Exhibit No.:

Issues: Weather Normalization

Witness: Manisha Lakhanpal Sponsoring Party: MO PSC Staff

Type of Exhibit: Surrebuttal Testimony

Case No.: GR-2009-0355

Date Testimony Prepared: October 14, 2009

MISSOURI PUBLIC SERVICE COMMISSION UTILITY OPERATIONS DIVISION

SURREBUTTAL TESTIMONY

OF

MANISHA LAKHANPAL

MISSOURI GAS ENERGY

CASE NO. GR-2009-0355

Jefferson City, Missouri October 2009 **FILED**³

NOV 9 2009

Missouri Public Service Commission

Denotes Highly Confidential Information

Case No(s). GR - 2008 - 0355
Date W - 26-08 Rptr 45

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BEFORE THE PUBLIC SERVICE COMMISSION

OF THE STATE OF MISSOURI

In the Matter of Missouri Ga Its Tariff Filing to Impleme Rate Increase for Natural Gas)	Case No. GR-2009-0355						
AFFIDAVIT OF MANISHA LAKHANPAL								
STATE OF MISSOURI)) ss)			· ·				
Manisha Lakhanpal, of the preparation of the follow consisting of pages of that the answers in the follow knowledge of the matters set best of her knowledge and be	wing Surrebutta f Surrebuttal T wing Surrebutta t forth in such a	al Testimon estimony to al Testimony	y in question and be presented in were given by h	d answer form, the above case, her; that she has				
		<u> M</u>	Manisha Lakh	Lakhanpel				
Subscribed and sworn to before	ore me this 14	П	ctober, 2009.					
SUSAN L SUNDERMEYE My Commission Expires September 21, 2010		Sus	Notary Public	rdermeyer_				

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11	Q. Please state your name and business address.									
13	A. My name is Manisha Lakhanpal and my business address is Missouri									
14	Public Service Commission, P. O. Box 360, Jefferson City, Missouri, 65102.									
15	Q. Are you the same Manisha Lakhanpal that previously filed rebuttal									
16	testimony in this case, in this case?									
17	A. Yes, I am.									
18	SUMMARY									
19	Q. What is the purpose of your surrebuttal testimony?									
20	A. I will address the written rebuttal testimony of Missouri Gas Energy									
21	(MGE or Company) witness Larry Loos on issues related to weather normals used for									
22	weather normalization.									
23	WEATHER NORMAL METHODOLOGY									
24	Q. What is your justification for using a NOAA 30-year normal for weather									
25	normalization?									
26	A. In my rebuttal testimony I presented the justification for using the 30-year									
27	Normal. The 30-year normals period is the international standard that is long enough to									
28	include changes in weather patterns, and it is accepted by national weather agencies, such									
29	as NOAA that determine the standards. In Case No. GR-92-165 Missouri State									

Surrebuttal Testimony of Manisha Lakhanpal

Climatologist Dr. Wayne Decker recommended that the Commission use the NOAA 30-year normals. This position was reaffirmed by State Climatologist Dr Steve Qi Hu in Case No. GR-99-315.

In Missouri the use of 30-year no	rmals is	the standard	d approach	for weather
normalization for all regulated utilities.	**			
	 			
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Q. Do you agree with the assumption of a trend as used in the Hinge-Fit model for MGE service territory?

A. No, I do not, because the HDD data pertaining to MGE service territory does not show a climate trend as assumed by the Company in its analysis. The climate change (warming trend) began in 1975 and was an underlying assumption in the Hinge-Fit model, which was originally estimated using data from 102 climate divisions across the entire country. A model that is used at a global or a nation-wide level may not necessarily be the best fit for regional or a local level weather data analysis. That is precisely what is evident from the graph shown in my rebuttal testimony (page 8). The data show that the HDDs have increased (it has become cooler) over the years in the MGE service territory (climate divisions 1, 3, and 4). Since that is the case, it would be inappropriate to apply a model which assumes otherwise.

Surrebuttal Testimony of Manisha Lakhanpal

CONCLUSION

- Q. Please summarize your Surrebuttal Testimony.
- A. Staff is not recommending any change in methodology in determining weather normals. MGE's proposed Hinge-Fit model forecasts future weather normals thus setting an expectation of future weather in their service territory. Because it is not realistic to try to predict weather, Staff would not recommend using a methodology that forecasts weather and sets an expectation for future weather normals to design rates. The current Staff methodology has been endorsed by past Missouri State Climatologists, and adopted by the Commission. Staff continues to recommend that the current 1971-2000 time period of NOAA's Monthly Station Normals be used as the basis for weather normalization in the present MGE rate case.
 - Q. Does this conclude your Surrebuttal Testimony?
- A. Yes, it does.