



UTILITIES CO.

A Division of MDU Resources Group, Inc.

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

December 22, 2017

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 Division of MDU Resources Group, Inc., herewith files the results of its 2016 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 Attachment A, indicate that for 2016 the percent defective are 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 2016  
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	105	<0.001	<0.001	<0.002
E (1990-1999)	30	230	<0.001	<0.001	<0.002
F (2000-2009)	150	83,323	<0.003	<0.003	<0.006
G (2010-2014)	150	46,470	<0.003	<0.003	<0.006
S <sup>2</sup> (1990-1999)	4	7	<0.001	<0.001	<0.002
T <sup>2</sup> (2000-2009)	40	1,238	<0.001	<0.001	<0.002
H <sup>2</sup> (2010-2014)	40	917	<0.001	<0.001	<0.002
Y <sup>2</sup> (1990-1999)	5	15	<0.001	<0.001	<0.002
Z <sup>2</sup> (2000-2009)	75	3,437	<0.002	<0.002	<0.004
J <sup>2</sup> (2010-2014)	50	2,218	<0.001	<0.001	<0.002

1/ The maximum total percent defective limits as described in Rate 131 for North Dakota, Montana and Chapter II of the Rules of the Wyoming Public Service Commission 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.