



UTILITIES CO.

A Subsidiary of MDU Resources Group, Inc.

400 North Fourth Street  
Bismarck, ND 58501  
(701) 222-7900

January 15, 2019

Executive Secretary  
North Dakota Public Service Commission  
State Capitol  
Bismarck, ND 58505-0480

Re: Electric Meter Test Results

Pursuant to Section 69-09-02-28, Item 3, Montana-Dakota Utilities Co. (Montana-Dakota), a Subsidiary of MDU Resources Group, Inc., herewith files the results of its 2017 and 2018 sample meter tests on residential, commercial and industrial watt-hour meters. The results of the random sample tests for each meter group and vintage class, as shown on Attachments A and B, indicate that for 2017 and 2018, respectively, the percent defective is within allowable limits described in Montana-Dakota's approved meter testing plan.

Please acknowledge receipt by stamping or initiating the duplicate copy of this letter attached hereto and returning the same in the enclosed self-addressed, stamped envelope.

Sincerely,

A handwritten signature in blue ink that reads 'Tamie A. Aberle'.

Tamie A. Aberle  
Director of Regulatory Affairs

Attachments

**Montana-Dakota Utilities Co.  
Electric Utility  
Meter Test Report – Year 2017  
Results of Sample Tests  
on Residential, Commercial and Industrial Watthour Meters  
North Dakota, South Dakota, Montana and Wyoming**

<u>Meter Group &amp; Vintage Class</u>	<u>Minimum Number Sampled</u>	<u>Number of Meters Represented</u>	<u>Percent Fast</u>	<u>Percent Slow</u>	<u>Total Percent Defective<sup>1</sup></u>
D (1980-1989)	20	89	<0.001	<0.001	<0.002
E (1990-1999)	30	188	<0.001	<0.001	<0.002
F (2000-2009)	150	83,466	<0.003	<0.003	<0.006
G (2010-2015)	150	51,710	<0.003	<0.003	<0.006
S <sup>2</sup> (1990-1999)	5	9	<0.001	<0.001	<0.002
T <sup>2</sup> (2000-2009)	50	1346	<0.001	<0.001	<0.002
H <sup>2</sup> (2010-2015)	50	1342	<0.001	<0.001	<0.002
Y <sup>2</sup> (1990-1999)	5	10	<0.001	<0.001	<0.002
Z <sup>2</sup> (2000-2009)	75	3,583	<0.002	<0.002	<0.004
J <sup>2</sup> (2010-2015)	50	2,720	<0.001	<0.001	<0.002

1/ The maximum total percent defective limits as described in Rate 131 for North Dakota and Montana and Rate 115 for Wyoming and Chapter 3, Section 18 of the Commission Procedural Rules and Regulations are:

- 4% for Residential vintage groups D, E, F, G
- 2% for Commercial vintage groups S, T, H
- 1% for Industrial vintage groups Y, Z, J

2/ The S, T, H, Y, Z and J are groups of solid state electric watthour meters.

**Montana-Dakota Utilities Co.  
Electric Utility  
Meter Test Report – Year 2018  
Results of Sample Tests  
on Residential, Commercial and Industrial Watthour Meters  
North Dakota, South Dakota, Montana and Wyoming**

<u>Meter Group &amp; Vintage Class</u>	<u>Minimum Number Sampled</u>	<u>Number of Meters Represented</u>	<u>Percent Fast</u>	<u>Percent Slow</u>	<u>Total Percent Defective<sup>1</sup></u>
D (1980-1989)	20	67	<0.001	<0.001	<0.002
E (1990-1999)	25	150	<0.001	<0.001	<0.002
F (2000-2009)	150	82,290	<0.003	<0.003	<0.006
G (2010-2016)	150	50,645	<0.003	<0.003	<0.006
S <sup>2</sup> (1990-1999)	3	7	<0.001	<0.001	<0.002
T <sup>2</sup> (2000-2009)	40	1,230	<0.001	<0.001	<0.002
H <sup>2</sup> (2010-2016)	50	1,606	<0.001	<0.001	<0.002
Y <sup>2</sup> (1990-1999)	3	7	<0.001	<0.001	<0.002
Z <sup>2</sup> (2000-2009)	75	3,378	<0.002	<0.002	<0.004
J <sup>2</sup> (2010-2016)	50	2,609	<0.001	<0.001	<0.002

1/ The maximum total percent defective limits as described in Rate 131 for North Dakota and Montana and Rate 115 for Wyoming and Chapter 3, Section 18 of the Commission Procedural Rules and Regulations are:

- 4% for Residential vintage groups D, E, F, G
- 2% for Commercial vintage groups S, T, H
- 1% for Industrial vintage groups Y, Z, J

2/ The S, T, H, Y, Z and J are groups of solid state electric watthour meters.