeframe, please provide an estimate of the monthly surcharge that would be required to assess the incremental costs of undergrounding the Hiawatha transmission line to the following customer bases:

1. City of Minneapolis
2. Hennepin County
3. Xcel's entire Minnesota service territory
4. Any other sub set of customers considered appropriate

This information is not intended to be construed as an approval of these charges; this request is solely to provide information to the record.

Response:

Xcel Energy analyzed payment options for the incremental increase in cost of undergrounding the proposed transmission lines using the City Requested Special Facility Surcharge (CRFS) rates, otherwise known as the facilities surcharge rider, as a model. The estimated CRFS rates were calculated for four different customer populations using the requested timeframes of three and five years. The net CRFS rates for the various scenarios are summarized on the attached spreadsheet.

The bases for the calculations are as follows:

To determine the incremental costs of undergrounding the proposed 115 kV lines, the costs of the overhead route on Route A in the route permit application, on the rim of the Greenway along 29th Street, were compared against the two underground options, Route A, and Route D, along 28th Street.

The estimated construction cost for the overhead double circuit transmission line along Route A is \$3,000,000. The underground transmission line estimated cost on Route A is \$15,600,000. The incremental cost for undergrounding is \$12,600,000.

The estimated cost for the underground lines along the Route D alternative on 28th Street is \$16,400,000. The incremental cost for undergrounding these lines based on the Route A overhead route cost is \$13,400,000.

The CRFS rates for the two increments, \$12,600,000 and \$13,400,000, were calculated for three and five years for the requested customer populations: City of Minneapolis, Hennepin County and Xcel Energy's entire Minnesota service territory as requested in the question. Item 4 of the question requests that Xcel Energy provide the calculation for "[a]ny other subset of customers considered appropriate." Xcel Energy chose to provide the calculation for the seven-county metropolitan area because some stakeholders have characterized the Midtown Greenway as a metro-wide amenity, based on its direct and indirect interconnections with other regional bicycle trails in the metropolitan area. This fourth calculation is intended only to provide an additional point of comparison.

Xcel Energy notes that the CRFS mechanism by its terms applies only to Special Facilities requested by a "City." If costs are to be allocated to municipalities other than a City, other mechanisms may be applicable and would be subject to Commission consideration and approval. See Tariff Section 6, para 5.3(E)(2). However, to provide a consistent comparison using common inputs, Xcel Energy has calculated the amount for each of the four customer populations using the same assumptions and the CRFS mechanism. Implementation of mechanisms for recovery of any Special Facility costs will be governed by the applicable terms of Xcel Energy's Tariff and Commission order. See Xcel Energy Electric Rates and Tariffs, Section 6, para 5.1-5.3.

The CRFS rates in the attached spreadsheets are shown by customer base and give the estimated monthly surcharges by customer class.

#### Supplemental Response:

After the initial response was provided, Xcel Energy developed updated cost estimates for underground alternatives under the southern shoulder of the Midtown Greenway (Route A – proposed alignment) and in 28th Street (Route D). In addition, Xcel Energy has developed a cost estimate for a new alignment along Route A that is under consideration. Updated CRFS rates for these three alternatives are detailed in the attached spreadsheets.

Xcel Energy notes that the estimates used for the calculations are a "Scoping Estimate", which do not include right-of-way acquisition or other permitting costs and are produced before engineering design has been completed and in many instances, before any engineering design has begun. A Scoping Estimate is generally based on typical conditions encountered on past construction projects and uses historical cost data from other Xcel Energy projects. Xcel Energy makes every effort to produce a representative estimate that incorporates as many project-specific factors as possible, but a Scoping Estimate is generally relied upon only as an indicative estimate of the possible costs that may be incurred during a potential construction project.

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Original Response By: Steve Huso, Ben Gallay  
Title: Pricing Consultant, Specialty Engineer  
Department: Regulatory Administration, Transmission Engineering and Design  
Date: August 11, 2009

Response Supplement By: Steve Huso  
Title: Pricing Consultant  
Department: Regulatory Administration  
Date: January 15, 2010

Northern States Power Company, a Minnesota Corporation  
 Hiawatha Project  
 Modeled using the City Requested Special Facilities Surcharge (CRFS)  
 City of Minneapolis Customers within City of Minneapolis franchised area

**3 Year Recovery**

Underground Incremental Cost Difference	Route A	<b>\$12,600,000</b>
Carrying Charges, Interest on Capitalized \$		\$1,577,411
<b>Total</b>		<b>\$14,177,411</b>

Customer Class	Customers	Surcharge	Months	Recovery
Residential	160,186	\$2.05	36	\$11,821,727
Res Low Income	3,269	\$1.00	36	\$117,684
Sm Commercial & Industrial ND	11,096	\$2.05	36	\$818,885
Sm Commercial & Industrial	4,701	\$6.15	36	\$1,040,801
Large Commercial & Industrial	1,055	\$8.20	36	\$311,436
Street Lighting	602	\$2.05	36	\$44,428
Sm Municipal Pumping ND	7	\$2.05	36	\$517
Small Municipal Pumping	5	\$6.15	36	\$1,107
Large Municipal Pumping	0	\$8.20	36	\$0
<b>Total</b>	<b>180,921</b>			<b>\$14,156,584</b>

Underground Incremental Cost Difference	Route D	<b>\$13,400,000</b>
Carrying Charges, Interest on Capitalized \$		\$1,678,557
<b>Total</b>		<b>\$15,078,557</b>

Customer Class	Customers	Surcharge	Months	Recovery
Residential	160,186	\$2.18	36	\$12,571,397
Res Low Income	3,269	\$1.00	36	\$117,684
Sm Commercial & Industrial ND	11,096	\$2.18	36	\$870,814
Sm Commercial & Industrial	4,701	\$6.54	36	\$1,106,803
Large Commercial & Industrial	1,055	\$8.72	36	\$331,186
Street Lighting	602	\$2.18	36	\$47,245
Sm Municipal Pumping ND	7	\$2.18	36	\$549
Small Municipal Pumping	5	\$6.54	36	\$1,177
Large Municipal Pumping	0	\$8.72	36	\$0
<b>Total</b>	<b>180,921</b>			<b>\$15,046,856</b>

**5 Year Recovery**

Underground Incremental Cost Difference	Route A	<b>\$12,600,000</b>
Carrying Charges, Interest on Capitalized \$		\$2,542,657
<b>Total</b>		<b>\$15,142,657</b>

Customer Class	Customers	Surcharge	Months	Recovery
Residential	163,327	\$1.29	60	\$12,641,510
Res Low Income	3,333	\$1.00	60	\$199,980
Small C&I ND	11,313	\$1.29	60	\$875,626
Small C&I	4,793	\$3.87	60	\$1,112,935
Large C&I	1,076	\$5.16	60	\$333,130
Street Lighting	614	\$1.29	60	\$47,524
Sm Mun Pump ND	7	\$1.29	60	\$542
Small Mun Pump	5	\$3.87	60	\$1,161
Large Mun Pump	0	\$5.16	60	\$0
<b>Total</b>	<b>184,468</b>			<b>\$15,212,407</b>

Underground Incremental Cost Difference	Route D	<b>\$13,400,000</b>
Carrying Charges, Interest on Capitalized \$		\$2,710,858
<b>Total</b>		<b>\$16,110,858</b>

Customer Class	Customers	Surcharge	Months	Recovery
Residential	163,327	\$1.37	60	\$13,425,479
Res Low Income	3,333	\$1.00	60	\$199,980
Small C&I ND	11,313	\$1.37	60	\$929,929
Small C&I	4,793	\$4.11	60	\$1,181,954
Large C&I	1,076	\$5.48	60	\$353,789
Street Lighting	614	\$1.37	60	\$50,471
Sm Mun Pump ND	7	\$1.37	60	\$575
Small Mun Pump	5	\$4.11	60	\$1,233
Large Mun Pump	0	\$5.48	60	\$0
<b>Total</b>	<b>184,468</b>			<b>\$16,143,410</b>

Northern States Power Company, a Minnesota Corporation  
 Hiawatha Project  
 Modeled using the City Requested Special Facilities Surcharge (CRFS)  
 Hennepin County

**3 Year Recovery**

Underground Incremental Cost Difference	Route A	<b>\$12,600,000</b>
Carrying Charges, Interest on Capitalized \$		\$1,564,029
<b>Total</b>		<b>\$14,164,029</b>

Customer Class	Customers	Surcharge	Months	Recovery
Residential	459,056	\$0.71	36	\$11,733,471
Res Low Income	9,368	\$0.71	36	\$239,446
Sm Commercial & Industrial ND	30,623	\$0.71	36	\$782,724
Sm Commercial & Industrial	14,609	\$2.13	36	\$1,120,218
Large Commercial & Industrial	3,352	\$2.84	36	\$342,708
Street Lighting	1,443	\$0.71	36	\$36,883
Sm Municipal Pumping ND	356	\$0.71	36	\$9,099
Small Municipal Pumping	133	\$2.13	36	\$10,198
Large Municipal Pumping	28	\$2.84	36	\$2,863
<b>Total</b>	<b>518,968</b>			<b>\$14,277,612</b>

Underground Incremental Cost Difference	Route D	<b>\$13,400,000</b>
Carrying Charges, Interest on Capitalized \$		\$1,674,524
<b>Total</b>		<b>\$15,074,524</b>

Customer Class	Customers	Surcharge	Months	Recovery
Residential	459,056	\$0.75	36	\$12,394,512
Res Low Income	9,368	\$0.75	36	\$252,936
Sm Commercial & Industrial ND	30,623	\$0.75	36	\$826,821
Sm Commercial & Industrial	14,609	\$2.25	36	\$1,183,329
Large Commercial & Industrial	3,352	\$3.00	36	\$362,016
Street Lighting	1,443	\$0.75	36	\$38,961
Sm Municipal Pumping ND	356	\$0.75	36	\$9,612
Small Municipal Pumping	133	\$2.25	36	\$10,773
Large Municipal Pumping	28	\$3.00	36	\$3,024
<b>Total</b>	<b>518,968</b>			<b>\$15,081,984</b>

**5 Year Recovery**

Underground Incremental Cost Difference	Route A	<b>\$12,600,000</b>
Carrying Charges, Interest on Capitalized \$		\$2,577,682
<b>Total</b>		<b>\$15,177,682</b>

Customer Class	Customers	Surcharge	Months	Recovery
Residential	468,057	\$0.44	60	\$12,356,705
Res Low Income	9,552	\$0.44	60	\$252,173
Sm Commercial & Industrial ND	31,224	\$0.44	60	\$824,314
Sm Commercial & Industrial	14,896	\$1.32	60	\$1,179,763
Large Commercial & Industrial	3,418	\$1.76	60	\$360,941
Street Lighting	1,471	\$0.44	60	\$38,834
Sm Municipal Pumping ND	363	\$0.44	60	\$9,583
Small Municipal Pumping	135	\$1.32	60	\$10,692
Large Municipal Pumping	29	\$1.76	60	\$3,062
<b>Total</b>	<b>529,145</b>			<b>\$15,036,067</b>

Underground Incremental Cost Difference	Route D	<b>\$13,400,000</b>
Carrying Charges, Interest on Capitalized \$		\$2,727,175
<b>Total</b>		<b>\$16,127,175</b>

Customer Class	Customers	Surcharge	Months	Recovery
Residential	468,057	\$0.47	60	\$13,199,207
Res Low Income	9,552	\$0.47	60	\$269,366
Sm Commercial & Industrial ND	31,224	\$0.47	60	\$880,517
Sm Commercial & Industrial	14,896	\$1.41	60	\$1,260,202
Large Commercial & Industrial	3,418	\$1.88	60	\$385,550
Street Lighting	1,471	\$0.47	60	\$41,482
Sm Municipal Pumping ND	363	\$0.47	60	\$10,237
Small Municipal Pumping	135	\$1.41	60	\$11,421
Large Municipal Pumping	29	\$1.88	60	\$3,271
<b>Total</b>	<b>529,145</b>			<b>\$16,061,254</b>

Northern States Power Company, a Minnesota Corporation  
 Hiawatha Project  
 Modeled using the City Requested Special Facilities Surcharge (CRFS)  
 State of Minnesota

**3 Year Recovery**

Underground Incremental Cost Difference	Route A	<b>\$12,600,000</b>
Carrying Charges, Interest on Capitalized \$		\$1,598,468
<b>Total</b>		<b>\$14,198,468</b>

Customer Class	Customers	Surcharge	Months	Recovery
Residential	1,084,520	\$0.29	36	\$11,322,389
Res Low Income	22,133	\$0.29	36	\$231,069
Sm Commercial & Industrial ND	86,275	\$0.29	36	\$900,711
Sm Commercial & Industrial	34,834	\$0.87	36	\$1,091,001
Large Commercial & Industrial	8,708	\$1.16	36	\$363,646
Street Lighting	3,466	\$0.29	36	\$36,185
Sm Municipal Pumping ND	1,019	\$0.29	36	\$10,638
Small Municipal Pumping	467	\$0.87	36	\$14,626
Large Municipal Pumping	117	\$1.16	36	\$4,886
<b>Total</b>	<b>1,241,539</b>			<b>\$13,975,151</b>

Underground Incremental Cost Difference	Route D	<b>\$13,400,000</b>
Carrying Charges, Interest on Capitalized \$		\$1,691,080
<b>Total</b>		<b>\$15,091,080</b>

Customer Class	Customers	Surcharge	Months	Recovery
Residential	1,084,520	\$0.31	36	\$12,103,243
Res Low Income	22,133	\$0.31	36	\$247,004
Sm Commercial & Industrial ND	86,275	\$0.31	36	\$962,829
Sm Commercial & Industrial	34,834	\$0.93	36	\$1,166,242
Large Commercial & Industrial	8,708	\$1.24	36	\$388,725
Street Lighting	3,466	\$0.31	36	\$38,681
Sm Municipal Pumping ND	1,019	\$0.31	36	\$11,372
Small Municipal Pumping	467	\$0.93	36	\$15,635
Large Municipal Pumping	117	\$1.24	36	\$5,223
<b>Total</b>	<b>1,241,539</b>			<b>\$14,938,955</b>

**5 Year Recovery**

Underground Incremental Cost Difference	Route A	<b>\$12,600,000</b>
Carrying Charges, Interest on Capitalized \$		\$2,476,660
<b>Total</b>		<b>\$15,076,660</b>

Customer Class	Customers	Surcharge	Months	Recovery
Residential	1,105,785	\$0.19	58	\$12,185,751
Res Low Income	22,567	\$0.19	58	\$248,688
Sm Commercial & Industrial ND	87,967	\$0.19	58	\$969,396
Sm Commercial & Industrial	35,517	\$0.57	58	\$1,174,192
Large Commercial & Industrial	8,879	\$0.76	58	\$391,386
Street Lighting	3,534	\$0.19	58	\$38,945
Sm Municipal Pumping ND	1,039	\$0.19	58	\$11,450
Small Municipal Pumping	476	\$0.57	58	\$15,737
Large Municipal Pumping	119	\$0.76	58	\$5,246
<b>Total</b>	<b>1,265,883</b>			<b>\$15,040,790</b>

Underground Incremental Cost Difference	Route D	<b>\$13,400,000</b>
Carrying Charges, Interest on Capitalized \$		\$2,665,524
<b>Total</b>		<b>\$16,065,524</b>

Customer Class	Customers	Surcharge	Months	Recovery
Residential	1,105,785	\$0.20	59	\$13,048,263
Res Low Income	22,567	\$0.20	60	\$270,804
Sm Commercial & Industrial ND	87,967	\$0.20	60	\$1,055,604
Sm Commercial & Industrial	35,517	\$0.60	60	\$1,278,612
Large Commercial & Industrial	8,879	\$0.80	60	\$426,192
Street Lighting	3,534	\$0.20	60	\$42,408
Sm Municipal Pumping ND	1,039	\$0.20	60	\$12,468
Small Municipal Pumping	476	\$0.60	60	\$17,136
Large Municipal Pumping	119	\$0.80	60	\$5,712
<b>Total</b>	<b>1,265,883</b>			<b>\$16,157,199</b>

Northern States Power Company, a Minnesota Corporation  
 Hiawatha Project  
 Modeled using the City Requested Special Facilities Surcharge (CRFS)  
**7 County Metro**

**3 Year Recovery**

Underground Incremental Cost Difference	Route A	<b>\$12,600,000</b>
Carrying Charges, Interest on Capitalized \$		\$1,568,108
<b>Total</b>		<b>\$14,168,108</b>

Customer Class	Customers	Surcharge	Months	Recovery
Residential	877,495	\$0.37	36	\$11,688,233
Res Low Income	17,908	\$0.37	36	\$238,535
Sm Commercial & Industrial ND	61,964	\$0.37	36	\$825,360
Sm Commercial & Industrial	27,253	\$1.11	36	\$1,089,030
Large Commercial & Industrial	6,393	\$1.48	36	\$340,619
Street Lighting	2,660	\$0.37	36	\$35,431
Sm Municipal Pumping ND	665	\$0.37	36	\$8,858
Small Municipal Pumping	269	\$1.11	36	\$10,749
Large Municipal Pumping	67	\$1.48	36	\$3,570
<b>Total</b>	<b>994,674</b>			<b>\$14,240,385</b>

Underground Incremental Cost Difference	Route D	<b>\$13,400,000</b>
Carrying Charges, Interest on Capitalized \$		\$1,682,819
<b>Total</b>		<b>\$15,082,819</b>

Customer Class	Customers	Surcharge	Months	Recovery
Residential	877,495	\$0.39	36	\$12,320,030
Res Low Income	17,908	\$0.39	36	\$251,428
Sm Commercial & Industrial ND	61,964	\$0.39	36	\$869,975
Sm Commercial & Industrial	27,253	\$1.17	36	\$1,147,896
Large Commercial & Industrial	6,393	\$1.56	36	\$359,031
Street Lighting	2,660	\$0.39	36	\$37,346
Sm Municipal Pumping ND	665	\$0.39	36	\$9,337
Small Municipal Pumping	269	\$1.17	36	\$11,330
Large Municipal Pumping	67	\$1.56	36	\$3,763
<b>Total</b>	<b>994,674</b>			<b>\$15,010,136</b>

**5 Year Recovery**

Underground Incremental Cost Difference	Route A	<b>\$12,600,000</b>
Carrying Charges, Interest on Capitalized \$		\$2,576,323
<b>Total</b>		<b>\$15,176,323</b>

Customer Class	Customers	Surcharge	Months	Recovery
Residential	894,701	\$0.23	60	\$12,346,874
Res Low Income	18,259	\$0.23	60	\$251,974
Sm Commercial & Industrial ND	63,179	\$0.23	60	\$871,870
Sm Commercial & Industrial	27,787	\$0.69	60	\$1,150,382
Large Commercial & Industrial	6,518	\$0.92	60	\$359,794
Street Lighting	2,712	\$0.23	60	\$37,426
Sm Municipal Pumping ND	678	\$0.23	60	\$9,356
Small Municipal Pumping	274	\$0.69	60	\$11,344
Large Municipal Pumping	69	\$0.92	60	\$3,809
<b>Total</b>	<b>1,014,177</b>			<b>\$15,042,828</b>

Underground Incremental Cost Difference	Route D	<b>\$13,400,000</b>
Carrying Charges, Interest on Capitalized \$		\$2,670,661
<b>Total</b>		<b>\$16,070,661</b>

Customer Class	Customers	Surcharge	Months	Recovery
Residential	894,701	\$0.25	60	\$13,420,515
Res Low Income	18,259	\$0.25	60	\$273,885
Sm Commercial & Industrial ND	63,179	\$0.25	60	\$947,685
Sm Commercial & Industrial	27,787	\$0.75	60	\$1,250,415
Large Commercial & Industrial	6,518	\$1.00	60	\$391,080
Street Lighting	2,712	\$0.25	60	\$40,680
Sm Municipal Pumping ND	678	\$0.25	60	\$10,170
Small Municipal Pumping	274	\$0.75	60	\$12,330
Large Municipal Pumping	69	\$1.00	60	\$4,140
<b>Total</b>	<b>1,014,177</b>			<b>\$16,350,900</b>

**Route A - Proposed Alignment, southern shoulder of Midtown Greenway/29th Street**

3 Year Recovery					5 Year Recovery				
Excess Expenditures				<b>\$10,878,000</b>	Excess Expenditures				<b>\$10,878,000</b>
Carrying Charges				\$1,359,840	Carrying Charges				\$2,198,211
<b>Total</b>				<b>\$12,237,840</b>	<b>Total</b>				<b>\$13,076,211</b>
Customer Class	Customers	Surcharge	Months	Recovery	Customer Class	Customers	Surcharge	Months	Recovery
Residential	160,186	\$1.77	36	\$10,206,031	Residential	163,327	\$1.11	60	\$10,843,223
Residential Low Income	3,269	\$1.00	36	\$117,672	Residential Low Income	3,333	\$1.00	60	\$199,348
Sm Comm. & Indus. ND	11,096	\$1.77	36	\$706,966	Sm Comm. & Indus. ND	11,313	\$1.11	60	\$751,066
Sm Comm. & Indus.	4,701	\$5.31	36	\$898,553	Sm Comm. & Indus.	4,793	\$3.33	60	\$954,617
Large Comm. & Indus.	1,055	\$7.08	36	\$268,872	Large Comm. & Indus.	1,076	\$4.44	60	\$285,741
Street Lighting	602	\$1.77	36	\$38,356	Street Lighting	614	\$1.11	60	\$40,763
Sm Municipal Pump ND	7	\$1.77	36	\$446	Sm Municipal Pump ND	7	\$1.11	60	\$465
Sm Municipal Pump	5	\$5.31	36	\$956	Sm Municipal Pump	5	\$3.33	60	\$996
Large Municipal Pump	0	\$7.08	36	\$0	Large Municipal Pump	0	\$4.44	60	\$0
<b>Total</b>	<b>180,921</b>			<b>\$12,237,852</b>	<b>Total</b>	<b>184,468</b>			<b>\$13,076,219</b>

**Route A - Alternative Alignment, bottom north edge of Midtown Greenway**

3 Year Recovery					5 Year Recovery				
Excess Expenditures				<b>\$9,974,000</b>	Excess Expenditures				<b>\$9,974,000</b>
Carrying Charges				\$1,248,001	Carrying Charges				\$2,007,242
<b>Total</b>				<b>\$11,222,001</b>	<b>Total</b>				<b>\$11,981,242</b>
Customer Class	Customers	Surcharge	Months	Recovery	Customer Class	Customers	Surcharge	Months	Recovery
Residential	160,186	\$1.62	36	\$9,350,507	Residential	163,327	\$1.02	60	\$9,921,878
Residential Low Income	3,269	\$1.00	36	\$117,791	Residential Low Income	3,333	\$1.00	60	\$198,505
Sm Comm. & Indus. ND	11,096	\$1.62	36	\$647,705	Sm Comm. & Indus. ND	11,313	\$1.02	60	\$687,248
Sm Comm. & Indus.	4,701	\$4.86	36	\$823,232	Sm Comm. & Indus.	4,793	\$3.06	60	\$873,503
Large Comm. & Indus.	1,055	\$6.48	36	\$246,333	Large Comm. & Indus.	1,076	\$4.08	60	\$261,462
Street Lighting	602	\$1.62	36	\$35,140	Street Lighting	614	\$1.02	60	\$37,300
Sm Municipal Pump ND	7	\$1.62	36	\$409	Sm Municipal Pump ND	7	\$1.02	60	\$425
Sm Municipal Pump	5	\$4.86	36	\$876	Sm Municipal Pump	5	\$3.06	60	\$911
Large Municipal Pump	0	\$6.48	36	\$0	Large Municipal Pump	0	\$4.08	60	\$0
<b>Total</b>	<b>180,921</b>			<b>\$11,221,992</b>	<b>Total</b>	<b>184,468</b>			<b>\$11,981,232</b>

**Route D - 28th Street**

3 Year Recovery					5 Year Recovery				
Excess Expenditures				<b>\$13,612,250</b>	Excess Expenditures				<b>\$13,612,250</b>
Carrying Charges				\$1,701,058	Carrying Charges				\$2,758,248
<b>Total</b>				<b>\$15,313,308</b>	<b>Total</b>				<b>\$16,370,498</b>
Customer Class	Customers	Surcharge	Months	Recovery	Customer Class	Customers	Surcharge	Months	Recovery
Residential	160,186	\$2.22	36	\$12,795,806	Residential	163,327	\$1.39	60	\$13,616,772
Residential Low Income	3,269	\$1.00	36	\$117,626	Residential Low Income	3,333	\$1.00	60	\$199,911
Sm Comm. & Indus. ND	11,096	\$2.22	36	\$886,359	Sm Comm. & Indus. ND	11,313	\$1.39	60	\$943,179
Sm Comm. & Indus.	4,701	\$6.66	36	\$1,126,561	Sm Comm. & Indus.	4,793	\$4.17	60	\$1,198,795
Large Comm. & Indus.	1,055	\$8.88	36	\$337,098	Large Comm. & Indus.	1,076	\$5.56	60	\$358,830
Street Lighting	602	\$2.22	36	\$48,088	Street Lighting	614	\$1.39	60	\$51,190
Sm Municipal Pump ND	7	\$2.22	36	\$559	Sm Municipal Pump ND	7	\$1.39	60	\$584
Sm Municipal Pump	5	\$6.66	36	\$1,198	Sm Municipal Pump	5	\$4.17	60	\$1,251
Large Municipal Pump	0	\$8.88	36	\$0	Large Municipal Pump	0	\$5.56	60	\$0
<b>Total</b>	<b>180,921</b>			<b>\$15,313,296</b>	<b>Total</b>	<b>184,468</b>			<b>\$16,370,511</b>

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Route A - Proposed Alignment, southern shoulder of Midtown Greenway/29th Street									
<b>3 Year Recovery</b>					<b>5 Year Recovery</b>				
Excess Expenditures					Excess Expenditures				
\$10,878,000					\$10,878,000				
Carrying Charges					Carrying Charges				
\$1,356,815					\$2,157,933				
Total					Total				
\$12,234,815					\$13,035,933				
Customer Class	Customers	Surcharge	Months	Recovery	Customer Class	Customers	Surcharge	Months	Recovery
Residential	459,056	\$0.61	36	\$10,054,688	Residential	468,057	\$0.39	59	\$10,712,984
Res Low Income	9,368	\$0.61	36	\$205,187	Res Low Income	9,552	\$0.39	59	\$218,628
Small C&I ND	30,623	\$0.61	36	\$670,734	Small C&I ND	31,224	\$0.39	59	\$714,661
Small C&I	14,609	\$1.83	36	\$959,941	Small C&I	14,896	\$1.17	59	\$1,022,828
Large C&I	3,352	\$2.44	36	\$293,675	Large C&I	3,418	\$1.56	59	\$312,928
Street Lighting	1,443	\$0.61	36	\$31,606	Street Lighting	1,471	\$0.39	59	\$33,669
Sm Mun Pump ND	356	\$0.61	36	\$7,797	Sm Mun Pump ND	363	\$0.39	59	\$8,308
Small Mun Pump	133	\$1.83	36	\$8,739	Small Mun Pump	135	\$1.17	59	\$9,270
Large Mun Pump	28	\$2.44	36	\$2,453	Large Mun Pump	29	\$1.56	59	\$2,655
<b>Total</b>	<b>518,968</b>			<b>\$12,234,821</b>	<b>Total</b>	<b>529,145</b>			<b>\$13,035,930</b>

Route A - Alternative Alignment, bottom north edge of Midtown Greenway									
<b>3 Year Recovery</b>					<b>5 Year Recovery</b>				
Excess Expenditures					Excess Expenditures				
\$9,974,000					\$9,974,000				
Carrying Charges					Carrying Charges				
\$1,242,532					\$1,963,190				
Total					Total				
\$11,216,532					\$11,937,190				
Customer Class	Customers	Surcharge	Months	Recovery	Customer Class	Customers	Surcharge	Months	Recovery
Residential	459,056	\$0.56	36	\$9,217,859	Residential	468,057	\$0.36	58	\$9,810,033
Res Low Income	9,368	\$0.56	36	\$188,110	Res Low Income	9,552	\$0.36	58	\$200,201
Small C&I ND	30,623	\$0.56	36	\$614,911	Small C&I ND	31,224	\$0.36	58	\$654,426
Small C&I	14,609	\$1.68	36	\$880,048	Small C&I	14,896	\$1.08	58	\$936,618
Large C&I	3,352	\$2.24	36	\$269,233	Large C&I	3,418	\$1.44	58	\$286,552
Street Lighting	1,443	\$0.56	36	\$28,975	Street Lighting	1,471	\$0.36	58	\$30,831
Sm Mun Pump ND	356	\$0.56	36	\$7,148	Sm Mun Pump ND	363	\$0.36	58	\$7,608
Small Mun Pump	133	\$1.68	36	\$8,012	Small Mun Pump	135	\$1.08	58	\$8,488
Large Mun Pump	28	\$2.24	36	\$2,249	Large Mun Pump	29	\$1.44	58	\$2,431
<b>Total</b>	<b>518,968</b>			<b>\$11,216,545</b>	<b>Total</b>	<b>529,145</b>			<b>\$11,937,188</b>

Route D - 28th Street									
<b>3 Year Recovery</b>					<b>5 Year Recovery</b>				
Excess Expenditures					Excess Expenditures				
\$13,612,250					\$13,612,250				
Carrying Charges					Carrying Charges				
\$1,705,390					\$2,753,046				
Total					Total				
\$15,317,640					\$16,365,296				
Customer Class	Customers	Surcharge	Months	Recovery	Customer Class	Customers	Surcharge	Months	Recovery
Residential	459,056	\$0.76	36	\$12,588,171	Residential	468,057	\$0.48	60	\$13,449,060
Res Low Income	9,368	\$0.76	36	\$256,888	Res Low Income	9,552	\$0.48	60	\$274,465
Small C&I ND	30,623	\$0.76	36	\$839,740	Small C&I ND	31,224	\$0.48	60	\$897,184
Small C&I	14,609	\$2.28	36	\$1,201,818	Small C&I	14,896	\$1.44	60	\$1,284,056
Large C&I	3,352	\$3.04	36	\$367,672	Large C&I	3,418	\$1.92	60	\$392,849
Street Lighting	1,443	\$0.76	36	\$39,570	Street Lighting	1,471	\$0.48	60	\$42,267
Sm Mun Pump ND	356	\$0.76	36	\$9,762	Sm Mun Pump ND	363	\$0.48	60	\$10,430
Small Mun Pump	133	\$2.28	36	\$10,941	Small Mun Pump	135	\$1.44	60	\$11,637
Large Mun Pump	28	\$3.04	36	\$3,071	Large Mun Pump	29	\$1.92	60	\$3,333
<b>Total</b>	<b>518,968</b>			<b>\$15,317,634</b>	<b>Total</b>	<b>529,145</b>			<b>\$16,365,283</b>

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**Route A - Proposed Alignment, southern shoulder of Midtown Greenway/29th Street**

3 Year Recovery					5 Year Recovery				
Excess Expenditures				<b>\$10,878,000</b>	Excess Expenditures				<b>\$10,878,000</b>
Carrying Charges				\$1,351,410	Carrying Charges				\$2,084,072
<b>Total</b>				<b>\$12,229,410</b>	<b>Total</b>				<b>\$12,962,072</b>
Customer Class	Customers	Surcharge	Months	Recovery	Customer Class	Customers	Surcharge	Months	Recovery
Residential	877,495	\$0.32	36	\$10,037,672	Residential	894,701	\$0.21	57	\$10,639,019
Res Low Income	17,908	\$0.32	36	\$204,850	Res Low Income	18,259	\$0.21	57	\$217,120
Small C&I ND	61,964	\$0.32	36	\$708,807	Small C&I ND	63,179	\$0.21	57	\$751,271
Small C&I	27,253	\$0.96	36	\$935,242	Small C&I	27,787	\$0.63	57	\$991,258
Large C&I	6,393	\$1.28	36	\$292,518	Large C&I	6,518	\$0.84	57	\$310,026
Street Lighting	2,660	\$0.32	36	\$30,428	Street Lighting	2,712	\$0.21	57	\$32,249
Sm Mun Pump ND	665	\$0.32	36	\$7,607	Sm Mun Pump ND	678	\$0.21	57	\$8,062
Small Mun Pump	269	\$0.96	36	\$9,231	Small Mun Pump	274	\$0.63	57	\$9,775
Large Mun Pump	67	\$1.28	36	\$3,066	Large Mun Pump	69	\$0.84	57	\$3,282
<b>Total</b>	<b>994,674</b>			<b>\$12,229,421</b>	<b>Total</b>	<b>1,014,177</b>			<b>\$12,962,062</b>

**Route A - Alternative Alignment, bottom north edge of Midtown Greenway**

3 Year Recovery					5 Year Recovery				
Excess Expenditures				<b>\$9,974,000</b>	Excess Expenditures				<b>\$9,974,000</b>
Carrying Charges				\$1,253,857	Carrying Charges				\$1,940,480
<b>Total</b>				<b>\$11,227,857</b>	<b>Total</b>				<b>\$11,914,480</b>
Customer Class	Customers	Surcharge	Months	Recovery	Customer Class	Customers	Surcharge	Months	Recovery
Residential	877,495	\$0.29	36	\$9,215,607	Residential	894,701	\$0.19	58	\$9,779,181
Res Low Income	17,908	\$0.29	36	\$188,073	Res Low Income	18,259	\$0.19	58	\$199,573
Small C&I ND	61,964	\$0.29	36	\$650,757	Small C&I ND	63,179	\$0.19	58	\$690,553
Small C&I	27,253	\$0.87	36	\$858,647	Small C&I	27,787	\$0.57	58	\$911,145
Large C&I	6,393	\$1.16	36	\$268,562	Large C&I	6,518	\$0.76	58	\$284,970
Street Lighting	2,660	\$0.29	36	\$27,936	Street Lighting	2,712	\$0.19	58	\$29,642
Sm Mun Pump ND	665	\$0.29	36	\$6,984	Sm Mun Pump ND	678	\$0.19	58	\$7,411
Small Mun Pump	269	\$0.87	36	\$8,475	Small Mun Pump	274	\$0.57	58	\$8,985
Large Mun Pump	67	\$1.16	36	\$2,815	Large Mun Pump	69	\$0.76	58	\$3,017
<b>Total</b>	<b>994,674</b>			<b>\$11,227,855</b>	<b>Total</b>	<b>1,014,177</b>			<b>\$11,914,477</b>

**Route D - 28th Street**

3 Year Recovery					5 Year Recovery				
Excess Expenditures				<b>\$13,612,250</b>	Excess Expenditures				<b>\$13,612,250</b>
Carrying Charges				\$1,692,925	Carrying Charges				\$2,640,139
<b>Total</b>				<b>\$15,305,175</b>	<b>Total</b>				<b>\$16,252,389</b>
Customer Class	Customers	Surcharge	Months	Recovery	Customer Class	Customers	Surcharge	Months	Recovery
Residential	877,495	\$0.40	36	\$12,562,183	Residential	894,701	\$0.26	57	\$13,339,654
Res Low Income	17,908	\$0.40	36	\$256,370	Res Low Income	18,259	\$0.26	57	\$272,235
Small C&I ND	61,964	\$0.40	36	\$887,074	Small C&I ND	63,179	\$0.26	57	\$941,975
Small C&I	27,253	\$1.20	36	\$1,170,459	Small C&I	27,787	\$0.78	57	\$1,242,881
Large C&I	6,393	\$1.60	36	\$366,088	Large C&I	6,518	\$1.04	57	\$388,724
Street Lighting	2,660	\$0.40	36	\$38,080	Street Lighting	2,712	\$0.26	57	\$40,435
Sm Mun Pump ND	665	\$0.40	36	\$9,520	Sm Mun Pump ND	678	\$0.26	57	\$10,109
Small Mun Pump	269	\$1.20	36	\$11,553	Small Mun Pump	274	\$0.78	57	\$12,256
Large Mun Pump	67	\$1.60	36	\$3,837	Large Mun Pump	69	\$1.04	57	\$4,115
<b>Total</b>	<b>994,674</b>			<b>\$15,305,164</b>	<b>Total</b>	<b>1,014,177</b>			<b>\$16,252,383</b>

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Route A - Proposed Alignment, southern shoulder of Midtown Greenway/29th Street									
<b>3 Year Recovery</b>					<b>5 Year Recovery</b>				
Excess Expenditures					Excess Expenditures				
\$10,878,000					\$10,878,000				
Carrying Charges					Carrying Charges				
\$1,328,026					\$2,201,114				
Total					Total				
\$12,206,026					\$13,079,114				
Customer Class	Customers	Surcharge	Months	Recovery	Customer Class	Customers	Surcharge	Months	Recovery
Residential	1,084,520	\$0.26	35	\$9,889,068	Residential	1,105,785	\$0.16	60	\$10,596,446
Res Low Income	22,133	\$0.26	35	\$201,817	Res Low Income	22,567	\$0.16	60	\$216,254
Small C&I ND	86,275	\$0.26	35	\$786,688	Small C&I ND	87,967	\$0.16	60	\$842,965
Small C&I	34,834	\$0.78	35	\$952,889	Small C&I	35,517	\$0.48	60	\$1,021,050
Large C&I	8,708	\$1.04	35	\$317,611	Large C&I	8,879	\$0.64	60	\$340,340
Street Lighting	3,466	\$0.26	35	\$31,604	Street Lighting	3,534	\$0.16	60	\$33,865
Sm Mun Pump ND	1,019	\$0.26	35	\$9,292	Sm Mun Pump ND	1,039	\$0.16	60	\$9,956
Small Mun Pump	467	\$0.78	35	\$12,775	Small Mun Pump	476	\$0.48	60	\$13,684
Large Mun Pump	117	\$1.04	35	\$4,267	Large Mun Pump	119	\$0.64	60	\$4,561
<b>Total</b>	<b>1,241,539</b>			<b>\$12,206,012</b>	<b>Total</b>	<b>1,265,883</b>			<b>\$13,079,122</b>

Route A - Alternative Alignment, bottom north edge of Midtown Greenway									
<b>3 Year Recovery</b>					<b>5 Year Recovery</b>				
Excess Expenditures					Excess Expenditures				
\$9,974,000					\$9,974,000				
Carrying Charges					Carrying Charges				
\$1,262,868					\$1,966,646				
Total					Total				
\$11,236,868					\$11,940,646				
Customer Class	Customers	Surcharge	Months	Recovery	Customer Class	Customers	Surcharge	Months	Recovery
Residential	1,084,520	\$0.23	36	\$9,103,897	Residential	1,105,785	\$0.15	58	\$9,674,071
Res Low Income	22,133	\$0.23	36	\$185,793	Res Low Income	22,567	\$0.15	58	\$197,430
Small C&I ND	86,275	\$0.23	36	\$724,227	Small C&I ND	87,967	\$0.15	58	\$769,588
Small C&I	34,834	\$0.69	36	\$877,232	Small C&I	35,517	\$0.45	58	\$932,172
Large C&I	8,708	\$0.92	36	\$292,394	Large C&I	8,879	\$0.60	58	\$310,715
Street Lighting	3,466	\$0.23	36	\$29,095	Street Lighting	3,534	\$0.15	58	\$30,918
Sm Mun Pump ND	1,019	\$0.23	36	\$8,554	Sm Mun Pump ND	1,039	\$0.15	58	\$9,090
Small Mun Pump	467	\$0.69	36	\$11,761	Small Mun Pump	476	\$0.45	58	\$12,493
Large Mun Pump	117	\$0.92	36	\$3,929	Large Mun Pump	119	\$0.60	58	\$4,164
<b>Total</b>	<b>1,241,539</b>			<b>\$11,236,881</b>	<b>Total</b>	<b>1,265,883</b>			<b>\$11,940,640</b>

Route D - 28th Street									
<b>3 Year Recovery</b>					<b>5 Year Recovery</b>				
Excess Expenditures					Excess Expenditures				
\$13,612,250					\$13,612,250				
Carrying Charges					Carrying Charges				
\$1,690,094					\$2,757,822				
Total					Total				
\$15,302,344					\$16,370,072				
Customer Class	Customers	Surcharge	Months	Recovery	Customer Class	Customers	Surcharge	Months	Recovery
Residential	1,084,520	\$0.32	36	\$12,397,643	Residential	1,105,785	\$0.20	60	\$13,262,719
Res Low Income	22,133	\$0.32	36	\$253,012	Res Low Income	22,567	\$0.20	60	\$270,667
Small C&I ND	86,275	\$0.32	36	\$986,249	Small C&I ND	87,967	\$0.20	60	\$1,055,071
Small C&I	34,834	\$0.96	36	\$1,194,610	Small C&I	35,517	\$0.60	60	\$1,277,966
Large C&I	8,708	\$1.28	36	\$398,180	Large C&I	8,879	\$0.80	60	\$425,977
Street Lighting	3,466	\$0.32	36	\$39,621	Street Lighting	3,534	\$0.20	60	\$42,387
Sm Mun Pump ND	1,019	\$0.32	36	\$11,649	Sm Mun Pump ND	1,039	\$0.20	60	\$12,462
Small Mun Pump	467	\$0.96	36	\$16,015	Small Mun Pump	476	\$0.60	60	\$17,127
Large Mun Pump	117	\$1.28	36	\$5,350	Large Mun Pump	119	\$0.80	60	\$5,709
<b>Total</b>	<b>1,241,539</b>			<b>\$15,302,330</b>	<b>Total</b>	<b>1,265,883</b>			<b>\$16,370,085</b>

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