

Case No.: PU-16-666
Witness: JM Thomas
Date: 24-Feb-17
Exhibit No.: PSC-11
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MONTANA-DAKOTA UTILITIES CO.
BILLING COMPARISON AT VARIOUS USAGE LEVELS
RESIDENTIAL RATE 10

WINTER MONTH BILL, ASSUMING 30 BILLING DAYS
Present Rate vs. Proposed Rate with Declining Energy Block Charges

Line No.	kWh Usage	Present Rate		Proposed Rate - Declining Block		Increase/(Decrease)	
		Amount	¢ per kWh	Amount	¢ per kWh	Amount	Percent
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1	0	\$10.50	-	\$19.50	-	\$9.00	85.7%
2	50	\$15.39	30.8	\$24.30	48.6	\$8.91	57.9%
3	100	\$20.28	20.3	\$29.11	29.1	\$8.83	43.5%
4	200	\$30.05	15.0	\$38.71	19.4	\$8.66	28.8%
5	300	\$39.83	13.3	\$48.32	16.1	\$8.49	21.3%
6	400	\$49.61	12.4	\$57.92	14.5	\$8.31	16.8%
7	500	\$59.39	11.9	\$67.53	13.5	\$8.14	13.7%
8	600	\$69.16	11.5	\$77.14	12.9	\$7.98	11.5%
9	700	\$78.94	11.3	\$86.74	12.4	\$7.80	9.9%
10	800	\$87.22	10.9	\$94.85	11.9	\$7.63	8.7%
11	900	\$93.99	10.4	\$101.45	11.3	\$7.46	7.9%
12	1,000	\$100.77	10.1	\$108.06	10.8	\$7.29	7.2%
13	1,200	\$114.32	9.5	\$121.27	10.1	\$6.95	6.1%
14	1,250	\$117.71	9.4	\$124.58	10.0	\$6.87	5.8%
15	1,500	\$134.66	9.0	\$141.09	9.4	\$6.43	4.8%
16	1,750	\$151.60	8.7	\$157.61	9.0	\$6.01	4.0%
17	2,000	\$168.54	8.4	\$174.12	8.7	\$5.58	3.3%
18	2,500	\$202.43	8.1	\$207.15	8.3	\$4.72	2.3%
19	3,000	\$236.31	7.9	\$240.18	8.0	\$3.87	1.6%
20	3,500	\$270.20	7.7	\$273.21	7.8	\$3.01	1.1%
21	4,000	\$304.08	7.6	\$306.24	7.7	\$2.16	0.7%

RATE CHARGES

	<u>Present Rates</u>	<u>Proposed Rates</u>
Basic Service Charge	\$0.35 per day	\$0.65 per day
Energy Charges:		
First 750 kWh	\$0.05304 per kWh	\$0.06066 per kWh
Over 750 kWh	\$0.02304 per kWh	\$0.03066 per kWh
Generation Rider	\$0.00500 per kWh	\$0.00000 per kWh
Environmental Rider	\$0.00396 per kWh	\$0.00000 per kWh
Transmission Rider	\$0.00329 per kWh	\$0.00298 per kWh
Renewable Rider	\$0.00712 per kWh	\$0.00706 per kWh
Base Fuel & Purchased Power	\$0.02536 per kWh	\$0.02536 per kWh

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MONTANA-DAKOTA UTILITIES CO.
BILLING COMPARISON AT VARIOUS USAGE LEVELS
RESIDENTIAL RATE 10

WINTER MONTH BILL, ASSUMING 30 BILLING DAYS
Present Rate vs. Proposed Rate with Flat Energy Charge

Line No.	kWh Usage	Present Rate		Proposed Rate - Declining Block		Increase/(Decrease)	
		Amount	¢ per kWh	Amount	¢ per kWh	Amount	Percent
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1	0	\$10.50	-	\$19.50	-	\$9.00	85.7%
2	50	\$15.39	30.8	\$23.72	47.4	\$8.33	54.1%
3	100	\$20.28	20.3	\$27.94	27.9	\$7.66	37.8%
4	200	\$30.05	15.0	\$36.38	18.2	\$6.33	21.1%
5	300	\$39.83	13.3	\$44.82	14.9	\$4.99	12.5%
6	400	\$49.61	12.4	\$53.26	13.3	\$3.65	7.4%
7	500	\$59.39	11.9	\$61.70	12.3	\$2.31	3.9%
8	600	\$69.16	11.5	\$70.14	11.7	\$0.98	1.4%
9	700	\$78.94	11.3	\$78.58	11.2	(\$0.36)	-0.5%
10	800	\$87.22	10.9	\$87.02	10.9	(\$0.20)	-0.2%
11	900	\$93.99	10.4	\$95.46	10.6	\$1.47	1.6%
12	1,000	\$100.77	10.1	\$103.90	10.4	\$3.13	3.1%
13	1,200	\$114.32	9.5	\$120.78	10.1	\$6.46	5.7%
14	1,250	\$117.71	9.4	\$125.00	10.0	\$7.29	6.2%
15	1,500	\$134.66	9.0	\$146.10	9.7	\$11.44	8.5%
16	1,750	\$151.60	8.7	\$167.20	9.6	\$15.60	10.3%
17	2,000	\$168.54	8.4	\$188.30	9.4	\$19.76	11.7%
18	2,500	\$202.43	8.1	\$230.50	9.2	\$28.07	13.9%
19	3,000	\$236.31	7.9	\$272.70	9.1	\$36.39	15.4%
20	3,500	\$270.20	7.7	\$314.90	9.0	\$44.70	16.5%
21	4,000	\$304.08	7.6	\$357.10	8.9	\$53.02	17.4%

RATE CHARGES

	<u>Present Rates</u>	<u>Proposed Rates</u>
Basic Service Charge	\$0.35 per day	\$0.65 per day
Energy Charges:		
First 750 kWh	\$0.05304 per kWh	\$0.04900 per kWh
Over 750 kWh	\$0.02304 per kWh	\$0.04900 per kWh
Generation Rider	\$0.00500 per kWh	\$0.00000 per kWh
Environmental Rider	\$0.00396 per kWh	\$0.00000 per kWh
Transmission Rider	\$0.00329 per kWh	\$0.00298 per kWh
Renewable Rider	\$0.00712 per kWh	\$0.00706 per kWh
Base Fuel & Purchased Power	\$0.02536 per kWh	\$0.02536 per kWh

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MONTANA-DAKOTA UTILITIES CO.
BILLING COMPARISON AT VARIOUS USAGE LEVELS
SMALL GENERAL SERVICE RATE 20

WINTER MONTH BILL, ASSUMING 30 BILLING DAYS
Present Rate vs. Proposed Rate with Declining Energy Block Charges

Line No.	kWh Usage	Present Rate		Proposed Rate - Declining Block		Increase/(Decrease)	
		Amount	¢ per kWh	Amount	¢ per kWh	Amount	Percent
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1	0	\$21.00	-	\$25.20	-	\$4.20	20.0%
2	50	\$25.71	51.4	\$30.43	60.9	\$4.72	18.4%
3	100	\$30.43	30.4	\$35.65	35.7	\$5.22	17.2%
4	200	\$39.86	19.9	\$46.11	23.1	\$6.25	15.7%
5	300	\$49.28	16.4	\$56.56	18.9	\$7.28	14.8%
6	400	\$58.71	14.7	\$67.02	16.8	\$8.31	14.2%
7	500	\$68.14	13.6	\$77.47	15.5	\$9.33	13.7%
8	600	\$77.57	12.9	\$87.92	14.7	\$10.35	13.3%
9	700	\$87.00	12.4	\$98.38	14.1	\$11.38	13.1%
10	800	\$94.50	11.8	\$107.33	13.4	\$12.83	13.6%
11	900	\$100.09	11.1	\$114.79	12.8	\$14.70	14.7%
12	1,000	\$105.67	10.6	\$122.24	12.2	\$16.57	15.7%
13	1,200	\$116.84	9.7	\$137.15	11.4	\$20.31	17.4%
14	1,250	\$119.64	9.6	\$140.88	11.3	\$21.24	17.8%
15	1,500	\$133.60	8.9	\$159.51	10.6	\$25.91	19.4%
16	1,750	\$147.56	8.4	\$178.15	10.2	\$30.59	20.7%
17	2,000	\$161.52	8.1	\$196.78	9.8	\$35.26	21.8%
18	2,500	\$189.45	7.6	\$234.05	9.4	\$44.60	23.5%
19	3,000	\$217.37	7.2	\$271.32	9.0	\$53.95	24.8%
20	3,500	\$245.30	7.0	\$308.59	8.8	\$63.29	25.8%
21	4,000	\$273.22	6.8	\$345.86	8.6	\$72.64	26.6%

RATE CHARGES

	<u>Present Rates</u>	<u>Proposed Rates</u>
Basic Service Charge	\$0.70 per day	\$0.84 per day
Energy Charges:		
First 750 kWh	\$0.06147 per kWh	\$0.07212 per kWh
Over 750 kWh	\$0.02304 per kWh	\$0.04212 per kWh
Generation Rider	\$0.00349 per kWh	\$0.00000 per kWh
Environmental Rider	\$0.00396 per kWh	\$0.00000 per kWh
Renewable Rider	\$0.00000 per kWh	\$0.00706 per kWh
Base Fuel & Purchased Power	\$0.02536 per kWh	\$0.02536 per kWh

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**MONTANA-DAKOTA UTILITIES CO.
 BILLING COMPARISON AT VARIOUS USAGE LEVELS
 SMALL GENERAL SERVICE RATE 20**

**WINTER MONTH BILL, ASSUMING 30 BILLING DAYS
 Present Rate vs. Proposed Rate with Flat Energy Charge**

Line No.	kWh Usage	Present Rate		Proposed Rate - Declining Block		Increase/(Decrease)	
		Amount	¢ per kWh	Amount	¢ per kWh	Amount	Percent
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1	0	\$21.00	-	\$25.20	-	\$4.20	20.0%
2	50	\$25.71	51.4	\$29.65	59.3	\$3.94	15.3%
3	100	\$30.43	30.4	\$34.10	34.1	\$3.67	12.1%
4	200	\$39.86	19.9	\$42.99	21.5	\$3.13	7.9%
5	300	\$49.28	16.4	\$51.89	17.3	\$2.61	5.3%
6	400	\$58.71	14.7	\$60.79	15.2	\$2.08	3.5%
7	500	\$68.14	13.6	\$69.69	13.9	\$1.55	2.3%
8	600	\$77.57	12.9	\$78.58	13.1	\$1.01	1.3%
9	700	\$87.00	12.4	\$87.48	12.5	\$0.48	0.6%
10	800	\$94.50	11.8	\$96.38	12.0	\$1.88	2.0%
11	900	\$100.09	11.1	\$105.27	11.7	\$5.18	5.2%
12	1,000	\$105.67	10.6	\$114.17	11.4	\$8.50	8.0%
13	1,200	\$116.84	9.7	\$131.96	11.0	\$15.12	12.9%
14	1,250	\$119.64	9.6	\$136.41	10.9	\$16.77	14.0%
15	1,500	\$133.60	8.9	\$158.66	10.6	\$25.06	18.8%
16	1,750	\$147.56	8.4	\$180.90	10.3	\$33.34	22.6%
17	2,000	\$161.52	8.1	\$203.14	10.2	\$41.62	25.8%
18	2,500	\$189.45	7.6	\$247.63	9.9	\$58.18	30.7%
19	3,000	\$217.37	7.2	\$292.11	9.7	\$74.74	34.4%
20	3,500	\$245.30	7.0	\$336.60	9.6	\$91.30	37.2%
21	4,000	\$273.22	6.8	\$381.08	9.5	\$107.86	39.5%

RATE CHARGES

	<u>Present Rates</u>	<u>Proposed Rates</u>
Basic Service Charge	\$0.70 per day	\$0.84 per day
Energy Charges:		
First 750 kWh	\$0.06147 per kWh	\$0.05655 per kWh
Over 750 kWh	\$0.02304 per kWh	\$0.05655 per kWh
Generation Rider	\$0.00349 per kWh	\$0.00000 per kWh
Environmental Rider	\$0.00396 per kWh	\$0.00000 per kWh
Renewable Rider	\$0.00000 per kWh	\$0.00706 per kWh
Base Fuel & Purchased Power	\$0.02536 per kWh	\$0.02536 per kWh