BEFORE THE ARKANSAS PUBLIC SERVICE COMMISSION

IN THE MATTER OF THE FORMULA)	
RATE PLAN FILINGS OF OKLAHOMA)	
GAS AND ELECTRIC COMPANY)	DOCKET NO. 18-046-FR
PURSUANT TO APSC DOCKET)	
NO. 16-052-U)	

Direct Testimony and Exhibits

of

Kandace Smith

on behalf of

Oklahoma Gas and Electric Company

- Q. Please state your name, position, by whom you are employed, and your business
 address.
- 3 A. My name is Kandace Smith. I am the Manager of Grid Modernization for Oklahoma Gas
- 4 and Electric Company ("OG&E"). My business address is 321 N. Harvey, Oklahoma City,
- 5 Oklahoma, 73102.

6

17

- 7 Q. Please state your educational qualifications and employment history.
- 8 A. I received a Bachelor of Science in Electrical Engineering from Oklahoma Christian
- 9 University and a Master of Business Administration from Oklahoma Christian University.
- I have been employed by OG&E since 2003 and have held various positions within the
- organization including most recently Grid Innovation Manager and my current position,
- Manager Grid Modernization. Prior to the Grid Innovation Manager role, I served as a
- Product Innovation Manager, Manager of Business Relationship Management and
- Requirements, Manager of Energy Operations, Eastern Region Engineer, Senior
- Distribution Network Engineer, Distribution Planning Engineer, and Distribution
- Engineer.
- 18 Q. Please describe your current role and responsibilities.
- 19 A. My primary duties as Manager of Grid Modernization include leading a cross-functional
- 20 modeling and planning team to develop the Grid Modernization Plan in Arkansas and the
- Oklahoma Grid Enhancement Plan ("OGE Plan") in Oklahoma. This includes developing
- and maintaining the multi-year plan and forecast as well as developing each year's Annual
- Investment Plan. My responsibilities also include creating and maintaining the cost-benefit
- optimization model and ensuring planned project cost and benefits are accurate. While I
- am responsible for the modeling and planning of our grid enhancement plan, I also sit on
- 26 the OGE Plan steering team and coordinate with the execution team to provide support and
- direction on scope, benefits, and costs as the plan moves into the design and execution
- phases.

29

- 30 Q. Have you previously testified before this Commission?
- 31 A. No. However, I have previously testified before the Oklahoma Corporation Commission.

2 Q. What is the purpose of your testimony?

1

3

4

5

6

7

8

9

18

24

29

A. The purpose of my testimony is to discuss OG&E's Grid Modernization, specifically, the results and costs from the Company's Grid Modernization Series III investments included in this Evaluation Report. In addition, I will discuss the reporting required for Grid Modernization by the Settlement Agreement, as required by Order Nos. 7 and 15 in this Docket.

I. GRID MODERNIZATION SERIES II AND III

- 10 Q. Has the Company included any Grid Modernization projects in previous FRP filings?
- 12 Yes, both Series I and Series II Grid Modernizations have been included in previous
 12 Evaluation Reports and in the Settlement Agreement approved by Order No. 10 in this
 13 Docket, the settling parties agreed that Series I was prudent in both action and costs and
 14 that Series II was prudent in action and the costs will be reviewed when the actual historical
 15 costs are presented and reviewed in the netting process. Subsequently, the Commission
 16 found in Order No. 15 that the costs of OG&E's Series II investments included in the 2020
 17 Evaluation Report were prudent.
- Q. Please describe the work conducted through OG&E's Grid Modernization program
 during the Historical Year.
- A. During the Historical Year, the team completed execution of Series II and began execution of Series III, deploying structural integrity, functional integrity, and technology projects that will be completed before March 31, 2022.
- Q. What is the Company's plan for Series III investments for its Arkansas customers?
- A. We plan to invest approximately a total of \$22.3 million to modernize 391 miles of line across 18 distribution circuits and 5 substations, improving the experience for approximately 18,000 additional customers.

¹ Docket No. 18-046-FR Order No. 10 pg. 10.

1 Q. How much additional Grid Modernization investment is included in the Historical Year?

- A. The total additional investment for Series II was approximately \$0.7 million, and the additional investment for Series III was approximately \$1.9 million for a total of \$2.6 million in Grid Modernization investments. These are the amounts that closed to plant as of March 31, 2021, or the Evaluation Period.
- 8 Q. When will the remaining Series III investment be included in the FRP?

7

12

20

26

27

- 9 A. The Company plans to include the remaining \$20.4 million of Series III investments in its 5th Evaluation Report, with a Historic Year ending March 31, 2022. The \$20.4 million is net of the \$1.9 million included in this Evaluation Report Historic Year.
- 13 Q. Please describe the customer benefits achieved through these upgrades.
- 14 A. Through March 31, 2021, the customer benefits of the Series I projects continue to exceed
 15 expectations, while the Series II projects are performing as expected. Including storms,
 16 the Series I projects are trending 478 minutes better than the three-year average through
 17 the first two years, while the Series II projects are performing 153 minutes better than their
 18 three-year average through the first year. The modernized circuits continue to perform
 19 well in storms, and provide customers with an improved level of reliability.
- Q. How will Series III investments continue to build upon the reliability improvements realized in the Series I and II investments?
- A. The investments in Series III have similar reliability improvement projections as seen in Series I and II circuits. It is projected Series III circuits will see a three-year average improvement of 60% over the three-year historical performance including storms.

II. REQUIRED REPORTING

- 28 Q. Please explain the reporting requirements from Order No 7.
- A. Order No. 7 requires OG&E to include in each annual FRP filing current information associated with the following 2018 Data Requests: APSC 1-3, APSC 1-4 (with updated circuit selections), APSC 5-1, AG 2-1, AG 2-2 and AG 2-14, as recommended by Staff and

the Attorney General. In addition, Order No. 7 requires the filing of current information responsive to 2018 Data Requests AG 8-10 and 8-11.

3 Q. Were additional reporting requirements issued in Order No. 15?

10

18

27

28

29

30

- 4 A. Yes. Order No. 15 required the company "to file updated quarterly information similar to the information provided on an annual basis in the 2nd and 3rd FRP filings to continue to monitor the performance of the Company's Grid Modernization projects for Series I, Series II, and any future Grid Modernization projects." This information is substantially the same as that required by Order No. 7. The Company has filed these quarterly reports as required in this Docket, most recently on August 9, 2021.
- 11 Q. Is OG&E providing a cost-benefit analysis for its Grid Modernization investments as 12 required by the Settlement Agreement adopted in Order No. 15?
- 13 A. Yes. The output of the OG&E Grid Enhancement cost-benefit modeled is attached to this
 14 testimony with the economic benefits included (Direct Exhibit KS-1) and excluded (Direct
 15 Exhibit KS-2) as required by the Order. The model output displays the net present value of
 16 Grid Modernization investments with factors such as avoided O&M work, avoided truck
 17 rolls, and improvements to reliability metrics.
- 19 Q. Did the Company hold a stakeholder meeting regarding Grid Modernization within 20 90 days of the issuance of Order No. 15 as required by Settlement Agreement adopted 21 in that Order?
- 22 A. Yes. Order No. 15 was issued on March 9, 2021 and the stakeholder meeting was held 23 with Staff, the Attorney General, and Arkansas River Valley Energy Consumers on May 24 27, 2021. During this stakeholder meeting, OG&E provided an overview of its completed 25 Series I and II circuit investments, examples of Grid Modernization upgrades, and an 26 overview of its planned projects for Series III.

1 III. CONCLUSION 2 Q. What is your recommendation to the Commission? 3 I recommend the Commission find OG&E's Grid Modernization investments placed in-A. 4 service as of March 31, 2021 are prudent. 5 6 Does this conclude your testimony? Q. 7 A. Yes.

CERTIFICATE OF SERVICE

I, Lawrence E. Chisenhall, Jr., hereby state that a copy of the foregoing instrument was served on all the parties of record via the APSC Electronic Filing System on this the 1st day of October, 2021.

/s/ Lawrence E. Chisenhall, Jr.

Lawrence E. Chisenhall, Jr.

Page 1 of 4 APSC FILED Time: 10/1/2021 10:18:17 AM: Recvd 10/1/2021 10:13:59 AM: Docket 18-046-FR-Doc. 250

Includes 20% ICE Benefit

sub				Sum of	Sum of	Sum of Avoided
Hierarchy -	sub Hierarchy -		Sum of	Distribution	Distribution	Annual
sub		Sum of NPV	TotalCost	Line	Substation	O&M
BRANCH	Total	\$2,029,213			\$165,532	\$34,777
BRANCH	Sub	(\$144,250)	\$165,532		\$165,532	ψο 1,777
BRANCH	922462	\$32,805	\$2,735,330	\$2,735,330	· · · · ·	\$13,515
BRANCH	922463	\$2,140,658	\$2,003,599	\$2,003,599		\$21,262
HELBERG	Total	\$416,013			\$1,546,686	\$17,707
HELBERG	Sub	(\$1,347,835)	\$1,546,686	. , .	\$1,546,686	. ,
HELBERG	940621	\$873,486	\$897,156	\$897,156		\$9,226
HELBERG	940622	\$890,362	\$884,421	\$884,421		\$8,481
MASSARD	Total	\$3,396,803	\$3,423,363	\$3,175,066	\$248,297	\$40,536
MASSARD	Sub	(\$216,374)	\$248,297		\$248,297	
MASSARD	911121	\$658,576	\$415,967	\$415,967		\$7,601
MASSARD	911122	\$1,518,001	\$917,334	\$917,334		\$13,332
MASSARD	911123	\$190,201	\$433,741	\$433,741		\$3,925
MASSARD	911124	\$84,282	\$373,771	\$373,771		\$3,255
MASSARD	911129	(\$151,150)	\$362,168	\$362,168		\$1,376
MASSARD	911131	\$1,313,267	\$672,085	\$672,085		\$11,047
PARKVIEW	Total	\$1,375,392	\$5,677,282	\$3,716,768	\$1,960,514	\$38,092
PARKVIEW	Sub	(\$1,708,459)	\$1,960,514		\$1,960,514	
PARKVIEW	913721	\$579,910	\$1,307,522	\$1,307,522		\$12,261
PARKVIEW	913722	\$1,286,583	\$841,158	\$841,158		\$10,920
PARKVIEW	913723	\$831,779	\$757,702	\$757,702		\$8,281
PARKVIEW	913724	\$385,579	\$810,386	\$810,386		\$6,631
SOUTHSIDE	Total	\$1,233,550		\$4,387,332		\$39,374
SOUTHSIDE	Sub	(\$1,483,068)	\$1,701,871		\$1,701,871	
SOUTHSIDE	910921	\$1,473,360	\$1,004,805	\$1,004,805		\$16,276
SOUTHSIDE	910922	\$446,797	\$705,504			\$6,389
SOUTHSIDE	910923	\$458,317	\$1,052,279	\$1,052,279		\$6,334
SOUTHSIDE	910924	\$338,144	\$1,624,744	\$1,624,744		\$10,375

	Sum of Avoided			Sum of	
Sum of Avoided		Annual CAP	Sum of Avoided		Sum of Avoided
Annual CAP	Storm Cost	Storm Cost	O&M Work		Truck Rolls
\$113,216	\$57,552	\$32,666	21	59	70
	4	1			
\$39,288	\$31,687	\$17,985	10	20	27
\$73,928	\$25,865	\$14,681	12	39	43
\$60,421	\$28,543	\$16,201	10	31	35
400.050	4.5.500	40.45=			10
\$29,050	\$16,680	\$9,467	6	15	18
\$31,370	\$11,863	\$6,734	4	16	17
\$115,968	\$52,561	\$29,833	30	60	81
4.0.00	4	4	_		
\$19,463	\$5,767	\$3,273	6	10	15
\$44,016	\$15,269	\$8,667	8	23	27
\$12,110	\$333	\$189	3	6	8
\$8,747	\$24	\$13	3	5	7
\$3,409	\$212	\$120	1	2	3
\$28,223	\$30,955	\$17,570	9	15	22
\$118,649	\$44,270	\$25,127	25	62	76
\$30,673	\$14,911	\$8,463	10	16	25
\$41,012	\$7,375	\$4,186	5	21	22
\$26,144	\$15,150	\$8,599	5	14	17
\$20,820	\$6,835	\$3,879	4	11	13
\$129,635	\$29,502	\$16,745	24	67	79
\$48,003	\$6,215	\$3,527	11	25	33
\$20,804	\$5,353	\$3,038	4	11	13
\$23,645	\$15,633	\$8,873	3	12	13
\$37,184	\$2,301	\$1,306	5	19	21

AvoidedHours of Interruption Interruption Sum of Reduction of Duration					f	Sum o	Sum of	
Work Reduction CMIReduction Events Reduction 80 47 59,257 268,623 14 30 16 28,203 204,106 8 50 31 31,053 64,517 6 41 25 27,121 72,106 11 21 12 16,802 32,700 4 20 13 10,318 39,407 7 90 48 86,647 297,897 9 16 8 18,756 91,664 2 31 18 22,042 69,570 3 9 5 7,419 13,263 0 7 4 7,580 16,264 0 3 1 3,519 891 1 24 12 27,331 106,245 3 87 49 70,790 219,917 14 26 13 31,046 28,262 5	vent	Sum of Ev	Sum of		ntary	Mome	Sustained	Sum of Total
80 47 59,257 268,623 14 30 16 28,203 204,106 8 50 31 31,053 64,517 6 41 25 27,121 72,106 11 21 12 16,802 32,700 4 20 13 10,318 39,407 7 90 48 86,647 297,897 9 16 8 18,756 91,664 2 31 18 22,042 69,570 3 9 5 7,419 13,263 0 7 4 7,580 16,264 0 3 1 3,519 891 1 24 12 27,331 106,245 3 87 49 70,790 219,917 14 26 13 31,046 28,262 5 26 17 12,602 133,405 4 19 11 15,004 28,555 4 15 9 12,138		Duration	Reduction of	Sum of	uption	Interr	Interruption	AvoidedHours of
30 16 28,203 204,106 8 50 31 31,053 64,517 6 41 25 27,121 72,106 11 21 12 16,802 32,700 4 20 13 10,318 39,407 7 90 48 86,647 297,897 9 16 8 18,756 91,664 2 31 18 22,042 69,570 3 9 5 7,419 13,263 0 7 4 7,580 16,264 0 3 1 3,519 891 1 24 12 27,331 106,245 3 87 49 70,790 219,917 14 26 13 31,046 28,262 5 26 17 12,602 133,405 4 19 11 15,004 28,555 4 15 9 12,138 29,695 2 91 54 65,488 197,541 16	n	Reduction	Events	CMIReduction	tion	Reduc	Reduction	Work
50 31 31,053 64,517 6 41 25 27,121 72,106 11 21 12 16,802 32,700 4 20 13 10,318 39,407 7 90 48 86,647 297,897 9 16 8 18,756 91,664 2 31 18 22,042 69,570 3 9 5 7,419 13,263 0 7 4 7,580 16,264 0 3 1 3,519 891 1 24 12 27,331 106,245 3 87 49 70,790 219,917 14 26 13 31,046 28,262 5 26 17 12,602 133,405 4 19 11 15,004 28,555 4 15 9 12,138 29,695 2 91 54 65,488 197,541 16	623		14	268,623	59,257	47		80
50 31 31,053 64,517 6 41 25 27,121 72,106 11 21 12 16,802 32,700 4 20 13 10,318 39,407 7 90 48 86,647 297,897 9 16 8 18,756 91,664 2 31 18 22,042 69,570 3 9 5 7,419 13,263 0 7 4 7,580 16,264 0 3 1 3,519 891 1 24 12 27,331 106,245 3 87 49 70,790 219,917 14 26 13 31,046 28,262 5 26 17 12,602 133,405 4 19 11 15,004 28,555 4 15 9 12,138 29,695 2 91 54 65,488 197,541 16								
41 25 27,121 72,106 11 21 12 16,802 32,700 4 20 13 10,318 39,407 7 90 48 86,647 297,897 9 16 8 18,756 91,664 2 31 18 22,042 69,570 3 9 5 7,419 13,263 0 7 4 7,580 16,264 0 3 1 3,519 891 1 24 12 27,331 106,245 3 87 49 70,790 219,917 14 26 13 31,046 28,262 5 26 17 12,602 133,405 4 19 11 15,004 28,555 4 15 9 12,138 29,695 2 91 54 65,488 197,541 16	343		8	204,106	28,203	16		30
21 12 16,802 32,700 4 20 13 10,318 39,407 7 90 48 86,647 297,897 9 16 8 18,756 91,664 2 31 18 22,042 69,570 3 9 5 7,419 13,263 0 7 4 7,580 16,264 0 3 1 3,519 891 1 24 12 27,331 106,245 3 87 49 70,790 219,917 14 26 13 31,046 28,262 5 26 17 12,602 133,405 4 19 11 15,004 28,555 4 15 9 12,138 29,695 2 91 54 65,488 197,541 16	280		6	64,517	31,053	31		50
20 13 10,318 39,407 7 90 48 86,647 297,897 9 16 8 18,756 91,664 2 31 18 22,042 69,570 3 9 5 7,419 13,263 0 7 4 7,580 16,264 0 3 1 3,519 891 1 24 12 27,331 106,245 3 87 49 70,790 219,917 14 26 13 31,046 28,262 5 26 17 12,602 133,405 4 19 11 15,004 28,555 4 15 9 12,138 29,695 2 91 54 65,488 197,541 16	309		11	72,106	27,121	25		41
20 13 10,318 39,407 7 90 48 86,647 297,897 9 16 8 18,756 91,664 2 31 18 22,042 69,570 3 9 5 7,419 13,263 0 7 4 7,580 16,264 0 3 1 3,519 891 1 24 12 27,331 106,245 3 87 49 70,790 219,917 14 26 13 31,046 28,262 5 26 17 12,602 133,405 4 19 11 15,004 28,555 4 15 9 12,138 29,695 2 91 54 65,488 197,541 16								
90 48 86,647 297,897 9 16 8 18,756 91,664 2 31 18 22,042 69,570 3 9 5 7,419 13,263 0 7 4 7,580 16,264 0 3 1 3,519 891 1 24 12 27,331 106,245 3 87 49 70,790 219,917 14 26 13 31,046 28,262 5 26 17 12,602 133,405 4 19 11 15,004 28,555 4 15 9 12,138 29,695 2 91 54 65,488 197,541 16	180		4	32,700	16,802	12		21
16 8 18,756 91,664 2 31 18 22,042 69,570 3 9 5 7,419 13,263 0 7 4 7,580 16,264 0 3 1 3,519 891 1 24 12 27,331 106,245 3 87 49 70,790 219,917 14 26 13 31,046 28,262 5 26 17 12,602 133,405 4 19 11 15,004 28,555 4 15 9 12,138 29,695 2 91 54 65,488 197,541 16	128		7	39,407	10,318	13		20
31 18 22,042 69,570 3 9 5 7,419 13,263 0 7 4 7,580 16,264 0 3 1 3,519 891 1 24 12 27,331 106,245 3 87 49 70,790 219,917 14 26 13 31,046 28,262 5 26 17 12,602 133,405 4 19 11 15,004 28,555 4 15 9 12,138 29,695 2 91 54 65,488 197,541 16	569		9	297,897	86,647	48		90
31 18 22,042 69,570 3 9 5 7,419 13,263 0 7 4 7,580 16,264 0 3 1 3,519 891 1 24 12 27,331 106,245 3 87 49 70,790 219,917 14 26 13 31,046 28,262 5 26 17 12,602 133,405 4 19 11 15,004 28,555 4 15 9 12,138 29,695 2 91 54 65,488 197,541 16								
9 5 7,419 13,263 0 7 4 7,580 16,264 0 3 1 3,519 891 1 24 12 27,331 106,245 3 87 49 70,790 219,917 14 26 13 31,046 28,262 5 26 17 12,602 133,405 4 19 11 15,004 28,555 4 15 9 12,138 29,695 2 91 54 65,488 197,541 16	62			91,664	18,756	8		16
7 4 7,580 16,264 0 3 1 3,519 891 1 24 12 27,331 106,245 3 87 49 70,790 219,917 14 26 13 31,046 28,262 5 26 17 12,602 133,405 4 19 11 15,004 28,555 4 15 9 12,138 29,695 2 91 54 65,488 197,541 16	165							
3 1 3,519 891 1 24 12 27,331 106,245 3 87 49 70,790 219,917 14 26 13 31,046 28,262 5 26 17 12,602 133,405 4 19 11 15,004 28,555 4 15 9 12,138 29,695 2 91 54 65,488 197,541 16	4							
24 12 27,331 106,245 3 87 49 70,790 219,917 14 26 13 31,046 28,262 5 26 17 12,602 133,405 4 19 11 15,004 28,555 4 15 9 12,138 29,695 2 91 54 65,488 197,541 16	0		0	·		4		
87 49 70,790 219,917 14 26 13 31,046 28,262 5 26 17 12,602 133,405 4 19 11 15,004 28,555 4 15 9 12,138 29,695 2 91 54 65,488 197,541 16	2				3,519	1		3
26 13 31,046 28,262 5 26 17 12,602 133,405 4 19 11 15,004 28,555 4 15 9 12,138 29,695 2 91 54 65,488 197,541 16	335			<u> </u>	· · · · · · · · · · · · · · · · · · ·			
26 17 12,602 133,405 4 19 11 15,004 28,555 4 15 9 12,138 29,695 2 91 54 65,488 197,541 16	479		14	219,917	70,790	49		87
26 17 12,602 133,405 4 19 11 15,004 28,555 4 15 9 12,138 29,695 2 91 54 65,488 197,541 16								
19 11 15,004 28,555 4 15 9 12,138 29,695 2 91 54 65,488 197,541 16	161		5	28,262	31,046	13		
15 9 12,138 29,695 2 91 54 65,488 197,541 16	80			<u> </u>	<u> </u>			
91 54 65,488 197,541 16	164		4	28,555	15,004	11		19
	74			29,695				
36 20 33,207 99,837 6	319		16	197,541	65,488	54		91
36 20 33,207 99,837 6								
	67			· · · · · · · · · · · · · · · · · · ·				
15 9 10,880 29,813 3	58			· · · · · · · · · · · · · · · · · · ·				
15 10 7,467 26,029 3	169			•	•			
25 15 13,933 41,861 4	25		4	41,861	13,933	15		25

		Sum of Customer		
Sum of Event		Interruption Cost		
CMI	Sum of Reduction	Reduction	Sum of	Sum of
Reduction	in Isolation Time	(ICE Benefits)	Customers	Miles
546,615	468	\$16,632,882	1,737	139
340,013	400	710,032,002	1,737	133
330,068	162	\$5,757,536	963	52
216,547	306	\$10,875,346	774	87
263,526	250	\$8,885,086	1,713	42
151,372	120	\$4,264,842	839	22
112,154	130	\$4,620,245	874	20
740,300	478	\$16,988,285	4,891	83
60,136	80	\$2,843,228	964	14
155,914	182	\$6,468,343	944	17
1,986	50	\$1,777,017	551	11
135	36	\$1,279,452	531	13
790	14	\$497,565	344	8
521,340	116	\$4,122,680	1,557	20
525,154	490	\$17,414,770	4,449	61
229,675	126	\$4,478,084	1,424	18
113,989	170	\$6,041,859	1,429	21
115,693	108	\$3,838,357	706	11
65,797	86	\$3,056,470	890	12
338,722	536	\$19,049,625	4,932	71
		4		
95,256	198	\$7,036,988	1,417	20
55,298	86	\$3,056,470	955	19
145,928	98	\$3,482,954	863	15
42,240	154	\$5,473,213	1,697	18

Excludes ICE Benefit (0%)

				Sum of	Sum of	Sum of
sub Hierarchy	sub Hierarchy -		Sum of	Distribution	Distribution	Avoided
- sub	circuit_id	Sum of NPV	TotalCost	Line	Substation	Annual O&M
BRANCH	Total	(\$1,246,661)	\$4,904,461	\$4,738,929	\$165,532	\$34,777
BRANCH	Sub	(\$144,250)	\$165,532		\$165,532	
BRANCH	922462	(\$1,101,152)	\$2,735,330	\$2,735,330		\$13,515
BRANCH	922463	(\$1,259)	\$2,003,599	\$2,003,599		\$21,262
HELBERG	Total	(\$1,333,919)	\$3,328,263	\$1,781,577	\$1,546,686	\$17,707
HELBERG	Sub	(\$1,347,835)	\$1,546,686		\$1,546,686	
HELBERG	940621	\$33,519	\$897,156	\$897,156		\$9,226
HELBERG	940622	(\$19,603)	\$884,421	\$884,421		\$8,481
MASSARD	Total	\$50,932	\$3,423,363	\$3,175,066	\$248,297	\$40,536
MASSARD	Sub	(\$216,374)	\$248,297		\$248,297	
MASSARD	911121	\$98,598	\$415,967	\$415,967		\$7,601
MASSARD	911122	\$244,050	\$917,334	\$917,334		\$13,332
MASSARD	911123	(\$159,786)	\$433,741	\$433,741		\$3,925
MASSARD	911124	(\$167,708)	\$373,771	\$373,771		\$3,255
MASSARD	911129	(\$249,146)	\$362,168	\$362,168		\$1,376
MASSARD	911131	\$501,298	\$672,085	\$672,085		\$11,047
PARKVIEW	Total	(\$2,054,477)	\$5,677,282	\$3,716,768	\$1,960,514	\$38,092
PARKVIEW	Sub	(\$1,708,459)	\$1,960,514		\$1,960,514	
PARKVIEW	913721	(\$302,056)	\$1,307,522	\$1,307,522		\$12,261
PARKVIEW	913722	\$96,628	\$841,158	\$841,158		\$10,920
PARKVIEW	913723	\$75,808	\$757,702	\$757,702		\$8,281
PARKVIEW	913724	(\$216,398)	\$810,386	\$810,386		\$6,631
SOUTHSIDE	Total	(\$2,518,305)	\$6,089,203	\$4,387,332	\$1,701,871	\$39,374
SOUTHSIDE	Sub	(\$1,483,068)	\$1,701,871		\$1,701,871	
SOUTHSIDE	910921	\$87,414	\$1,004,805	\$1,004,805		\$16,276
SOUTHSIDE	910922	(\$155,180)	\$705,504	\$705,504		\$6,389
SOUTHSIDE	910923	(\$227,656)	\$1,052,279	\$1,052,279		\$6,334
SOUTHSIDE	910924	(\$739,815)	\$1,624,744	\$1,624,744		\$10,375

Sum of Avoided	Sum of Avoided Annual O&M	Sum of Avoided Annual CAP	Sum of Avoided O&M	Sum of Avoided CAP	Sum of Avoided Truck	Sum of Total AvoidedH ours of	Interruption
Annual CAP \$113,216	Storm Cost \$57,552	Storm Cost \$32,666	Work 21	Work 59	Rolls 70	Work 80	Reduction 47
Ş113,210	337,332	332,000	21	39	70	80	47
\$39,288	\$31,687	\$17,985	10	20	27	30	16
\$73,928	\$25,865	\$14,681	12	39	43	50	31
\$60,421	\$28,543	\$16,201	10	31	35	41	25
\$29,050	\$16,680	\$9,467	6	15	18	21	12
\$31,370	\$11,863	\$6,734	4	16	17	20	13
\$115,968	\$52,561	\$29,833	30	60	81	90	48
\$19,463	\$5,767		6	10	15	16	8
\$44,016	\$15,269		8	23	27	31	18
\$12,110	\$333	\$189	3	6	8	9	5
\$8,747	\$24	· · · · · · · · · · · · · · · · · · ·	3	5	7	7	4
\$3,409	\$212	\$120	1	2	3	3	1
\$28,223	\$30,955	\$17,570	9	15	22	24	12
\$118,649	\$44,270	\$25,127	25	62	76	87	49
100.000							
\$30,673	\$14,911	\$8,463	10	16	25	26	13
\$41,012	\$7,375	\$4,186	5	21	22	26	17
\$26,144	\$15,150		5	14	17	19	11
\$20,820	\$6,835	\$3,879	4	11	13	15	9
\$129,635	\$29,502	\$16,745	24	67	79	91	54
\$48,003	\$6,215	\$3,527	11	25	33	36	20
\$48,003	\$5,215		4	11	13	15	9
\$20,804	\$5,353	\$3,038 \$8,873	3	12	13	15	10
\$23,645	\$15,633	\$1,306	5	19	21	25	15
357,184	\$2,301	\$1,300	5	19	21	25	15

Sum of			Sum of			Sum of
Momentary		Sum of	Event	Sum of Event	Sum of	Customer
Interruption	Sum of	Reduction of	Duration	СМІ	Reduction in	Interruption
Reduction	CMIReduction	Events	Reduction	Reduction	Isolation Time	Cost Reduction
59,257	268,623	14	623	546,615	468	\$16,632,882
28,203	204,106	8	343	330,068	162	\$5,757,536
31,053	64,517	6	280	216,547	306	\$10,875,346
27,121	72,106	11	309	263,526	250	\$8,885,086
16,802	32,700	4	180	151,372	120	\$4,264,842
10,318	39,407	7	128	112,154	130	\$4,620,245
86,647	297,897	9	569	740,300	478	\$16,988,285
18,756	91,664	2	62	60,136	80	\$2,843,228
22,042	69,570	3	165	155,914	182	\$6,468,343
7,419	13,263	0	4	1,986	50	\$1,777,017
7,580	16,264	0	0	135	36	\$1,279,452
3,519	891	1	2	790	14	\$497,565
27,331	106,245	3	335	521,340	116	\$4,122,680
70,790	219,917	14	479	525,154	490	\$17,414,770
31,046	28,262	5	161	229,675	126	\$4,478,084
12,602	133,405	4	80	113,989	170	\$6,041,859
15,004	28,555	4	164	115,693	108	\$3,838,357
12,138	29,695	2	74	65,797	86	\$3,056,470
65,488	197,541	16	319	338,722	536	\$19,049,625
33,207	99,837	6	67	95,256	198	\$7,036,988
10,880	29,813	3	58	55,298	86	\$3,056,470
7,467	26,029	3	169	145,928	98	\$3,482,954
13,933	41,861	4	25	42,240	154	\$5,473,213

Comp. of	Comp. of
Sum of	Sum of
Customers	Miles
1,737	139
963	3 52
774	
1,713	
2,7 20	<u>. </u>
839) 22
874	
4,891	
964	14
944	17
551	. 11
531	. 13
344	
1,557	20
4,449	61
1,424	
1,429	
706	
890	
4,932	2 71
1,417	
955	
863	
1,697	18