

**MONTANA-DAKOTA UTILITIES CO. & GREAT PLAINS NATURAL GAS CO.
WORKPAPERS INDEX
GAS UTILITY - NORTH DAKOTA**

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MONTANA-DAKOTA UTILITIES CO. & GREAT PLAINS NATURAL GAS CO.
SUMMARY OF PLANT AND RESERVE
RETIREMENTS
GAS UTILITY - NORTH DAKOTA
2017-2019

<u>Plant</u>	<u>Average</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>
<u>Plant Retirements</u>				
Transmission	\$22	\$66	\$0	\$0
Distribution	1,131,198	901,400	902,809	1,589,385
General	1,905,515	1,226,959	2,260,485	2,229,102
General - Intangible	912	2,736	0	0
Common	397,208	667,184	200,078	324,361
Common - Intangible	16,721	0	0	50,162
Acquisition Adjustment	0	0	0	0
Total	<u>\$3,451,576</u>	<u>\$2,798,345</u>	<u>\$3,363,372</u>	<u>\$4,193,010</u>
<u>Plant in Service</u>				
Transmission	\$1,623,739	\$865,672	\$2,005,493	\$2,000,051
Distribution 2/	231,708,490	220,801,928	230,452,994	243,870,547
General	15,110,966	13,891,471	15,719,362	15,722,066
General - Intangible 2/	6,247,221	6,111,268	6,185,824	6,444,570
Common	15,362,802	14,391,235	15,209,825	16,487,347
Common - Intangible	14,347,056	13,993,660	13,876,090	15,171,417
Acquisition Adjustment	97,266	97,266	97,266	97,266
Total	<u>\$284,497,540</u>	<u>\$270,152,500</u>	<u>\$283,546,854</u>	<u>\$299,793,264</u>
<u>Retirement Ratio - Plant</u>				
Transmission	0.00%	0.01%	0.00%	0.00%
Distribution	0.49%	0.41%	0.39%	0.65%
General	12.61%	8.83%	14.38%	14.18%
General - Intangible 1/	0.00%	0.04%	0.00%	0.00%
Common	2.59%	4.64%	1.32%	1.97%
Common - Intangible 1/	0.00%	0.00%	0.00%	0.33%
Acquisition Adjustment	0.00%	0.00%	0.00%	0.00%

1/ Intangible retirements are not representative of future activity. Excluded intangible retirements.

2/ Excludes Gwinner Pipeline for 2018 and 2019

**MONTANA-DAKOTA UTILITIES CO.
GAS UTILITY - MONTANA
PROVISION FOR PENSION AND BENEFITS
WORKPAPER**

	2018	2019	2020	2021
<u>Pensions</u>				
Pension Costs	\$96,384,002	\$89,939,460	\$89,939,460	\$89,939,460
Deferred Pension	(52,637,718)	(30,181,980)	(25,609,980)	(21,115,980)
Additional Minimum- Centennial Energy	5,700,240	0	0	0
Additional Minimum- MDU Energy Capital	1,370,868	0	0	0
Net	<u>\$50,817,392</u>	<u>\$59,757,480</u>	<u>\$64,329,480</u>	<u>\$68,823,480</u>
Allocation to gas	\$28,711,826	\$34,121,521	\$37,375,428	\$39,986,442
Allocation to North Dakota	<u>\$12,727,356</u>	<u>\$14,582,942</u>	<u>\$15,746,436</u>	<u>\$16,846,468</u>
		-26.74%	-26.49%	-26.36%
<u>DIT Pension</u>				
Pension Costs- Federal	(\$20,240,640)	(\$18,887,287)	(\$4,572,000)	(\$4,494,000)
Pension Costs- State	(3,270,091)	(3,051,442)	24.4%	24.4%
Deferred Pension- Federal	9,428,934	6,198,162	(\$1,115,568)	(\$1,096,536)
Deferred Pension- State	1,523,344	1,001,379	(\$1,115,568)	(\$1,096,536)
	<u>(\$12,558,453)</u>	<u>(\$14,739,188)</u>	<u>(\$1,115,568)</u>	<u>(\$1,096,536)</u>
Allocation to gas 1/	(\$7,095,526)	(\$8,416,076)	(\$648,145)	(\$637,087)
Allocation to North Dakota	<u>(\$3,145,299)</u>	<u>(\$3,898,892)</u>	<u>(\$273,066)</u>	<u>(\$268,408)</u>
	<u>(\$4,171,958)</u>	<u>(\$4,440,366)</u>	<u>(\$4,171,958)</u>	<u>(\$4,440,366)</u>

**MONTANA-DAKOTA UTILITIES CO.
GAS UTILITY - MONTANA
PROVISION FOR POST RETIREMENT
WORKPAPER**

	2018	2019
<u>Postretirement</u>		
Deferred Postretirement	(\$10,020,714)	(\$13,642,023)
Postretirement	11,432,592	15,865,049
Additional Minimum-Centennial Energy	(350,634)	0
Additional Minimum-MDU Energy Capital	(242,153)	0
Net	\$819,091	\$2,223,026
Allocation to gas	\$462,786	\$1,269,348
Allocation to North Dakota	\$205,144	\$542,497
<u>DIT Postretirement</u>		
Postretirement - Federal	(\$2,276,359)	(\$3,331,661)
Postretirement - State	(367,770)	(538,265)
Deferred Postretirement Costs - Federal	2,104,350	2,864,825
Deferred Postretirement Costs - State	339,980	462,843
	(\$199,799)	(\$542,258)
Allocation to gas	(\$112,886)	(\$309,629)
Allocation to North Dakota	(\$50,040)	(\$132,330)

**MONTANA-DAKOTA UTILITIES CO.
NORTH DAKOTA GAS UTILITY**

**Residential Gas Weather Normalization
Twelve Months Ended December 31, 2019**

Rate 600 - Residential Gas	Days in Month	Customers	Baseload/ Customer 1/	Normal Degree Days	Normalized Heating Use/ Customer 2/	Normalized Total Use/ Customer
January	31	94,976	1.39	1,401	14.00	15.39
February	28	94,882	1.26	1,401	14.00	15.26
March	31	95,061	1.39	1,068	10.67	12.06
April	30	95,155	1.35	734	7.33	8.68
May	31	95,255	1.39	373	3.73	5.12
June	30	94,946	1.35	65	0.65	2.00
July	31	94,949	1.39	0	0.00	1.39
August	31	94,877	1.39	0	0.00	1.39
September	30	94,618	1.35	14	0.14	1.49
October	31	95,111	1.39	212	2.12	3.51
November	30	95,240	1.35	734	7.33	8.68
December	31	95,611	1.39	1,172	11.71	13.10
Total	365	1,140,681	16.39	7,174	71.68	88.07

1/ Daily baseload per customer 0.04486 * number of days in month.

2/ Use per degree day per customer 0.00999 * normal degree days.

12 months ended December 31, 2019 average customers 95,057

12 months ended December 31, 2019 normalized total use/customer 88.07

12 months ended December 31, 2019 normalized use 8,371,670

**MONTANA-DAKOTA UTILITIES CO.
NORTH DAKOTA GAS UTILITY**

**Residential Gas Weather Normalization
Twelve Months Ended December 31, 2020**

Rate 600 - Residential Gas	Days in Month	Customers	Baseload/ Customer 1/	Normal Degree Days	Normalized Heating Use/ Customer 2/	Normalized Total Use/ Customer
January	31	95,465	1.39	1,401	14.00	15.39
February	29	95,351	1.30	1,401	14.00	15.30
March	31	95,465	1.39	1,068	10.67	12.06
April	30	95,580	1.35	734	7.33	8.68
May	31	95,695	1.39	373	3.73	5.12
June	30	95,351	1.35	65	0.65	2.00
July	31	95,351	1.39	0	0.00	1.39
August	31	95,351	1.39	0	0.00	1.39
September	30	95,007	1.35	14	0.14	1.49
October	31	95,580	1.39	212	2.12	3.51
November	30	95,695	1.35	734	7.33	8.68
December	31	96,151	1.39	1,172	11.71	13.10
Total	366	1,146,042	16.43	7,174	71.68	88.11

1/ Daily baseload per customer 0.04486 * number of days in month.

2/ Use per degree day per customer 0.00999 * normal degree days.

12 months ended December 31, 2019 average customers 95,504

12 months ended December 31, 2019 normalized total use/customer 88.11

12 months ended December 31, 2019 normalized use 8,414,857

**MONTANA-DAKOTA UTILITIES CO.
NORTH DAKOTA GAS UTILITY**

**Residential Gas Weather Normalization
Twelve Months Ended December 31, 2021**

Rate 600 - Residential Gas	Days in Month	Customers	Baseload/ Customer 1/	Normal Degree Days	Normalized Heating Use/ Customer 2/	Normalized Total Use/ Customer
January	31	95,914	1.39	1,401	14.00	15.39
February	28	95,799	1.26	1,401	14.00	15.26
March	31	95,914	1.39	1,068	10.67	12.06
April	30	96,029	1.35	734	7.33	8.68
May	31	96,144	1.39	373	3.73	5.12
June	30	95,799	1.35	65	0.65	2.00
July	31	95,799	1.39	0	0.00	1.39
August	31	95,799	1.39	0	0.00	1.39
September	30	95,453	1.35	14	0.14	1.49
October	31	96,029	1.39	212	2.12	3.51
November	30	96,144	1.35	734	7.33	8.68
December	31	96,605	1.39	1,172	11.71	13.10
Total	365	1,151,428	16.39	7,174	71.68	88.07

1/ Daily baseload per customer 0.04486 * number of days in month.

2/ Use per degree day per customer 0.00999 * normal degree days.

12 months ended December 31, 2019 average customers 95,952

12 months ended December 31, 2019 normalized total use/customer 88.07

12 months ended December 31, 2019 normalized use 8,450,493

**MONTANA-DAKOTA UTILITIES CO.
NORTH DAKOTA GAS UTILITY**

**Residential Propane Weather Normalization
Twelve Months Ended December 31, 2019**

Rate 900 - Residential Propane	Days in Month	Customers	Baseload/ Customer 1/	Normal Degree Days	Normalized Heating Use/ Customer 2/	Normalized Total Use/ Customer
January	31	279	0.36	1,313	10.94	11.30
February	28	273	0.32	1,293	10.77	11.09
March	31	273	0.36	1,007	8.39	8.75
April	30	274	0.35	718	5.98	6.33
May	31	274	0.36	414	3.45	3.81
June	30	274	0.35	100	0.83	1.18
July	31	273	0.36	0	0.00	0.36
August	31	274	0.36	0	0.00	0.36
September	30	270	0.35	18	0.15	0.50
October	31	272	0.36	228	1.90	2.26
November	30	272	0.35	733	6.11	6.46
December	31	271	0.36	1,119	9.32	9.68
Total	365	3,279	4.24	6,943	57.84	62.08

1/ Daily baseload per customer 0.01150 * number of days in month.

2/ Use per degree day per customer 0.00833 * normal degree days.

12 months ended December 31, 2019 average customers 273

12 months ended December 31, 2019 normalized total use/customer 62.08

12 months ended December 31, 2019 normalized use 16,948

**MONTANA-DAKOTA UTILITIES CO.
NORTH DAKOTA GAS UTILITY**

**Residential Propane Weather Normalization
Twelve Months Ended December 31, 2020**

Rate 900 - Residential Propane	Days in Month	Customers	Baseload/ Customer 1/	Normal Degree Days	Normalized Heating Use/ Customer 2/	Normalized Total Use/ Customer
January	31	279	0.36	1,313	10.94	11.30
February	29	273	0.33	1,293	10.77	11.10
March	31	273	0.36	1,007	8.39	8.75
April	30	274	0.35	718	5.98	6.33
May	31	274	0.36	414	3.45	3.81
June	30	274	0.35	100	0.83	1.18
July	31	273	0.36	0	0.00	0.36
August	31	274	0.36	0	0.00	0.36
September	30	270	0.35	18	0.15	0.50
October	31	272	0.36	228	1.90	2.26
November	30	272	0.35	733	6.11	6.46
December	31	271	0.36	1,119	9.32	9.68
Total	366	3,279	4.25	6,943	57.84	62.09

1/ Daily baseload per customer 0.01150 * number of days in month.

2/ Use per degree day per customer 0.00833 * normal degree days.

12 months ended December 31, 2020 average customers 273

12 months ended December 31, 2020 normalized total use/customer 62.09

12 months ended December 31, 2020 normalized use 16,951

**MONTANA-DAKOTA UTILITIES CO.
NORTH DAKOTA GAS UTILITY**

**Residential Propane Weather Normalization
Twelve Months Ended December 31, 2021**

Rate 900 - Residential Propane	Days in Month	Customers	Baseload/ Customer 1/	Normal Degree Days	Normalized Heating Use/ Customer 2/	Normalized Total Use/ Customer
January	31	279	0.36	1,313	10.94	11.30
February	28	273	0.32	1,293	10.77	11.09
March	31	273	0.36	1,007	8.39	8.75
April	30	274	0.35	718	5.98	6.33
May	31	274	0.36	414	3.45	3.81
June	30	274	0.35	100	0.83	1.18
July	31	273	0.36	0	0.00	0.36
August	31	274	0.36	0	0.00	0.36
September	30	270	0.35	18	0.15	0.50
October	31	272	0.36	228	1.90	2.26
November	30	272	0.35	733	6.11	6.46
December	31	271	0.36	1,119	9.32	9.68
Total	365	3,279	4.24	6,943	57.84	62.08

1/ Daily baseload per customer 0.01150 * number of days in month.

2/ Use per degree day per customer 0.00833 * normal degree days.

12 months ended December 31, 2020 average customers 273

12 months ended December 31, 2020 normalized total use/customer 62.08

12 months ended December 31, 2020 normalized use 16,948

**MONTANA-DAKOTA UTILITIES CO.
NORTH DAKOTA GAS UTILITY**

**Small Firm General Gas Weather Normalization
Twelve Months Ended December 31, 2019**

Rate 700 - Small Firm General Gas	Days in Month	Customers	Baseload/ Customer 1/	Normal Degree Days	Normalized Heating Use/ Customer 2/	Normalized Total Use/ Customer
January	31	10,800	1.55	1,401	30.43	31.98
February	28	10,780	1.40	1,401	30.43	31.83
March	31	10,791	1.55	1,068	23.20	24.75
April	30	10,796	1.50	734	15.94	17.44
May	31	10,781	1.55	373	8.10	9.65
June	30	10,761	1.50	65	1.41	2.91
July	31	10,745	1.55	0	0.00	1.55
August	31	10,734	1.55	0	0.00	1.55
September	30	10,732	1.50	14	0.30	1.80
October	31	10,797	1.55	212	4.60	6.15
November	30	10,824	1.50	734	15.94	17.44
December	31	10,885	1.55	1,172	25.46	27.01
Total	365	129,426	18.25	7,174	155.81	174.06

1/ Daily baseload per customer 0.05012 * number of days in month.

2/ Use per degree day per customer 0.02172 * normal degree days.

12 months ended December 31, 2019 average customers 10,786
 12 months ended December 31, 2019 normalized total use/customer 174.06
 12 months ended December 31, 2019 normalized use 1,877,411

**MONTANA-DAKOTA UTILITIES CO.
NORTH DAKOTA GAS UTILITY**

**Small Firm General Gas Weather Normalization
Twelve Months Ended December 31, 2020**

Rate 700 - Small Firm General Gas	Days in Month	Customers	Baseload/ Customer 1/	Normal Degree Days	Normalized Heating Use/ Customer 2/	Normalized Total Use/ Customer
January	31	10,964	1.55	1,401	30.43	31.98
February	29	10,950	1.45	1,401	30.43	31.88
March	31	10,964	1.55	1,068	23.20	24.75
April	30	10,964	1.50	734	15.94	17.44
May	31	10,950	1.55	373	8.10	9.65
June	30	10,924	1.50	65	1.41	2.91
July	31	10,911	1.55	0	0.00	1.55
August	31	10,898	1.55	0	0.00	1.55
September	30	10,898	1.50	14	0.30	1.80
October	31	10,964	1.55	212	4.60	6.15
November	30	10,990	1.50	734	15.94	17.44
December	31	11,081	1.55	1,172	25.46	27.01
Total	366	131,458	18.30	7,174	155.81	174.11

1/ Daily baseload per customer 0.05012 * number of days in month.

2/ Use per degree day per customer 0.02172 * normal degree days.

12 months ended December 31, 2020 average customers 10,955

12 months ended December 31, 2020 normalized total use/customer 174.11

12 months ended December 31, 2020 normalized use 1,907,375

**MONTANA-DAKOTA UTILITIES CO.
NORTH DAKOTA GAS UTILITY**

**Small Firm General Gas Weather Normalization
Twelve Months Ended December 31, 2021**

Rate 700 - Small Firm General Gas	Days in Month	Customers	Baseload/ Customer 1/	Normal Degree Days	Normalized Heating Use/ Customer 2/	Normalized Total Use/ Customer
January	31	11,136	1.55	1,401	30.43	31.98
February	28	11,122	1.40	1,401	30.43	31.83
March	31	11,136	1.55	1,068	23.20	24.75
April	30	11,136	1.50	734	15.94	17.44
May	31	11,122	1.55	373	8.10	9.65
June	30	11,096	1.50	65	1.41	2.91
July	31	11,082	1.55	0	0.00	1.55
August	31	11,069	1.55	0	0.00	1.55
September	30	11,069	1.50	14	0.30	1.80
October	31	11,136	1.55	212	4.60	6.15
November	30	11,162	1.50	734	15.94	17.44
December	31	11,256	1.55	1,172	25.46	27.01
Total	365	133,522	18.25	7,174	155.81	174.06

1/ Daily baseload per customer 0.05012 * number of days in month.

2/ Use per degree day per customer 0.02172 * normal degree days.

12 months ended December 31, 2021 average customers 11,127

12 months ended December 31, 2021 normalized total use/customer 174.06

12 months ended December 31, 2021 normalized use 1,936,766

**MONTANA-DAKOTA UTILITIES CO.
NORTH DAKOTA GAS UTILITY**

**Small Firm Propane Weather Normalization
Twelve Months Ended December 31, 2019**

Rate 920 - Small Firm Propane	Days in Month	Customers	Baseload/ Customer 1/	Normal Degree Days	Normalized Heating Use/ Customer 2/	Normalized Total Use/ Customer
January	31	68	1.49	1,313	28.77	30.26
February	28	68	1.34	1,293	28.33	29.67
March	31	68	1.49	1,007	22.06	23.55
April	30	68	1.44	718	15.73	17.17
May	31	68	1.49	414	9.07	10.56
June	30	67	1.44	100	2.19	3.63
July	31	67	1.49	0	0.00	1.49
August	31	66	1.49	0	0.00	1.49
September	30	66	1.44	18	0.39	1.83
October	31	66	1.49	228	5.00	6.49
November	30	67	1.44	733	16.06	17.50
December	31	66	1.49	1,119	24.52	26.01
Total	365	805	17.53	6,943	152.12	169.65

1/ Daily baseload per customer 0.04802 * number of days in month.

2/ Use per degree day per customer 0.02191 * normal degree days.

12 months ended December 31, 2019 average customers 67

12 months ended December 31, 2019 normalized total use/customer 169.65

12 months ended December 31, 2019 normalized use 11,367

**MONTANA-DAKOTA UTILITIES CO.
NORTH DAKOTA GAS UTILITY**

**Small Firm Propane Weather Normalization
Twelve Months Ended December 31, 2020**

Rate 920 - Small Firm Propane	Days in Month	Customers	Baseload/ Customer 1/	Normal Degree Days	Normalized Heating Use/ Customer 2/	Normalized Total Use/ Customer
January	31	68	1.49	1,313	28.77	30.26
February	29	68	1.39	1,293	28.33	29.72
March	31	68	1.49	1,007	22.06	23.55
April	30	68	1.44	718	15.73	17.17
May	31	68	1.49	414	9.07	10.56
June	30	67	1.44	100	2.19	3.63
July	31	67	1.49	0	0.00	1.49
August	31	66	1.49	0	0.00	1.49
September	30	66	1.44	18	0.39	1.83
October	31	66	1.49	228	5.00	6.49
November	30	67	1.44	733	16.06	17.50
December	31	66	1.49	1,119	24.52	26.01
Total	366	805	17.58	6,943	152.12	169.70

1/ Daily baseload per customer 0.04802 * number of days in month.

2/ Use per degree day per customer 0.02191 * normal degree days.

12 months ended December 31, 2020 average customers 67

12 months ended December 31, 2020 normalized total use/customer 169.70

12 months ended December 31, 2020 normalized use 11,370

**MONTANA-DAKOTA UTILITIES CO.
NORTH DAKOTA GAS UTILITY**

**Small Firm Propane Weather Normalization
Twelve Months Ended December 31, 2021**

Rate 920 - Small Firm Propane	Days in Month	Customers	Baseload/ Customer 1/	Normal Degree Days	Normalized Heating Use/ Customer 2/	Normalized Total Use/ Customer
January	31	68	1.49	1,313	28.77	30.26
February	28	68	1.34	1,293	28.33	29.67
March	31	68	1.49	1,007	22.06	23.55
April	30	68	1.44	718	15.73	17.17
May	31	68	1.49	414	9.07	10.56
June	30	67	1.44	100	2.19	3.63
July	31	67	1.49	0	0.00	1.49
August	31	66	1.49	0	0.00	1.49
September	30	66	1.44	18	0.39	1.83
October	31	66	1.49	228	5.00	6.49
November	30	67	1.44	733	16.06	17.50
December	31	66	1.49	1,119	24.52	26.01
Total	365	805	17.53	6,943	152.12	169.65

1/ Daily baseload per customer 0.04802 * number of days in month.

2/ Use per degree day per customer 0.02191 * normal degree days.

12 months ended December 31, 2021 average customers 67

12 months ended December 31, 2021 normalized total use/customer 169.65

12 months ended December 31, 2021 normalized use 11,367

**MONTANA-DAKOTA UTILITIES CO.
NORTH DAKOTA GAS UTILITY**

**Large Firm General Weather Normalization
Twelve Months Ended December 31, 2019**

Rate 701 - Large Firm General Gas	Days in Month	Customers	Baseload/ Customer 1/	Normal Degree Days	Normalized Heating Use/ Customer 2/	Normalized Total Use/ Customer
January	31	4,754	28.05	1,401	167.29	195.34
February	28	4,752	25.34	1,401	167.29	192.63
March	31	4,752	28.05	1,068	127.53	155.58
April	30	4,756	27.15	734	87.65	114.80
May	31	4,765	28.05	373	44.54	72.59
June	30	4,754	27.15	65	7.76	34.91
July	31	4,759	28.05	0	0.00	28.05
August	31	4,765	28.05	0	0.00	28.05
September	30	4,749	27.15	14	1.67	28.82
October	31	4,760	28.05	212	25.31	53.36
November	30	4,762	27.15	734	87.65	114.80
December	31	4,787	28.05	1,172	139.95	168.00
Total	365	57,115	330.29	7,174	856.64	1,186.93

1/ Daily baseload per customer 0.90499 * number of days in month.

2/ Use per degree day per customer 0.11941 * normal degree days.

	Heat Sensitive	Non-Heat Sensitive	Total
12 months ended December 31, 2019 average customers	4,760	57	4,817
12 months ended December 31, 2019 normalized total use/customer	1,186.93		
12 months ended December 31, 2019 normalized use	5,649,787	234,125	5,883,912

**MONTANA-DAKOTA UTILITIES CO.
NORTH DAKOTA GAS UTILITY**

**Large Firm General Weather Normalization
Twelve Months Ended December 31, 2020**

Rate 701 - Large Firm General Gas	Days in Month	Customers	Baseload/ Customer 1/	Normal Degree Days	Normalized Heating Use/ Customer 2/	Normalized Total Use/ Customer
January	31	4,855	28.05	1,401	167.29	195.34
February	29	4,855	26.24	1,401	167.29	193.53
March	31	4,855	28.05	1,068	127.53	155.58
April	30	4,861	27.15	734	87.65	114.80
May	31	4,867	28.05	373	44.54	72.59
June	30	4,855	27.15	65	7.76	34.91
July	31	4,861	28.05	0	0.00	28.05
August	31	4,867	28.05	0	0.00	28.05
September	30	4,849	27.15	14	1.67	28.82
October	31	4,861	28.05	212	25.31	53.36
November	30	4,867	27.15	734	87.65	114.80
December	31	4,901	28.05	1,172	139.95	168.00
Total	366	58,354	331.19	7,174	856.64	1,187.83

1/ Daily baseload per customer 0.90499 * number of days in month.

2/ Use per degree day per customer 0.11941 * normal degree days.

	Heat Sensitive	Non-Heat Sensitive	Total
12 months ended December 31, 2020 average customers	4,863	57	4,920
12 months ended December 31, 2020 normalized total use/customer	1,187.83		
12 months ended December 31, 2020 normalized use	5,776,417	234,125	6,010,542

**MONTANA-DAKOTA UTILITIES CO.
NORTH DAKOTA GAS UTILITY**

**Large Firm General Weather Normalization
Twelve Months Ended December 31, 2021**

Rate 701 - Large Firm General Gas	Days in Month	Customers	Baseload/ Customer 1/	Normal Degree Days	Normalized Heating Use/ Customer 2/	Normalized Total Use/ Customer
January	31	4,960	28.05	1,401	167.29	195.34
February	28	4,960	25.34	1,401	167.29	192.63
March	31	4,960	28.05	1,068	127.53	155.58
April	30	4,966	27.15	734	87.65	114.80
May	31	4,972	28.05	373	44.54	72.59
June	30	4,960	27.15	65	7.76	34.91
July	31	4,966	28.05	0	0.00	28.05
August	31	4,972	28.05	0	0.00	28.05
September	30	4,954	27.15	14	1.67	28.82
October	31	4,966	28.05	212	25.31	53.36
November	30	4,972	27.15	734	87.65	114.80
December	31	5,012	28.05	1,172	139.95	168.00
Total	365	59,620	330.29	7,174	856.64	1,186.93

1/ Daily baseload per customer 0.90499 * number of days in month.

2/ Use per degree day per customer 0.11941 * normal degree days.

	Heat Sensitive	Non-Heat Sensitive	Total
12 months ended December 31, 2021 average customers	4,968	57	5,025
12 months ended December 31, 2021 normalized total use/customer	1,186.93		
12 months ended December 31, 2021 normalized use	5,896,668	234,125	6,130,793

**MONTANA-DAKOTA UTILITIES CO.
NORTH DAKOTA GAS UTILITY**

**Large Firm Propane Weather Normalization
Twelve Months Ended December 31, 2019**

Rate 921 - Large Firm Propane	Days in Month	Customers	Baseload/ Customer 1/	Normal Degree Days	Normalized Heating Use/ Customer 2/	Normalized Total Use/ Customer
January	31	7	55.73	1,313	234.91	290.64
February	28	7	50.34	1,293	231.33	281.67
March	31	7	55.73	1,007	180.16	235.89
April	30	7	53.93	718	128.46	182.39
May	31	7	55.73	414	74.07	129.80
June	30	7	53.93	100	17.89	71.82
July	31	7	55.73	0	0.00	55.73
August	31	7	55.73	0	0.00	55.73
September	30	7	53.93	18	3.22	57.15
October	31	7	55.73	228	40.79	96.52
November	30	7	53.93	733	131.14	185.07
December	31	7	55.73	1,119	200.20	255.93
Total	365	84	656.17	6,943	1,242.17	1,898.34

1/ Daily baseload per customer 1.79780 * number of days in month.

2/ Use per degree day per customer 0.17891 * normal degree days.

12 months ended December 31, 2019 average customers 7

12 months ended December 31, 2019 normalized total use/customer 1,898.34

12 months ended December 31, 2019 normalized use 13,288

**MONTANA-DAKOTA UTILITIES CO.
NORTH DAKOTA GAS UTILITY**

**Large Firm Propane Weather Normalization
Twelve Months Ended December 31, 2020**

Rate 921 - Large Firm Propane	Days in Month	Customers	Baseload/ Customer 1/	Normal Degree Days	Normalized Heating Use/ Customer 2/	Normalized Total Use/ Customer
January	31	7	55.73	1,313	234.91	290.64
February	29	7	52.14	1,293	231.33	283.47
March	31	7	55.73	1,007	180.16	235.89
April	30	7	53.93	718	128.46	182.39
May	31	7	55.73	414	74.07	129.80
June	30	7	53.93	100	17.89	71.82
July	31	7	55.73	0	0.00	55.73
August	31	7	55.73	0	0.00	55.73
September	30	7	53.93	18	3.22	57.15
October	31	7	55.73	228	40.79	96.52
November	30	7	53.93	733	131.14	185.07
December	31	7	55.73	1,119	200.20	255.93
Total	366	84	657.97	6,943	1,242.17	1,900.14

1/ Daily baseload per customer 1.79780 * number of days in month.

2/ Use per degree day per customer 0.17891 * normal degree days.

12 months ended December 31, 2020 average customers 7
 12 months ended December 31, 2020 normalized total use/customer 1,900.14
 12 months ended December 31, 2020 normalized use 13,301

**MONTANA-DAKOTA UTILITIES CO.
NORTH DAKOTA GAS UTILITY**

**Large Firm Propane Weather Normalization
Twelve Months Ended December 31, 2021**

Rate 921 - Large Firm Propane	Days in Month	Customers	Baseload/ Customer 1/	Normal Degree Days	Normalized Heating Use/ Customer 2/	Normalized Total Use/ Customer
January	31	7	55.73	1,313	234.91	290.64
February	28	7	50.34	1,293	231.33	281.67
March	31	7	55.73	1,007	180.16	235.89
April	30	7	53.93	718	128.46	182.39
May	31	7	55.73	414	74.07	129.80
June	30	7	53.93	100	17.89	71.82
July	31	7	55.73	0	0.00	55.73
August	31	7	55.73	0	0.00	55.73
September	30	7	53.93	18	3.22	57.15
October	31	7	55.73	228	40.79	96.52
November	30	7	53.93	733	131.14	185.07
December	31	7	55.73	1,119	200.20	255.93
Total	365	84	656.17	6,943	1,242.17	1,898.34

1/ Daily baseload per customer 1.79780 * number of days in month.

2/ Use per degree day per customer 0.17891 * normal degree days.

12 months ended December 31, 2021 average customers 7

12 months ended December 31, 2021 normalized total use/customer 1,898.34

12 months ended December 31, 2021 normalized use 13,288

**MONTANA-DAKOTA UTILITIES CO.
NORTH DAKOTA GAS UTILITY**

**Wahpeton Residential Gas Weather Normalization
Twelve Months Ended December 31, 2019**

Rate W01 - Wahpeton Residential Gas	Days in Month	Customers	Baseload/ Customer 1/	Normal Degree Days	Normalized Heating Use/ Customer 2/	Normalized Total Use/ Customer
January	31	1,853	0.91	1,396	13.69	14.60
February	28	1,859	0.82	1,553	15.23	16.05
March	31	1,865	0.91	1,102	10.81	11.72
April	30	1,861	0.88	723	7.09	7.97
May	31	1,854	0.91	326	3.20	4.11
June	30	1,845	0.88	37	0.36	1.24
July	31	1,843	0.91	0	0.00	0.91
August	31	1,837	0.91	0	0.00	0.91
September	30	1,823	0.88	6	0.06	0.94
October	31	1,839	0.91	171	1.68	2.59
November	30	1,859	0.88	691	6.78	7.66
December	31	1,870	0.91	1,061	10.41	11.32
Total	365	22,208	10.71	7,066	69.31	80.02

1/ Daily baseload per customer 0.02924 * number of days in month.

2/ Use per degree day per customer 0.00981 * normal degree days.

12 months ended December 31, 2019 average customers 1,851

12 months ended December 31, 2019 normalized total use/customer 80.02

12 months ended December 31, 2019 normalized use 148,117

**MONTANA-DAKOTA UTILITIES CO.
NORTH DAKOTA GAS UTILITY**

**Wahpeton Firm Gas Weather Normalization
Twelve Months Ended December 31, 2019**

	Rate W01 - Firm Gas	Days in Month	Customers	Baseload/ Customer 1/	Normal Degree Days	Normalized Heating Use/ Customer 2/	Normalized Total Use/ Customer
January		31	413	9.43	1,396	43.37	52.80
February		28	414	8.52	1,553	48.25	56.77
March		31	412	9.43	1,102	34.24	43.67
April		30	412	9.13	723	22.46	31.59
May		31	412	9.43	326	10.13	19.56
June		30	410	9.13	37	1.15	10.28
July		31	409	9.43	0	0.00	9.43
August		31	409	9.43	0	0.00	9.43
September		30	407	9.13	6	0.19	9.32
October		31	408	9.43	171	5.31	14.74
November		30	408	9.13	691	21.47	30.60
December		31	410	9.43	1,061	32.97	42.40
Total		365	4,924	111.05	7,066	219.54	330.59

1/ Daily baseload per customer 0.30426 * number of days in month.

2/ Use per degree day per customer 0.03107 * normal degree days.

12 months ended December 31, 2019 average customers 410

12 months ended December 31, 2019 normalized total use/customer 330.59

12 months ended December 31, 2019 normalized use 135,542

**MONTANA-DAKOTA UTILITIES CO.
NORTH DAKOTA GAS UTILITY**

**Wahpeton Residential Gas Weather Normalization
Twelve Months Ended December 31, 2020**

Rate W01 - Wahpeton Residential Gas	Days in Month	Customers	Baseload/ Customer 1/	Normal Degree Days	Normalized Heating Use/ Customer 2/	Normalized Total Use/ Customer
January	31	1,877	0.91	1,396	13.69	14.60
February	29	1,883	0.85	1,553	15.23	16.08
March	31	1,890	0.91	1,102	10.81	11.72
April	30	1,886	0.88	723	7.09	7.97
May	31	1,879	0.91	326	3.20	4.11
June	30	1,870	0.88	37	0.36	1.24
July	31	1,868	0.91	0	0.00	0.91
August	31	1,861	0.91	0	0.00	0.91
September	30	1,847	0.88	6	0.06	0.94
October	31	1,863	0.91	171	1.68	2.59
November	30	1,883	0.88	691	6.78	7.66
December	31	1,894	0.91	1,061	10.41	11.32
Total	366	22,501	10.74	7,066	69.31	80.05

1/ Daily baseload per customer 0.02924 * number of days in month.

2/ Use per degree day per customer 0.00981 * normal degree days.

12 months ended December 31, 2020 average customers 1,875

12 months ended December 31, 2020 normalized total use/customer 80.05

12 months ended December 31, 2020 normalized use 150,094

**MONTANA-DAKOTA UTILITIES CO.
NORTH DAKOTA GAS UTILITY**

**Wahpeton Firm Gas Weather Normalization
Twelve Months Ended December 31, 2020**

	Rate W01 - Firm Gas	Days in Month	Customers	Baseload/ Customer 1/	Normal Degree Days	Normalized Heating Use/ Customer 2/	Normalized Total Use/ Customer
January		31	421	9.43	1,396	43.37	52.80
February		29	422	8.82	1,553	48.25	57.07
March		31	420	9.43	1,102	34.24	43.67
April		30	420	9.13	723	22.46	31.59
May		31	420	9.43	326	10.13	19.56
June		30	418	9.13	37	1.15	10.28
July		31	417	9.43	0	0.00	9.43
August		31	417	9.43	0	0.00	9.43
September		30	415	9.13	6	0.19	9.32
October		31	416	9.43	171	5.31	14.74
November		30	416	9.13	691	21.47	30.60
December		31	418	9.43	1,061	32.97	42.40
Total		366	5,020	111.35	7,066	219.54	330.89

1/ Daily baseload per customer 0.30426 * number of days in month.

2/ Use per degree day per customer 0.03107 * normal degree days.

12 months ended December 31, 2020 average customers	418
12 months ended December 31, 2020 normalized total use/customer	330.89
12 months ended December 31, 2020 normalized use	<u>138,312</u>

**MONTANA-DAKOTA UTILITIES CO.
NORTH DAKOTA GAS UTILITY**

**Wahpeton Residential Gas Weather Normalization
Twelve Months Ended December 31, 2021**

Rate 600 - Residential Gas	Days in Month	Customers	Baseload/ Customer 1/	Normal Degree Days	Normalized Heating Use/ Customer 2/	Normalized Total Use/ Customer
January	31	1,901	0.91	1,396	13.69	14.60
February	28	1,908	0.82	1,553	15.23	16.05
March	31	1,915	0.91	1,102	10.81	11.72
April	30	1,910	0.88	723	7.09	7.97
May	31	1,904	0.91	326	3.20	4.11
June	30	1,895	0.88	37	0.36	1.24
July	31	1,892	0.91	0	0.00	0.91
August	31	1,885	0.91	0	0.00	0.91
September	30	1,872	0.88	6	0.06	0.94
October	31	1,888	0.91	171	1.68	2.59
November	30	1,908	0.88	691	6.78	7.66
December	31	1,920	0.91	1,061	10.41	11.32
Total	365	22,798	10.71	7,066	69.31	80.02

1/ Daily baseload per customer 0.02924 * number of days in month.

2/ Use per degree day per customer 0.00981 * normal degree days.

12 months ended December 31, 2021 average customers 1,900

12 months ended December 31, 2021 normalized total use/customer 80.02

12 months ended December 31, 2021 normalized use 152,038

**MONTANA-DAKOTA UTILITIES CO.
NORTH DAKOTA GAS UTILITY**

**Wahpeton Firm Gas Weather Normalization
Twelve Months Ended December 31, 2021**

	Rate W01 - Firm Gas	Days in Month	Customers	Baseload/ Customer 1/	Normal Degree Days	Normalized Heating Use/ Customer 2/	Normalized Total Use/ Customer
January		31	429	9.43	1,396	43.37	52.80
February		28	430	8.52	1,553	48.25	56.77
March		31	428	9.43	1,102	34.24	43.67
April		30	428	9.13	723	22.46	31.59
May		31	428	9.43	326	10.13	19.56
June		30	426	9.13	37	1.15	10.28
July		31	425	9.43	0	0.00	9.43
August		31	425	9.43	0	0.00	9.43
September		30	423	9.13	6	0.19	9.32
October		31	424	9.43	171	5.31	14.74
November		30	424	9.13	691	21.47	30.60
December		31	428	9.43	1,061	32.97	42.40
Total		365	5,118	111.05	7,066	219.54	330.59

1/ Daily baseload per customer 0.30426 * number of days in month.

2/ Use per degree day per customer 0.03107 * normal degree days.

12 months ended December 31, 2020 average customers 427

12 months ended December 31, 2020 normalized total use/customer 330.59

12 months ended December 31, 2020 normalized use 141,162

**North Dakota Gas 2019
Air Force Base - Firm
Rate 64
Normalized Volumes**

Non-Heat Sensitive Customers	Service Rate	Per Books 2019	Restated 2019	Normalized	Difference
Cavalier PAR Site	643/644	36,900.2	36,900.2	35,673	(1,227.2)
Heat Sensitive Customers					
Minot Air Force Base Pro Shop	648	738.9	738.9	752	13.1
Total Air Force Base - Firm		<u>37,639.1</u>	<u>37,639.1</u>	<u>36,425</u>	<u>(1,214.1)</u>
Customers		<u>1</u>	<u>1</u>	<u>1</u>	<u>0</u>

Normalized Volumes
Rate 643/644

	12 months ending <u>12/31/2017</u>	12 months ending <u>12/31/2018</u>	12 months ending <u>12/31/2019</u>
January	4,465.4	3,533.9	4,482.4
February	4,297.6	3,119.5	4,765.5
March	3,728.7	3,302.7	4,834.1
April	4,031.8	8,967.0	4,331.7
May	2,083.3	2,431.1	2,308.7
June	1,706.4	1,683.4	2,104.5
July	1,564.7	1,552.3	1,620.9
August	1,543.8	1,605.9	1,646.1
September	1,605.2	1,447.9	1,656.4
October	1,704.3	1,592.7	1,740.2
November	3,669.4	3,318.7	3,347.0
December	2,859.4	4,304.7	4,062.7
Total	<u>33,260.0</u>	<u>36,859.8</u>	<u>36,900.2</u>
3 year average (normalized)			<u><u>35,673</u></u>

**MONTANA-DAKOTA UTILITIES CO.
NORTH DAKOTA GAS UTILITY**

Twelve Months Ended December 31, 2019

648 - Minot AFB Pro Shop	Days in Month	Customers	Baseload/ Customer 1/	Normal Degree Days	Normalized Heating Use/ Customer 2/	Normalized Total Use/ Customer
January	31	1	6.15	1,413	132.23	138.38
February	28	1	5.55	1,414	132.32	137.87
March	31	1	6.15	1,088	101.82	107.97
April	30	1	5.95	757	70.84	76.79
May	31	1	6.15	376	35.19	41.34
June	30	1	5.95	64	5.99	11.94
July	31	1	6.15	0	0.00	6.15
August	31	1	6.15	0	0.00	6.15
September	30	1	5.95	15	1.40	7.35
October	31	1	6.15	210	19.65	25.80
November	30	1	5.95	737	68.97	74.92
December	31	1	6.15	1,184	110.80	116.95
Total	365	12	72.40	7,258	679.21	751.61

1/ Daily baseload per customer 0.19837 * number of days in month.
2/ Use per degree day per customer 0.09358 * normal degree days.

12 months ended December 31, 2019 average customers 1
12 months ended December 31, 2019 normalized total use/customer 751.61
12 months ended December 31, 2019 normalized use 752

**North Dakota Gas 2019
Air Force Base - Interruptible
Rate 64
Normalized Volumes**

Non-Heat Sensitive Customers	<u>Service Rate</u>	<u>Per Books 2019</u>	<u>Restated 2019</u>	<u>Normalized</u>	<u>Difference</u>
Cavalier PAR Site	645	29,199.6	29,199.6	26,770	(2,429.6)
Heat Sensitive Customers					
Minot Air Force Base	641	384,054.8	384,054.8	369,780	(14,274.8)
Total Air Force Base - Firm		<u>413,254.4</u>	<u>413,254.4</u>	<u>396,550</u>	<u>(16,704.4)</u>
Customers		<u>2</u>	<u>2</u>	<u>2</u>	<u>0</u>

Normalized Volumes
Rate 645

	12 months ending <u>12/31/2017</u>	12 months ending <u>12/31/2018</u>	12 months ending <u>12/31/2019</u>
January	2,340.3	2,366.7	887.7
February	1,733.0	2,790.3	618.3
March	422.5	1,451.6	371.9
April	1,730.8	(3,260.8)	509.3
May	4,336.0	1,355.2	1,360.6
June	1,619.1	4,787.4	1,248.0
July	4,061.5	4,799.0	2,921.6
August	2,710.9	3,415.0	3,402.5
September	29,767.8	1,953.6	2,629.0
October	40,624.2	4,011.4	7,378.5
November	32,281.8	570.9	2,592.9
December	2,155.4	100.0	5,279.3
Total	<u>123,783.3</u>	<u>24,340.3</u>	<u>29,199.6</u>
2 year average (normalized)			<u><u>26,770</u></u>

**MONTANA-DAKOTA UTILITIES CO.
NORTH DAKOTA GAS UTILITY**

Twelve Months Ended December 31, 2019

641 - Minot AFB	Days in Month	Customers	Baseload/ Customer 1/	Normal Degree Days	Normalized Heating Use/ Customer 2/	Normalized Total Use/ Customer
January	31	1	6,576.82	1,413	56,913.92	63,490.74
February	28	1	5,940.35	1,414	56,954.19	62,894.54
March	31	1	6,576.82	1,088	43,823.31	50,400.13
April	30	1	6,364.67	757	30,491.04	36,855.71
May	31	1	6,576.82	376	15,144.82	21,721.64
June	30	1	6,364.67	64	2,577.84	8,942.51
July	31	1	6,576.82	0	0.00	6,576.82
August	31	1	6,576.82	0	0.00	6,576.82
September	30	1	6,364.67	15	604.18	6,968.85
October	31	1	6,576.82	210	8,458.54	15,035.36
November	30	1	6,364.67	737	29,685.46	36,050.13
December	31	1	6,576.82	1,184	47,690.08	54,266.90
Total	365	12	77,436.77	7,258	292,343.38	369,780.15

1/ Daily baseload per customer 212.15550 * number of days in month.

2/ Use per degree day per customer 40.27878 * normal degree days.

12 months ended December 31, 2019 average customers 1

12 months ended December 31, 2019 normalized total use/customer 369,780.15

12 months ended December 31, 2019 normalized use 369,780

**North Dakota Gas 2019
Small Interruptible Transportation
Rate 710
Normalized Volumes**

	SA ID	Per Books 2019	Restated 2019	Normalized	Difference
Non-Heat Sensitive					
	7357001808	1,509.9	1,509.9	1,735	225.1
	7179080467	537.2	537.2	537	(0.2)
	0841145304	42,991.0	42,991.0	42,991	0.0
	0452177249	37.8	37.8	28	(9.8)
	2444631942	13,242.7	13,242.7	13,594	351.3
	5160912372	35.1	35.1	35	(0.1)
	0462286278	0.0	0.0	0	0.0
	9280094184	18.8	18.8	24	5.2
	3199021120	6,114.5	6,114.5	6,574	459.5
	3492708552	791.9	791.9	698	(93.9)
	6642433794	2,725.9	2,725.9	2,468	(257.9)
	6347433037	10,994.0	10,994.0	10,206	(788.0)
	5673146023	15,265.0	15,265.0	19,663	4,398.0
	3536281100	20,737.6	20,737.6	18,387	(2,350.6)
	7811546602	7,177.3	7,177.3	7,527	349.7
	0716731889	1,095.3	1,095.3	1,041	(54.3)
	0716731978	4,314.0	4,314.0	4,185	(129.0)
	2664077210	0.0	0.0	0	0.0
	0772751813	243.3	243.3	323	79.7
	5372728679	786.7	786.7	780	(6.7)
	6831487502	5.5	5.5	7	1.5
	5067934065	24,145.8	24,145.8	22,923	(1,222.8)
	0905509758	2,348.9	2,348.9	2,077	(271.9)
	8565882482	0.0	0.0	0	0.0
	0592455769	334.6	334.6	335	0.4
	9106818647	0.0	0.0	0	0.0
	9654612085	0.0	0.0	0	0.0
	8140923927	8,115.8	8,115.8	4,973	(3,142.8)
	7472083832	24,973.9	24,973.9	22,472	(2,501.9)
	3318565163	23.9	23.9	22	(1.9)
	9033090639	1.1	1.1	1	(0.1)
	7956034772	6,465.4	6,465.4	7,263	797.6
	1892694152	143.6	143.6	147	3.4
	3126643917	410.4	410.4	566	155.6
Total Non-Heat Customers		195,586.9	195,586.9	191,582	(4,004.9)
Heat Sensitive Customers		235,532.5	235,532.5	215,197	(20,335.5)
Grain Dryers		307,671.8	307,671.8	0	(307,671.8)
Customers Moved to Rate 70		0.0	0.0	0	
Customers Moved to Rate 81		7,738.0	0.0	0	(7,738.0)
Customers No Longer Active		74.6	74.6	0	(74.6)
Total Large Int. Transport		746,603.8	738,865.8	406,779	(339,824.8)
Customers (excluding grain dryers)		87	87	87	(4)

Normalized Volumes
SA ID
7357001808

	12 months ending <u>12/31/2017</u>	12 months ending <u>12/31/2018</u>	12 months ending <u>12/31/2019</u>
January	663.4	0.0	9.7
February	659.6	0.0	480.4
March	202.1	0.0	499.6
April	0.0	0.0	365.9
May	215.9	0.0	154.3
June	147.3	0.0	0.0
July	70.8	0.0	0.0
August	0.0	0.0	0.0
September	0.0	0.0	0.0
October	0.0	0.0	0.0
November	0.0	0.0	0.0
December	0.0	0.0	0.0
Total	<u>1,959.1</u>	<u>0.0</u>	<u>1,509.9</u>
2 year average (normalized)			<u><u>1,735</u></u>

Normalized Volumes
SA ID
7179080467

	12 months ending <u>12/31/2017</u>	12 months ending <u>12/31/2018</u>	12 months ending <u>12/31/2019</u>
January		0.0	27.4
February		0.0	107.5
March		0.0	298.1
April		0.0	84.2
May		0.0	0.0
June		0.0	0.0
July	0.0	0.0	0.0
August	0.0	0.0	0.0
September	0.0	0.0	0.0
October	0.0	4.8	0.0
November	0.0	41.9	0.0
December	0.0	163.0	20.0
Total	<u>0.0</u>	<u>209.7</u>	<u>537.2</u>
2019 actual (normalized)			<u><u>537</u></u>

**Normalized Volumes
SA ID**

0841145304

	12 months ending <u>12/31/2017</u>	12 months ending <u>12/31/2018</u>	12 months ending <u>12/31/2019</u>
January	2,093.2	0.0	2,531.7
February	2,090.5	1.0	2,513.1
March	1,705.1	0.0	2,844.4
April	2,344.1	0.0	4,215.4
May	1,868.2	0.0	6,086.1
June	2,588.7	0.0	3,925.1
July	1,503.2	141.0	3,972.5
August	738.5	69.9	3,485.3
September	332.1	115.7	3,586.1
October	0.0	0.0	3,459.3
November	0.0	832.6	3,017.3
December	59.3	885.8	3,354.7
Total	<u>15,322.9</u>	<u>2,046.0</u>	<u>42,991.0</u>
2019 actual (normalized)			<u>42,991</u>

**Normalized Volumes
SA ID**

0452177249

	12 months ending <u>12/31/2017</u>	12 months ending <u>12/31/2018</u>	12 months ending <u>12/31/2019</u>
January		0.0	0.8
February	0.1	0.5	0.4
March	0.5	0.5	0.2
April	0.1	0.6	6.3
May	0.7	0.5	4.6
June	0.6	4.9	4.3
July	0.3		4.7
August	0.4	5.5	2.7
September	0.3		0.5
October	0.3	2.6	0.3
November	0.6	2.2	3.3
December	0.5	1.7	9.7
Total	<u>4.4</u>	<u>19.0</u>	<u>37.8</u>
2 year average (normalized)			<u>28</u>

Normalized Volumes
SA ID
2444631942

	12 months ending <u>12/31/2017</u>	12 months ending <u>12/31/2018</u>	12 months ending <u>12/31/2019</u>
January	2,317.0	2,432.0	1,888.9
February	1,835.0	1,937.6	2,292.1
March	2,044.1	1,064.9	1,809.0
April	1,260.9	1,719.6	1,421.5
May	1,221.4	940.7	1,162.8
June	862.3	631.9	1,010.6
July	661.8	290.6	519.4
August	560.9	812.6	127.9
September	669.9	796.2	0.0
October	749.6	687.3	196.8
November	0.0	1,006.9	1,840.5
December	<u>1,502.2</u>	<u>1,534.9</u>	<u>973.2</u>
Total	13,685.1	13,855.2	13,242.7
3 year average (normalized)			<u><u>13,594</u></u>

Normalized Volumes
SA ID
5160912372

	12 months ending <u>12/31/2017</u>	12 months ending <u>12/31/2018</u>	12 months ending <u>12/31/2019</u>
January			12.3
February			2.7
March			5.7
April			0.4
May			0.6
June			0.0
July			6.9
August			1.4
September			4.3
October			0.6
November		0.0	0.0
December		<u>0.0</u>	<u>0.2</u>
Total	<u>0.0</u>	<u>0.0</u>	35.1
2019 actual (normalized)			<u><u>35</u></u>

Normalized Volumes
SA ID
0462286278

	12 months ending <u>12/31/2017</u>	12 months ending <u>12/31/2018</u>	12 months ending <u>12/31/2019</u>
January	230.5	131.3	0.0
February	387.5	130.8	0.0
March	285.1	150.7	0.0
April	245.5	64.3	0.0
May	100.8	64.5	0.0
June	13.8	0.0	0.0
July	0.0	0.0	0.0
August	0.0	0.0	0.0
September	0.0	0.0	0.0
October	0.0	0.0	0.0
November	17.3	0.0	0.0
December	112.5	0.0	0.0
Total	<u>1,393.0</u>	<u>541.6</u>	<u>0.0</u>
2019 actual (normalized)			<u><u>0</u></u>

Normalized Volumes
SA ID
9280094184

	12 months ending <u>12/31/2017</u>	12 months ending <u>12/31/2018</u>	12 months ending <u>12/31/2019</u>
January	2.1	1.8	1.8
February	1.6	1.9	1.3
March	2.0	1.4	1.5
April	3.2	1.8	1.6
May	1.8	0.9	2.0
June	1.6	2.0	1.7
July	1.1	0.9	1.3
August	0.9	1.5	1.4
September	2.3	1.6	1.8
October	15.6	1.8	1.3
November	1.2	1.5	1.3
December	1.4	1.6	1.8
Total	<u>34.8</u>	<u>18.7</u>	<u>18.8</u>
3 year average (normalized)			<u><u>24</u></u>

Normalized Volumes
SA ID
3199021120

	12 months ending 12/31/2017	12 months ending 12/31/2018	12 months ending 12/31/2019
January	718.9	565.0	600.3
February	700.4	643.4	616.9
March	578.7	569.9	633.5
April	618.1	583.1	576.6
May	560.1	587.4	495.5
June	570.0	554.2	479.4
July	479.2	483.6	427.8
August	486.2	481.3	449.6
September	524.6	564.5	497.3
October	526.2	542.5	529.0
November	573.8	581.0	587.6
December	590.1	526.7	221.0
Total	6,926.3	6,682.6	6,114.5
3 year average (normalized)			6,574

Normalized Volumes
SA ID
3492708552

	12 months ending 12/31/2017	12 months ending 12/31/2018	12 months ending 12/31/2019
January	16.7	85.4	63.7
February	65.8	47.2	71.6
March	95.5	40.3	46.0
April	98.5	62.1	76.1
May	62.4	95.7	94.0
June	5.3	0.0	16.4
July	0.0	0.0	0.0
August	0.0	0.0	0.0
September	0.0	0.0	0.0
October	7.2	36.5	30.5
November	119.9	134.0	230.1
December	200.9	128.0	163.5
Total	672.2	629.2	791.9
3 year average (normalized)			698

Normalized Volumes
SA ID
6642433794

	12 months ending 12/31/2017	12 months ending 12/31/2018	12 months ending 12/31/2019
January	25.1	91.8	148.7
February	248.9	105.5	146.6
March	75.6	107.7	265.8
April	0.0	343.6	527.4
May	0.0	224.5	105.2
June	98.3	0.0	553.4
July	0.0	0.0	0.0
August	0.0	0.0	0.0
September	0.0	293.3	0.0
October	0.0	87.4	407.5
November	69.6	61.7	270.0
December	224.9	895.4	301.3
Total	742.4	2,210.9	2,725.9
2 year average (normalized)			2,468

Normalized Volumes
SA ID
6347433037

	12 months ending 12/31/2017	12 months ending 12/31/2018	12 months ending 12/31/2019
January	1,589.8	940.0	884.4
February	2,276.6	2,342.1	2,459.1
March	1,713.0	2,191.2	2,765.7
April	1,418.1	1,175.2	1,567.9
May	714.0	1,057.4	751.8
June	206.0	66.8	267.3
July	65.8	30.8	50.3
August	18.5	17.9	34.6
September	51.1	60.6	43.0
October	46.5	75.3	83.1
November	392.7	649.4	760.8
December	1,167.9	1,356.2	1,326.0
Total	9,660.0	9,962.9	10,994.0
3 year average (normalized)			10,206

Normalized Volumes
SA ID
5673146023

	12 months ending <u>12/31/2017</u>	12 months ending <u>12/31/2018</u>	12 months ending <u>12/31/2019</u>
January	8,734.8	2,547.3	2,431.3
February	4,173.8	2,625.4	2,153.6
March	2,264.3	3,469.7	3,260.1
April	1,774.0	3,960.4	2,549.2
May	737.7	2,682.0	1,010.6
June	779.8	235.1	831.2
July	610.1	202.3	206.6
August	91.1	196.5	97.5
September	180.2	128.4	339.9
October	88.3	324.1	129.4
November	1,059.9	784.2	377.2
December	<u>3,945.1</u>	<u>2,129.8</u>	<u>1,878.4</u>
Total	24,439.1	19,285.2	15,265.0
3 year average (normalized)			<u><u>19,663</u></u>

Normalized Volumes
SA ID
3536281100

	12 months ending <u>12/31/2017</u>	12 months ending <u>12/31/2018</u>	12 months ending <u>12/31/2019</u>
January		2,875.3	3,546.7
February		2,640.9	3,670.1
March		2,784.5	3,985.3
April		2,117.9	2,401.7
May		891.9	1,079.1
June		0.0	0.0
July		0.0	323.4
August	7.6	0.0	0.0
September	0.0	7.4	542.6
October	0.0	0.0	776.2
November	1,745.7	617.2	1,914.5
December	<u>2,608.8</u>	<u>4,101.7</u>	<u>2,498.0</u>
Total	4,362.1	16,036.8	20,737.6
2 year average (normalized)			<u><u>18,387</u></u>

Normalized Volumes
SA ID
7811546602

	12 months ending <u>12/31/2017</u>	12 months ending <u>12/31/2018</u>	12 months ending <u>12/31/2019</u>
January	798.1	766.7	737.9
February	813.4	809.0	791.8
March	647.4	694.2	740.5
April	692.0	676.5	691.6
May	473.5	638.7	445.7
June	418.1	355.9	350.4
July	528.7	431.1	415.1
August	512.4	428.6	435.6
September	604.8	513.3	437.0
October	642.0	700.5	491.1
November	777.8	799.6	751.3
December	869.3	812.5	889.3
Total	<u>7,777.5</u>	<u>7,626.6</u>	<u>7,177.3</u>
3 year average (normalized)			<u><u>7,527</u></u>

Normalized Volumes
SA ID
0716731889

	12 months ending <u>12/31/2017</u>	12 months ending <u>12/31/2018</u>	12 months ending <u>12/31/2019</u>
January	0.0	0.0	0.0
February	0.0	0.0	0.0
March	0.0	0.0	0.0
April	0.0	0.0	0.0
May	579.4	0.0	289.0
June	406.4	0.0	574.4
July	0.0	0.0	231.9
August	0.0	0.0	0.0
September	0.0	55.2	0.0
October	0.0	368.7	0.0
November	0.0	23.1	0.0
December	0.0	0.0	0.0
Total	<u>985.8</u>	<u>447.0</u>	<u>1,095.3</u>
2 year average (normalized)			<u><u>1,041</u></u>

Normalized Volumes
SA ID
0716731978

	12 months ending <u>12/31/2017</u>	12 months ending <u>12/31/2018</u>	12 months ending <u>12/31/2019</u>
January	0.0	0.0	0.0
February	0.0	0.0	0.0
March	0.0	0.0	0.0
April	0.0	0.0	0.0
May	440.6	0.0	52.0
June	3,614.8	0.0	2,343.1
July	0.0	0.0	1,917.8
August	0.0	6,695.5	1.1
September	0.0	5,871.3	0.0
October	0.0	1,420.3	0.0
November	0.0	820.9	0.0
December	0.0	0.0	0.0
Total	<u>4,055.4</u>	<u>14,808.0</u>	<u>4,314.0</u>
2 year average (normalized)			<u><u>4,185</u></u>

Normalized Volumes
SA ID
2664077210

	12 months ending <u>12/31/2017</u>	12 months ending <u>12/31/2018</u>	12 months ending <u>12/31/2019</u>
January		0.0	0.0
February		0.0	0.0
March		0.0	0.0
April		0.0	0.0
May		0.0	0.0
June		0.0	0.0
July		0.0	0.0
August	0.0	0.1	0.0
September	0.0	0.0	0.0
October	0.0	0.0	0.0
November	0.0	0.0	0.0
December	0.0	0.0	0.0
Total	<u>0.0</u>	<u>0.1</u>	<u>0.0</u>
3 year average (normalized)			<u><u>0</u></u>

Normalized Volumes
SA ID
0772751813

	12 months ending 12/31/2017	12 months ending 12/31/2018	12 months ending 12/31/2019
January	19.7	27.0	31.1
February	12.8	29.6	16.0
March	21.6	31.1	7.7
April	29.2	36.6	16.4
May	34.8	79.7	19.9
June	22.9	40.0	15.7
July	20.5	28.1	14.0
August	25.6	32.1	10.3
September	14.5	23.7	51.0
October	23.0	16.4	20.1
November	31.6	70.0	18.2
December	16.9	37.6	22.9
Total	273.1	451.9	243.3
3 year average (normalized)			323

Normalized Volumes
SA ID
5372728679

	12 months ending 12/31/2017	12 months ending 12/31/2018	12 months ending 12/31/2019
January	218.7	270.2	80.1
February	1,000.6	121.1	204.8
March	94.6	40.5	148.4
April	75.4	14.5	22.2
May	216.1	121.3	1.7
June	0.0	104.5	291.1
July	0.0	0.0	0.0
August	0.0	0.0	0.0
September	0.0	0.0	0.0
October	0.0	0.0	0.0
November	33.9	93.2	38.4
December	0.0	7.5	0.0
Total	1,639.3	772.8	786.7
2 year average (normalized)			780

Normalized Volumes
SA ID
6831487502

	12 months ending 12/31/2017	12 months ending 12/31/2018	12 months ending 12/31/2019
January	0.6	0.4	0.2
February	0.4	0.2	0.9
March	0.5	0.5	0.2
April	0.4	0.7	0.4
May	0.4	0.4	0.4
June	0.9	0.5	0.5
July	0.4	0.4	0.4
August	3.6	0.5	0.5
September	2.3	0.4	0.2
October	0.4	0.4	0.5
November	0.4	0.6	1.0
December	0.4	0.5	0.3
Total	10.7	5.5	5.5
3 year average (normalized)			<u><u>7</u></u>

Normalized Volumes
SA ID
5067934065

	12 months ending 12/31/2017	12 months ending 12/31/2018	12 months ending 12/31/2019
January	3,217.7	2,867.6	3,071.3
February	3,192.4	2,906.9	3,079.3
March	2,834.8	3,205.0	2,944.9
April	2,628.9	2,196.0	2,718.9
May	1,598.1	2,496.8	2,286.3
June		1,108.9	1,640.2
July		699.1	822.0
August		1,094.2	930.5
September		944.7	898.1
October		1,032.8	1,209.8
November		1,745.9	1,795.7
December	7,922.4	2,930.4	2,748.8
Total	21,394.3	23,228.3	24,145.8
3 year average (normalized)			<u><u>22,923</u></u>

Normalized Volumes
SA ID
0905509758

	12 months ending <u>12/31/2017</u>	12 months ending <u>12/31/2018</u>	12 months ending <u>12/31/2019</u>
January		308.5	344.8
February	366.8	409.6	500.2
March	400.3	448.5	574.6
April	304.0	253.5	308.3
May	149.4	242.0	135.0
June	84.5	60.4	76.9
July	12.2	2.6	4.4
August	18.9	3.6	3.2
September		3.5	2.7
October	27.6	10.1	22.5
November	73.1	147.6	119.2
December	278.0	276.3	257.1
Total	<u>1,714.8</u>	<u>2,166.2</u>	<u>2,348.9</u>
3 year average (normalized)			<u><u>2,077</u></u>

Normalized Volumes
SA ID
8565882482

	12 months ending <u>12/31/2017</u>	12 months ending <u>12/31/2018</u>	12 months ending <u>12/31/2019</u>
January	0.0	0.0	0.0
February	0.0	0.0	0.0
March	0.0	0.0	0.0
April	0.0	0.0	0.0
May	0.0	0.0	0.0
June	0.0	0.0	0.0
July	0.0	0.0	0.0
August	0.0	0.0	0.0
September	0.0	0.0	0.0
October	0.0	0.0	0.0
November	0.0	0.0	0.0
December	0.0	0.0	0.0
Total	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
3 year average (normalized)			<u><u>0</u></u>

Normalized Volumes
SA ID
0592455769

	12 months ending <u>12/31/2017</u>	12 months ending <u>12/31/2018</u>	12 months ending <u>12/31/2019</u>
January			
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			334.6
Total	<u>0.0</u>	<u>0.0</u>	<u>334.6</u>
2019 actual (normalized)			<u><u>335</u></u>

Normalized Volumes
SA ID
9106818647

	12 months ending <u>12/31/2017</u>	12 months ending <u>12/31/2018</u>	12 months ending <u>12/31/2019</u>
January	0.0	0.0	0.0
February	0.0	0.0	0.0
March	0.0	0.0	0.0
April	0.0	0.0	0.0
May	0.0	0.0	0.0
June	193.9	0.0	0.0
July	141.7	0.0	0.0
August	48.2	0.0	0.0
September	171.2	0.0	0.0
October	(555.0)	0.0	0.0
November	0.0	0.0	0.0
December	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
Total	0.0	0.0	0.0
3 year average (normalized)			<u><u>0</u></u>

Normalized Volumes
SA ID
9654612085

	12 months ending <u>12/31/2017</u>	12 months ending <u>12/31/2018</u>	12 months ending <u>12/31/2019</u>
January	0.0	0.0	0.0
February	0.0	0.0	0.0
March	0.0	0.0	0.0
April	0.0	0.0	0.0
May	0.0	0.0	0.0
June		0.0	0.0
July		0.0	0.0
August		0.0	0.0
September		0.0	0.0
October		0.0	0.0
November		0.0	0.0
December	0.0	0.0	0.0
Total	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
3 year average (normalized)			<u><u>0</u></u>

Normalized Volumes
SA ID
8140923927

	12 months ending <u>12/31/2017</u>	12 months ending <u>12/31/2018</u>	12 months ending <u>12/31/2019</u>
January	254.3	0.0	255.8
February	29.9	0.0	0.0
March	10.4	0.0	141.4
April	159.4	0.0	203.6
May	0.0	0.0	0.0
June	190.3	0.0	0.0
July	127.7	0.0	0.0
August	117.6	0.0	0.0
September	0.0	0.0	501.6
October	48.3	508.5	198.1
November	1,946.0	2,599.9	3,957.3
December	370.5	440.2	2,858.0
Total	<u>3,254.4</u>	<u>3,548.6</u>	<u>8,115.8</u>
3 year average (normalized)			<u><u>4,973</u></u>

Normalized Volumes
SA ID
7472083832

	12 months ending 12/31/2017	12 months ending 12/31/2018	12 months ending 12/31/2019
January	2,467.4	1,871.0	2,839.3
February	2,955.4	2,782.2	3,174.9
March	1,874.8	1,026.3	2,656.2
April	1,567.2	1,582.7	2,170.4
May	1,669.7	79.6	1,714.4
June	1,035.7	1,724.7	1,528.2
July	2,162.4	1,912.8	1,593.4
August	1,299.1	1,827.0	1,109.6
September	1,216.2	1,490.4	1,358.2
October	1,166.5	1,516.4	1,361.1
November	1,821.2	1,483.1	2,493.7
December	3,239.6	2,669.4	2,974.5
Total	22,475.2	19,965.6	24,973.9
3 year average (normalized)			22,472

Normalized Volumes
SA ID
3318565163

	12 months ending 12/31/2017	12 months ending 12/31/2018	12 months ending 12/31/2019
January			1.0
February			2.1
March			1.1
April			1.1
May			1.3
June			1.0
July		5.9	8.5
August		7.8	1.3
September		1.1	1.2
October		2.0	1.3
November		2.2	3.0
December		1.4	1.0
Total	0.0	20.4	23.9
2 year average (normalized)			22

Normalized Volumes
SA ID
9033090639

	12 months ending <u>12/31/2017</u>	12 months ending <u>12/31/2018</u>	12 months ending <u>12/31/2019</u>
January		1.0	0.0
February		214.6	0.0
March		0.0	0.0
April		0.0	1.1
May		0.0	0.0
June		16.3	0.0
July		56.5	0.0
August		55.9	0.0
September		12.9	0.0
October		0.0	0.0
November		0.0	0.0
December		1.1	0.0
Total	0.0	358.3	1.1
2019 actual (normalized)			<u><u>1</u></u>

Normalized Volumes
SA ID
7956034772

	12 months ending <u>12/31/2017</u>	12 months ending <u>12/31/2018</u>	12 months ending <u>12/31/2019</u>
January	1,621.9	1,058.9	836.6
February	1,574.0	1,326.8	1,477.1
March	1,369.2	1,273.1	1,379.2
April	820.9	1,473.8	849.7
May	363.3	1,098.0	331.0
June	228.2	185.1	167.2
July	109.8	126.4	120.3
August	136.9	131.0	86.9
September	161.4	145.2	131.3
October	130.2	183.4	90.2
November	213.1	345.2	382.3
December	436.5	812.6	613.6
Total	7,165.4	8,159.5	6,465.4
3 year average (normalized)			<u><u>7,263</u></u>

Normalized Volumes
SA ID
1892694152

	12 months ending 12/31/2017	12 months ending 12/31/2018	12 months ending 12/31/2019
January	4.1	0.0	28.5
February	0.0	0.3	0.0
March	5.1	0.0	10.6
April	0.0	15.9	22.4
May	5.8	16.1	0.8
June	12.1	54.5	23.0
July	0.0	8.9	7.6
August	0.0	0.0	8.5
September	4.4	11.2	11.2
October	9.1	5.5	4.0
November	7.9	25.8	11.4
December	4.4	11.7	15.6
Total	52.9	149.9	143.6
2 year average (normalized)			147

Normalized Volumes
SA ID
3126643917

	12 months ending 12/31/2017	12 months ending 12/31/2018	12 months ending 12/31/2019
January	210.8	235.8	69.7
February	126.0	157.1	107.8
March	129.5	96.6	96.4
April	23.3	59.4	27.3
May	14.7	8.8	5.7
June	0.0	0.0	0.0
July	0.0	0.0	0.0
August	0.0	0.0	0.0
September	0.0	0.0	0.0
October	7.2	8.6	7.4
November	62.7	19.8	45.0
December	75.8	50.8	51.1
Total	650.0	636.9	410.4
3 year average (normalized)			566

**MONTANA-DAKOTA UTILITIES CO.
NORTH DAKOTA GAS UTILITY**

**Small Interruptible Weather Normalization
Twelve Months Ended December 31, 2019**

Small Interruptible - Rate 710	Days in Month	Customers	Baseload/ Customer 1/	Normal Degree Days	Normalized Heating Use/ Customer 2/	Normalized Total Use/ Customer
January	31	46	84.91	1,401	718.35	803.26
February	28	46	76.70	1,401	718.35	795.05
March	31	46	84.91	1,068	547.61	632.52
April	30	46	82.18	734	376.35	458.53
May	31	46	84.91	373	191.25	276.16
June	30	46	82.18	65	33.33	115.51
July	31	45	84.91	0	0.00	84.91
August	31	45	84.91	0	0.00	84.91
September	30	45	82.18	14	7.18	89.36
October	31	47	84.91	212	108.70	193.61
November	30	47	82.18	734	376.35	458.53
December	31	47	84.91	1,172	600.93	685.84
Total	365	552	999.79	7,174	3,678.40	4,678.19

1/ Daily baseload per customer 2.73917 * number of days in month.

2/ Use per degree day per customer 0.51274 * normal degree days.

12 months ended December 31, 2019 average customers 46

12 months ended December 31, 2019 normalized total use/customer 4,678.19

12 months ended December 31, 2019 normalized use 215,197

**North Dakota Gas 2019
Wahpeton Interruptible Sales
Rate W03
Normalized Volumes**

<u>SA ID</u>	<u>Per Books 2019</u>	<u>Restated 2019</u>	<u>Normalized</u>	<u>Difference</u>
<u>Non-Heat Sensitive</u>				
5185202902	30,681.5	30,681.5	28,495	(2,186.5)
6831202764	4,217.9	4,217.9	3,854	(363.9)
9318202001	8,957.9	8,957.9	9,711	753.1
9128202070	17,865.6	17,865.6	17,491	(374.6)
3941202814	49,702.7	49,702.7	47,445	(2,257.7)
5296291474	481,593.3	481,593.3	461,670	(19,923.3)
9862951816	782.6	782.6	783	0.4
8398202706	824.7	824.7	791	(33.7)
1490202425	37,506.6	37,506.6	36,170	(1,336.6)
Total Non-Contract Customers	632,132.8	632,132.8	606,410	(25,722.8)
Heat Sensitive Customers	183,388.3	183,388.3	185,801	2,412.7
Total Large Int. Transport	815,521.1	815,521.1	792,211	(23,310.1)
Customers	19	19	19	0
<u>Volumes Moved</u>				

Normalized Volumes
SA ID
5185202902

	12 months ending <u>12/31/2017</u>	12 months ending <u>12/31/2018</u>	12 months ending <u>12/31/2019</u>
January	2,226.4	5,653.0	4,312.6
February	2,070.6	4,060.8	4,853.3
March	1,515.2	1,256.4	5,268.1
April	1,313.0	2,569.9	3,261.8
May	1,873.5	1,748.0	2,018.1
June	1,042.9	1,083.2	1,232.8
July	902.5	969.0	1,171.9
August	974.8	1,096.5	1,020.6
September	916.7	1,022.8	1,043.8
October	1,075.0	1,532.2	1,300.9
November	2,016.4	2,038.4	1,966.9
December	3,658.9	3,277.8	3,230.7
Total	<u>19,585.9</u>	<u>26,308.0</u>	<u>30,681.5</u>
2 year average (normalized)			<u><u>28,495</u></u>

Normalized Volumes
SA ID
6831202764

	12 months ending <u>12/31/2017</u>	12 months ending <u>12/31/2018</u>	12 months ending <u>12/31/2019</u>
January	366.1	314.0	493.3
February	9.1	226.2	275.8
March	361.0	324.5	390.1
April	287.4	335.7	341.9
May	316.7	311.5	278.6
June	337.8	277.7	299.2
July	297.4	257.6	365.5
August	323.3	295.4	318.9
September	299.0	320.0	319.3
October	308.9	368.0	370.4
November	344.6	337.9	358.7
December	322.1	402.6	406.2
Total	<u>3,573.4</u>	<u>3,771.1</u>	<u>4,217.9</u>
3 year average (normalized)			<u><u>3,854</u></u>

Normalized Volumes
SA ID
9318202001

	12 months ending <u>12/31/2017</u>	12 months ending <u>12/31/2018</u>	12 months ending <u>12/31/2019</u>
January	768.5	858.8	831.8
February	894.6	911.3	938.7
March	1,055.4	730.3	917.2
April	1,191.5	994.3	830.6
May	1,240.4	1,004.3	946.3
June	1,283.4	1,074.8	1,020.8
July	1,100.2	1,098.1	878.4
August	1,164.3	843.4	687.9
September	471.6	644.5	474.9
October	589.8	390.6	714.0
November	590.3	697.2	490.4
December	216.6	359.7	226.9
Total	<u>10,566.6</u>	<u>9,607.3</u>	<u>8,957.9</u>
3 year average (normalized)			<u><u>9,711</u></u>

Normalized Volumes
SA ID
9128202070

	12 months ending <u>12/31/2017</u>	12 months ending <u>12/31/2018</u>	12 months ending <u>12/31/2019</u>
January	2,265.4	2,499.2	2,218.7
February	1,996.7	2,299.7	2,076.8
March	1,811.0	2,381.3	2,260.2
April	1,215.0	1,623.1	1,633.4
May	1,074.9	1,739.9	1,516.4
June	936.3	1,505.0	1,152.0
July	950.6	1,344.0	1,079.5
August	987.8	965.1	1,059.2
September	932.7	818.6	1,018.5
October	923.5	833.3	1,354.7
November	1,470.3	856.0	1,108.6
December	1,588.2	1,590.6	1,387.6
Total	<u>16,152.4</u>	<u>18,455.8</u>	<u>17,865.6</u>
3 year average (normalized)			<u><u>17,491</u></u>

Normalized Volumes
SA ID
3941202814

	12 months ending <u>12/31/2017</u>	12 months ending <u>12/31/2018</u>	12 months ending <u>12/31/2019</u>
January	11,284.8	2,336.2	5,322.3
February	12,601.3	4,796.1	4,409.0
March	6,950.1	2,167.8	2,838.6
April	786.6	1,613.0	3,073.4
May	8,443.7	657.6	1,941.2
June	12,935.3	1,297.6	2,029.3
July	134.4	1,281.1	332.1
August	38.0	261.7	3,319.5
September	44.0	225.3	3,894.9
October	111.3	2,890.9	10,009.6
November	5,009.4	3,846.4	8,818.3
December	<u>7,162.0</u>	<u>5,758.2</u>	<u>3,714.5</u>
Total	65,500.9	27,131.9	49,702.7
3 year average (normalized)			<u><u>47,445</u></u>

Normalized Volumes
SA ID
5296291474

	12 months ending <u>12/31/2017</u>	12 months ending <u>12/31/2018</u>	12 months ending <u>12/31/2019</u>
January	34,850.2	42,898.1	53,986.3
February	37,529.1	30,144.3	45,926.8
March	53,508.1	38,373.5	42,939.5
April	39,909.7	48,532.4	36,707.1
May	48,314.3	47,579.8	47,525.4
June	51,532.1	37,730.4	38,329.4
July	14,672.3	36,275.0	44,206.3
August	52,479.6	38,160.5	18,696.8
September	22,777.1	31,832.4	28,033.0
October	4,254.7	7,284.0	41,909.5
November	7,697.6	36,460.6	33,792.6
December	<u>36,547.6</u>	<u>46,475.4</u>	<u>49,540.6</u>
Total	404,072.4	441,746.4	481,593.3
2 year average (normalized)			<u><u>461,670</u></u>

Normalized Volumes
SA ID
9862951816

	12 months ending <u>12/31/2017</u>	12 months ending <u>12/31/2018</u>	12 months ending <u>12/31/2019</u>
January		0.0	0.0
February		0.0	0.0
March		0.0	173.3
April		0.0	34.3
May		0.0	0.0
June		0.0	0.0
July		0.0	0.0
August	1.0	0.0	0.0
September	0.0	0.0	0.0
October	0.0	0.0	2.0
November	0.0	0.0	112.5
December	0.0	0.0	460.5
Total	<u>1.0</u>	<u>0.0</u>	<u>782.6</u>
2019 actuals (normalized)			<u><u>783</u></u>

Normalized Volumes
SA ID
8398202706

	12 months ending <u>12/31/2017</u>	12 months ending <u>12/31/2018</u>	12 months ending <u>12/31/2019</u>
January	305.2	327.1	121.3
February	48.3	316.6	292.3
March	40.1	254.3	311.9
April	5.9	154.8	81.3
May	0.2	22.7	8.1
June	0.0	0.0	0.0
July	0.0	0.0	0.0
August	0.0	0.0	0.0
September	0.0	0.0	0.0
October	0.0	0.0	0.0
November	4.1	4.1	0.0
December	8.5	55.2	9.8
Total	<u>412.3</u>	<u>1,134.8</u>	<u>824.7</u>
3 year average (normalized)			<u><u>791</u></u>

Normalized Volumes
SA ID
1490202425

	12 months ending <u>12/31/2017</u>	12 months ending <u>12/31/2018</u>	12 months ending <u>12/31/2019</u>
January	3,046.4	3,791.5	3,594.9
February	3,141.3	3,258.9	3,701.3
March	3,482.6	3,367.6	3,328.3
April	3,102.5	2,918.2	2,978.7
May	2,365.9	3,043.1	3,102.5
June	2,951.7	2,629.5	2,676.5
July	2,058.7	2,735.6	2,991.7
August	2,963.4	3,091.4	2,727.1
September	2,574.0	2,663.1	2,714.6
October	2,666.3	2,927.0	3,075.3
November	2,829.0	2,584.1	2,974.2
December	<u>3,484.9</u>	<u>3,328.1</u>	<u>3,641.5</u>
Total	34,666.7	36,338.1	37,506.6
3 year average (normalized)			<u><u>36,170</u></u>

**MONTANA-DAKOTA UTILITIES CO.
NORTH DAKOTA GAS UTILITY**

**Wahpeton Interruptible Gas Weather Normalization
Twelve Months Ended December 31, 2019**

Rate W03 - Wahpeton Interruptible	Days in Month	Customers	Baseload/ Customer 1/	Normal Degree Days	Normalized Heating Use/ Customer 2/	Normalized Total Use/ Customer
January	31	10	417.60	1,396	2,699.39	3,116.99
February	28	10	377.18	1,553	3,002.97	3,380.15
March	31	10	417.60	1,102	2,130.89	2,548.49
April	30	10	404.13	723	1,398.04	1,802.17
May	31	10	417.60	326	630.37	1,047.97
June	30	10	404.13	37	71.55	475.68
July	31	10	417.60	0	0.00	417.60
August	31	10	417.60	0	0.00	417.60
September	30	10	404.13	6	11.60	415.73
October	31	10	417.60	171	330.66	748.26
November	30	10	404.13	691	1,336.16	1,740.29
December	31	10	417.60	1,061	2,051.61	2,469.21
Total	365	120	4,916.90	7,066	13,663.24	18,580.14

1/ Daily baseload per customer 13.47085 * number of days in month.

2/ Use per degree day per customer 1.93366 * normal degree days.

12 months ended December 31, 2019 average customers 10
 12 months ended December 31, 2019 normalized total use/customer 18,580.14
 12 months ended December 31, 2019 normalized use 185,801

**North Dakota Gas 2019
Small Interruptible Sales
Contract Rates 712/713/714
Normalized Volumes**

	<u>Service Rate</u>	<u>SA ID</u>	<u>Per Books 2019</u>	<u>Restated 2019</u>	<u>Normalized</u>	<u>Difference</u>
<u>Non-Heat Sensitive</u>	714	4870988980	32,900.5	32,900.5	29,217	(3,683.5)
<u>Heat Sensitive Customers</u>	712	1306128628	15,021.7	15,021.7	13,897	(1,124.7)
	713	7563132252	73,696.5	73,696.5	64,951	(8,745.5)
Total			<u>88,718.2</u>	<u>88,718.2</u>	<u>78,848</u>	<u>(9,870.2)</u>
Total Small Int. Contracted Customers			<u><u>121,618.7</u></u>	<u><u>121,618.7</u></u>	<u><u>108,065</u></u>	<u><u>(13,553.7)</u></u>
Customers			<u><u>3</u></u>	<u><u>3</u></u>	<u><u>3</u></u>	<u><u>0</u></u>

**MONTANA-DAKOTA UTILITIES CO.
NORTH DAKOTA GAS UTILITY**

**Small Interruptible Weather Normalization
Twelve Months Ended December 31, 2019**

	Contract Rate 712	Days in Month	Customers	Baseload/ Customer 1/	Normal Degree Days	Normalized Heating Use/ Customer 2/	Normalized Total Use/ Customer
January		31	1	518.25	1,401	1,522.28	2,040.53
February		28	1	468.10	1,401	1,522.28	1,990.38
March		31	1	518.25	1,068	1,160.46	1,678.71
April		30	1	501.53	734	797.54	1,299.07
May		31	1	518.25	373	405.29	923.54
June		30	1	501.53	65	70.63	572.16
July		31	1	518.25	0	0.00	518.25
August		31	1	518.25	0	0.00	518.25
September		30	1	501.53	14	15.21	516.74
October		31	1	518.25	212	230.35	748.60
November		30	1	501.53	734	797.54	1,299.07
December		31	1	518.25	1,172	1,273.46	1,791.71
Total		365	12	6,101.97	7,174	7,795.04	13,897.01

1/ Daily baseload per customer 16.71783 * number of days in month.

2/ Use per degree day per customer 1.08657 * normal degree days.

12 months ended December 31, 2019 average customers 1
 12 months ended December 31, 2019 normalized total use/customer 13,897.01
 12 months ended December 31, 2019 normalized use 13,897

**MONTANA-DAKOTA UTILITIES CO.
NORTH DAKOTA GAS UTILITY**

**Small Interruptible Weather Normalization
Twelve Months Ended December 31, 2019**

	Contract Rate 713	Days in Month	Customers	Baseload/ Customer 1/	Normal Degree Days	Normalized Heating Use/ Customer 2/	Normalized Total Use/ Customer
January		31	1	1,034.33	1,401	10,305.85	11,340.18
February		28	1	934.24	1,401	10,305.85	11,240.09
March		31	1	1,034.33	1,068	7,856.28	8,890.61
April		30	1	1,000.97	734	5,399.36	6,400.33
May		31	1	1,034.33	373	2,743.81	3,778.14
June		30	1	1,000.97	65	478.14	1,479.11
July		31	1	1,034.33	0	0.00	1,034.33
August		31	1	1,034.33	0	0.00	1,034.33
September		30	1	1,000.97	14	102.98	1,103.95
October		31	1	1,034.33	212	1,559.49	2,593.82
November		30	1	1,000.97	734	5,399.36	6,400.33
December		31	1	1,034.33	1,172	8,621.31	9,655.64
Total		365	12	12,178.43	7,174	52,772.43	64,950.86

1/ Daily baseload per customer 33.36557 * number of days in month.

2/ Use per degree day per customer 7.35607 * normal degree days.

12 months ended December 31, 2019 average customers 1
 12 months ended December 31, 2019 normalized total use/customer 64,950.86
 12 months ended December 31, 2019 normalized use 64,951

Normalized Volumes
SA ID
4870988980

	12 months ending <u>12/31/2017</u>	12 months ending <u>12/31/2018</u>	12 months ending <u>12/31/2019</u>
January	2,538.5	2,581.6	3,168.4
February	2,575.4	3,326.4	5,811.5
March	2,018.5	3,672.6	6,698.3
April	2,014.9	2,762.8	4,784.6
May	1,466.2	2,331.8	2,201.0
June	1,312.5	1,326.6	1,707.6
July	1,115.9	1,186.3	906.7
August	837.9	1,032.0	996.7
September	1,074.4	1,119.8	978.6
October	1,062.4	1,226.5	1,103.0
November	1,499.6	2,083.1	2,483.4
December	2,201.4	2,884.9	2,060.7
Total	<u>19,717.6</u>	<u>25,534.4</u>	<u>32,900.5</u>
2 year average (normalized)			<u><u>29,217</u></u>

**North Dakota Gas 2019
Small Interruptible Transportation
Rate 810
Normalized Volumes**

	SA ID	Per Books 2019	Restated 2019	Normalized	Difference
Non-Heat Sensitive					
	4319014720	12,855.3	12,855.3	11,339	(1,516.3)
	2391736535	9,348.1	9,348.1	10,152	803.9
	1414623684	17,373.7	17,373.7	17,133	(240.7)
	1214246396	41,298.4	41,298.4	32,049	(9,249.4)
	4166133049	11,040.1	11,040.1	11,171	130.9
	0661429820	33,392.0	33,392.0	37,412	4,020.0
	5230340006	6,290.0	6,290.0	6,485	195.0
	0730823874	50,071.7	50,071.7	47,086	(2,985.7)
	9440603654	4,252.8	4,252.8	4,395	142.2
	4912913129	119,595.3	119,595.3	119,710	114.7
	6849863740	18,716.0	18,716.0	16,839	(1,877.0)
	8330183019	2,828.8	2,828.8	2,700	(128.8)
	3987572778	9,165.3	9,166.5	10,027	861.7
	2372910856	38,502.1	38,666.5	37,312	(1,190.1)
	0636552585	28,419.9	28,419.9	28,424	4.1
	6285817520	2,961.5	10,210.3	7,665	4,703.5
Total Non-Heat Customers		406,111.0	413,525.4	399,899	(6,212.0)
Heat Sensitive Customers	Multiple	695,210.9	695,534.5	615,185	(80,025.9)
Customers Moved to Rate 74		67,337.3	0.0		
Total Large Int. Transport		<u>1,168,659.2</u>	<u>1,109,059.9</u>	<u>1,015,084</u>	<u>(153,575.2)</u>
Customers		<u>61</u>	<u>61</u>	<u>61</u>	<u>0</u>
		0.0			

**MONTANA-DAKOTA UTILITIES CO.
NORTH DAKOTA GAS UTILITY**

**Small Transportation Weather Normalization
Twelve Months Ended December 31, 2019**

Small Transportation - Rate 810	Days in Month	Customers	Baseload/ Customer 1/	Normal Degree Days	Normalized Heating Use/ Customer 2/	Normalized Total Use/ Customer
January	31	45	412.22	1,401	1,721.90	2,134.12
February	28	45	372.33	1,401	1,721.90	2,094.23
March	31	45	412.22	1,068	1,312.63	1,724.85
April	30	45	398.92	734	902.12	1,301.04
May	31	45	412.22	373	458.44	870.66
June	30	45	398.92	65	79.89	478.81
July	31	45	412.22	0	0.00	412.22
August	31	45	412.22	0	0.00	412.22
September	30	45	398.92	14	17.21	416.13
October	31	45	412.22	212	260.56	672.78
November	30	45	398.92	734	902.12	1,301.04
December	31	45	412.22	1,172	1,440.45	1,852.67
Total	365	540	4,853.55	7,174	8,817.22	13,670.77

1/ Daily baseload per customer 13.29749 * number of days in month.

2/ Use per degree day per customer 1.22905 * normal degree days.

12 months ended December 31, 2019 average customers 45

12 months ended December 31, 2019 normalized total use/customer 13,670.77

12 months ended December 31, 2019 normalized use 615,185

Normalized Volumes
SA ID
4319014720

	12 months ending 12/31/2017	12 months ending 12/31/2018	12 months ending 12/31/2019
January	701.8	994.6	874.3
February	885.7	990.0	1,031.1
March	591.3	1,059.5	1,183.8
April	806.4	1,012.9	1,265.4
May	834.3	1,239.6	1,013.1
June	871.9	1,018.5	1,313.1
July	747.1	1,109.2	1,043.3
August	606.4	795.5	1,013.0
September	1,014.3	703.7	1,072.9
October	930.7	677.3	1,164.4
November	923.4	984.3	1,239.5
December	771.8	890.4	641.4
Total	9,685.1	11,475.5	12,855.3
3 year average (normalized)			<u><u>11,339</u></u>

Normalized Volumes
SA ID
2391736535

	12 months ending 12/31/2017	12 months ending 12/31/2018	12 months ending 12/31/2019
January	832.7	909.8	777.0
February	881.1	1,077.2	882.6
March	756.9	1,057.3	720.0
April	838.6	993.7	769.8
May	742.6	1,035.8	808.7
June	854.6	1,170.0	813.0
July	773.0	909.2	718.6
August	692.0	855.8	772.0
September	777.1	866.4	743.0
October	709.7	804.5	733.9
November	870.9	1,019.9	843.6
December	889.7	788.5	765.9
Total	9,618.9	11,488.1	9,348.1
3 year average (normalized)			<u><u>10,152</u></u>

Normalized Volumes
SA ID
1414623684

	12 months ending <u>12/31/2017</u>	12 months ending <u>12/31/2018</u>	12 months ending <u>12/31/2019</u>
January	2,203.2	1,924.6	1,991.0
February	2,345.1	2,283.3	2,791.1
March	2,199.8	2,501.4	2,666.7
April	2,082.2	2,334.5	2,417.3
May	1,581.5	1,766.2	1,701.0
June	1,122.5	1,144.9	1,112.6
July	372.7	749.6	854.2
August	439.6	647.5	356.5
September	545.0	565.3	282.2
October	414.1	535.8	356.4
November	763.2	1,568.8	1,117.6
December	1,938.3	1,997.0	1,727.1
Total	<u>16,007.2</u>	<u>18,018.9</u>	<u>17,373.7</u>
3 year average (normalized)			<u><u>17,133</u></u>

Normalized Volumes
SA ID
1214246396

	12 months ending <u>12/31/2017</u>	12 months ending <u>12/31/2018</u>	12 months ending <u>12/31/2019</u>
January	2,362.7	2,755.0	4,747.5
February	4,379.2	2,706.4	1,789.5
March	3,644.3	2,667.0	3,181.0
April	2,275.1	2,348.5	2,763.5
May	2,055.2	2,144.7	749.5
June	1,332.4	882.3	557.7
July	2,902.4	1,493.7	1,448.8
August	1,031.6	901.0	1,128.3
September	736.6	471.4	987.7
October	516.5	942.4	977.2
November	2,149.0	3,743.4	7,649.1
December	4,454.8	5,953.3	15,318.6
Total	<u>27,839.8</u>	<u>27,009.1</u>	<u>41,298.4</u>
3 year average (normalized)			<u><u>32,049</u></u>

Normalized Volumes
SA ID
4166133049

	12 months ending 12/31/2017	12 months ending 12/31/2018	12 months ending 12/31/2019
January	1,344.4	1,087.4	1,105.6
February	1,436.3	1,320.5	1,339.5
March	1,237.4	1,196.3	1,307.7
April	1,294.5	1,072.8	1,094.1
May	979.1	940.7	922.5
June	801.0	714.7	800.5
July	586.9	602.6	627.6
August	542.6	638.3	661.2
September	646.9	677.6	641.5
October	658.9	720.1	663.4
November	870.4	992.0	956.1
December	1,036.6	1,074.2	920.4
Total	11,435.0	11,037.2	11,040.1
3 year average (normalized)			<u><u>11,171</u></u>

Normalized Volumes
SA ID
0661429820

	12 months ending 12/31/2017	12 months ending 12/31/2018	12 months ending 12/31/2019
January	2,235.0	1,139.7	215.6
February	3,956.0	738.7	143.6
March	1,591.1	1,199.1	934.0
April	1,605.2	1,705.6	1,586.8
May	3,375.3	3,195.7	4,794.8
June	4,748.5	3,874.3	3,878.8
July	3,845.8	4,234.1	3,633.6
August	3,765.0	4,922.6	3,924.9
September	4,709.1	4,612.2	3,949.1
October	5,026.9	3,962.6	3,510.0
November	5,087.6	3,636.2	4,514.5
December	2,946.1	2,731.0	2,306.3
Total	42,891.6	35,951.8	33,392.0
3 year average (normalized)			<u><u>37,412</u></u>

Normalized Volumes
SA ID
5230340006

	12 months ending 12/31/2017	12 months ending 12/31/2018	12 months ending 12/31/2019
January	883.6	809.8	719.3
February	866.7	800.4	744.6
March	631.2	769.3	767.6
April	566.7	611.1	625.3
May	360.9	499.9	444.9
June	306.9	300.0	343.5
July	274.7	254.5	365.8
August	294.4	261.5	74.7
September	445.1	343.3	278.5
October	580.9	431.7	357.8
November	657.7	677.8	707.0
December	783.9	752.5	861.0
Total	6,652.7	6,511.8	6,290.0
3 year average (normalized)			6,485

Normalized Volumes
SA ID
0730823874

	12 months ending 12/31/2017	12 months ending 12/31/2018	12 months ending 12/31/2019
January	5,167.4	4,247.8	4,742.2
February	5,065.2	4,824.0	5,335.9
March	4,289.8	5,017.4	5,125.2
April	4,249.2	4,522.6	4,819.3
May	2,948.5	4,043.0	4,157.1
June	3,194.8	3,290.5	3,901.1
July	2,818.8	3,319.0	3,188.9
August	2,348.0	3,254.4	3,128.2
September	2,895.3	3,311.2	3,399.0
October	2,681.9	3,262.2	3,349.0
November	3,812.0	4,151.7	4,390.2
December	4,087.2	4,383.7	4,535.6
Total	43,558.1	47,627.5	50,071.7
3 year average (normalized)			47,086

Normalized Volumes
SA ID
9440603654

	12 months ending 12/31/2017	12 months ending 12/31/2018	12 months ending 12/31/2019
January	5.7	0.0	198.9
February	0.0	0.0	0.0
March	0.0	19.7	0.0
April	402.5	514.3	0.0
May	931.5	1,382.6	864.9
June	604.7	285.9	572.9
July	21.8	2.2	64.2
August	0.0	0.0	0.0
September	0.0	0.0	0.0
October	8.2	168.7	13.3
November	584.0	997.0	1,024.6
December	870.3	2,131.8	1,514.0
Total	3,428.7	5,502.2	4,252.8
3 year average (normalized)			4,395

Normalized Volumes
SA ID
4912913129

	12 months ending 12/31/2017	12 months ending 12/31/2018	12 months ending 12/31/2019
January	12,089.0	11,640.1	11,027.0
February	11,817.9	12,074.2	8,863.4
March	5,643.5	5,766.9	5,778.3
April	7,939.7	7,512.8	11,269.3
May	10,808.5	10,841.9	10,688.9
June	10,534.9	10,907.4	10,877.9
July	9,606.8	9,703.2	9,544.8
August	9,688.0	9,819.6	9,856.7
September	10,197.7	9,961.3	10,068.9
October	9,847.2	9,737.0	9,996.2
November	11,034.9	10,634.5	11,019.6
December	10,871.4	10,856.0	10,604.3
Total	120,079.5	119,454.9	119,595.3
3 year average (normalized)			119,710

Normalized Volumes
SA ID
6849863740

	12 months ending 12/31/2017	12 months ending 12/31/2018	12 months ending 12/31/2019
January	0.0	0.0	0.0
February	0.0	0.0	0.0
March	0.0	0.0	0.0
April	0.0	0.0	0.0
May	0.0	0.0	4.4
June	408.4	1,623.3	480.9
July	1,238.5	1,489.1	5,923.1
August	2,347.8	1,379.5	4,822.6
September	2,718.1	2,359.5	5,514.2
October	3,349.3	620.2	1,970.8
November	4,900.6	411.1	0.0
December	0.0	7.8	0.0
Total	14,962.7	7,890.5	18,716.0
2 year average (normalized)			16,839

Normalized Volumes
SA ID
8330183019

	12 months ending 12/31/2017	12 months ending 12/31/2018	12 months ending 12/31/2019
January	1,170.5	376.0	425.4
February	1,159.0	414.8	398.5
March	910.1	425.5	452.5
April	577.6	342.5	383.4
May	230.5	220.7	257.7
June	99.1	44.6	199.7
July	29.6	20.0	22.7
August	24.0	19.9	18.5
September	33.6	19.9	20.4
October	56.0	70.2	29.1
November	177.8	228.0	273.6
December	282.8	388.1	347.3
Total	4,750.6	2,570.2	2,828.8
2 year average (normalized)			2,700

Normalized Volumes
SA ID
3987572778

	12 months ending 12/31/2017	12 months ending 12/31/2018	12 months ending 12/31/2019
January	1,587.9	1,154.8	1,008.5
February	1,761.4	1,739.5	1,533.0
March	1,299.6	1,622.7	1,532.1
April	1,024.1	1,397.8	1,274.8
May	387.5	1,008.8	531.2
June	377.6	584.7	602.0
July	626.2	482.8	251.2
August	387.5	226.3	165.9
September	592.2	670.2	425.7
October	255.7	661.0	368.3
November	568.7	604.2	645.6
December	813.2	1,078.7	828.2
Total	9,681.6	11,231.5	9,166.5
3 year average (normalized)			10,027

Normalized Volumes
SA ID
2372910856

	12 months ending 12/31/2017	12 months ending 12/31/2018	12 months ending 12/31/2019
January	7,180.7	4,963.6	5,948.4
February	7,533.3	5,183.6	6,978.0
March	6,007.1	5,516.1	6,905.2
April	5,892.0	5,025.4	5,307.0
May	4,090.3	4,057.4	3,233.0
June	459.1	109.2	940.3
July		0.0	0.0
August		0.0	0.0
September	0.0	0.0	0.0
October	2.3	700.8	328.0
November	2,379.2	3,854.7	4,107.6
December	4,849.6	5,466.4	4,919.0
Total	38,393.6	34,877.2	38,666.5
3 year average (normalized)			37,312

Normalized Volumes
SA ID
0636552585

	12 months ending <u>12/31/2017</u>	12 months ending <u>12/31/2018</u>	12 months ending <u>12/31/2019</u>
January			
February			
March			
April			
May		0.0	
June	935.4	258.0	705.1
July	4,531.3	2,673.0	4,740.5
August	4,531.2	4,186.9	5,222.3
September	7,482.2	3,127.9	4,853.9
October	9,123.7	5,018.8	7,387.3
November	8,969.7	4,737.0	5,510.8
December	428.1	848.4	0.0
Total	<u>36,001.6</u>	<u>20,850.0</u>	<u>28,419.9</u>
3 year average (normalized)			<u><u>28,424</u></u>

Normalized Volumes
SA ID
6285817520

	12 months ending <u>12/31/2017</u>	12 months ending <u>12/31/2018</u>	12 months ending <u>12/31/2019</u>
January	624.5	609.5	881.0
February	651.3	596.6	1,135.3
March	627.5	796.7	984.7
April	619.6	573.4	1,077.2
May	667.9	516.8	863.1
June	495.8	502.8	799.7
July	440.3	475.3	755.7
August	382.5	403.3	752.1
September	285.0	398.1	422.6
October	365.1	390.5	787.8
November	774.9	399.8	729.7
December	577.7	608.9	1,021.4
Total	<u>6,512.1</u>	<u>6,271.7</u>	<u>10,210.3</u>
3 year average (normalized)			<u><u>7,665</u></u>

Total: 399,899

**North Dakota Gas 2019
Large Interruptible Transportation
Rate 820 & WTG
Normalized Volumes**

	Service Rate	SA ID	Per Books 2019	Restated 2019	Normalized	Difference
<u>Non-Heat Sensitive</u>						
	820	3003650175	228,846.1	228,846.1	224,381	(4,465.1)
	820	6702438868	103,918.0	103,918.0	105,892	1,974.0
	820	8066830964	<u>108,750.4</u>	<u>108,750.4</u>	108,235	(515.4)
Total Non-Contract Customers			<u>441,514.5</u>	<u>441,514.5</u>	438,508	(3,006.5)
<u>Heat Sensitive Customers</u>						
	820	6928717453	161,887.6	161,887.6	153,884	(8,003.6)
	823	2379935198	432,207.8	432,207.8	419,163	(13,044.8)
	824	7210019478	181,796.6	181,796.6	181,797	0.4
	825	1330506282	3,588,241.9	3,588,241.9	3,548,567	(39,674.9)
	WTG	Multiple	<u>1,043,852.6</u>	<u>1,043,852.6</u>	1,125,190	81,337.4
Total Contract Customers			<u>5,246,098.9</u>	<u>5,246,098.9</u>	5,274,717	28,618.1
Total Large Int. Transport			<u><u>5,849,501.0</u></u>	<u><u>5,849,501.0</u></u>	<u><u>5,867,109</u></u>	<u><u>17,608.0</u></u>
Customers			<u><u>16</u></u>	<u><u>16</u></u>	<u><u>16</u></u>	<u><u>0</u></u>
<u>Volumes Moved</u>						

**MONTANA-DAKOTA UTILITIES CO.
NORTH DAKOTA GAS UTILITY**

**Large Transportation Weather Normalization
Twelve Months Ended December 31, 2019**

SA ID 6928717453	Days in Month	Customers	Baseload/ Customer 1/	Normal Degree Days	Normalized Heating Use/ Customer 2/	Normalized Total Use/ Customer
January	31	1	9,363.39	1,381	8,652.32	18,015.71
February	28	1	8,457.26	1,377	8,627.26	17,084.52
March	31	1	9,363.39	1,041	6,522.14	15,885.53
April	30	1	9,061.35	702	4,398.21	13,459.56
May	31	1	9,363.39	348	2,180.31	11,543.70
June	30	1	9,061.35	51	319.53	9,380.88
July	31	1	9,363.39	0	0.00	9,363.39
August	31	1	9,363.39	0	0.00	9,363.39
September	30	1	9,061.35	10	62.65	9,124.00
October	31	1	9,363.39	195	1,221.73	10,585.12
November	30	1	9,061.35	712	4,460.87	13,522.22
December	31	1	9,363.39	1,148	7,192.52	16,555.91
Total	365	12	110,246.39	6,965	43,637.54	153,883.93

1/ Daily baseload per customer 302.04486 * number of days in month.

2/ Use per degree day per customer 6.26526 * normal degree days.

12 months ended December 31, 2019 average customers 1
 12 months ended December 31, 2019 normalized total use/customer 153,883.93
 12 months ended December 31, 2019 normalized use 153,884

Normalized Volumes
SA ID
3003650175

	12 months ending <u>12/31/2017</u>	12 months ending <u>12/31/2018</u>	12 months ending <u>12/31/2019</u>
January	22,706.9	19,679.6	21,585.7
February	25,004.0	24,097.4	26,062.1
March	22,498.2	22,742.3	24,404.9
April	22,901.9	22,018.8	22,990.0
May	18,917.5	19,454.3	18,662.5
June	17,421.5	15,210.2	17,813.6
July	15,231.1	13,608.0	15,048.0
August	14,828.6	13,761.9	13,092.6
September	14,921.7	14,706.3	11,890.8
October	15,263.1	14,024.7	14,370.5
November	16,954.5	18,318.8	21,635.3
December	<u>19,301.8</u>	<u>20,723.9</u>	<u>21,290.1</u>
Total	225,950.8	218,346.2	228,846.1
3 year average (normalized)			<u><u>224,381</u></u>

Normalized Volumes
SA ID
6702438868

	12 months ending <u>12/31/2017</u>	12 months ending <u>12/31/2018</u>	12 months ending <u>12/31/2019</u>
January	11,804.8	12,845.5	10,194.8
February	11,300.9	12,161.1	11,828.7
March	8,296.3	10,542.3	11,104.8
April	9,178.1	9,972.1	10,030.2
May	7,715.2	9,312.9	9,363.7
June	8,906.3	9,644.3	7,069.7
July	6,321.9	7,086.3	5,483.4
August	5,448.2	5,223.8	5,003.5
September	4,968.5	4,996.5	5,337.1
October	6,749.9	9,072.1	6,614.7
November	10,770.5	10,349.6	9,090.0
December	<u>10,773.4</u>	<u>10,316.2</u>	<u>12,797.4</u>
Total	102,234.0	111,522.7	103,918.0
3 year average (normalized)			<u><u>105,892</u></u>

Normalized Volumes
SA ID
8066830964

	12 months ending <u>12/31/2017</u>	12 months ending <u>12/31/2018</u>	12 months ending <u>12/31/2019</u>
January	9,860.6	9,338.8	8,768.6
February	11,112.6	12,341.1	13,926.6
March	8,306.0	12,775.1	14,232.9
April	9,177.0	10,737.3	11,139.2
May	6,205.1	9,287.5	8,099.8
June	5,310.4	6,870.0	7,202.6
July	4,899.3	6,545.9	6,894.9
August	3,814.6	6,605.9	5,633.0
September	5,568.1	7,051.8	6,858.7
October	5,338.5	6,737.2	6,426.4
November	6,503.5	9,054.7	9,319.9
December	8,511.8	10,374.6	10,247.8
Total	<u>84,607.5</u>	<u>107,719.9</u>	<u>108,750.4</u>
2 year average (normalized)			<u><u>108,235</u></u>

Normalized Volumes
Contract Rate 823
SA ID
2379935198

	12 months ending <u>12/31/2017</u>	12 months ending <u>12/31/2018</u>	12 months ending <u>12/31/2019</u>
January	37,766.4	36,664.9	37,151.2
February	36,770.3	48,432.7	37,634.1
March	30,814.7	44,197.2	35,007.9
April	32,582.9	40,703.3	38,504.6
May	14,649.3	37,351.6	35,592.9
June	18,227.1	37,664.7	35,966.0
July	24,346.3	36,222.4	34,465.4
August	30,944.3	37,090.4	34,394.6
September	32,654.4	35,316.2	35,128.8
October	33,321.3	34,473.9	34,589.0
November	37,694.6	36,442.4	37,977.3
December	<u>35,310.2</u>	<u>35,638.4</u>	<u>35,796.0</u>
Total	365,081.8	460,198.1	432,207.8
3 year average (normalized)			<u><u>419,163</u></u>

Normalized Volumes
Contract Rate 824
SA ID
7210019478

	12 months ending <u>12/31/2017</u>	12 months ending <u>12/31/2018</u>	12 months ending <u>12/31/2019</u>
January			17,259.0
February			23,908.2
March			22,098.1
April			19,585.3
May			14,009.7
June			12,082.6
July			10,150.0
August			9,905.3
September			11,005.9
October		11,610.0	10,324.7
November		16,702.4	15,458.7
December		<u>18,447.9</u>	<u>16,009.1</u>
Total	<u>0.0</u>	<u>46,760.3</u>	<u>181,796.6</u>
2019 Actuals (normalized)			<u><u>181,797</u></u>

Normalized Volumes
Contract Rate 825
SA ID
1330506282

	12 months ending <u>12/31/2017</u>	12 months ending <u>12/31/2018</u>	12 months ending <u>12/31/2019</u>
January	317,773.1	305,844.4	322,005.1
February	315,029.4	298,680.7	308,536.1
March	281,837.1	313,100.8	278,305.7
April	315,357.0	312,870.9	300,526.8
May	298,125.0	309,634.7	293,393.1
June	245,080.6	288,297.1	295,254.1
July	277,927.5	261,409.7	291,110.8
August	294,863.9	280,104.9	305,272.1
September	297,173.1	283,576.2	306,235.8
October	261,124.3	313,681.3	258,778.6
November	300,854.8	283,584.4	322,110.9
December	295,824.8	305,702.8	306,712.8
Total	<u>3,500,970.6</u>	<u>3,556,487.9</u>	<u>3,588,241.9</u>
3 year average (normalized)			<u><u>3,548,567</u></u>

Normalized Volumes
Contract Rate WTG
SA ID
Multiple

	12 months ending <u>12/31/2017</u>	12 months ending <u>12/31/2018</u>	12 months ending <u>12/31/2019</u>
January	103,598.0	96,426.0	85,783.0
February	106,447.0	98,825.0	91,159.0
March	99,048.0	82,550.0	82,043.0
April	106,883.0	92,162.0	95,578.0
May	91,732.0	100,342.0	93,456.0
June	111,023.0	95,222.0	99,714.0
July	95,858.0	88,653.0	92,604.0
August	102,743.0	82,109.0	88,019.0
September	90,801.0	96,198.0	72,426.0
October	94,218.0	99,310.0	68,713.7
November	100,408.0	105,407.0	88,555.5
December	99,100.0	92,653.0	85,801.4
Total	<u>1,201,859.0</u>	<u>1,129,857.0</u>	<u>1,043,852.6</u>
3 year average (normalized)			<u><u>1,125,190</u></u>

600 - Residential

Month	Customers	Dth 1/	BPDD60 2/	Days	Dth/cust	DD/Day	Dth/Day/Cust
Jan-17	94,104	1,671,185.9	1,615	31	17.8	52.09677	0.57287
Feb-17	93,958	1,276,795.1	1,226	28	13.6	43.78571	0.48532
Mar-17	94,318	1,237,990.5	987	31	13.1	31.83871	0.42341
Apr-17	94,139	743,017.2	681	30	7.9	22.70000	0.26309
May-17	94,219	490,226.7	332	31	5.2	10.70968	0.16784
Jun-17	94,279	235,567.1	85	30	2.5	2.83333	0.08329
Jul-17	93,842	139,484.9	13	31	1.5	0.41935	0.04795
Aug-17	94,185	139,643.2	2	31	1.5	0.06452	0.04783
Sep-17	93,729	132,712.3	34	30	1.4	1.13333	0.0472
Oct-17	94,001	281,170.3	232	31	3	7.48387	0.09649
Nov-17	94,039	650,678.5	752	30	6.9	25.06667	0.23064
Dec-17	94,271	1,030,179.8	901	31	10.9	29.06452	0.35251
Jan-18	94,524	1,652,132.1	1,497	31	17.5	48.29032	0.56382
Feb-18	94,400	1,472,730.8	1,523	28	15.6	54.39286	0.55718
Mar-18	94,646	1,439,162.5	1,180	31	15.2	38.06452	0.49051
Apr-18	94,583	1,030,313.2	1,023	30	10.9	34.10000	0.36311
May-18	94,695	601,737.3	373	31	6.4	12.03226	0.20498
Jun-18	94,412	206,201.2	46	30	2.2	1.53333	0.0728
Jul-18	94,240	135,713.4	1	31	1.4	0.03226	0.04645
Aug-18	94,364	139,871.4	1	31	1.5	0.03226	0.04781
Sep-18	94,094	132,087.2	51	30	1.4	1.70000	0.04679
Oct-18	94,722	432,846.2	402	31	4.6	12.96774	0.14741
Nov-18	94,690	725,285.1	830	30	7.7	27.66667	0.25532
Dec-18	94,861	1,158,043.0	1,060	31	12.2	34.19355	0.3938
Jan-19	94,976	1,351,006.6	1,192	31	14.2	38.45161	0.45886
Feb-19	94,882	1,647,883.5	1,745	28	17.4	62.32143	0.62028
Mar-19	95,061	1,661,714.4	1,471	31	17.5	47.45161	0.56389
Apr-19	95,155	966,884.3	755	30	10.2	25.16667	0.33871
May-19	95,255	580,629.2	435	31	6.1	14.03226	0.19663
Jun-19	94,946	313,886.0	156	30	3.3	5.20000	0.1102
Jul-19	94,949	153,097.8	9	31	1.6	0.29032	0.05201
Aug-19	94,877	137,892.3	2	31	1.5	0.06452	0.04688
Sep-19	94,618	141,038.8	39	30	1.5	1.30000	0.04969
Oct-19	95,111	379,484.1	309	31	4	9.96774	0.12871
Nov-19	95,240	823,556.0	909	30	8.6	30.30000	0.28824
Dec-19	95,611	1,136,597.0	1,140	31	11.9	36.77419	0.38347

Slope	Intercept	R2
0.00999	0.04486	0.97269

1/ Reflects billed dk per month.

2/ Reflects billing period degree days.

700 - Small Firm General

Month	Customers	Dth 1/	BPDD60 2/	Days	Dth/cust	DD/Day	Dth/Day/Cust
Jan-17	10,450	403,705.2	1,615	31	38.6	52.09677	1.2462
Feb-17	10,436	298,642.0	1,226	28	28.6	43.78571	1.02202
Mar-17	10,504	283,732.4	987	31	27	31.83871	0.87135
Apr-17	10,439	160,236.9	681	30	15.3	22.70000	0.51166
May-17	10,403	99,717.0	332	31	9.6	10.70968	0.30921
Jun-17	10,471	40,122.1	85	30	3.8	2.83333	0.12772
Jul-17	10,443	21,905.1	13	31	2.1	0.41935	0.06766
Aug-17	10,516	22,041.3	2	31	2.1	0.06452	0.06761
Sep-17	10,504	21,347.7	34	30	2	1.13333	0.06774
Oct-17	10,547	49,903.1	232	31	4.7	7.48387	0.15263
Nov-17	10,456	140,906.8	752	30	13.5	25.06667	0.44921
Dec-17	10,616	230,359.9	901	31	21.7	29.06452	0.69998
Jan-18	10,693	391,508.1	1,497	31	36.6	48.29032	1.18108
Feb-18	10,700	347,413.1	1,523	28	32.5	54.39286	1.15959
Mar-18	10,719	339,949.4	1,180	31	31.7	38.06452	1.02305
Apr-18	10,713	239,219.5	1,023	30	22.3	34.10000	0.74433
May-18	10,697	126,987.0	373	31	11.9	12.03226	0.38294
Jun-18	10,599	33,836.2	46	30	3.2	1.53333	0.10641
Jul-18	10,688	21,760.5	1	31	2	0.03226	0.06568
Aug-18	10,689	21,101.0	1	31	2	0.03226	0.06368
Sep-18	10,675	22,990.7	51	30	2.2	1.70000	0.07179
Oct-18	10,698	87,572.0	402	31	8.2	12.96774	0.26406
Nov-18	10,734	159,979.9	830	30	14.9	27.66667	0.4968
Dec-18	10,779	265,897.2	1,060	31	24.7	34.19355	0.79574
Jan-19	10,800	316,423.4	1,192	31	29.3	38.45161	0.94511
Feb-19	10,780	390,821.6	1,745	28	36.3	62.32143	1.2948
Mar-19	10,791	399,244.5	1,471	31	37	47.45161	1.19348
Apr-19	10,796	220,854.0	755	30	20.5	25.16667	0.6819
May-19	10,781	118,944.9	435	31	11	14.03226	0.3559
Jun-19	10,761	58,138.2	156	30	5.4	5.20000	0.18009
Jul-19	10,745	26,285.8	9	31	2.4	0.29032	0.07891
Aug-19	10,734	22,603.1	2	31	2.1	0.06452	0.06793
Sep-19	10,732	23,609.2	39	30	2.2	1.30000	0.07333
Oct-19	10,797	76,375.2	309	31	7.1	9.96774	0.22819
Nov-19	10,824	183,154.0	909	30	16.9	30.30000	0.56404
Dec-19	10,885	263,073.0	1,140	31	24.2	36.77419	0.77963

Slope	Intercept	R2
0.02172	0.05012	0.97027

1/ Reflects billed dk per month.

2/ Reflects billing period degree days.

701 - Large Firm General

Month	Customers	Dth 1/	BPDD60 2/	Days	Dth/cust	DD/Day	Dth/Day/Cust
Jan-17	4,590	1,027,268.5	1,615	31	223.8	52.09677	7.21954
Feb-17	4,589	790,836.8	1,226	28	172.3	43.78571	6.15476
Mar-17	4,600	774,457.6	987	31	168.4	31.83871	5.43098
Apr-17	4,596	492,424.3	681	30	107.1	22.70000	3.5714
May-17	4,599	328,378.3	332	31	71.4	10.70968	2.30329
Jun-17	4,607	186,562.2	85	30	40.5	2.83333	1.34985
Jul-17	4,594	120,158.2	13	31	26.2	0.41935	0.84372
Aug-17	4,625	123,637.7	2	31	26.7	0.06452	0.86234
Sep-17	4,605	120,099.6	34	30	26.1	1.13333	0.86934
Oct-17	4,618	215,041.6	232	31	46.6	7.48387	1.50213
Nov-17	4,628	447,170.1	752	30	96.6	25.06667	3.22076
Dec-17	4,659	721,292.0	901	31	154.8	29.06452	4.99409
Jan-18	4,692	923,480.2	1,497	31	196.8	48.29032	6.34904
Feb-18	4,688	907,074.8	1,523	28	193.5	54.39286	6.91031
Mar-18	4,698	923,964.7	1,180	31	196.7	38.06452	6.34426
Apr-18	4,699	673,247.3	1,023	30	143.3	34.10000	4.77582
May-18	4,698	400,674.3	373	31	85.3	12.03226	2.75117
Jun-18	4,680	160,546.9	46	30	34.3	1.53333	1.1435
Jul-18	4,678	123,905.5	1	31	26.5	0.03226	0.85441
Aug-18	4,690	129,200.2	1	31	27.5	0.03226	0.88865
Sep-18	4,695	124,265.8	51	30	26.5	1.70000	0.88226
Oct-18	4,705	319,814.4	402	31	68	12.96774	2.19269
Nov-18	4,736	480,120.5	830	30	101.4	27.66667	3.37923
Dec-18	4,746	746,376.6	1,060	31	157.3	34.19355	5.07304
Jan-19	4,754	868,523.6	1,192	31	182.7	38.45161	5.89333
Feb-19	4,752	1,036,744.8	1,745	28	218.2	62.32143	7.79179
Mar-19	4,752	1,074,959.7	1,471	31	226.2	47.45161	7.29716
Apr-19	4,756	647,328.4	755	30	136.1	25.16667	4.53692
May-19	4,765	401,721.3	435	31	84.3	14.03226	2.71957
Jun-19	4,754	234,925.0	156	30	49.4	5.20000	1.64721
Jul-19	4,759	152,693.5	9	31	32.1	0.29032	1.03501
Aug-19	4,765	141,705.2	2	31	29.7	0.06452	0.95931
Sep-19	4,749	141,947.5	39	30	29.9	1.30000	0.99633
Oct-19	4,760	298,728.3	309	31	62.8	9.96774	2.02445
Nov-19	4,762	561,322.7	909	30	117.9	30.30000	3.92918
Dec-19	4,787	750,485.0	1,140	31	156.8	36.77419	5.05728

Slope	Intercept	R2
0.11941	0.90499	0.97005

1/ Reflects billed dk per month.

2/ Reflects billing period degree days.

900 - Residential Propane

Month	Customers	Dth 1/	BPDD60 2/	Days	Dth/cust	DD/Day	Dth/Day/Cust
Jan-17	273	3,841.9	1,614	31	14.1	52.06452	0.45396
Feb-17	272	2,580.3	1,239	28	9.5	44.25000	0.3388
Mar-17	273	2,419.6	952	31	8.9	30.70968	0.2859
Apr-17	270	1,054.7	682	30	3.9	22.73333	0.13021
May-17	272	839.1	394	31	3.1	12.70968	0.09951
Jun-17	273	274.7	131	30	1	4.36667	0.03354
Jul-17	274	179.6	17	31	0.7	0.54839	0.02114
Aug-17	275	187.0	5	31	0.7	0.16129	0.02194
Sep-17	274	221.7	49	30	0.8	1.63333	0.02697
Oct-17	273	798.6	288	31	2.9	9.29032	0.09436
Nov-17	277	1,971.7	750	30	7.1	25.00000	0.23727
Dec-17	278	2,103.8	874	31	7.6	28.19355	0.24412
Jan-18	276	4,110.2	1,456	31	14.9	46.96774	0.48039
Feb-18	274	3,372.7	1,454	28	12.3	51.92857	0.43961
Mar-18	276	2,519.8	1,187	31	9.1	38.29032	0.29451
Apr-18	274	2,152.1	975	30	7.9	32.50000	0.26181
May-18	273	740.1	392	31	2.7	12.64516	0.08745
Jun-18	274	204.4	66	30	0.7	2.20000	0.02487
Jul-18	276	190.0	6	31	0.7	0.19355	0.02221
Aug-18	277	174.6	1	31	0.6	0.03226	0.02033
Sep-18	275	192.3	68	30	0.7	2.26667	0.02331
Oct-18	273	1,375.6	420	31	5	13.54839	0.16254
Nov-18	273	1,894.5	816	30	6.9	27.20000	0.23132
Dec-18	273	2,214.0	990	31	8.1	31.93548	0.26161
Jan-19	279	3,373.0	1,108	31	12.1	35.74194	0.38999
Feb-19	273	3,765.5	1,598	28	13.8	57.07143	0.49261
Mar-19	273	3,055.6	1,478	31	11.2	47.67742	0.36105
Apr-19	274	1,673.3	743	30	6.1	24.76667	0.20356
May-19	274	1,216.7	500	31	4.4	16.12903	0.14324
Jun-19	274	362.6	219	30	1.3	7.30000	0.04411
Jul-19	273	206.6	19	31	0.8	0.61290	0.02441
Aug-19	274	172.8	6	31	0.6	0.19355	0.02034
Sep-19	270	218.9	53	30	0.8	1.76667	0.02702
Oct-19	272	1,255.3	343	31	4.6	11.06452	0.14887
Nov-19	272	2,144.3	925	30	7.9	30.83333	0.26278
Dec-19	271	2,709.4	1,088	31	10	35.09677	0.32251

Slope	Intercept	R2
0.00833	0.01150	0.96207

- 1/ Reflects billed dk per month.
- 2/ Reflects billing period degree days.

920 - Small Firm Propane

Month	Customers	Dth 1/	BPDD60 2/	Days	Dth/cust	DD/Day	Dth/Day/Cust
Jan-17	69	2,681.9	1,614	31	38.9	52.06452	1.25381
Feb-17	68	1,765.5	1,239	28	26	44.25000	0.92726
Mar-17	68	1,572.3	952	31	23.1	30.70968	0.74587
Apr-17	68	687.5	682	30	10.1	22.73333	0.33701
May-17	68	529.9	394	31	7.8	12.70968	0.25138
Jun-17	68	246.1	131	30	3.6	4.36667	0.12064
Jul-17	68	167.4	17	31	2.5	0.54839	0.07941
Aug-17	68	179.3	5	31	2.6	0.16129	0.08506
Sep-17	68	175.0	49	30	2.6	1.63333	0.08578
Oct-17	68	489.1	288	31	7.2	9.29032	0.23202
Nov-17	69	1,199.6	750	30	17.4	25.00000	0.57952
Dec-17	68	1,324.9	874	31	19.5	28.19355	0.62851
Jan-18	68	2,702.2	1,456	31	39.7	46.96774	1.28188
Feb-18	69	2,180.3	1,454	28	31.6	51.92857	1.12852
Mar-18	68	1,649.5	1,187	31	24.3	38.29032	0.7825
Apr-18	68	1,337.2	975	30	19.7	32.50000	0.65549
May-18	68	514.7	392	31	7.6	12.64516	0.24417
Jun-18	68	197.3	66	30	2.9	2.20000	0.09672
Jul-18	68	192.3	6	31	2.8	0.19355	0.09122
Aug-18	68	187.7	1	31	2.8	0.03226	0.08904
Sep-18	68	177.9	68	30	2.6	2.26667	0.08721
Oct-18	68	855.2	420	31	12.6	13.54839	0.40569
Nov-18	69	1,273.7	816	30	18.5	27.20000	0.61531
Dec-18	68	1,506.2	990	31	22.2	31.93548	0.71452
Jan-19	68	2,245.2	1,108	31	33	35.74194	1.06509
Feb-19	68	2,536.4	1,598	28	37.3	57.07143	1.33214
Mar-19	68	2,165.5	1,478	31	31.8	47.67742	1.02728
Apr-19	68	1,176.6	743	30	17.3	24.76667	0.57676
May-19	68	855.5	500	31	12.6	16.12903	0.40583
Jun-19	67	324.3	219	30	4.8	7.30000	0.16134
Jul-19	67	221.8	19	31	3.3	0.61290	0.10679
Aug-19	66	184.1	6	31	2.8	0.19355	0.08998
Sep-19	66	187.8	53	30	2.8	1.76667	0.09485
Oct-19	66	788.2	343	31	11.9	11.06452	0.38524
Nov-19	67	1,433.2	925	30	21.4	30.83333	0.71303
Dec-19	66	1,832.0	1,088	31	27.8	35.09677	0.89541

Slope	Intercept	R2
0.02191	0.04802	0.95953

1/ Reflects billed dk per month.
2/ Reflects billing period degree days.

921 - Large Firm Propane

Month	Customers	Dth 1/	BPDD60 2/	Days	Dth/cust	DD/Day	Dth/Day/Cust
Jan-17	7	2,517.3	1,614	31	359.6	52.06452	11.60046
Feb-17	7	1,780.0	1,239	28	254.3	44.25000	9.08163
Mar-17	7	1,692.4	952	31	241.8	30.70968	7.79908
Apr-17	7	922.1	682	30	131.7	22.73333	4.39095
May-17	7	899.3	394	31	128.5	12.70968	4.14424
Jun-17	7	551.2	131	30	78.7	4.36667	2.62476
Jul-17	7	466.2	17	31	66.6	0.54839	2.14839
Aug-17	7	490.1	5	31	70	0.16129	2.25853
Sep-17	7	369.7	49	30	52.8	1.63333	1.76048
Oct-17	7	891.0	288	31	127.3	9.29032	4.10599
Nov-17	7	1,361.4	750	30	194.5	25.00000	6.48286
Dec-17	7	1,407.3	874	31	201	28.19355	6.48525
Jan-18	7	2,428.0	1,456	31	346.9	46.96774	11.18894
Feb-18	7	2,017.0	1,454	28	288.1	51.92857	10.29082
Mar-18	7	1,619.1	1,187	31	231.3	38.29032	7.46129
Apr-18	7	1,454.4	975	30	207.8	32.50000	6.92571
May-18	7	850.6	392	31	121.5	12.64516	3.91982
Jun-18	7	373.9	66	30	53.4	2.20000	1.78048
Jul-18	7	271.8	6	31	38.8	0.19355	1.25253
Aug-18	7	276.0	1	31	39.4	0.03226	1.27189
Sep-18	7	417.2	68	30	59.6	2.26667	1.98667
Oct-18	7	1,068.3	420	31	152.6	13.54839	4.92304
Nov-18	7	1,308.4	816	30	186.9	27.20000	6.23048
Dec-18	7	1,622.1	990	31	231.7	31.93548	7.47512
Jan-19	7	2,308.9	1,108	31	329.8	35.74194	10.64009
Feb-19	7	2,383.6	1,598	28	340.5	57.07143	12.16122
Mar-19	7	2,071.4	1,478	31	295.9	47.67742	9.54562
Apr-19	7	1,389.4	743	30	198.5	24.76667	6.61619
May-19	7	1,095.5	500	31	156.5	16.12903	5.04839
Jun-19	7	582.6	219	30	83.2	7.30000	2.77429
Jul-19	7	426.1	19	31	60.9	0.61290	1.96359
Aug-19	7	348.9	6	31	49.8	0.19355	1.60783
Sep-19	7	401.7	53	30	57.4	1.76667	1.91286
Oct-19	7	1,185.5	343	31	169.4	11.06452	5.46313
Nov-19	7	1,493.0	925	30	213.3	30.83333	7.10952
Dec-19	7	1,778.6	1,088	31	254.1	35.09677	8.19631

Slope	Intercept	R2
0.17891	1.79780	0.95023

1/ Reflects billed dk per month.

2/ Reflects billing period degree days.

648 - Minot AFB Pro Shop

Month	Customers	Dth 1/	BPDD60 2/	Days	Dth/cust	DD/Day	Dth/Day/Cust
Jan-17	1	175.4	1,593	31	175.4	51.38710	5.65806
Feb-17	1	122.3	1,195	28	122.3	42.67857	4.36786
Mar-17	1	127.6	1,025	31	127.6	33.06452	4.11613
Apr-17	1	62.6	708	30	62.6	23.60000	2.08667
May-17	1	61.6	323	31	61.6	10.41935	1.98710
Jun-17	1	17.0	70	30	17.0	2.33333	0.56667
Jul-17	1	5.4	12	31	5.4	0.38710	0.17419
Aug-17	1	2.3	2	31	2.3	0.06452	0.07419
Sep-17	1	9.3	31	30	9.3	1.03333	0.31000
Oct-17	1	40.3	221	31	40.3	7.12903	1.30000
Nov-17	1	88.6	776	30	88.6	25.86667	2.95333
Dec-17	1	96.9	933	31	96.9	30.09677	3.12581
Jan-18	1	171.2	1,501	31	171.2	48.41935	5.52258
Feb-18	1	139.2	1,535	28	139.2	54.82143	4.97143
Mar-18	1	100.9	1,172	31	100.9	37.80645	3.25484
Apr-18	1	95.9	1,056	30	95.9	35.20000	3.19667
May-18	1	29.6	366	31	29.6	11.80645	0.95484
Jun-18	1	3.2	41	30	3.2	1.36667	0.10667
Jul-18	1	1.6	1	31	1.6	0.03226	0.05161
Aug-18	1	2.3	0	31	2.3	0.00000	0.07419
Sep-18	1	7.8	65	30	7.8	2.16667	0.26000
Oct-18	1	69.6	423	31	69.6	13.64516	2.24516
Nov-18	1	103.8	840	30	103.8	28.00000	3.46000
Dec-18	1	107.0	1,063	31	107.0	34.29032	3.45161
Jan-19	1	129.2	1,201	31	129.2	38.74194	4.16774
Feb-19	1	152.4	1,802	28	152.4	64.35714	5.44286
Mar-19	1	111.2	1,457	31	111.2	47.00000	3.58710
Apr-19	1	61.7	714	30	61.7	23.80000	2.05667
May-19	1	31.5	406	31	31.5	13.09677	1.01613
Jun-19	1	7.8	137	30	7.8	4.56667	0.26000
Jul-19	1	1.9	9	31	1.9	0.29032	0.06129
Aug-19	1	0.8	1	31	0.8	0.03226	0.02581
Sep-19	1	6.1	43	30	6.1	1.43333	0.20333
Oct-19	1	35.3	312	31	35.3	10.06452	1.13871
Nov-19	1	77.1	902	30	77.1	30.06667	2.57000
Dec-19	1	123.9	1,136	31	123.9	36.64516	3.99677

Slope	Intercept	R2
0.09358	0.19837	0.94022

1/ Reflects billed dk per month.

2/ Reflects billing period degree days.

641 - Minot AFB

Month	Customers	Dth 1/	BPDD60 2/	Days	Dth/cust	DD/Day	Dth/Day/Cust
Jan-17	1	73,030.3	1,593	31	73,030.3	51.38710	2,355.81613
Feb-17	1	69,661.7	1,195	28	69,661.7	42.67857	2,487.91786
Mar-17	1	54,011.0	1,025	31	54,011.0	33.06452	1,742.29032
Apr-17	1	53,546.7	708	30	53,546.7	23.60000	1,784.89000
May-17	1	30,451.4	323	31	30,451.4	10.41935	982.30323
Jun-17	1	13,740.1	70	30	13,740.1	2.33333	458.00333
Jul-17	1	5,387.5	12	31	5,387.5	0.38710	173.79032
Aug-17	1	3,419.5	2	31	3,419.5	0.06452	110.30645
Sep-17	1	4,007.9	31	30	4,007.9	1.03333	133.59667
Oct-17	1	7,762.1	221	31	7,762.1	7.12903	250.39032
Nov-17	1	23,748.0	776	30	23,748.0	25.86667	791.60000
Dec-17	1	48,807.7	933	31	48,807.7	30.09677	1,574.44194
Jan-18	1	60,317.4	1,501	31	60,317.4	48.41935	1,945.72258
Feb-18	1	62,329.9	1,535	28	62,329.9	54.82143	2,226.06786
Mar-18	1	67,831.4	1,172	31	67,831.4	37.80645	2,188.10968
Apr-18	1	49,419.9	1,056	30	49,419.9	35.20000	1,647.33000
May-18	1	36,315.5	366	31	36,315.5	11.80645	1,171.46774
Jun-18	1	10,424.1	41	30	10,424.1	1.36667	347.47000
Jul-18	1	4,557.7	1	31	4,557.7	0.03226	147.02258
Aug-18	1	3,948.2	0	31	3,948.2	0.00000	127.36129
Sep-18	1	4,446.0	65	30	4,446.0	2.16667	148.20000
Oct-18	1	12,738.4	423	31	12,738.4	13.64516	410.91613
Nov-18	1	30,392.5	840	30	30,392.5	28.00000	1,013.08333
Dec-18	1	47,356.4	1,063	31	47,356.4	34.29032	1,527.62581
Jan-19	1	52,271.5	1,201	31	52,271.5	38.74194	1,686.17742
Feb-19	1	67,084.7	1,802	28	67,084.7	64.35714	2,395.88214
Mar-19	1	70,633.5	1,457	31	70,633.5	47.00000	2,278.50000
Apr-19	1	50,836.5	714	30	50,836.5	23.80000	1,694.55000
May-19	1	27,773.7	406	31	27,773.7	13.09677	895.92581
Jun-19	1	16,999.5	137	30	16,999.5	4.56667	566.65000
Jul-19	1	5,342.8	9	31	5,342.8	0.29032	172.34839
Aug-19	1	3,252.2	1	31	3,252.2	0.03226	104.90968
Sep-19	1	3,916.7	43	30	3,916.7	1.43333	130.55667
Oct-19	1	8,902.1	312	31	8,902.1	10.06452	287.16452
Nov-19	1	33,341.5	902	30	33,341.5	30.06667	1,111.38333
Dec-19	1	43,700.1	1,136	31	43,700.1	36.64516	1,409.68065

Slope	Intercept	R2
40.27878	212.15550	0.87912

1/ Reflects billed dk per month.

2/ Reflects billing period degree days.

W01 - Wahpeton Residential

Month	Customers	Dth 1/	BPDD60 2/	Days	Dth/cust	DD/Day	Dth/Day/Cust
Jan-17	1,801	27,774.1	1,538	31	15.4	49.61290	0.49747
Feb-17	1,794	23,435.9	1,197	28	13.1	42.75000	0.46655
Mar-17	1,807	22,447.4	927	31	12.4	29.90323	0.40072
Apr-17	1,810	14,855.8	709	30	8.2	23.63333	0.27359
May-17	1,830	8,254.0	319	31	4.5	10.29032	0.14550
Jun-17	1,840	4,167.9	103	30	2.3	3.43333	0.07551
Jul-17	1,835	1,702.4	16	31	0.9	0.51613	0.02993
Aug-17	1,842	1,807.8	2	31	1	0.06452	0.03166
Sep-17	1,830	1,671.6	26	30	0.9	0.86667	0.03045
Oct-17	1,851	3,073.9	166	31	1.7	5.35484	0.05357
Nov-17	1,840	10,050.3	740	30	5.5	24.66667	0.18207
Dec-17	1,856	20,441.5	1,051	31	11	33.90323	0.35528
Jan-18	1,862	31,731.1	1,574	31	17	50.77419	0.54972
Feb-18	1,851	29,283.3	1,568	28	15.8	56.00000	0.56501
Mar-18	1,866	27,505.1	1,140	31	14.7	36.77419	0.47549
Apr-18	1,858	18,511.2	1,004	30	10	33.46667	0.33210
May-18	1,858	11,889.2	380	31	6.4	12.25806	0.20642
Jun-18	1,852	2,430.8	30	30	1.3	1.00000	0.04375
Jul-18	1,847	1,620.2	0	31	0.9	0.00000	0.02830
Aug-18	1,836	1,749.0	4	31	1	0.12903	0.03073
Sep-18	1,835	1,592.3	27	30	0.9	0.90000	0.02892
Oct-18	1,843	5,829.0	339	31	3.2	10.93548	0.10203
Nov-18	1,848	12,530.9	845	30	6.8	28.16667	0.22603
Dec-18	1,856	22,867.7	1,174	31	12.3	37.87097	0.39745
Jan-19	1,853	26,972.5	1,272	31	14.6	41.03226	0.46955
Feb-19	1,859	32,923.6	1,863	28	17.7	66.53571	0.63251
Mar-19	1,865	30,545.8	1,426	31	16.4	46.00000	0.52834
Apr-19	1,861	19,324.2	804	30	10.4	26.80000	0.34613
May-19	1,854	10,862.0	422	31	5.9	13.61290	0.18899
Jun-19	1,845	4,842.4	135	30	2.6	4.50000	0.08749
Jul-19	1,843	1,912.0	4	31	1	0.12903	0.03347
Aug-19	1,837	1,711.7	0	31	0.9	0.00000	0.03006
Sep-19	1,823	1,671.0	25	30	0.9	0.83333	0.03055
Oct-19	1,839	4,715.7	227	31	2.6	7.32258	0.08272
Nov-19	1,859	12,945.2	890	30	7	29.66667	0.23212
Dec-19	1,870	21,136.8	1,087	31	11.3	35.06452	0.36462

Slope	Intercept	R2
0.00981	0.02924	0.95989

1/ Reflects billed dk per month.

2/ Reflects billing period degree days.

W01 - Wahpeton Firm

Month	Customers	Dth 1/	BPDD60 2/	Days	Dth/cust	DD/Day	Dth/Day/Cust
Jan-17	390	22,860.3	1,538	31	58.6	49.61290	1.89084
Feb-17	390	17,937.0	1,197	28	46	42.75000	1.64258
Mar-17	393	17,997.4	927	31	45.8	29.90323	1.47726
Apr-17	392	10,931.8	709	30	27.9	23.63333	0.92957
May-17	393	7,924.4	319	31	20.2	10.29032	0.65045
Jun-17	394	5,377.3	103	30	13.6	3.43333	0.45493
Jul-17	394	4,020.6	16	31	10.2	0.51613	0.32918
Aug-17	397	4,237.3	2	31	10.7	0.06452	0.34430
Sep-17	395	3,954.9	26	30	10	0.86667	0.33375
Oct-17	403	5,002.1	166	31	12.4	5.35484	0.40039
Nov-17	396	10,433.5	740	30	26.3	24.66667	0.87824
Dec-17	406	16,526.1	1,051	31	40.7	33.90323	1.31305
Jan-18	407	26,216.8	1,574	31	64.4	50.77419	2.07789
Feb-18	407	22,513.6	1,568	28	55.3	56.00000	1.97557
Mar-18	409	19,826.4	1,140	31	48.5	36.77419	1.56372
Apr-18	407	15,253.4	1,004	30	37.5	33.46667	1.24925
May-18	411	9,316.7	380	31	22.7	12.25806	0.73124
Jun-18	408	4,571.9	30	30	11.2	1.00000	0.37352
Jul-18	405	3,803.8	0	31	9.4	0.00000	0.30297
Aug-18	408	4,560.5	4	31	11.2	0.12903	0.36057
Sep-18	407	3,920.1	27	30	9.6	0.90000	0.32106
Oct-18	415	7,538.3	339	31	18.2	10.93548	0.58595
Nov-18	416	11,567.5	845	30	27.8	28.16667	0.92688
Dec-18	412	18,135.4	1,174	31	44	37.87097	1.41993
Jan-19	413	22,874.7	1,272	31	55.4	41.03226	1.78667
Feb-19	414	26,280.6	1,863	28	63.5	66.53571	2.26713
Mar-19	412	23,176.6	1,426	31	56.3	46.00000	1.81464
Apr-19	412	14,723.6	804	30	35.7	26.80000	1.19123
May-19	412	9,204.8	422	31	22.3	13.61290	0.72070
Jun-19	410	5,414.9	135	30	13.2	4.50000	0.44024
Jul-19	409	4,537.5	4	31	11.1	0.12903	0.35788
Aug-19	409	3,975.7	0	31	9.7	0.00000	0.31357
Sep-19	407	3,987.6	25	30	9.8	0.83333	0.32658
Oct-19	408	6,841.8	227	31	16.8	7.32258	0.54094
Nov-19	408	12,214.2	890	30	29.9	29.66667	0.99789
Dec-19	410	18,061.8	1,087	31	44.1	35.06452	1.42107

Slope	Intercept	R2
0.03107	0.30426	0.97119

1/ Reflects billed dk per month.

2/ Reflects billing period degree days.

Small Interruptible - Rate 710

Month	Customers	Dth 1/	BPDD60 2/	Days	Dth/cust	DD/Day	Dth/Day/Cust
Jan-17	43	38,001.1	1,615	31	883.7	52.09677	28.50795
Feb-17	42	35,914.3	1,226	28	855.1	43.78571	30.53937
Mar-17	44	27,359.6	987	31	621.8	31.83871	20.05836
Apr-17	43	24,521.9	681	30	570.3	22.70000	19.00922
May-17	42	13,507.6	332	31	321.6	10.70968	10.37450
Jun-17	45	6,549.5	85	30	145.5	2.83333	4.85148
Jul-17	44	4,790.0	13	31	108.9	0.41935	3.51173
Aug-17	45	3,093.0	2	31	68.7	0.06452	2.21720
Sep-17	44	4,218.4	34	30	95.9	1.13333	3.19576
Oct-17	43	5,373.2	232	31	125.0	7.48387	4.03091
Nov-17	44	13,004.2	752	30	295.6	25.06667	9.85167
Dec-17	45	24,746.8	901	31	549.9	29.06452	17.73964
Jan-18	43	34,789.9	1,497	31	809.1	48.29032	26.09895
Feb-18	43	36,135.8	1,523	28	840.4	54.39286	30.01312
Mar-18	46	35,782.3	1,180	31	777.9	38.06452	25.09278
Apr-18	43	25,125.9	1,023	30	584.3	34.10000	19.47744
May-18	44	18,005.2	373	31	409.2	12.03226	13.20029
Jun-18	43	6,033.1	46	30	140.3	1.53333	4.67682
Jul-18	44	3,672.6	1	31	83.5	0.03226	2.69252
Aug-18	44	3,576.1	1	31	81.3	0.03226	2.62177
Sep-18	44	3,939.4	51	30	89.5	1.70000	2.98439
Oct-18	46	7,343.3	402	31	159.6	12.96774	5.14958
Nov-18	44	17,640.4	830	30	400.9	27.66667	13.36394
Dec-18	43	29,196.6	1,060	31	679.0	34.19355	21.90293
Jan-19	46	31,676.0	1,192	31	688.6	38.45161	22.21318
Feb-19	46	39,893.0	1,745	28	867.2	62.32143	30.97283
Mar-19	46	42,408.8	1,471	31	921.9	47.45161	29.73969
Apr-19	46	28,356.6	755	30	616.4	25.16667	20.54826
May-19	46	14,548.5	435	31	316.3	14.03226	10.20231
Jun-19	46	8,663.1	156	30	188.3	5.20000	6.27761
Jul-19	45	3,797.8	9	31	84.4	0.29032	2.72244
Aug-19	45	3,415.1	2	31	75.9	0.06452	2.44810
Sep-19	45	3,975.9	39	30	88.4	1.30000	2.94511
Oct-19	47	6,143.7	309	31	130.7	9.96774	4.21668
Nov-19	47	22,427.3	909	30	477.2	30.30000	15.90589
Dec-19	47	30,226.7	1,140	31	643.1	36.77419	20.74585

Slope	Intercept	R2
0.51274	2.73917	0.93589

1/ Reflects billed dk per month.
2/ Reflects billing period degree days.

W01 - Wahpeton Residential

Month	Customers	Dth 1/	BPDD60 2/	Days	Dth/cust	DD/Day	Dth/Day/Cust
Jan-17	10	33,542.1	1,538	31	3,354.2	49.61290	108.20032
Feb-17	10	32,831.1	1,197	28	3,283.1	42.75000	117.25393
Mar-17	10	29,326.1	927	31	2,932.6	29.90323	94.60032
Apr-17	10	23,395.9	709	30	2,339.6	23.63333	77.98633
May-17	10	16,059.0	319	31	1,605.9	10.29032	51.80323
Jun-17	10	7,634.6	103	30	763.5	3.43333	25.44867
Jul-17	10	5,040.4	16	31	504.0	0.51613	16.25935
Aug-17	10	5,577.6	2	31	557.8	0.06452	17.99226
Sep-17	10	5,109.8	26	30	511.0	0.86667	17.03267
Oct-17	10	6,188.4	166	31	618.8	5.35484	19.96258
Nov-17	10	15,764.9	740	30	1,576.5	24.66667	52.54967
Dec-17	10	24,845.3	1,051	31	2,484.5	33.90323	80.14613
Jan-18	10	31,969.1	1,574	31	3,196.9	50.77419	103.12613
Feb-18	10	35,471.2	1,568	28	3,547.1	56.00000	126.68286
Mar-18	10	32,877.9	1,140	31	3,287.8	36.77419	106.05774
Apr-18	10	25,094.1	1,004	30	2,509.4	33.46667	83.64700
May-18	10	20,267.0	380	31	2,026.7	12.25806	65.37742
Jun-18	10	4,104.5	30	30	410.5	1.00000	13.68167
Jul-18	11	2,533.8	0	31	230.3	0.00000	7.43050
Aug-18	10	2,977.6	4	31	297.8	0.12903	9.60516
Sep-18	10	2,715.1	27	30	271.5	0.90000	9.05033
Oct-18	10	3,865.1	339	31	386.5	10.93548	12.46806
Nov-18	10	17,924.2	845	30	1,792.4	28.16667	59.74733
Dec-18	10	24,697.2	1,174	31	2,469.7	37.87097	79.66839
Jan-19	10	26,434.2	1,272	31	2,643.4	41.03226	85.27161
Feb-19	10	32,849.3	1,863	28	3,284.9	66.53571	117.31893
Mar-19	10	32,963.6	1,426	31	3,296.4	46.00000	106.33419
Apr-19	10	24,304.0	804	30	2,430.4	26.80000	81.01333
May-19	10	15,893.5	422	31	1,589.4	13.61290	51.26935
Jun-19	10	6,699.5	135	30	670.0	4.50000	22.33167
Jul-19	10	3,063.1	4	31	306.3	0.12903	9.88097
Aug-19	10	1,259.0	0	31	125.9	0.00000	4.06129
Sep-19	10	692.2	25	30	69.2	0.83333	2.30733
Oct-19	10	3,006.5	227	31	300.7	7.32258	9.69839
Nov-19	10	15,217.5	890	30	1,521.8	29.66667	50.72500
Dec-19	10	21,005.9	1,087	31	2,100.6	35.06452	67.76097

Slope	Intercept	R2
1.93366	13.47085	0.89058

1/ Reflects billed dk per month.
2/ Reflects billing period degree days.

Small Interruptible - Contract Rate 712

Month	Customers	Dth 1/	BPDD60 2/	Days	Dth/cust	DD/Day	Dth/Day/Cust
Jan-17	1	2,118.5	1,615	31	2,118.5	52.09677	68.33871
Feb-17	1	2,004.4	1,226	28	2,004.4	43.78571	71.58571
Mar-17	1	1,564.8	987	31	1,564.8	31.83871	50.47742
Apr-17	1	1,619.1	681	30	1,619.1	22.70000	53.97000
May-17	1	1,089.4	332	31	1,089.4	10.70968	35.14194
Jun-17	1	732.8	85	30	732.8	2.83333	24.42667
Jul-17	1	492.5	13	31	492.5	0.41935	15.88710
Aug-17	1	183.3	2	31	183.3	0.06452	5.91290
Sep-17	1	458.3	34	30	458.3	1.13333	15.27667
Oct-17	1	733.7	232	31	733.7	7.48387	23.66774
Nov-17	1	1,194.1	752	30	1,194.1	25.06667	39.80333
Dec-17	1	1,629.1	901	31	1,629.1	29.06452	52.55161
Jan-18	1	1,506.0	1,497	31	1,506.0	48.29032	48.58065
Feb-18	1	2,182.8	1,523	28	2,182.8	54.39286	77.95714
Mar-18	1	2,127.5	1,180	31	2,127.5	38.06452	68.62903
Apr-18	1	1,818.0	1,023	30	1,818.0	34.10000	60.60000
May-18	1	1,355.6	373	31	1,355.6	12.03226	43.72903
Jun-18	1	592.8	46	30	592.8	1.53333	19.76000
Jul-18	1	371.2	1	31	371.2	0.03226	11.97419
Aug-18	1	288.8	1	31	288.8	0.03226	9.31613
Sep-18	1	354.0	51	30	354.0	1.70000	11.80000
Oct-18	1	809.0	402	31	809.0	12.96774	26.09677
Nov-18	1	1,311.5	830	30	1,311.5	27.66667	43.71667
Dec-18	1	1,721.5	1,060	31	1,721.5	34.19355	55.53226
Jan-19	1	1,834.9	1,192	31	1,834.9	38.45161	59.19032
Feb-19	1	2,149.5	1,745	28	2,149.5	62.32143	76.76786
Mar-19	1	2,308.0	1,471	31	2,308.0	47.45161	74.45161
Apr-19	1	1,668.6	755	30	1,668.6	25.16667	55.62000
May-19	1	1,234.2	435	31	1,234.2	14.03226	39.81290
Jun-19	1	924.3	156	30	924.3	5.20000	30.81000
Jul-19	1	492.2	9	31	492.2	0.29032	15.87742
Aug-19	1	358.5	2	31	358.5	0.06452	11.56452
Sep-19	1	493.0	39	30	493.0	1.30000	16.43333
Oct-19	1	747.1	309	31	747.1	9.96774	24.10000
Nov-19	1	1,313.8	909	30	1,313.8	30.30000	43.79333
Dec-19	1	1,497.6	1,140	31	1,497.6	36.77419	48.30968

Slope	Intercept	R2
1.08657	16.71783	0.88576

1/ Reflects billed dk per month.
2/ Reflects billing period degree days.

Small Interruptible - Contract Rate 713

Month	Customers	Dth 1/	BPDD60 2/	Days	Dth/cust	DD/Day	Dth/Day/Cust
Jan-17	1	9,886.5	1,615	31	9,886.5	52.09677	318.91935
Feb-17	1	10,245.0	1,226	28	10,245.0	43.78571	365.89286
Mar-17	1	8,733.7	987	31	8,733.7	31.83871	281.73226
Apr-17	1	8,528.5	681	30	8,528.5	22.70000	284.28333
May-17	1	4,046.2	332	31	4,046.2	10.70968	130.52258
Jun-17	1	795.9	85	30	795.9	2.83333	26.53000
Jul-17	1	1,110.0	13	31	1,110.0	0.41935	35.80645
Aug-17	1	972.3	2	31	972.3	0.06452	31.36452
Sep-17	1	1,219.5	34	30	1,219.5	1.13333	40.65000
Oct-17	1	1,213.5	232	31	1,213.5	7.48387	39.14516
Nov-17	1	4,911.1	752	30	4,911.1	25.06667	163.70333
Dec-17	1	8,577.2	901	31	8,577.2	29.06452	276.68387
Jan-18	1	10,045.4	1,497	31	10,045.4	48.29032	324.04516
Feb-18	1	12,441.8	1,523	28	12,441.8	54.39286	444.35000
Mar-18	1	10,850.7	1,180	31	10,850.7	38.06452	350.02258
Apr-18	1	7,468.4	1,023	30	7,468.4	34.10000	248.94667
May-18	1	6,434.9	373	31	6,434.9	12.03226	207.57742
Jun-18	1	2,146.1	46	30	2,146.1	1.53333	71.53667
Jul-18	1	223.4	1	31	223.4	0.03226	7.20645
Aug-18	1	941.1	1	31	941.1	0.03226	30.35806
Sep-18	1	1,147.0	51	30	1,147.0	1.70000	38.23333
Oct-18	1	1,730.4	402	31	1,730.4	12.96774	55.81935
Nov-18	1	7,329.9	830	30	7,329.9	27.66667	244.33000
Dec-18	1	11,124.1	1,060	31	11,124.1	34.19355	358.84194
Jan-19	1	10,719.8	1,192	31	10,719.8	38.45161	345.80000
Feb-19	1	12,747.4	1,745	28	12,747.4	62.32143	455.26429
Mar-19	1	13,331.2	1,471	31	13,331.2	47.45161	430.03871
Apr-19	1	9,590.0	755	30	9,590.0	25.16667	319.66667
May-19	1	5,439.3	435	31	5,439.3	14.03226	175.46129
Jun-19	1	2,191.6	156	30	2,191.6	5.20000	73.05333
Jul-19	1	839.4	9	31	839.4	0.29032	27.07742
Aug-19	1	253.4	2	31	253.4	0.06452	8.17419
Sep-19	1	660.5	39	30	660.5	1.30000	22.01667
Oct-19	1	2,174.8	309	31	2,174.8	9.96774	70.15484
Nov-19	1	5,990.7	909	30	5,990.7	30.30000	199.69000
Dec-19	1	9,758.4	1,140	31	9,758.4	36.77419	314.78710

Slope	Intercept	R2
7.35607	33.36557	0.90362

1/ Reflects billed dk per month.
2/ Reflects billing period degree days.

Small Transportation - Rate 810

Month	Customers	Dth 1/	BPDD60 2/	Days	Dth/cust	DD/Day	Dth/Day/Cust
Jan-17	45	97,503.0	1,615	31	2,166.7	52.09677	69.89462
Feb-17	45	95,694.5	1,226	28	2,126.5	43.78571	75.94802
Mar-17	45	71,549.5	987	31	1,590.0	31.83871	51.28996
Apr-17	45	69,284.7	681	30	1,539.7	22.70000	51.32200
May-17	45	44,180.6	332	31	981.8	10.70968	31.67068
Jun-17	45	23,142.1	85	30	514.3	2.83333	17.14230
Jul-17	45	16,731.7	13	31	371.8	0.41935	11.99405
Aug-17	45	15,264.8	2	31	339.2	0.06452	10.94251
Sep-17	45	17,041.9	34	30	378.7	1.13333	12.62363
Oct-17	45	21,297.7	232	31	473.3	7.48387	15.26717
Nov-17	45	42,778.2	752	30	950.6	25.06667	31.68756
Dec-17	45	68,253.2	901	31	1,516.7	29.06452	48.92703
Jan-18	44	85,681.9	1,497	31	1,947.3	48.29032	62.81664
Feb-18	44	94,419.4	1,523	28	2,145.9	54.39286	76.63912
Mar-18	44	91,024.7	1,180	31	2,068.7	38.06452	66.73365
Apr-18	44	74,790.0	1,023	30	1,699.8	34.10000	56.65909
May-18	44	57,586.2	373	31	1,308.8	12.03226	42.21862
Jun-18	44	22,921.9	46	30	521.0	1.53333	17.36508
Jul-18	45	17,192.5	1	31	382.1	0.03226	12.32437
Aug-18	45	16,007.0	1	31	355.7	0.03226	11.47455
Sep-18	45	16,928.3	51	30	376.2	1.70000	12.53948
Oct-18	45	26,878.5	402	31	597.3	12.96774	19.26774
Nov-18	45	54,910.0	830	30	1,220.2	27.66667	40.67407
Dec-18	45	81,183.5	1,060	31	1,804.1	34.19355	58.19606
Jan-19	45	88,666.4	1,192	31	1,970.4	38.45161	63.56014
Feb-19	45	106,644.3	1,745	28	2,369.9	62.32143	84.63833
Mar-19	45	115,213.8	1,471	31	2,560.3	47.45161	82.59054
Apr-19	45	84,228.2	755	30	1,871.7	25.16667	62.39126
May-19	45	50,568.1	435	31	1,123.7	14.03226	36.24953
Jun-19	45	33,697.4	156	30	748.8	5.20000	24.96104
Jul-19	45	18,911.3	9	31	420.3	0.29032	13.55649
Aug-19	45	17,076.9	2	31	379.5	0.06452	12.24151
Sep-19	45	17,889.7	39	30	397.5	1.30000	13.25163
Oct-19	45	23,375.6	309	31	519.5	9.96774	16.75670
Nov-19	45	61,746.2	909	30	1,372.1	30.30000	45.73793
Dec-19	45	77,516.6	1,140	31	1,722.6	36.77419	55.56746

Slope	Intercept	R2
1.22905	13.29749	0.91951

1/ Reflects billed dk per month.
2/ Reflects billing period degree days.

Large Transportation - SA ID 6928717453

Month	Customers	Dth 1/	BPDD60 2/	Days	Dth/cust	DD/Day	Dth/Day/Cust
Jan-17	1	18,476.5	1,614	31	18,476.5	52.06452	596.01613
Feb-17	1	17,999.2	1,202	28	17,999.2	42.92857	642.82857
Mar-17	1	14,515.8	948	31	14,515.8	30.58065	468.25161
Apr-17	1	15,084.3	634	30	15,084.3	21.13333	502.81000
May-17	1	12,105.4	305	31	12,105.4	9.83871	390.49677
Jun-17	1	9,824.5	68	30	9,824.5	2.26667	327.48333
Jul-17	1	8,212.1	11	31	8,212.1	0.35484	264.90645
Aug-17	1	8,926.4	0	31	8,926.4	0.00000	287.94839
Sep-17	1	9,308.6	28	30	9,308.6	0.93333	310.28667
Oct-17	1	9,289.9	208	31	9,289.9	6.70968	299.67419
Nov-17	1	12,244.1	700	30	12,244.1	23.33333	408.13667
Dec-17	1	15,324.7	831	31	15,324.7	26.80645	494.34516
Jan-18	1	18,536.6	1,465	31	18,536.6	47.25806	597.95484
Feb-18	1	18,565.1	1,495	28	18,565.1	53.39286	663.03929
Mar-18	1	17,452.1	1,148	31	17,452.1	37.03226	562.97097
Apr-18	1	15,189.9	994	30	15,189.9	33.13333	506.33000
May-18	1	13,671.9	357	31	13,671.9	11.51613	441.02903
Jun-18	1	10,069.4	41	30	10,069.4	1.36667	335.64667
Jul-18	1	9,682.9	0	31	9,682.9	0.00000	312.35161
Aug-18	1	9,206.6	0	31	9,206.6	0.00000	296.98710
Sep-18	1	8,344.3	34	30	8,344.3	1.13333	278.14333
Oct-18	1	8,228.4	370	31	8,228.4	11.93548	265.43226
Nov-18	1	12,670.8	799	30	12,670.8	26.63333	422.36000
Dec-18	1	15,245.0	1,046	31	15,245.0	33.74194	491.77419
Jan-19	1	17,064.2	1,174	31	17,064.2	37.87097	550.45806
Feb-19	1	17,685.2	1,717	28	17,685.2	61.32143	631.61429
Mar-19	1	19,493.0	1,447	31	19,493.0	46.67742	628.80645
Apr-19	1	15,857.0	745	30	15,857.0	24.83333	528.56667
May-19	1	11,745.4	414	31	11,745.4	13.35484	378.88387
Jun-19	1	10,241.0	143	30	10,241.0	4.76667	341.36667
Jul-19	1	9,129.3	5	31	9,129.3	0.16129	294.49355
Aug-19	1	10,388.1	2	31	10,388.1	0.06452	335.10000
Sep-19	1	10,515.5	31	30	10,515.5	1.03333	350.51667
Oct-19	1	10,403.8	292	31	10,403.8	9.41935	335.60645
Nov-19	1	14,126.5	887	30	14,126.5	29.56667	470.88333
Dec-19	1	15,238.6	1,118	31	15,238.6	36.06452	491.56774

Slope	Intercept	R2
6.26526	302.04486	0.89664

1/ Reflects billed dk per month.

2/ Reflects billing period degree days.

**MONTANA-DAKOTA UTILITIES CO.
OTHER OPERATING REVENUE
GAS UTILITY - NORTH DAKOTA
WORKPAPER**

	Per Books			Projected	
	2017	2018	2019	2020	20201
<u>Miscellaneous Service Revenue</u>					
Seasonal Reconnect Fee	\$15,443	\$11,821	\$11,112	\$11,112	\$11,112
Reconnect Fee Nonpayment	31,205	33,080	37,548	37,548	37,548
NSF Check fees	34,872	57,917	34,029	34,029	34,029
MAFB Dist. System	456,000	456,000	456,000	456,000	456,000
Work for others	12,937	0	0	0	0
Energy diversion	2,536	2,496	2,294	2,294	2,294
CNG Compression	700	(1,255)	475	475	475
Total	<u>\$553,693</u>	<u>\$560,059</u>	<u>\$541,458</u>	<u>\$541,458</u>	<u>\$541,458</u>
<u>Rent from Property</u>					
Buildings	\$11,691	\$14,318	\$12,597	\$12,774	\$12,774
General Office COS	512,302	535,570	513,307	550,949	550,949
Parking Lots	358	1,274	(9)	0	0
Miscellaneous	2,887	2,853	3,133	1,626	1,626
Total	<u>\$527,238</u>	<u>\$554,015</u>	<u>\$529,028</u>	<u>\$565,349</u>	<u>\$565,349</u>
<u>Other Revenue</u>					
Heskett Pipeline Revenue	\$2,536,011	\$2,274,906	\$2,274,906	\$1,847,730	\$1,847,730
Sale of Sundry Junk Material	4,718	6,457	20,253	20,253	20,253
Sale of operating material	0	0	0	0	0
Patronage Dividends	3,494	8,562	5,375	5,375	5,375
Joint Use Agreements	0	0	0	0	0
Late Payment Revenue 1/	5,211	136,248	129,086	125,026	126,224
Meter Reading for others	41,573	157,873	144,290	130,241	130,241
Miscellaneous	58,944	41,076	18,314	18,314	18,314
Transport & Sales Penalty Rev.	259,897	197,827	193,635	217,120	217,120
Total	<u>\$2,909,848</u>	<u>\$2,822,949</u>	<u>\$2,785,859</u>	<u>\$2,364,059</u>	<u>\$2,365,257</u>
Total	<u><u>\$3,990,779</u></u>	<u><u>\$3,937,023</u></u>	<u><u>\$3,856,345</u></u>	<u><u>\$3,470,866</u></u>	<u><u>\$3,472,064</u></u>

1/ Late Payment Percent
2019 Late Payment Revenue

\$129,086

2019 Sales & Transportation Rev.

121,153,403

% Late Payment Revenue

0.11%

**MONTANA-DAKOTA UTILITIES CO.
REVENUE REQUIREMENT
HESKETT TURBINE PIPELINE
NORTH DAKOTA
2021**

Revenue Requirement

O&M	\$0
Depreciation	560,994
Taxes Other than Income	116,849
Plant related EDITs - ARAM	(10,405)
Return	1,042,669
Income Taxes	246,272
Total	<u>\$1,956,379</u>
Average Rate Base	\$14,275,312
MDDQ	90,000
Capacity Charge per MDDQ	\$21.7375
MDDQ Charge per Month	\$1.8115
Heskett Turbine - MDDQ	85,000
Mandan Town Border Station - MDDQ	5,000
Heskett Turbine - Misc Revenue	<u>\$1,847,730</u>

**MONTANA-DAKOTA UTILITIES CO.
HESKETT TURBINE PIPELINE
NORTH DAKOTA
2021**

Projected Average 2021 Capital Structure

	<u>Ratio</u>	<u>Cost</u>	<u>Weighted Cost</u>
Long Term Debt	42.370%	4.718%	1.999%
Short Term Debt	7.324%	2.378%	0.174%
Common Equity	50.306%	10.200%	5.131%
Total	100.000%		7.304%

Income Taxes

Return	\$1,042,669
Interest	(304,242)
AFUDC Equity	24,411
Net	762,838
 Tax component	 32.2837%
 Income Taxes	 \$246,272

Revenue Requirement Test

Revenue	\$1,956,379
Expenses	
O&M	0
Depr.	560,994
Taxes Other	116,849
	677,843
 Taxable Income before interest	 1,278,536
Interest	(304,242)
AFUDC equity	24,411
Total expenses	998,705
 Income taxes	 243,733
Plant related EDITs - ARAM	(7,866)
 Net Income	 \$1,042,669
 Rate Base	 \$14,275,312
 ROR	 7.304%

**MONTANA-DAKOTA UTILITIES CO.
REVENUE REQUIREMENT - HESKETT TURBINE
NORTH DAKOTA
2021**

ADIT @ 12/31/19	\$2,905,560
2020 Activity	197
Projected ADIT @ 12/31/20	<u>2,905,757</u>
2021 Activity	(10,067)
Projected ADIT @ 12/31/21	<u>\$2,895,690</u>

Month	Weighting For Projection	Monthly Increments	Balance/ Increments	Balance
December 2019	100.00%			\$2,905,560
January 2020	91.78%	\$16	\$15	2,905,575
February	84.11%	16	13	2,905,588
March	75.62%	16	12	2,905,600
April	67.40%	16	11	2,905,611
May	58.90%	16	9	2,905,620
June	50.68%	16	8	2,905,628
July	42.19%	16	7	2,905,635
August	33.70%	16	5	2,905,640
September	25.48%	16	4	2,905,644
October	16.99%	16	3	2,905,647
November	8.77%	16	1	2,905,648
December	0.27%	21	0	2,905,648
Total		<u>\$197</u>	<u>\$88</u>	
December 2020	100.00%			\$2,905,757
January 2021	91.78%	(\$839)	(770)	2,904,987
February	84.11%	(839)	(706)	2,904,281
March	75.62%	(839)	(634)	2,903,647
April	67.40%	(839)	(565)	2,903,082
May	58.90%	(839)	(494)	2,902,588
June	50.68%	(839)	(425)	2,902,163
July	42.19%	(839)	(354)	2,901,809
August	33.70%	(839)	(283)	2,901,526
September	25.48%	(839)	(214)	2,901,312
October	16.99%	(839)	(143)	2,901,169
November	8.77%	(839)	(74)	2,901,095
December	0.27%	(838)	(2)	2,901,093
Total		<u>(\$10,067)</u>	<u>(\$4,664)</u>	

**MONTANA-DAKOTA UTILITIES CO.
CURRENT GAS COST ADJUSTMENT - NORTH DAKOTA
RESIDENTIAL AND GENERAL SERVICE
JULY 2020 PGA WITH 2021 COST OF GAS**

	<u>Amount</u>
<i>Total Gas Costs</i>	\$64,543,268
<i>Dk Requirements - Firm</i>	16,275,786
Average Cost of Gas per dk	\$3.966
Average Cost of Gas as Adjusted for Losses @ 99.55%	3.984

**MONTANA-DAKOTA UTILITIES CO.
CURRENT GAS COST ADJUSTMENT - NORTH DAKOTA
NORTH DAKOTA - OPTIONAL SEASONAL - RATE 72
JULY 2020 PGA WITH 2021 COST OF GAS**

	<u>Amount</u>
Total Gas Costs	\$64,543,268
Less: Annual MDDQ Costs (Excludes Storage Capacity Reservation)	<u>24,006,481</u>
Total Gas Costs excluding MDDQ	\$40,536,787
Firm Service Requirements	16,275,786
Other Gas Costs per Dk (excluding MDDQ)	\$2.491
<u>Summer - June - September</u>	
Summer Seasonal Rate, adjusted for losses	2.502
Loss factor of 0.45%.	
Adjustment for Distribution Losses	99.55%

**MONTANA-DAKOTA UTILITIES CO.
CURRENT GAS COST ADJUSTMENT - NORTH DAKOTA
FIRM GENERAL CONTRACTED DEMAND
JULY 2020 PGA WITH 2021 COST OF GAS**

<u>Cost of Gas</u>	<u>Amount</u>
Total Gas Costs, Excluding Capacity	\$40,536,787
Residential and General Service dk Requirements	16,275,786
Average Cost of Gas per dk	\$2.491
Average Cost of Gas as Adjusted for Losses @ 99.55%	2.502
<u>Capacity Charge</u>	
Current Monthly Capacity Charge	\$10.62
Adjustment for Distribution Losses	0.9955

**MONTANA-DAKOTA UTILITIES CO.
CURRENT GAS COST ADJUSTMENT - NORTH DAKOTA
INTERRUPTIBLE
JULY 2020 PGA WITH 2021 COST OF GAS**

	<u>Amount</u>
<i>Total Gas Costs</i>	\$15,747,855
<i>Dk Requirements - Interruptible</i>	5,999,328
Average Cost of Gas per dk	\$2.625
Average Cost of Gas as Adjusted for Losses @ 99.55%	2.637

**MONTANA-DAKOTA UTILITIES CO.
CURRENT GAS COST ADJUSTMENT - NORTH DAKOTA
AIR FORCE INTERRUPTIBLE
JULY 2020 PGA WITH 2021 COST OF GAS**

	<u>Amount</u>
<i>Total Gas Costs</i>	\$1,201,160
<i>Dk Requirements - Air Force Interruptible</i>	457,577
Average Cost of Gas per dk	\$2.625

**MONTANA-DAKOTA UTILITIES CO.
COST OF GAS - PROPANE
NORTH DAKOTA
EFFECTIVE JULY 2020**

Cost of Purchased Propane	\$2,361
Gallons Purchased	6,557
Projected dk Sales	600
Propane Cost per Dk	\$3.935

**GREAT PLAINS NATURAL GAS CO.
WAHPETON
PURCHASED GAS COST ADJUSTMENT
PROJECTED 2021**

	Billing Determinants	Rate 1/	Demand Months	Amount	Amount Per Dk
<u>Viking Firm</u>					
FT-A - Zone 1-1 (Cat. 3)	8,000	\$3.8060	12	\$365,376	\$0.1085
FT-A - Zone 1-1 (Cat. 3)	5,000	3.8060	12	228,360	0.0678
FT-A Seasonal (Cat. 3)	2,000	3.8060	5	38,060	0.0113
FT-A - Zone 1-1 (Cat. 3)	5,000	3.8060	12	228,360	0.0678
FT-A - Capacity Release	(2,200)	4.7507	5	(52,258)	(0.0155)
<u>Northern Natural Firm</u>					
TFX - Winter/Seasonal	15,000	19.4710	5	1,460,325	\$0.4337
TFX - Summer	13,000	7.3030	7	664,573	0.1974
TF12 Base - Summer	3,921	7.3030	7	200,445	0.0595
TF12 Base - Winter	3,921	13.1450	5	257,708	0.0765
TF12 Variable - Summer	3,614	7.3030	7	184,751	0.0549
TF12 Variable - Winter	3,614	17.8180	5	321,971	0.0956
TF5	3,410	19.4710	5	331,981	0.0986
TFX - Summer	2,000	7.3030	7	102,242	0.0304
TFX - Winter	7,200	19.4710	5	700,956	0.2082
TFX Negotiated Contract - Winter	1,000	26.8918	5	134,459	0.0399
FDD-1 Reservation	4,640	2.8624	12	159,378	0.0473
Interruptible Demand Credit 4/				(653,477)	(0.1941)
Total Demand Charges				<u>\$4,673,210</u>	<u>\$1.3878</u>
Estimated Weighted Average Commodity Cost	3,367,065 2/	2.9530		9,942,943	2.9530
Total Current Firm Gas Cost				<u><u>\$14,616,153</u></u>	<u><u>\$4.3408</u></u>

Interruptible

Demand Charge 3/					\$0.3950
Estimated Weighted Average Commodity Cost					2.9530
Total Current Interruptible Gas Cost					<u>\$3.3480</u>

1/ Effective June 1, 2020

2/ Annual demand volume including Minnesota.

3/ Interruptible demand charge based on 100% load factor:

Firm Capacity (Per MN DEQ filing: Docket No. G004/M-19-430)	36,945
Dk @ 100% Load Factor (Firm capacity x 365 days)	13,484,925
Total Demand Charges (Excl. Interruptible Demand Credit)	<u>5,326,687</u>
Interruptible Demand Charge per dk @ 100% LF	\$0.3950

4/ Interruptible Demand Credit:

Interruptible Demand Charge per dk @ 100% LF	\$0.3950
Total annual interruptible volumes	<u>1,654,373</u>
Total Interruptible Demand Credit	<u>(\$653,477)</u>

Total annual firm volumes	<u>3,367,065</u>
Interruptible Demand Credit per dk - Firm	<u>(\$0.1941)</u>

**GREAT PLAINS NATURAL GAS CO.
BASE COST OF GAS - PROJECTED 2020
TOTAL SYSTEM**

	<u>Total System Supply</u>	<u>Cost per Dk</u>	<u>FDD-1 Storage 1/</u>	<u>FDD-1 Capacity</u>	<u>SMS 2/</u>	<u>Viking Transport</u>
<u>Estimated Cost Per Dk</u>						
Commodity Cost of Gas 3/		\$2.8446				
Transportation - Northern Natural		0.0178			\$0.0208	
Transportation - Viking						\$0.0149
Withdrawal Fee						
Fuel Transportation - Northern Natural 4/		0.0201				
Fuel Transportation - Viking 4/						0.0000
SMS Demand 5/		0.0192				
LMS Demand 5/		0.0060				
FDD-1 Capacity 6/				\$0.0317		
Total Cost Per Dk		\$2.9077		\$0.0317	\$0.0208	\$0.0149
Total Estimated Dk Purchases	5,021,438	5,021,438				3,120,322
Estimated Cost	\$14,828,196	\$14,600,835	\$19,317	\$159,180	\$2,371	\$46,493
Average Cost Per Dk		<u><u>\$2.9530</u></u>				

1/ Total costs related to storage.

2/ Monthly requirement of 9,500 Dk.

3/ Projected based upon 2021 estimated costs and purchases.

4/ Transportation Fuel Percentage of	<u>NNG</u>	<u>Viking</u>
Field Area and Other	0.00%	0.00%
Market Area	0.70%	0.00%
Total	0.70%	0.00%

5/ Amount divided by the annual demand volume.

	<u>Billing Determinants</u>	<u>Rate</u>	<u>Demand Months</u>	<u>Amount</u>	<u>Amount Per Dk</u>
SMS Demand	2,500	\$3.2110	12	\$96,330	\$0.0192
LMS Demand	2,500	\$1.0000	12	\$30,000	\$0.0060

6/ Amount divided by the annual demand volume.

	<u>Billing Determinants</u>	<u>Rate</u>	<u>Demand Months</u>	<u>Amount</u>	<u>Amount Per Dk</u>
FDD-1 Demand Charge (Capacity Charge)	53,509	\$0.5957	5	\$159,377	\$0.0317

<u>Transportation Fuel</u>	<u>NNG</u>	<u>Viking</u>
Dk	5,021,438	3,120,322
Adjusted for Fuel Dk	5,056,836	3,120,322
Fuel Costs	\$100,693	\$0
Fuel Cost Per Dk	\$0.0201	\$0.0000
 <u>Storage Fuel - NNG</u>		
Dk	267,547	
Adjusted for Fuel Dk	270,632	
Fuel Costs		\$8,776
 <u>Injection/Withdrawal</u>		
Dk Injection	267,547	
Dk Withdrawal	267,547	
Total	<u>535,094</u>	
Charge per dk	\$0.0197	
Injection/Withdrawal cost		\$10,541
Total Costs Related to Storage		<u><u>\$19,317</u></u>

**GREAT PLAINS NATURAL GAS CO.
PIPELINE RATES
BASE COST OF GAS FILING
PROJECTED 2021**

Commodity

Viking

FT-A 1/	0.0149	Viking V.41.0.0 FT-A Maximum Rates - Zone 1-1
Fuel Reimbursement	0.00%	Viking V.41.0.0 FT-A Maximum Rates - Zone 1-1

Northern

TF, TFX 1/	0.0178	Northern Substitute 17th Revised Sheet 50 Market Area - N
SMS	0.0208	Northern Substitute 4th Revised Sheet 55 SMS
Storage Withdrawal	0.0197	Northern Substitute 4th Revised FDD - Maximum
Fuel Reimbursement - Transportation	0.70%	Northern 25th Revised Sheet 54
Fuel Reimbursement - Storage	1.14%	Northern 25th Revised Sheet 54

Demand Charges

Viking

FT-A Res - Zone 1-1	3.8060	Viking V.41.0.0 Category 3 FT-A Zone 1-1
LMS Demand	1.0000	Viking V.41.0.0 Part 5.0

Northern

TF12 Base-Summer	7.3030	Northern Substitute 17th Revised TF12 Base Summer
TF12 Base-Winter	13.1450	Northern Substitute 17th Revised TF12 Base Winter
TF12 Variable-Summer	7.3030	Northern Substitute 17th Revised TF12 Variable Summer
TF12 Variable-Winter	17.8180	Northern Substitute 17th Revised TF12 Variable Winter
TF5	19.4710	Northern Substitute 17th Revised TF5
TFX - Winter	19.4710	Northern Substitute 20th Revised Sheet 51 TFX
TFX - Summer	7.3030	Northern Substitute 20th Revised Sheet 51 TFX
SMS	3.2110	Northern Substitute 4th Revised SMS
FDD-1 Reservation	2.8624	Northern Substitute 4th Revised FDD - Maximum
FDD-1 Demand Charge	0.5957	Northern Substitute 4th Revised FDD - Maximum
TFX Negotiated Contract 2/	26.8918	Great Plains Natural Gas Co. Contract No. 127797

1/ Includes FERC ACA charge of \$0.0013. FERC updates the ACA charge every October.

2/ Contract term: 11/1/14 - 3/31/25; Reservation Charge: \$0.8846/Dth/day * 30.4 = \$26.89184

Northern Natural Gas	Sheets 50, 51, 54 & 55	http://apps.northernnaturalgas.com
Viking	Part 5.0 Page 1 of 3 & 3 of 3	http://www.vgt.oneokpartners.com
FERC	Changes every October	\$0.0013 http://www.ferc.gov/

	Projected Volumes										Estimated WACOG	Estimated Costs
	Wahp Res	Wahp Comm	Int	Total Wahp	MIN Firm	MIN Int	Total MN	Total GPNG				
January	31,000	25,083	91,440	147,523	554,153	87,450	641,603	789,126		\$3.32	\$2,619,898	
February	25,815	21,086	79,436	126,337	467,443	81,928	549,371	675,708		\$3.03	2,047,395	
March	20,279	17,372	78,213	115,864	382,305	76,198	458,503	574,367		\$2.66	1,527,816	
April	10,875	10,591	69,780	91,246	223,428	63,630	287,058	378,304		\$2.41	911,713	
May	3,214	5,226	61,535	69,975	95,825	55,025	150,850	220,825		\$2.39	527,772	
June	1,282	3,761	42,600	47,643	60,487	49,650	110,137	157,780		\$2.45	386,561	
July	1,336	3,943	53,723	59,002	62,081	42,625	104,706	163,708		\$2.48	405,996	
August	1,333	3,962	42,098	47,393	61,920	46,469	108,389	155,782		\$2.60	405,033	
September	2,351	4,605	26,520	33,476	76,647	56,070	132,717	166,193		\$2.62	435,426	
October	10,026	10,281	50,747	71,054	205,757	134,881	340,638	411,692		\$2.60	1,070,399	
November	19,153	16,758	73,290	109,201	360,820	116,070	476,890	586,091		\$2.91	1,705,525	
December	28,302	23,451	86,552	138,305	515,114	88,443	603,557	741,862		\$3.02	2,240,423	
	154,966	146,119	755,934	1,057,019	3,065,980	898,439	3,964,419	5,021,438			\$14,283,957	

GPNG
Projected
2021
WACOG
\$2,8446

based on annual plan in mid 2019

**MONTANA-DAKOTA UTILITIES CO.
LABOR EXPENSE - MONTANA GAS
TWELVE MONTHS ENDING DECEMBER 31, 2019**

BONUSES AND INCENTIVE COMPENSATION WORKPAPER

	Per Books 2019	Pro Forma 2020 1/
5130 Bonuses & Comm.	<u>\$225,848</u>	
Adjustment: 1/ MDUR Incentive	<u>(10,548)</u>	
	\$215,300	\$215,300
5131 Incentive Comp. 2/	\$860,535	11.41%

1/ MDU Resources incentives have been reclassified to Account 5131.

2/ 2020 incentive compensation expense has been adjusted to reflect targeted incentive levels as a percentage of straight time and vacation.

Montana-Dakota Utilities
5130 breakdown
12/31/2019

	Total	MT E	ND E	SD E	WY E	MT G	ND G	SD G	WY G	GPMIN G	GPND G	Total
Utility direct Stock Based Compensation	1,436,774.98	188,559.73	563,512.41	48,116.17	50,388.79	146,965.74	217,546.36	109,955.35	34,194.42	70,069.56	7,466.45	1,436,774.98
IGC and CNG share	(751,250.00)	(98,592.68)	(294,645.09)	(25,158.62)	(26,346.91)	(76,844.33)	(113,748.99)	(57,492.62)	(17,879.32)	(36,637.44)	(3,904.00)	(751,250.00)
Montana Dakota Stock Based Compensation	685,524.98	89,967.05	268,867.32	22,957.55	24,041.88	70,121.41	103,797.37	52,462.73	16,315.10	33,432.12	3,562.45	685,524.98
Other Incentives	284,064.12	26,651.86	73,008.06	5,974.67	2,844.65	24,914.41	72,865.97	26,496.16	6,388.05	42,661.88	2,258.41	284,064.12
MDUR Stock based Compensation	1,179,216.30	155,072.94	463,436.87	39,571.09	41,440.06	120,264.44	178,021.68	89,978.29	27,981.76	57,339.09	6,110.08	1,179,216.30
MDUR Incentives	103,422.57	13,600.59	40,645.50	3,470.56	3,634.48	10,547.73	15,613.30	7,891.50	2,454.13	5,028.90	535.88	103,422.57
	1,282,638.87	168,673.53	504,082.37	43,041.65	45,074.54	130,812.17	193,634.98	97,869.79	30,435.89	62,367.99	6,645.96	1,282,638.87
Object 5130 Total	2,252,227.97	285,292.44	845,957.75	71,973.87	71,961.07	225,847.99	370,298.32	176,828.68	53,139.04	138,461.99	12,466.82	2,252,227.97

F:\GOS\Pro Forma\2019 Gas\MT\Work Papers\Object 5130 breakdown M Bakke.xlsx\MDU Summary (values)

Montanta-Dakota Utilities Co.

		<i>1/1/2020</i>	
	Class	Salary	Target Payout
IBEW		\$29,010,072.00	4.5% \$1,305,453.24
	Non-Exempt		
	30	583,421.28	6.0% 35,005.28
	31	1,867,611.20	6.0% 112,056.67
	32	3,108,389.44	6.0% 186,503.37
	33	3,685,283.60	6.0% 221,117.02
	34	866,028.80	6.0% 51,961.73
	35	1,432,246.40	6.0% 85,934.78
	36	1,173,390.40	6.0% 70,403.42
	38	389,459.20	10.0% 38,945.92
			-
	Exempt		
	34	2,984,672.00	8.0% 238,773.76
	35	4,900,127.00	8.0% 392,010.16
	36	8,731,720.00	8.0% 698,537.60
	37	10,064,010.00	8.0% 805,120.80
	38	10,061,290.00	10.0% 1,006,129.00
	39	8,667,477.50	10.0% 866,747.75
	40	3,852,150.00	15.0% 577,822.50
	41	1,667,940.00	20.0% 333,588.00
	42	5,037,350.00	30.0% 1,511,205.00
	Executive		
	E	817,900.00	35.0% 286,265.00
	F	999,600.00	40.0% 399,840.00
	G	574,700.00	45.0% 258,615.00
	H	880,000.00	50.0% 440,000.00
	I	420,000.00	60.0% 252,000.00
	J	927,000.00	75.0% 695,250.00
	K	960,000.00	100.0% 960,000.00
	Total 5131 Incentive	<u>\$103,661,838.82</u>	<u>\$11,829,286.00</u>

Total 5131 - Incentive at Potential	11.41%
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**Montana-Dakota Utilites Co.
Benefits Budget Summary - 2020
09/25/19**

	2019		2020		% Increase		Additional	
	MDU	Budget 1/	MDU	Budget 1/	MDU	Budget	Dollar Amount	MDU
K-Plan Employer Contributions (match/special cont.) ^{5/} - 5197	\$8,115,000		\$8,416,000			4%	\$301,000	
Pension Expense (non-service costs) ^{2/} - 5195	361,000		1,670,000			363%	1,309,000	A
Medical ^{3/} - 5194	10,127,000		11,063,000			9%	936,000	B
Dental - 5194	526,000		538,000			2%	12,000	
LTD - 5192	187,000		198,000			6%	11,000	C
FSA - 5192	9,000		1,800			-80%	(7,200)	D
Life Insurance/BTA - 5194	96,000		104,000			8%	8,000	E
EAP - 5192	18,400		18,900			3%	500	
Subtotal	\$19,439,400		\$22,009,700			13%	\$2,570,300	
FAS106 Expense ^{2/} - (service costs) - 5198	\$455,000		\$437,000			-4%	(\$18,000)	
FAS106 Expense ^{4/} - (non-service costs) - 5196	(\$2,288,000)		(\$2,356,000)			3%	(\$68,000)	
K-Plan Trustee/Recordkeeping Fees (Consulting) - 5221	\$5,490		\$5,080			-7%	(\$410)	F
Pension and Actuarial Consulting - 5221	\$9,100		\$9,050			-1%	(\$50)	
FAS106 Actuarial and Disclosure Consulting - 5221	\$4,600		\$4,500			-2%	(\$100)	
Grand Total	\$17,625,590		\$20,109,330			14%	\$2,483,740	

1/ Salary assumptions for benefits assume a 4% increase (NBU) and 3% (BU).
2/ Updated forecast received 8/2/2019, which includes John Hancock FAS 877/106 Actuarial Costs.
3/ Healthcare premiums approved by HCT and MPC 9/24/2019
4/ Non Service Costs are made up of Interest Costs, Expected Return on Assets, and Net Amortization.
5/ Profit Sharing not included in estimated cost
6/ Includes 8 Open Positions

Change Explanation:

- A/ Increase due to benefit assumption changes; based on August 2, 2019 forecast
- B/ Increase due to higher number of employees enrolled in benefit and increase in premiums
- C/ Increase due to higher number of employees enrolled in benefit and higher salaries
- D/ Decrease due to increase in forfeitures
- E/ Increase due to higher number of employees enrolled in benefit and higher salaries
- F/ Decrease due to change in allocation based on participant counts

MDU Resources Group - Forecast of ASC 715 Expense (in 000s) - Set 1

Plan Allocation	2019 Allocation %		2019 Discount Rate	2020+ Discount Rate	2020	2021	2022	2023	2024
	2019	2020			2020	2021	2022	2023	2024
Qualified Plans									
MDU Bargaining	655	100.00	4.04%	3.25%	810	817	763	797	627
Utilities	724	80.31			860	874	826	887	662
MDU Non-Bargaining Plan Total	901	100.00			1,071	1,088	1,028	1,104	824
Post Retirement Welfare Plans									
Utilities	(1,859)				(1,819)	(1,922)	(1,929)	(1,908)	(1,935)
Subtotal MDU Group	(2,540)	100.00			(2,614)	(2,618)	(2,627)	(2,595)	(2,634)
Grand Total MDU Plan (incl. Cascade & IGC)	(2,796)				(2,753)	(2,826)	(2,899)	(2,924)	(3,015)
Post Retirement Welfare Plans Total	(1,721)				(1,614)	(1,688)	(1,760)	(1,785)	(1,874)
Grand Total (Qualified, Non Qualified & Post Retirement Welfare)	5,161				5,486	5,622	5,216	5,058	3,958

Discount Rate for Expense
 Expected Return on Assets - Pension
 Actual Return on Assets (prior year) --- Pension
 Expected Return on Assets - PRW
 Actual Return on Assets (prior year) --- PRW
 Assumed mortality in accordance with the RP-2014 Mortality Table Adjusted to 2006 with Generational Projection (Scale MP-2018)

**MONTANA-DAKOTA UTILITIES CO.
GAS UTILITY - NORTH DAKOTA
VEHICLE AND WORK EQUIPMENT WORKPAPER**

	Per Books		Per Books	
	2019	2020	2020	2021
Total Vehicle Depr. Exp	\$616,249	\$624,158	\$619,888	
% of Depr. To Expense	60.17%	56.24% 1/	56.24%	1/
Amount of Depr. in O&M	<u>\$370,797</u>	<u>\$351,026</u>	<u>\$348,625</u>	

	Per Books 2019			Projected 2020			Projected 2021		
	Total Expenses	% of Total	Depreciation Expense	Other	Depreciation Expense	Other	Depreciation Expense	Other	Total
Other Gas Supply	\$593	0.07%	\$260	\$333	\$246	\$333	\$245	\$333	\$578
Transmission	108	0.01%	37	71	35	71	35	71	106
Distribution	696,891	86.17%	319,516	377,375	302,479	377,375	300,410	377,375	677,785
Customer Accounting	72,277	8.94%	33,149	39,128	31,382	39,128	31,167	39,128	70,295
Customer Service	7,394	0.91%	3,374	4,020	3,194	4,020	3,172	4,020	7,192
Sales	4,471	0.55%	2,039	2,432	1,931	2,432	1,917	2,432	4,349
A&G	27,025	3.35%	12,422	14,603	11,759	14,603	11,679	14,603	26,282
Total Clearing Account	\$808,759	100.00%	\$370,797	\$437,962	\$351,026	\$437,962	\$348,625	\$437,962	\$786,587
Less Depr.	370,797								
Other Expenses	<u>\$437,962</u>								

1/ Three year average (2017-2019).

Montana-Dakota Utilities Co.
Auto & Work Equipment Usage-Expense/Capital
AA - Total Company
December 31, 2019

	Current Year Only			2019 Avg. % to Expense
	2019 YTD Expense Charges	2019 YTD Capital Additions	2019 YTD Expense & Capital	
Auto - 922	3,445,222.84	1,468,014.45	4,913,237.29	70.12%
Work Equipment - 962	615,941.84	1,220,343.17	1,836,285.01	33.54%
Total	4,061,164.68	2,688,357.62	6,749,522.30	60.17%

Capital/Expense Assets Tabs

	Three Year Average											
	2017 YTD Expense Charges	2018 YTD Expense Charges	2019 YTD Expense Charges	2017-2019 Expense Charges	2017 YTD Capital Additions	2018 YTD Capital Additions	2019 YTD Capital Additions	2017-2019 Capital Additions	2017-2019 Expense & Capital	2017-2019 Avg. % to Expense		
Auto - 922	3,151,130.69	3,320,128.04	3,445,222.84	9,916,481.57	1,182,508.26	1,311,072.59	1,468,014.45	3,961,595.30	13,878,076.87	71.45%		
Work Equipment - 962	557,955.87	661,263.51	615,941.84	1,835,161.22	1,194,879.69	2,766,892.15	1,220,343.17	5,182,115.01	7,017,276.23	26.15%		
Total	3,709,086.56	3,981,391.55	4,061,164.68	11,751,642.79	2,377,387.95	4,077,964.74	2,688,357.62	9,143,710.31	20,895,353.10	56.24%		

* Copied 2017-2018 from last year data

** 2019 Same as Above

Row Labels	Sum of provision
00001-Montana Dakota Utilities Co.	2,561,529.32
Auto	1,498,389.01
UA- Montana Electric	183,186.89
UB- Montana Gas	271,795.46
UD- North Dakota Electric	489,473.68
UE- North Dakota Gas	392,902.25
UG- South Dakota Electric	56,909.70
UH- South Dakota Gas	20,366.66
UI- Wyoming Electric	69,496.19
UJ- Wyoming Gas	10,938.70
UK- East River Gas	-
UM- Great Plains Gas Minnesota	2,729.48
UN- North Dakota Wahpeton	590.00
UT- FERC Utility Transmission	-
Work	1,063,140.31
UA- Montana Electric	203,527.02
UB- Montana Gas	51,946.45
UD- North Dakota Electric	435,497.58
UE- North Dakota Gas	222,665.47
UG- South Dakota Electric	40,217.48
UH- South Dakota Gas	17,107.21
UI- Wyoming Electric	81,909.56
UJ- Wyoming Gas	9,805.98
UK- East River Gas	-
UM- Great Plains Gas Minnesota	372.36
UN- North Dakota Wahpeton	91.20
UT- FERC Utility Transmission	-
00040-Great Plains Natural Gas Co.	150,005.45
Auto	121,855.92
UM- Great Plains Gas Minnesota	121,855.92
UN- North Dakota Wahpeton	-
Work	28,149.53
UM- Great Plains Gas Minnesota	28,149.53
UN- North Dakota Wahpeton	-
Grand Total	2,711,534.77

RS CD	Month	Values		
		Sum of Billed DK	Distinct Count of SA ID	Sum of total
MDUND700	January	1,378.7	37	\$7,981.10
	February	1,565.7	37	\$8,321.69
	March	1,470.9	37	\$7,436.94
	April	925.4	37	\$5,091.53
	May	487.4	35	\$2,923.89
	June	(346.7)	34	(\$2,374.69)
	July	72.4	33	\$1,051.02
	August	67.4	33	\$1,039.86
	September	75.1	33	\$1,008.63
	October	310.8	33	\$2,130.76
	November	675.2	33	\$3,546.11
	December	1,032.9	33	\$5,251.14
MDUND701	January	6,863.9	31	\$38,063.11
	February	6,924.2	30	\$35,175.47
	March	7,487.8	31	\$35,876.01
	April	5,504.9	31	\$27,830.52
	May	2,941.8	31	\$15,075.77
	June	1,804.1	32	\$10,158.37
	July	830.7	32	\$5,970.36
	August	735.5	32	\$5,365.03
	September	1,115.3	32	\$6,916.46
	October	2,406.8	32	\$12,840.27
	November	3,576.8	32	\$16,689.31
	December	5,055.7	31	\$24,369.16
MDUND709	November	492.3	1	\$4,168.30
	December	358.4	1	\$1,905.95
MDUND900	January	13.4	1	\$151.26
	February	13.4	1	\$147.14
	March	10.7	1	\$120.82
	April	7.9	1	\$96.97
	May	5.3	1	\$61.80
	June	1.9	1	\$30.65
	July	1.2	1	\$28.16
	August	1.0	1	\$25.00
	September	1.0	1	\$24.31
	October	6.7	1	\$52.22
	November	8.8	1	\$78.81
	December	11.5	1	\$109.22
Grand Total		53,896.2	70	\$284,738.43

Combine

Total Revenue on P. 6

**MONTANA-DAKOTA UTILITIES CO.
NORTH DAKOTA GAS UTILITY
BILLING PERIOD DEGREE DAYS**

	<u>North Dakota</u>	<u>Bismarck</u>	<u>Devils Lake</u>	<u>Dickinson</u>	<u>Jamestown</u>	<u>Minot</u>	<u>Williston</u>	<u>Wahpeton</u>
Jan-17	1,615	1,614	1,674	1,614	1,592	1,593	1,641	1,538
Feb-17	1,226	1,202	1,332	1,239	1,241	1,195	1,261	1,197
Mar-17	987	948	1,131	952	998	1,025	992	927
Apr-17	681	634	828	682	751	708	645	709
May-17	332	305	390	394	354	323	312	319
Jun-17	85	68	121	131	114	70	68	103
Jul-17	13	11	22	17	16	12	5	16
Aug-17	2	0	3	5	1	2	2	2
Sep-17	34	28	36	49	32	31	45	26
Oct-17	232	208	230	288	211	221	286	166
Nov-17	752	700	841	750	783	776	811	740
Dec-17	901	831	1,067	874	978	933	941	1,051
Jan-18	1,497	1,465	1,646	1,456	1,540	1,501	1,516	1,574
Feb-18	1,523	1,495	1,656	1,454	1,533	1,535	1,575	1,568
Mar-18	1,180	1,148	1,257	1,187	1,170	1,172	1,256	1,140
Apr-18	1,023	994	1,106	975	1,056	1,056	1,037	1,004
May-18	373	357	444	392	395	366	353	380
Jun-18	46	41	60	66	48	41	43	30
Jul-18	1	0	1	6	1	1	1	0
Aug-18	1	0	2	1	3	0	1	4
Sep-18	51	34	62	68	46	65	67	27
Oct-18	402	370	447	420	401	423	425	339
Nov-18	830	799	948	816	884	840	811	845
Dec-18	1,060	1,046	1,227	990	1,134	1,063	1,014	1,174
Jan-19	1,192	1,174	1,392	1,108	1,262	1,201	1,140	1,272
Feb-19	1,745	1,717	1,976	1,598	1,840	1,802	1,675	1,863
Mar-19	1,471	1,447	1,560	1,478	1,476	1,457	1,506	1,426
Apr-19	755	745	903	743	837	714	710	804
May-19	435	414	506	500	450	406	425	422
Jun-19	156	143	178	219	162	137	147	135
Jul-19	9	5	14	19	5	9	8	4
Aug-19	2	2	4	6	0	1	3	0
Sep-19	39	31	62	53	36	43	33	25
Oct-19	309	292	334	343	294	312	326	227
Nov-19	909	887	976	925	918	902	928	890
Dec-19	1,140	1,118	1,279	1,088	1,187	1,136	1,154	1,087

*Use
for
Propane*

**MONTANA-DAKOTA UTILITIES CO.
NORTH DAKOTA GAS UTILITY
NORMAL DEGREE DAYS**

	<u>North Dakota</u>	<u>Bismarck</u>	<u>Devils Lake</u>	<u>Dickinson</u>	<u>Jamestown</u>	<u>Minot</u>	<u>Williston</u>	<u>Wahpeton</u>
Jan-17	1,438	1,422	1,572	1,339	1,477	1,448	1,461	1,471
Feb-17	1,346	1,327	1,501	1,236	1,410	1,357	1,355	1,408
Mar-17	1,088	1,064	1,218	1,022	1,137	1,106	1,083	1,141
Apr-17	797	766	909	778	828	820	782	825
May-17	333	312	377	365	332	337	334	284
Jun-17	67	56	78	95	60	69	72	36
Jul-17	0	0	0	1	0	0	0	0
Aug-17	0	0	0	0	0	0	0	0
Sep-17	16	12	19	20	16	16	22	9
Oct-17	215	203	239	228	214	211	236	179
Nov-17	711	694	753	709	714	712	743	651
Dec-17	1,091	1,073	1,175	1,038	1,115	1,101	1,121	1,119
Jan-18	1,397	1,380	1,526	1,306	1,437	1,406	1,424	1,382
Feb-18	1,393	1,369	1,560	1,282	1,459	1,407	1,408	1,494
Mar-18	1,073	1,048	1,207	1,010	1,121	1,092	1,069	1,097
Apr-18	767	735	882	751	798	789	753	795
May-18	345	323	395	381	348	347	347	300
Jun-18	65	53	76	97	57	63	72	36
Jul-18	0	0	0	1	0	0	0	0
Aug-18	0	0	0	0	0	0	0	0
Sep-18	16	12	20	20	16	16	22	8
Oct-18	202	189	225	215	204	198	223	164
Nov-18	738	717	784	736	743	742	772	666
Dec-18	1,108	1,086	1,197	1,056	1,136	1,121	1,140	1,121
Jan-19	1,401	1,381	1,528	1,313	1,443	1,413	1,424	1,396
Feb-19	1,401	1,377	1,567	1,293	1,467	1,414	1,414	1,553
Mar-19	1,068	1,041	1,203	1,007	1,117	1,088	1,065	1,102
Apr-19	734	702	846	718	767	757	722	723
May-19	373	348	429	414	380	376	369	326
Jun-19	65	51	78	100	60	64	71	37
Jul-19	0	0	0	0	0	0	0	0
Aug-19	0	0	0	0	0	0	0	0
Sep-19	14	10	18	18	14	15	19	6
Oct-19	212	195	239	228	216	210	238	171
Nov-19	734	712	782	733	742	737	768	691
Dec-19	1,172	1,148	1,271	1,119	1,202	1,184	1,202	1,061



Montana-Dakota Utilities Co.

A Subsidiary of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of North Dakota Gas Rate Schedule

NDPSC Volume 7

185th Revised Sheet No. 3

Canceling 184th Revised Sheet No. 3

RATE SUMMARY SHEET

Page 1 of 1

Rate Schedule	Sheet No.	Basic Service Charge	Distribution Delivery Charge	COG Items	Total Rate/ Dk
Residential Rate 60	4	\$0.6860 per day	\$0.000	\$3.240	\$3.240
Air Force Rate 64	7				
Minot Air Force Base		\$2,000.00 per month			
PAR Site		\$175.00 per month			
Firm Service			\$0.329	\$3.240	\$3.569
Interruptible Service - PAR			\$0.177	\$2.348	\$2.525
Interruptible Service - MAFB			\$0.177	\$2.152	\$2.329
Firm General Service Rate 70	13				
Meters rated < 500 cubic feet		\$0.70 per day			
Meters rated > 500 cubic feet		\$2.05 per day	\$0.811	\$3.240	\$4.051
Small Interruptible Gas Rate 71	14	\$190.00 per month	(Maximum) \$1.063	\$2.348	(Maximum) \$3.411
Optional Seasonal Gas Service Rate 72	15				
Meters rated < 500 cubic feet		\$0.70 per day			
Meters rated > 500 cubic feet		\$2.05 per day	\$0.811	\$1.751	\$2.562
Contracted Demand Service Rate 74	16		(Demand Charge)	(Capacity Charge)	\$10.680
Meters rated < 500 cubic feet		\$0.70 per day			
Meters rated > 500 cubic feet		\$2.05 per day	\$6.510	(COG/Dk)	\$1.911
Transportation Service	24				
Small Interruptible Rate 81		\$190.00 per month			
Maximum			\$0.668		\$0.668
Minimum			\$0.102		\$0.102
Large Interruptible Rate 82		\$1,500.00 per month			
Maximum			\$0.231		\$0.231
Minimum			\$0.061		\$0.061
Large Interruptible Gas Rate 85	27	\$1,500.00 per month	(Maximum) \$0.718	\$2.348	(Maximum) \$3.066
Residential Propane Rate 90	32	\$0.6860 per day	\$0.000	\$2.852	\$2.852
Firm General Propane Rate 92	34				
Meters rated < 500 cubic feet		\$0.70 per day			
Meters rated > 500 cubic feet		\$2.05 per day	\$0.811	\$2.852	\$3.663

Date Filed: May 8, 2020

Effective Date: Service rendered on and after June 1, 2020

Issued By: Travis R. Jacobson
Director - Regulatory Affairs

Case No.: PU-20-008



Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of North Dakota Electric Rate Schedule

NDPSC Volume 4
9th Revised Sheet No. 10
Canceling 8th Revised Sheet No. 10

SMALL GENERAL ELECTRIC SERVICE Rate 20

Page 1 of 2

Availability:

In all communities served for all types of general electric service with billing demands that do not warrant the installation of a demand meter except outside lighting, standby, resale or other customers covered by special contracts or rate schedules applicable to specific services. The customer's wiring must be so arranged so that all service can be measured through one meter. If the customer does not connect his wiring into a single system, each meter shall constitute a separate billing unit.

Rate:

Basic Service Charge: \$0.84 per day

Energy Charge:

October – May:

First 750 Kwh per month 5.997¢ per Kwh

Over 750 Kwh per month 2.997¢ per Kwh

June – September: 5.997¢ per Kwh

Minimum Bill:

Basic Service Charge.

Payment:

Bills will be considered past due if not paid by the due date shown on the bill. Past due bills are subject to a late payment charge in accordance with the provisions of Rate 100 or any amendments or alterations thereto.

Adjustment Clauses:

Bills are subject to the following adjustments or any amendments or alterations thereto:

1. Renewable Resource Cost Adjustment Rate 55
2. Generation Resource Recovery Rider Rate 56
3. Environmental Cost Recovery Rider Rate 57
4. Fuel and Purchased Power Adjustment Rate 58
5. Transmission Cost Adjustment Rate 59

Date Filed: October 8, 2018

Effective Date: Service rendered on and after December 1, 2018

Issued By: Tamie A. Aberle
Director - Regulatory Affairs

Case No.: PU-18-89



Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of North Dakota Electric Rate Schedule

NDPSC Volume 4
5th Revised Sheet No. 18
Canceling 4th Revised Sheet No. 18

GENERAL ELECTRIC SERVICE Rate 30

Page 1 of 2

Availability:

In all communities served for all types of demand metered general electric service except outside lighting, standby, resale or other customers covered by special contracts or rate schedules applicable to specific services. The customer's wiring must be arranged so that all service can be measured through one meter. If the customer does not connect his wiring into a single system, each meter shall constitute a separate billing unit.

Rate:

Primary Service:

Basic Service Charge: \$100.00 per month

Demand Charge:

October – May \$11.00 per Kw

June – September \$14.00 per Kw

Energy Charge: 1.414¢ per Kwh

Secondary Service:

Basic Service Charge: \$56.00 per month

Demand Charge:

October – May \$ 9.50 per Kw

June – September \$12.50 per Kw

Energy Charge: 2.331¢ per Kwh

Minimum Bill:

Basic Service Charge.

Payment:

Bills will be considered past due if not paid by the due date shown on the bill. Past due bills are subject to a late payment charge in accordance with the provisions of Rate 100 or any amendments or alterations thereto.

Date Filed: October 8, 2018

Effective Date: Service rendered on and after December 1, 2018

Issued By: Tamie A. Aberle
Director - Regulatory Affairs

Case No.: PU-18-89



Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of North Dakota Electric Rate Schedule

NDPSC Volume 4
6th Revised Sheet No. 20
Canceling 5th Revised Sheet No. 20

GENERAL ELECTRIC SPACE HEATING SERVICE Rate 32

Page 1 of 3

Availability:

In all communities served for space heating service, where the customer also takes service under another general service rate schedule offered by the Company. Space heating equipment, including combination space heating and cooling equipment such as heat pumps and packaged roof-top heating/cooling units where heating use is the principal load may be served under this rate schedule.

Rate:

Basic Service Charge: \$21.00 per month

Primary Service:

Demand Charge:
October – May \$ 1.00 per Kw
June – September \$14.00 per Kw

Energy Charge: 1.422¢ per Kwh

Secondary Service:

Demand Charge:
October – May \$ 1.00 per Kw
June – September \$12.50 per Kw

Energy Charge: 2.422¢ per Kwh

Minimum Bill:

Basic Service Charge.

Payment:

Bills will be considered past due if not paid by the due date shown on the bill. Past due bills are subject to a late payment charge in accordance with the provisions of Rate 100 or any amendments or alterations thereto.

Date Filed: October 8, 2018

Effective Date: Service rendered on and after December 1, 2018

Issued By: Tamie A. Aberle
Director - Regulatory Affairs

Case No.: PU-18-89

North Dakota Fuel & Purchased Power Adjustment

The Fuel & Purchased Power Adjustment includes the net cost to generate and purchase electricity. This charge changes monthly as the cost of fuel and purchased power fluctuates throughout the year. The table below shows the Fuel & Purchased Power Adjustment charge per kWh for the current and prior months.

Rate Effective Date	Primary Service	Secondary Service
July 1, 2020	\$0.01702	\$0.01801
June 1, 2020	\$0.01655	\$0.01744
May 1, 2020	\$0.01748	\$0.01834
April 1, 2020	\$0.01917	\$0.02010
March 1, 2020	\$0.02129	\$0.02207
February 1, 2020	\$0.02205	\$0.02301
January 1, 2020	\$0.02200	\$0.02304
December 1, 2019	\$0.02381	\$0.02489
November 1, 2019	\$0.02466	\$0.02584
October 1, 2019	\$0.02430	\$0.02540
September 1, 2019	\$0.02311	\$0.02416
August 1, 2019	\$0.02125	\$0.02211
July 1, 2019	\$0.02470	\$0.02543
June 1, 2019	\$0.02566	\$0.02632
May 1, 2019	\$0.02681	\$0.02745
April 1, 2019	\$0.02910	\$0.02983
March 1, 2019	\$0.02700	\$0.02786
February 1, 2019	\$0.02680	\$0.02782
January 1, 2019	\$0.02706	\$0.02814
December 1, 2018	\$0.02515	\$0.02625
November 1, 2018	\$0.02322	\$0.02435
October 1, 2018	\$0.02348	\$0.02457
September 1, 2018	\$0.02222	\$0.02326
August 1, 2018	\$0.02029	\$0.02119
July 1, 2018	\$0.02109	\$0.02188
June 1, 2018	\$0.02110	\$0.02177
May 1, 2018	\$0.02225	\$0.02292

Fuel & Purchased Power Adjustment is Prorated

The usage period on your electric bill typically spans parts of two different calendar months, depending on your billing cycle. The Fuel & Purchased Power Adjustment line item on the bill reflects a prorated charge representing this usage period. The amount charged is based on the number of billed days and the corresponding effective Fuel & Purchased Power Adjustment in place for each calendar month. For example, a customer's bill with a usage period from June 15 to July 15 would be billed 15 days at the June Fuel & Purchased Power Adjustment charge and 15 days at the July Fuel & Purchased Power Adjustment charge.

See Rate 58 for additional information regarding the Fuel and Purchased Power Adjustment

REV_CLASS 4480 ELEC-COMPANY CONSUMPTION

Row Labels	Sum of First 750	Sum of Over 750	Sum of BILL_KWH	Sum of BILL_KW	Sum of BSC	Sum of ENERGY	Sum of DEMAND	Sum of FUEL	Sum of total rev
MDUND200	123,960	74,781	198,741	0.0	9,632.42	12,540.74	0.00	5,460.42	27,633.58
January	15,528	14,229	29,757	0.0	1,002.12	1,770.19	0.00	798.24	3,570.55
February	17,623	17,066	34,689	0.0	903.84	2,047.47	0.00	972.17	3,923.48
March	16,504	19,493	35,997	0.0	910.56	2,055.02	0.00	1,002.17	3,967.75
April	13,747	9,084	22,831	0.0	945.00	1,391.75	0.00	649.40	2,986.15
May	11,297	3,713	15,010	0.0	924.84	999.88	0.00	435.34	2,360.06
June	(17,288)	(11,006)	(28,294)	0.0	(380.38)	(1,945.97)	0.00	(606.81)	(2,933.16)
July	9,606	2,676	12,282	0.0	924.00	909.30	0.00	318.47	2,151.77
August	9,547	4,330	13,877	0.0	922.32	1,027.94	0.00	333.94	2,284.20
September	9,111	1,976	11,087	0.0	850.92	821.23	0.00	254.61	1,926.76
October	10,862	2,266	13,128	0.0	974.40	941.45	0.00	323.11	2,238.96
November	12,689	4,540	17,229	0.0	798.84	1,142.50	0.00	440.11	2,381.45
December	14,734	6,414	21,148	0.0	855.96	1,379.98	0.00	539.67	2,775.61
MDUND301			4,494,862	11,377.5	11,261.60	153,946.62	126,639.02	118,112.18	409,959.42
January			391,432	869.2	896.00	13,159.47	8,889.32	10,617.62	33,562.41
February			329,399	909.9	896.00	11,071.10	9,305.56	9,218.28	30,490.94
March			396,962	912.0	896.00	13,195.49	9,250.04	11,052.44	34,393.97
April			347,660	933.0	957.60	11,696.57	9,336.04	9,992.30	31,982.51
May			378,096	936.5	952.00	13,069.69	9,417.85	10,853.01	34,292.55
June			366,346	954.5	952.00	12,664.57	10,791.15	9,875.68	34,283.40
July			408,591	982.1	952.00	14,124.98	12,815.16	10,583.57	38,475.71
August			425,365	1,089.1	952.00	14,704.87	14,219.75	10,137.37	40,013.99
September			369,712	944.4	952.00	12,780.95	12,330.48	8,529.74	34,593.17
October			406,830	1,020.2	952.00	14,064.10	11,903.29	10,064.16	36,983.55
November			296,032	931.2	952.00	10,264.20	9,375.86	7,575.11	28,167.17
December			378,437	895.4	952.00	13,150.63	9,004.52	9,612.90	32,720.05
MDUND323			125,816	601.5	683.90	4,375.58	1,383.95	3,437.13	9,880.56
January			20,216	57.0	42.00	697.85	80.18	543.88	1,363.91
February			25,255	63.0	42.00	871.80	88.62	708.07	1,710.49
March			25,816	79.1	63.00	884.48	106.09	718.57	1,772.14
April			15,213	68.2	63.00	523.16	85.40	434.36	1,105.92
May			7,479	53.5	63.00	265.35	66.98	216.58	611.91
June			2,916	69.6	63.00	103.46	270.49	79.04	515.99
July			1,259	30.3	63.00	44.66	386.39	32.62	526.67
August			381	2.9	63.00	13.51	36.98	8.95	122.44
September			282	3.7	63.00	10.00	47.18	6.56	126.74
October			2,364	53.9	63.00	83.88	67.49	58.46	272.83
November			10,023	61.0	53.90	356.37	73.89	255.76	739.92
December			14,612	59.3	42.00	521.06	74.26	374.28	1,011.60
Grand Total	123,960	74,781	4,819,419	11,979.0	21,577.92	170,862.94	128,022.97	127,009.73	447,473.56

MONTANA-DAKOTA UTILITIES CO.
GREAT PLAINS NATURAL GAS CO.
O&M BY FERC ACCOUNT
2019 - YTD DECEMBER

Year	(All)					Juris			
Sum of Amount	Object	Object Description	Function	GP-ND	ND	Grand Total			
Natural Gas	5641	Company Consumption - Electric	A&G	1,115	40,058	41,173			
			Distribution	103	72,537	72,641			
		Company Consumption - Electric Total		1,218	112,596	113,814			
	5641 Total			1,218	112,596	113,814			
	5642	Company Consumption - Gas	A&G	378	12,417	12,794			
			Distribution	17,003	159,285	176,289			
		Company Consumption - Gas Total		17,381	171,702	189,083			
	5642 Total			17,381	171,702	189,083			
Natural Gas Total				18,599	284,297	302,897			
Grand Total				18,599	284,297	302,897			

**MONTANA-DAKOTA UTILITIES CO. & GREAT PLAINS NATURAL GAS CO.
GAS UTILITY - NORTH DAKOTA
POSTAGE
WORK PAPER**

	ND Gas & Combo Ebill Customers	Change in # of Ebill Customers from Current Month to End of Year	Postage Rate	Postage Savings
January 2019	24,467	3,378	\$0.383	\$1,294
February	24,836	3,009	0.383	1,152
March	25,140	2,705	0.383	1,036
April	25,437	2,408	0.383	922
May	25,657	2,188	0.383	838
June	25,881	1,964	0.383	752
July	26,095	1,750	0.383	670
August	26,379	1,466	0.383	561
September	26,668	1,177	0.383	451
October	27,148	697	0.383	267
November	27,499	346	0.383	133
December	27,845	0	0.383	0
Total Postage Savings				<u>\$8,076</u>
2019 Postage Expense				\$384,062
2019 Postage Savings				(8,076)
2020 Postage Rate Increase				<u>6,030</u>
Projected 2020 Postage Expense				<u><u>\$382,016</u></u>
Projected 2021 Postage Expense				<u><u>\$389,427</u></u>
Postage Rates				
Effective January 2020	\$0.389			
Effective January 2019	<u>0.383</u>			
Change	\$0.006			
Postage Rate Increase	1.57%			
Consumer Price Index	1.94%			

**MONTANA-DAKOTA UTILITIES CO. & GREAT PLAINS NATURAL GAS CO.
GAS UTILITY - NORTH DAKOTA
POSTAGE
2019 EBILL CUSTOMERS
WORKPAPER**

	<u>Electric</u>	<u>Gas</u>	<u>Combo</u>	<u>Total</u>
January 2019	9,468	13,309	11,158	33,935
February	9,635	13,485	11,351	34,471
March	9,786	13,604	11,536	34,926
April	9,873	13,803	11,634	35,310
May	9,929	13,960	11,697	35,586
June	10,040	14,045	11,836	35,921
July	10,158	14,121	11,974	36,253
August	10,213	14,344	12,035	36,592
September	10,366	14,451	12,217	37,034
October	10,521	14,751	12,397	37,669
November	10,667	14,931	12,568	38,166
December	10,839	15,068	12,777	38,684

MONTANA-DAKOTA UTILITIES CO. & GREAT PLAINS NATURAL GAS CO.
GAS UTILITY - NORTH DAKOTA
POSTAGE
2019 EBILL CUSTOMERS
WORKPAPER

		Ebill Allocation																	
		2020																	
		January			February			March			April			May			June		
		Ebill			Ebill			Ebill			Ebill			Ebill			Ebill		
		Customers	Percentage	Customers	Percentage	Customers	Percentage	Customers	Percentage	Customers	Percentage	Customers	Percentage	Customers	Percentage	Customers	Percentage	Customers	Percentage
Electric		9,275	27.90%	8,593	27.95%	8,639	28.02%	9,132	27.96%	9,607	27.90%	9,337	27.95%	9,337	27.95%	9,337	27.95%	9,337	27.95%
Gas		13,095	39.22%	12,027	39.12%	12,004	38.95%	12,769	39.09%	13,509	39.23%	13,062	39.10%	13,062	39.10%	13,062	39.10%	13,062	39.10%
Combo		10,931	32.88%	10,127	32.83%	10,181	33.03%	10,763	32.95%	11,323	32.87%	11,005	32.95%	11,005	32.95%	11,005	32.95%	11,005	32.95%
Total		33,241	100.00%	30,747	100.00%	30,823	100.00%	32,664	100.00%	34,439	100.00%	33,404	100.00%	33,404	100.00%	33,404	100.00%	33,404	100.00%
		July			August			September			October			November			December		
		Ebill			Ebill			Ebill			Ebill			Ebill			Ebill		
		Customers	Percentage	Customers	Percentage	Customers	Percentage	Customers	Percentage	Customers	Percentage	Customers	Percentage	Customers	Percentage	Customers	Percentage	Customers	Percentage
Electric		9,063	28.02%	10,239	27.91%	8,266	27.93%	11,094	27.93%	9,522	27.95%	9,973	28.02%	9,973	28.02%	9,973	28.02%	9,973	28.02%
Gas		12,985	38.96%	14,379	39.20%	11,522	36.02%	15,489	39.16%	13,327	39.12%	13,303	38.95%	13,303	38.95%	13,303	38.95%	13,303	38.95%
Combo		10,881	33.03%	12,067	32.69%	9,742	32.99%	13,023	32.91%	11,222	32.93%	11,263	33.03%	11,263	33.03%	11,263	33.03%	11,263	33.03%
Total		32,929	100.00%	36,685	100.00%	29,530	100.00%	39,581	100.00%	34,071	100.00%	34,199	100.00%	34,199	100.00%	34,199	100.00%	34,199	100.00%

**MONTANA-DAKOTA UTILITIES CO. & GREAT PLAINS NATURAL GAS CO.
GAS UTILITY - NORTH DAKOTA
POSTAGE
2019 O&M EXPENSE
WORK PAPER**

Year	(All)
Month	(All)
Juris	(Multiple Items)
Business S	Natural Gas

Sum of Amount		Func Sort	Function			
		5	6	8	9	Grand Total
Object	Object Description	Distribution	Cust Acct	Sales	A&G	
5651	Postage	9,726	320,801	440	53,096	384,062
Grand Total		9,726	320,801	440	53,096	384,062

2019 postage rates

First-Class Mail - Commercial

Final

12/3/2018

Letters and Postcards

Weight Not Over (ounces)	Automation			Machinable	Nonmachinable
	5-Digit	AADC	Mixed AADC	Presorted	Presorted
1	0.383	0.412	0.428	0.459	0.609
2	0.383	0.412	0.428	0.459	0.609
3	0.383	0.412	0.428	0.459	0.609
3.5	0.383	0.412	0.428	0.459	0.609
Postcard	0.257	0.268	0.274	0.280	-
	Nonmachinable Surcharge			0.150	

Residual Single-Piece Letters

Weight Not Over (ounces)	
1	0.560
2	0.560
3	0.560
3.5	0.560

Share Mail Letters and Postcards (formerly Alternate Postage)

Weight Not Over (ounces)	Share Mail Letters	Share Mail Postcards
1	0.59	0.44

2020 postage rates

First-Class Mail - Commercial

Final

12/10/2019

Letters and Postcards

Weight Not Over (ounces)	Automation			Machinable	Nonmachinable
	5-Digit	AADC	Mixed AADC	Presorted	Presorted
1	0.389	0.419	0.439	0.460	0.610
2	0.389	0.419	0.439	0.460	0.610
3	0.389	0.419	0.439	0.460	0.610
3.5	0.389	0.419	0.439	0.460	0.610
Postcard	0.260	0.270	0.276	0.285	-
	Nonmachinable Surcharge			0.150	

Residual Single-Piece Letters

Weight Not Over (ounces)	
1	0.560
2	0.560
3	0.560
3.5	0.560

Share Mail Letters and Postcards (formerly Alternate Postage)

Weight Not Over (ounces)	Share Mail Letters	Share Mail Postcards
1	0.60	0.45

MONTANA-DAKOTA UTILITIES CO.
GAS - NORTH DAKOTA

Year-Month	Total Count of Ebill Sent	Combo	Gas Only	Electric Only
2019-01	33,124	10,931	12,587	9,275
2019-02	30,688	10,127	11,661	8,593
2019-03	30,850	10,181	11,723	8,638
2019-04	32,616	10,763	12,394	9,132
2019-05	34,311	11,323	13,038	9,607
2019-06	33,347	11,005	12,672	9,337
2019-07	32,367	10,681	12,299	9,063
2019-08	36,567	12,067	13,895	10,239
2019-09	29,522	9,742	11,218	8,266
2019-10	39,479	13,028	15,002	11,054
2019-11	34,007	11,222	12,923	9,522
2019-12	34,191	11,283	12,993	9,573
2020-01	38,479	12,698	14,622	10,774
2020-02	33,711	11,125	12,810	9,439
2020-03	36,844	12,159	14,001	10,316
2020-04	38,991	12,867	14,817	10,917
2020-05	36,566	12,067	13,895	10,238

MONTANA-DAKOTA UTILITIES CO.
GAS - GREAT PLAINS NORTH DAKOTA

Year-Month	Total Count of Ebill Sent	Combo	Gas Only	Electric Only
2019-01	448	0	448	0
2019-02	366	0	366	0
2019-03	281	0	281	0
2019-04	375	0	375	0
2019-05	471	0	471	0
2019-06	390	0	390	0
2019-07	296	0	296	0
2019-08	484	0	484	0
2019-09	304	0	304	0
2019-10	497	0	497	0
2019-11	404	0	404	0
2019-12	310	0	310	0
2020-01	520	0	520	0
2020-02	326	0	326	0
2020-03	430	0	430	0
2020-04	550	0	550	0
2020-05	343	0	343	0

**MONTANA-DAKOTA UTILITIES CO. & GREAT PLAINS NATURAL GAS CO.
GAS UTILITY - NORTH DAKOTA
SOFTWARE MAINTENANCE
SUMMARY
WORKPAPER**

Other Gas Supply			
Responsibility	Projected		
	2020	2019	2018
721	\$18,015	\$17,795	\$18,088
Total	\$18,015	\$17,795	\$18,088

Distribution			
Responsibility	Projected		
	2020	2019	2018
888	\$5,713	\$5,713	(\$133)
926	5,235	5,331	0
951	51,378	51,378	31,626
Total	\$62,326	\$62,422	\$31,493

Customer Accounting			
Responsibility	Projected		
	2020	2019	2018
926	\$2,856	\$2,591	\$0
964	26,695	20,415	15,617
Total	\$29,551	\$23,006	\$15,617

A&G			
Responsibility	Projected		
	2020	2019	2018
721	\$289,519	\$291,310	\$193,624
888	547	547	0
926	215,052	153,053	203,146
951	12,983	12,983	42,308
964	37,970	43,053	26,438
994	98,205	90,441	105,969
Total	\$654,276	\$591,387	\$571,485

Allocation Factors - ND			
	2020	2019	2018
Factor 27	36.327453%	37.111407%	38.704628%
Factor 87	36.697807%	36.754863%	36.823677%
Factor 119	43.348791%	43.828314%	45.471549%
Factor 123	41.343726%	41.409229%	41.734181%
Allocation Factors - GP ND			
	2020	2019	2018
Factor 27	1.367953%	1.273746%	1.322099%
Factor 87	0.761836%	0.766513%	0.770632%
Factor 119	0.917100%	0.972402%	0.953300%
Factor 123	2.603437%	2.573544%	2.564077%

**MONTANA-DAKOTA UTILITIES CO. & GREAT PLAINS NATURAL GAS CO.
GAS UTILITY - NORTH DAKOTA
SOFTWARE MAINTENANCE
SUMMARY
WORKPAPER**

721 - Responsibility (Customer Accounting)		
	Allocated	Projected
Software	Projected	Projected
	2021	2021
2Ring F-27	\$2,927.99	\$7,767.50
NICE in Contact F-27	2,967.07	7,871.16
Total	\$5,895.06	\$15,638.66

926 - Responsibility (A&G)		
	Allocated	Projected
Software	Projected	Projected
	2021	2021
Ultipro F-27	\$40,937.21	\$108,600.00
Thoughtspot F-27	16,521.13	43,827.97
Maximo F-27	11,238.89	29,815.00
Meridian Integration F-27	8,108.53	21,510.66
CC&B F-27	7,601.75	20,166.24
Workiva F-27	13,231.09	35,100.00
Powerplan F-27	2,628.12	6,972.00
AllOut Security F-27	2,183.32	5,792.00
Wonderware SCADA F-27	1,751.66	4,646.87
Sendgrid F-27	1,168.84	3,100.76
Total	\$105,370.54	\$279,531.50

951 - Responsibility (Other Gas Supply)		
	Allocated	Projected
Software	Projected	Projected
	2021	2021
ESRI F-119	\$571.31	\$1,290.64
VertiGIS F-119	1,190.23	2,688.83
Total	\$1,761.54	\$3,979.47

964 - Responsibility (A&G)		
	Allocated	Projected
Software	Projected	Projected
	2021	2021
Zonar F-27	\$12,554.08	\$33,304.00
MobileIron F-87	3,254.49	8,688.00
Total	\$15,808.57	\$41,992.00

Allocation Factors - ND			
	2020	2019	2018
Factor 27	36.327453%	37.111407%	38.704628%
Factor 87	36.697807%	36.754863%	36.823677%
Factor 119	43.348791%	43.828314%	45.471549%
Factor 123	41.343726%	41.409229%	41.734181%
Allocation Factors - GP ND			
	2020	2019	2018
Factor 27	1.367953%	1.273746%	1.322099%
Factor 87	0.761836%	0.766513%	0.770632%
Factor 119	0.917100%	0.972402%	0.953300%
Factor 123	2.603437%	2.573544%	2.564077%

**MONTANA-DAKOTA UTILITIES CO. & GREAT PLAINS NATURAL GAS CO.
GAS UTILITY - NORTH DAKOTA
SOFTWARE MAINTENANCE
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WORKPAPER**

721 - Responsibility (Other Gas Supply)				
Software	Allocated	Projected	2019	2018
	Projected	2020		
ABB ENTERPRISE SOFTWARE F-123	\$7,104	\$16,166	\$15,946	\$16,388
FIS ENERGY SYSTEMS F-27	10,911	28,944	28,088	27,053
Total	\$18,015	\$45,110	\$44,034	\$43,441

926 - Responsibility (Distribution)				
Software	Allocated	Projected	2019	2018
	Projected	2020		
INDUSTIRAL SOFTWARE SOLUTIONS F-27	\$4,725	\$12,536	\$12,536	\$0
AUTOSOL F-27	510	1,353	1,353	0
Total	\$5,235	\$13,889	\$13,889	\$0

926 - Responsibility (Customer Accounting)				
Software	Allocated	Projected	2019	2018
	Projected	2020		
MARCO TECHNOLOGIES F-27	\$2,856	\$7,577	\$6,749	\$0
Total	\$2,856	\$7,577	\$6,749	\$0

964 - Responsibility (Customer Accounting)				
Software	Allocated	Projected	2019	2018
	Projected	2020		
ITRON F-87	\$26,695	\$71,263	\$54,410	\$41,542
Total	\$26,695	\$71,263	\$54,410	\$41,542

964 - Responsibility (A&G)				
Software	Allocated	Projected	2019	2018
	Projected	2020		
INSIGHT F-27	\$2,735	\$7,256	\$7,540	\$0
FUSEFORWARD CLOUD SERVICES F-27	0	0	30,500	0
CGI TECHNOLOGIES AND SOLUTIONS F-119	35,235	79,599	63,507	56,948
Total	\$37,970	\$86,855	\$101,547	\$56,948

994 - Responsibility (A&G)				
Software	Allocated		2019	2018
	Projected	Projected		
MDUR Cross Charges	\$98,205	\$98,205	\$90,441	\$105,969
Total	\$98,205	\$98,205	\$90,441	\$105,969

Allocation Factors - ND			
	2020	2019	2018
Factor 27	36.327453%	37.111407%	38.704628%
Factor 87	36.697807%	36.754863%	36.823677%
Factor 119	43.348791%	43.828314%	45.471549%
Factor 123	41.343726%	41.409229%	41.734181%

Allocation Factors - GP ND			
	2020	2019	2018
Factor 27	1.367953%	1.273746%	1.322099%
Factor 87	0.761836%	0.766513%	0.770632%
Factor 119	0.917100%	0.972402%	0.953300%
Factor 123	2.603437%	2.573544%	2.564077%

**MONTANA-DAKOTA UTILITIES CO. & GREAT PLAINS NATURAL GAS CO.
GAS UTILITY - NORTH DAKOTA
SOFTWARE MAINTENANCE
SUMMARY
WORKPAPER**

721 - Responsibility (A&G)				
Software	Allocated		2019	2018
	Projected 2020	Projected 2020		
AVECTO F-27	\$0.00	\$0.00	\$0.00	\$5,210.27
NICE UPTIVITY F-27	0.00	0.00	0.00	10,825.31
RED GATE SOFTWARE F-27	0.00	0.00	0.00	513.58
SENDGRID F-27	0.00	0.00	0.00	145.84
CRAWFORD TECHNOLOGIES USA F-27	974.28	2,584.60	0.00	0.00
CYBER ADVISORS F-27	51.95	137.82	0.00	0.00
ABRIOX F-27	655.90	1,740.00	0.00	0.00
STATACORP F-27	482.50	1,280.00	0.00	0.00
FME US F-27	437.49	1,160.59	0.00	0.00
PANDELL TECH USA F-27	5,627.17	14,928.01	0.00	0.00
REDVECTOR.COM F-27	7,398.72	19,627.64	0.00	0.00
TOPCON SOLUTIONS F-27	10,548.74	27,984.14	0.00	0.00
WBI ENERGY TRANSMISSION F-27	1,249.74	3,315.37	0.00	11.91
BOTTOMLINE TECHNOLOGIES F-27	1,150.22	3,051.34	2,962.47	0.00
CA F-27	6,653.63	17,651.04	17,136.93	0.00
CITRIX SYSTEMS F-27	4,980.12	13,211.47	7,940.87	9,185.40
DTN F-27	3,312.92	8,788.66	8,197.33	9,379.99
EDIGIN F-27	100.33	266.16	258.41	0.00
ENERGY ECONOMICS F-27	3,742.26	9,927.62	9,638.47	0.00
ENERGY WORLDNET F-27	15,851.33	42,051.10	75,164.51	8,937.68
GLOBAL SOFTWARE F-27	2,031.41	5,389.01	2,364.11	0.00
GOOGLE F-27	651.44	1,728.17	721.45	2,734.88
HELPSYSTEMS F-27	104.25	276.56	268.50	0.00
INDUSTRYSAFE F-27	3,821.45	10,137.70	19,627.64	647.76
INDUSTRIAL SOFTWARE SOLUTIONS F-27	5,744.63	15,239.59	0.00	0.00
INSIGHT F-27	22,874.60	60,682.73	74,315.76	47,049.70
LANDWORKS F-27	4,191.07	11,118.25	10,794.42	0.00
MARCO TECHNOLOGIES F-27	5,104.20	13,540.65	2,276.54	24,804.76
MAVRO IMAGING F-27	3,854.26	10,224.76	10,578.92	9,870.59
MICROSOFT CORPORATION F-27	89,861.20	238,387.67	294,481.02	182,294.32
OPEN TEXT F-27	7,789.50	20,664.32	20,976.15	20,352.48
OPEX CORPORATION F-27	6,043.47	16,032.38	16,454.75	15,610.01
OPTIV SECURITY F-27	7,185.66	19,062.43	20,641.98	2,913.56
ORACLE AMERICA F-27	23,411.77	62,107.76	51,384.92	51,692.73
ORACLE F-27	22,270.79	59,080.90	61,284.12	56,877.67
PPI GROUP F-27	6,249.60	16,579.22	16,096.33	0.00
QUEST SOFTWARE F-27	997.51	2,646.25	2,569.17	0.00
RANOREX F-27	1,209.94	3,209.78	3,116.29	0.00
REPORTS NOW F-27	619.76	1,644.13	1,596.24	0.00
RISKWATCH INTERNATIONAL F-27	1,261.33	3,346.10	3,248.64	0.00
SITE SAFETY F-27	745.35	1,977.30	1,919.71	0.00
TECHNICAL TOOLBOXES F-27	4,693.43	12,450.94	6,466.35	18,435.53
TUNGSTEN NETWORK F-27	119.63	317.37	206.59	428.14
US CAD F-27	2,549.80	6,764.23	6,567.21	0.00
UTILITIES INTERNATIONAL F-27	2,915.94	7,735.53	9,656.56	5,814.50
Total	\$289,519.29	\$768,049.29	\$758,912.36	\$483,736.61

Allocation Factors - ND			
	2020	2019	2018
Factor 27	36.327453%	37.111407%	38.704628%
Factor 87	36.697807%	36.754863%	36.823677%
Factor 119	43.348791%	43.828314%	45.471549%
Factor 123	41.343726%	41.409229%	41.734181%
Allocation Factors - GP ND			
	2020	2019	2018
Factor 27	1.367953%	1.273746%	1.322099%
Factor 87	0.761836%	0.766513%	0.770632%
Factor 119	0.917100%	0.972402%	0.953300%
Factor 123	2.603437%	2.573544%	2.564077%

**MONTANA-DAKOTA UTILITIES CO. & GREAT PLAINS NATURAL GAS CO.
GAS UTILITY - NORTH DAKOTA
SOFTWARE MAINTENANCE
SUMMARY
WORKPAPER**

926 - Responsibility (A&G)				
Software	Allocated		2019	2018
	Projected 2020	Projected 2020		
CRAWFORD TECHNOLOGIES USA F-27	\$0.00	\$0.00	\$0.00	\$4,207.73
CENTURYLINK F-27	0.00	0.00	0.00	920.00
HELPSYSTEMS F-27	0.00	0.00	0.00	512.10
ATLASSIAN PTY F-27	0.00	0.00	0.00	5,594.36
GLOBAL SOFTWARE F-27	0.00	0.00	0.00	2,928.21
WOLTERS KLUWER LAW & BUSINESS F-27	0.00	0.00	0.00	86.96
CA F-27	0.00	0.00	0.00	15,877.75
REPORTS NOW F-27	0.00	0.00	0.00	2,320.39
SENDGRID F-27	0.00	0.00	0.00	828.01
ZERO TURNAROUND USA F-27	0.00	0.00	0.00	668.47
PLURASIGHT F-27	0.00	0.00	0.00	3,646.20
QUEST SOFTWARE F-27	0.00	0.00	0.00	4,494.42
RED GATE SOFTWARE F-27	0.00	0.00	0.00	108.66
GENUS TECHNOLOGIES F-27	1,267.21	3,361.71	2,167.33	1,397.30
ANCHOR SOFTWARE F-27	4,171.16	11,065.44	0.00	11,065.44
FUSEFORWARD CLOUD SERVICES F-27	11,617.19	30,818.58	0.00	0.00
ONTRACKS CONSULTING F-27	15,237.60	40,422.96	0.00	0.00
POWERPLAN F-27	40,237.88	106,744.79	98,856.14	83,816.14
OPEN TEXT F-27	15,309.28	40,613.13	14,613.82	44,535.65
RANOREX F-27	1,250.53	3,317.45	3,317.45	0.00
IBM F-27	1,557.36	4,131.44	4,081.99	4,033.13
ORACLE AMERICA F-27	35,427.90	93,984.65	48,232.05	139,737.25
ORACLE F-27	65,794.56	174,542.65	155,258.30	115,253.82
BOTTOMLINE TECHNOLOGIES F-27	359.21	952.94	931.60	565.74
INSIGHT F-27	9,445.17	25,056.55	3,729.91	1,110.86
VERTEX F-27	1,202.94	3,191.21	2,892.34	2,621.46
CCH F-27	52.99	140.57	108.30	0.00
DTN F-27	456.82	1,211.86	1,211.86	0.00
FIS ENERGY SYSTEMS F-27	0.00	0.00	28,088.14	27,053.38
SAP AMERICA F-27	1,346.09	3,570.97	2,372.08	4,769.86
KISCO INFORMATION SYSTEMS F-27	192.22	509.93	240.98	113.88
AUTOSOL F-27	1,361.95	3,613.03	3,613.03	0.00
TUNGSTEN NETWORK F-27	768.07	2,037.57	452.85	698.83
WORKIVA F-27	7,995.44	21,210.65	28,560.70	28,560.70
Total	\$215,051.57	\$570,498.08	\$398,728.87	\$507,526.70

Allocation Factors - ND			
	2020	2019	2018
Factor 27	36.327453%	37.111407%	38.704628%
Factor 87	36.697807%	36.754863%	36.823677%
Factor 119	43.348791%	43.828314%	45.471549%
Factor 123	41.343726%	41.409229%	41.734181%
Allocation Factors - GP ND			
	2020	2019	2018
Factor 27	1.367953%	1.273746%	1.322099%
Factor 87	0.761836%	0.766513%	0.770632%
Factor 119	0.917100%	0.972402%	0.953300%
Factor 123	2.603437%	2.573544%	2.564077%

**MONTANA-DAKOTA UTILITIES CO. & GREAT PLAINS NATURAL GAS CO.
GAS UTILITY - NORTH DAKOTA
SOFTWARE MAINTENANCE
2018-2019 ACTUALS
WORKPAPER**

	2019				
	Other Gas Supply	Distribution	Customer Accounting	A&G	Total
721 - Enterprise Network & Telecommunications	\$6,440			\$282,989	\$289,429
888 - Communications		\$5,713		547	6,260
926 - Enterprise Development & APP Integration		6,222	\$2,419	114,139	122,780
951 - Enterprise GIS & Operation Compliance		51,378		12,983	64,361
964 - Enterprise Field Automation		27,062	19,712	20,300	67,074
994 - MDUR Cross Charges				90,441	90,441
Total	\$6,440	\$90,375	\$22,131	\$521,399	\$640,345
	2018				
	Other Gas Supply	Distribution	Customer Accounting	A&G	Total
125 - Dakota Heartland Region					
721 - Enterprise Network & Telecommunications		\$3,232		\$185,879	\$3,232
888 - Communications	\$7,168	(133)			193,047
926 - Enterprise Development & APP Integration		(1,013)	(\$1,184)	238,323	236,126
951 - Enterprise GIS & Operation Compliance		31,626		42,308	73,934
964 - Enterprise Field Automation		25,074	20,999		46,073
994 - MDUR Cross Charges				105,969	105,969
Total	\$7,168	\$58,786	\$19,815	\$572,479	\$658,248

**MONTANA-DAKOTA UTILITIES CO. & GREAT PLAINS NATURAL GAS CO.
GAS UTILITY - NORTH DAKOTA
SOFTWARE MAINTENANCE
721 OTHER GAS SUPPLY
2018 - 2020
WORKPAPER**

<u>Software</u>	<u>2018</u>	<u>2019</u>	<u>April 2020</u>	<u>Projected 2020</u>
ABB ENTERPRISE SOFTWARE F-123	\$16,387.45	\$15,945.44	\$0.00	\$16,166.00
FIS ENERGY SYSTEMS F-27	27,053.38	28,088.14	28,944.06	28,944.06
Total	\$43,440.83	\$44,033.58	\$28,944.06	\$45,110.06

MONTANA-DAKOTA UTILITIES CO. & GREAT PLAINS NATURAL GAS CO.
GAS UTILITY - NORTH DAKOTA
SOFTWARE MAINTENANCE
926 DISTRIBUTION
2018 - 2020
WORKPAPER

<u>Software</u>	<u>2018</u>	<u>2019</u>	<u>April 2020</u>	<u>Projected 2020</u>
INDUSTIRAL SOFTWARE SOLUTIONS F-27	\$0.00	\$12,536.17	\$0.00	\$12,536.17
AUTOSOL F-27	0.00	1,352.56	0.00	1,352.56
Total	\$0.00	\$13,888.73	\$0.00	\$13,888.73

**MONTANA-DAKOTA UTILITIES CO. & GREAT PLAINS NATURAL GAS CO.
GAS UTILITY - NORTH DAKOTA
SOFTWARE MAINTENANCE
926 CUSTOMER ACCOUNTING
2018 - 2020
WORKPAPER**

<u>Software</u>	<u>2018</u>	<u>2019</u>	<u>April 2020</u>	<u>Projected 2020</u>
MARCO TECHNOLOGIES F-27	\$0.00	\$6,749.18	\$7,576.71	\$7,576.71
Total	\$0.00	\$6,749.18	\$7,576.71	\$7,576.71

**MONTANA-DAKOTA UTILITIES CO. & GREAT PLAINS NATURAL GAS CO.
GAS UTILITY - NORTH DAKOTA
SOFTWARE MAINTENANCE
964 CUSTOMER ACCOUNTING
2018 - 2020
WORKPAPER**

<u>Software</u>	<u>2018</u>	<u>2019</u>	<u>April 2020</u>	<u>Projected 2020</u>
ITRON F-87	\$41,541.64	\$54,409.54	\$17,810.05	\$71,263.39
Total	\$41,541.64	\$54,409.54	\$17,810.05	\$71,263.39

MONTANA-DAKOTA UTILITIES CO. & GREAT PLAINS NATURAL GAS CO.
GAS UTILITY - NORTH DAKOTA
SOFTWARE MAINTENANCE
721 A&G
2018 - 2020
WORKPAPER

Software	2018	2019	April 2020	Projected 2020
AVECTO F-27	\$5,210.27	\$0.00	\$0.00	\$0.00
NICE UPTIVITY F-27	10,825.31	0.00	0.00	0.00
RED GATE SOFTWARE F-27	513.58	0.00	0.00	0.00
SENDGRID F-27	145.84	0.00	0.00	0.00
CRAWFORD TECHNOLOGIES USA F-27	0.00	0.00	2,584.60	2,584.60
CYBER ADVISORS F-27	0.00	0.00	137.82	137.82
ABRIOX F-27	0.00	0.00	1,740.00	1,740.00
STATACORP F-27	0.00	0.00	1,280.00	1,280.00
FME US F-27	0.00	0.00	1,160.59	1,160.59
PANDELL TECH USA F-27	0.00	0.00	14,928.01	14,928.01
REDVECTOR.COM F-27	0.00	0.00	19,627.64	19,627.64
TOPCON SOLUTIONS F-27	0.00	0.00	27,984.14	27,984.14
WBI ENERGY TRANSMISSION F-27	11.91	0.00	3,315.37	3,315.37
BOTTOMLINE TECHNOLOGIES F-27	0.00	2,962.47	0.00	3,051.34
CA F-27	0.00	17,136.93	0.00	17,651.04
CITRIX SYSTEMS F-27	9,185.40	7,940.87	13,211.47	13,211.47
DTN F-27	9,379.99	8,197.33	2,999.32	8,788.66
EDIGIN F-27	0.00	258.41	0.00	266.16
ENERGY ECONOMICS F-27	0.00	9,638.47	0.00	9,927.62
ENERGY WORLDNET F-27	8,937.68	75,164.51	34,496.04	42,051.10
GLOBAL SOFTWARE F-27	0.00	2,364.11	5,389.01	5,389.01
GOOGLE F-27	2,734.88	721.45	194.11	1,728.17
HELPSYSTEMS F-27	0.00	268.50	0.00	276.56
INDUSTRYSAFE F-27	647.76	19,627.64	0.00	10,137.70
INDUSTRIAL SOFTWARE SOLUTIONS F-27	0.00	0.00	15,239.59	15,239.59
INSIGHT F-27	47,049.70	74,315.76	10,195.21	60,682.73
LANDWORKS F-27	0.00	10,794.42	0.00	11,118.25
MARCO TECHNOLOGIES F-27	24,804.76	2,276.54	0.00	13,540.65
MAVRO IMAGING F-27	9,870.59	10,578.92	0.00	10,224.76
MICROSOFT CORPORATION F-27	182,294.32	294,481.02	15,953.60	238,387.67
OPEN TEXT F-27	20,352.48	20,976.15	0.00	20,664.32
OPEX CORPORATION F-27	15,610.01	16,454.75	4,612.93	16,032.38
OPTIV SECURITY F-27	2,913.56	20,641.98	17,482.87	19,062.43
ORACLE AMERICA F-27	51,692.73	51,384.92	62,107.76	62,107.76
ORACLE F-27	56,877.67	61,284.12	31,907.97	59,080.90
PPI GROUP F-27	0.00	16,096.33	0.00	16,579.22
QUEST SOFTWARE F-27	0.00	2,569.17	0.00	2,646.25
RANOREX F-27	0.00	3,116.29	0.00	3,209.78
REPORTS NOW F-27	0.00	1,596.24	0.00	1,644.13
RISKWATCH INTERNATIONAL F-27	0.00	3,248.64	0.00	3,346.10
SITE SAFETY F-27	0.00	1,919.71	0.00	1,977.30
TECHNICAL TOOLBOXES F-27	18,435.53	6,466.35	0.00	12,450.94
TUNGSTEN NETWORK F-27	428.14	206.59	0.00	317.37
US CAD F-27	0.00	6,567.21	714.00	6,764.23
UTILITIES INTERNATIONAL F-27	5,814.50	9,656.56	5,916.00	7,735.53
Total	<u>\$483,736.61</u>	<u>\$758,912.36</u>	<u>\$293,178.05</u>	<u>\$768,049.29</u>

MONTANA-DAKOTA UTILITIES CO. & GREAT PLAINS NATURAL GAS CO.
GAS UTILITY - NORTH DAKOTA
SOFTWARE MAINTENANCE
926 A&G
2018 - 2020
WORKPAPER

Software	2018	2019	April 2020	Projected 2020
CRAWFORD TECHNOLOGIES USA F-27	\$4,207.73	\$0.00	\$0.00	\$0.00
CENTURYLINK F-27	920.00	0.00	0.00	0.00
HELPSYSTEMS F-27	512.10	0.00	0.00	0.00
ATLASSIAN PTY F-27	5,594.36	0.00	0.00	0.00
GLOBAL SOFTWARE F-27	2,928.21	0.00	0.00	0.00
WOLTERS KLUWER LAW & BUSINESS F-27	86.96	0.00	0.00	0.00
CA F-27	15,877.75	0.00	0.00	0.00
REPORTS NOW F-27	2,320.39	0.00	0.00	0.00
SENDGRID F-27	828.01	0.00	0.00	0.00
ZERO TURNAROUND USA F-27	668.47	0.00	0.00	0.00
PLURASIGHT F-27	3,646.20	0.00	0.00	0.00
QUEST SOFTWARE F-27	4,494.42	0.00	0.00	0.00
RED GATE SOFTWARE F-27	108.66	0.00	0.00	0.00
GENUS TECHNOLOGIES F-27	1,397.30	2,167.33	0.00	3,361.71
ANCHOR SOFTWARE F-27	11,065.44	0.00	1,634.04	11,065.44
FUSEFORWARD CLOUD SERVICES F-27	0.00	0.00	11,790.04	30,818.58
ONTRACKS CONSULTING F-27	0.00	0.00	40,422.96	40,422.96
POWERPLAN F-27	83,816.14	98,856.14	106,744.79	106,744.79
OPEN TEXT F-27	44,535.65	14,613.82	40,613.13	40,613.13
RANOREX F-27	0.00	3,317.45	0.00	3,317.45
IBM F-27	4,033.13	4,081.99	0.00	4,131.44
ORACLE AMERICA F-27	139,737.25	48,232.05	0.00	93,984.65
ORACLE F-27	115,253.82	155,258.30	174,542.65	174,542.65
BOTTOMLINE TECHNOLOGIES F-27	565.74	931.60	952.94	952.94
INSIGHT F-27	1,110.86	3,729.91	25,056.55	25,056.55
VERTEX F-27	2,621.46	2,892.34	0.00	3,191.21
CCH F-27	0.00	108.30	140.57	140.57
DTN F-27	0.00	1,211.86	0.00	1,211.86
FIS ENERGY SYSTEMS F-27	27,053.38	28,088.14	0.00	0.00
SAP AMERICA F-27	4,769.86	2,372.08	0.00	3,570.97
KISCO INFORMATION SYSTEMS F-27	113.88	240.98	0.00	509.93
AUTOSOL F-27	0.00	3,613.03	(52.49)	3,613.03
TUNGSTEN NETWORK F-27	698.83	452.85	2,037.57	2,037.57
WORKIVA F-27	28,560.70	28,560.70	21,210.65	21,210.65
Total	<u>\$507,526.70</u>	<u>\$398,728.87</u>	<u>\$425,093.40</u>	<u>\$570,498.08</u>

**MONTANA-DAKOTA UTILITIES CO. & GREAT PLAINS NATURAL GAS CO.
GAS UTILITY - NORTH DAKOTA
SOFTWARE MAINTENANCE
964 A&G
2018 - 2020
WORKPAPER**

Software	2018	2019	April 2020	Projected 2020
INSIGHT F-27	\$0.00	\$7,540.06	\$7,256.57	\$7,256.57
FUSEFORWARD CLOUD SERVICES F-27	0.00	30,500.46	0.00	0.00
CGI TECHNOLOGIES AND SOLUTIONS F-119	56,948.49	63,506.46	79,598.81	79,598.81
Total	\$56,948.49	\$101,546.98	\$86,855.38	\$86,855.38

MONTANA-DAKOTA UTILITIES CO. & GREAT PLAINS NATURAL GAS CO.
GAS UTILITY - NORTH DAKOTA
ADVERTISING
TWELVE MONTHS ENDING DECEMBER 31, 2019
WORKPAPER

<u>Accounts</u>	<u>5711</u>	<u>5712</u>	<u>5713</u>	<u>5715</u>	<u>Total</u>
903				\$24	\$24
909	\$17,858	\$1,990		53,915	73,763
913	985	1,233	\$35	35,139	37,392
930	779	4,183	270	50,447	55,679
Total	<u>\$19,622</u>	<u>\$7,406</u>	<u>\$305</u>	<u>\$139,525</u>	<u>\$166,858</u>

**MONTANA-DAKOTA UTILITIES CO. & GREAT PLAINS NATURAL GAS CO.
GAS UTILITY - NORTH DAKOTA
ADVERTISING
TWELVE MONTHS ENDING DECEMBER 31, 2019
WORKPAPER**

	Per Books North Dakota	Add	Eliminate	Total
<u>Customer Records & Collections - Account 903</u>				
5715 Other	\$24	\$0	\$24	\$0
Total	<u>\$24</u>	<u>\$0</u>	<u>\$24</u>	<u>\$0</u>
<u>Informational - Account 909</u>				
5711 Radio	\$17,858	\$0	\$31	\$17,827
5712 Newspaper	1,990	0	234	1,756
5715 Other	53,915	629	1,762	52,782
Total	<u>\$73,763</u>	<u>\$629</u>	<u>\$2,027</u>	<u>\$72,365</u>
<u>Promotional - Account 913</u>				
5711 Radio	\$985	\$0	\$985	\$0
5712 Newspaper	1,233	0	1,233	0
5713 Television	35	0	35	0
5715 Other	35,139	1,903	37,042	0
Total	<u>\$37,392</u>	<u>\$1,903</u>	<u>\$39,295</u>	<u>\$0</u>
<u>Institutional - Account 930.1</u>				
5711 Radio	\$779	\$0	\$414	\$365
5712 Newspaper	4,183	0	170	4,013
5713 Television	270	0	0	270
5715 Other	50,447	0	1,064	49,383
Total	<u>\$55,679</u>	<u>\$0</u>	<u>\$1,648</u>	<u>\$54,031</u>
Grand Total	<u><u>\$166,858</u></u>	<u><u>\$2,532</u></u>	<u><u>\$42,994</u></u>	<u><u>\$126,396</u></u>

MONTANA-DAKOTA UTILITIES CO. & GREAT PLAINS NATURAL GAS CO.
GAS UTILITY - NORTH DAKOTA
ADVERTISING - RADIO
WORKPAPER
OBJECT 5711

2019

Account Number	Account Description	Ferc Minor	North Dakota Gas Balance	Doc. Number	Advertising	Advertising Description	Reclassify
120.5711.29090	Inform. & Instr. Adv.	909	\$510.00	2060753	THEARTMEDIA		
210.5711.29090	Inform. & Instr. Adv.	909	31.05	2046129	LINTON PUBLIC SCHOOL	SD	ELIMINATE
71003.5711.29090	Inform. & Instr. Adv.	909	7,614.16	2066152	MG MEDIA STRATEGIES	SPRING AD - CALL BEFORE YOU DIG	
	Inform. & Instr. Adv.	909	7,614.06	2091124	MG MEDIA STRATEGIES	FALL AD - CALL BEFORE YOU DIG	
200.5711.29130	Promotional Advertising	913	330.00				ELIMINATE
120.5711.29301	Institutional Advertising	930	72.00	2039668	KDKT SPORTSRADIO 1410		
	Institutional Advertising	930	72.00	2047975	KDKT SPORTSRADIO 1410		
210.5711.29301	Institutional Advertising	930	10.08	2038643	KOLY-FM (AM)	SD	ELIMINATE
	Institutional Advertising	930	34.12	2046222	KOLY-FM (AM)	SD	ELIMINATE
	Institutional Advertising	930	34.12	2056487	KOLY-FM (AM)	SD	ELIMINATE
	Institutional Advertising	930	88.76	2064530	KOLY-FM (AM)	SD	ELIMINATE
	Institutional Advertising	930	34.12	2069186	KOLY-FM (AM)	SD	ELIMINATE
	Institutional Advertising	930	34.12	2073757	KOLY-FM (AM)	SD	ELIMINATE
	Institutional Advertising	930	34.12	2081374	KOLY-FM (AM)	SD	ELIMINATE
	Institutional Advertising	930	48.35	2086246	KOLY-FM (AM)	SD	ELIMINATE
	Institutional Advertising	930	31.96	2089465	KOLY-FM (AM)	SD	ELIMINATE
	Institutional Advertising	930	31.96	2096090	KOLY-FM (AM)	SD	ELIMINATE
	Institutional Advertising	930	31.96	2100848	KOLY-FM (AM)	SD	ELIMINATE
240.5711.29301	Institutional Advertising	930	175.00	2071099	CHERRY CREEK MEDIA	CALL BEFORE YOU DIG	
	Institutional Advertising	930	46.90	2076339	MULTIMEDIA SALES & MARKETING	MILITARY TRIBUTE	
Total			\$16,878.84				

Account Number	Account Description	Ferc Minor	GP - North Dakota Gas Balance	Doc. Number	Advertising	Advertising Description	Reclassify
71007.5711.29090	Inform. & Instr. Adv. - GPND	909	\$1,044.00	2066152	MG MEDIA STRATEGIES	SPRING AD - CALL BEFORE YOU DIG	
410.5711.29130	Promotional Advertising	913	1,044.60	2091124	MG MEDIA STRATEGIES	FALL AD - CALL BEFORE YOU DIG	
Total			\$2,743.21				ELIMINATE

Grand Total

\$19,622.05

MONTANA-DAKOTA UTILITIES CO. & GREAT PLAINS NATURAL GAS CO.
GAS UTILITY - NORTH DAKOTA
ADVERTISING - NEWSPAPER
WORKPAPER
OBJECT 5713

2019						
Account Number	Account Description	Ferc Minor	North Dakota Gas Balance	Doc. Number	Advertising	Advertising Description
71003.5713.29301	Institutional Advertising	930	\$269.87	2039902	KFYR-TV	DICKENS VILLAGE FESTIVAL SPONSOR
Total			\$269.87			
2019						
Account Number	Account Description	Ferc Minor	GP - North Dakota Gas Balance	Doc. Number	Advertising	Advertising Description
410.5713.29130	Promotional Advertising	913	\$35.34			
Total			\$35.34			ELIMINATE
Grand Total			\$305.21			

MONTANA-DAKOTA UTILITIES CO. & GREAT PLAINS NATURAL GAS CO.
GAS UTILITY - NORTH DAKOTA
ADVERTISING - NEWSPAPER
WORKPAPER
OBJECT 5715

Account Number	Account Description	Farc. Minor	North Dakota Gas Balance	Doc. Number	Advertising	Advertising Description	Reclassif
71300.5715.29030	Customer Records & Collect.	909	\$23.20	1311574	CREDIT CARD ENTRY	JOB POSTINGS	TRANSFER TO 5715 INFORMATIONAL
210.5715.29090	Inform. & Instr. Adv.	909	2.15	2085667	MOBRIDGE TRIBUNE	SD	ELIMINATE
240.5715.29090	Inform. & Instr. Adv.	909	135.40	2086187	CREDIT CARD ENTRY	WABA Golf Tournament	
	Inform. & Instr. Adv.	909	36.30	2086187	CREDIT CARD ENTRY	WABA Golf Tournament	
	Inform. & Instr. Adv.	909	12.00	2086187	CREDIT CARD ENTRY	WABA Golf Tournament	
	Inform. & Instr. Adv.	909	185.00	2063131	VFW VETERANS OF FOREIGN WARS	CONVENTION PROGRAM ADVERTISING	
	Inform. & Instr. Adv.	909	185.00	2063131	NORTH DAKOTA AMERICAN LEGION	STATE CONVENTION PROGRAM ADVERTISING	
	Inform. & Instr. Adv.	909	185.00	2063133	NORTH DAKOTA AMERICAN LEGION	LEGION NEWS PROGRAM ADVERTISING	
	Inform. & Instr. Adv.	909	275.00	2079456	ROTARY CLUB OF DEVILS LAKE	ROTARY MEMBER CONTRIBUTION	
	Inform. & Instr. Adv.	909	195.00	2079472	NORTH DAKOTA AMERICAN LEGION	LEGION NEWS PROGRAM ADVERTISING	
	Inform. & Instr. Adv.	909	350.00	2081006	JAMESTOWN MASONIC LODGE	BENEFIT CONCERT AD	
	Inform. & Instr. Adv.	909	175.00	2084274	PARK RIVER ARENA COMMISSION	ICE LEVEL SIGN	
	Inform. & Instr. Adv.	909	150.00	2084673	POCKET SCHEDULES		
	Inform. & Instr. Adv.	909	100.00	2096654	LANGDON AREA HOCKEY BOOSTERS	CALL BEFORE YOU DIG AD	
	Inform. & Instr. Adv.	909	2,081.30	2047536	VERNON COMPANY	JUMBO MAGNETIC CLIP 811 LOGO	
	Inform. & Instr. Adv.	909	(6.10)	1312745	SALES TAX REFUND	ND SALES TAX	
	Inform. & Instr. Adv.	909	316.18	2066023	VERNON COMPANY	JUMBO MAGNETIC CLIP 811 LOGO	
	Inform. & Instr. Adv.	909	1,723.99	1318989	CREDIT CARD ENTRY	GOLF BALLS	TRANSFER TO 5715 PROMOTIONAL
	Inform. & Instr. Adv.	909	66.16	1320715	CREDIT CARD ENTRY	SNIFY AND LOUIE SAFETY TATTOOS	
	Inform. & Instr. Adv.	909	2,977.19	2098764	CULVER COMPANY	SCHOOL PROGRAM: NATURAL GAS 2019 SAFETY AWARENESS COMMUNICATIONS	
	Inform. & Instr. Adv.	909	3,194.72	2094239	CULVER COMPANY	SCHOOL PROGRAM: E-SMARTKIDS WEBSITES	
	Inform. & Instr. Adv.	909	299.93	2040893	BISMARCK RURAL FIRE DEPT	PROGRAM BOOK AD	
	Inform. & Instr. Adv.	909	863.39	2046230	NEWMAN SIGNS	JANUARY BILLBOARD: BILL PAY THE EASY WAY	
	Inform. & Instr. Adv.	909	1,533.00	2046638	OFF THE WALL ADVERTISING INC	FEBRUARY BILLBOARD SIGNS	
	Inform. & Instr. Adv.	909	863.39	2048621	NEWMAN SIGNS	FEBRUARY BILLBOARD: BILL PAY THE EASY WAY	
	Inform. & Instr. Adv.	909	1,642.50	2056455	OFF THE WALL ADVERTISING INC	MARCH BILLBOARD SIGNS	
	Inform. & Instr. Adv.	909	863.39	2056656	NEWMAN SIGNS	FEBRUARY BILLBOARD: KNOW WHAT IS BELOW - CALL BEFORE YOU DIG	
	Inform. & Instr. Adv.	909	1,680.76	2059316	NEWMAN SIGNS	MARCH BILLBOARD: KNOW WHAT IS BELOW - CALL BEFORE YOU DIG	
	Inform. & Instr. Adv.	909	1,680.76	2061687	NEWMAN SIGNS	MARCH BILLBOARD: KNOW WHAT IS BELOW - CALL BEFORE YOU DIG	
	Inform. & Instr. Adv.	909	1,642.50	2062174	OFF THE WALL ADVERTISING INC	APRIL BILLBOARD SIGNS	
	Inform. & Instr. Adv.	909	41.85	2063271	BHG, INC	SPRING FAN GUIDE TAB AD - CALL BEFORE YOU DIG	
	Inform. & Instr. Adv.	909	1,680.76	2064132	NEWMAN SIGNS	APRIL BILLBOARD: KNOW WHAT IS BELOW - CALL BEFORE YOU DIG	
	Inform. & Instr. Adv.	909	1,040.26	2064748	NEWMAN SIGNS	APRIL BILLBOARD: KNOW WHAT IS BELOW - CALL BEFORE YOU DIG	
	Inform. & Instr. Adv.	909	1,642.50	2081412	OFF THE WALL ADVERTISING INC	AUGUST BILLBOARD SIGNS	
	Inform. & Instr. Adv.	909	640.50	2082967	NEWMAN SIGNS	AUGUST BILLBOARD: KNOW WHAT IS BELOW - CALL BEFORE YOU DIG	
	Inform. & Instr. Adv.	909	640.50	2083290	NEWMAN SIGNS	AUGUST BILLBOARD: KNOW WHAT IS BELOW - CALL BEFORE YOU DIG	
	Inform. & Instr. Adv.	909	1,642.50	2086802	OFF THE WALL ADVERTISING INC	SEPTEMBER BILLBOARD SIGNS	
	Inform. & Instr. Adv.	909	691.74	2089040	NEWMAN SIGNS	SEPTEMBER BILLBOARD: BILL PAY THE EASY WAY	
	Inform. & Instr. Adv.	909	863.39	2090958	NEWMAN SIGNS	SEPTEMBER BILLBOARD: BILL PAY THE EASY WAY	
	Inform. & Instr. Adv.	909	1,005.84	2093846	CREDIT CARD ENTRY	MILNER/GUNNER BBQ	
	Inform. & Instr. Adv.	909	1,348.00	2095909	BISMANONLINE INC	BANNER IMPRESSIONS - RUN OF SITE: ITS A SNAP - SIGN UP FOR ONLINE BILL PAY TODAY	
	Inform. & Instr. Adv.	909	12,669.33	1306200	CENTURYLINK	PHONE LISTINGS	
	Inform. & Instr. Adv.	909	23.54	2037633	CENTURYLINK	PHONE LISTINGS	
	Inform. & Instr. Adv.	909	1,260.25	2069911	VERNON COMPANY	VISORS: 811 LOGO	
	Inform. & Instr. Adv.	909	(3.88)	1321782	SALES TAX REFUND	ND SALES TAX	
	Inform. & Instr. Adv.	909	1,000.00	2073411	ND ONE CALL INCORPORATED	ND STATE FAIR SPONSORSHIP - 811	
	Inform. & Instr. Adv.	909	448.78				ELIMINATE
	Promotional Advertising	913	85.26				ELIMINATE
	Promotional Advertising	913	521.98				ELIMINATE
	Promotional Advertising	913	17.00				ELIMINATE
	Promotional Advertising	913	1,235.00				ELIMINATE
	Promotional Advertising	913	2,407.98				ELIMINATE
	Promotional Advertising	913	26,901.50				ELIMINATE
	Institutional Advertising	930	19.60	2049215	STEELE AMVETS POST #20	COMMUNITY CALENDAR AD	
	Institutional Advertising	930	122.50	2064267	PINK IT FORWARD	GOLF SPONSORSHIP	
	Institutional Advertising	930	240.00	2066228	BUGGIES N BLUES	BRONZE SPONSORSHIP	
	Institutional Advertising	930	768.00	2067606	MANDAN RODEO DAYS	OCTOBER SPONSORSHIP	
	Institutional Advertising	930	120.00	2067838	OKTOBERFEST UNIMANDAN	OCTOBER FEST SPONSORSHIP	
	Institutional Advertising	930	240.00	2067842	MANDAN PROGRESS ORGANIZATION	CHEW AND BREW SPONSORSHIP	
	Institutional Advertising	930	216.00	2069720	BISMARCK-MANDAN HBA	PARADE OF HOMES SPONSORSHIP	
	Institutional Advertising	930	154.35	2070209	BISMARCK/MANDAN POLICE ASSOCIA	PROGRAM BOOK AD	
	Institutional Advertising	930	480.00	2071463	RONALD McDONALD HOUSE	GOLF SPONSORSHIP	
	Institutional Advertising	930	240.00	2086067	MRR CLUB	SUPER BOOSTER SPONSORSHIP	
	Institutional Advertising	930	216.00	2086181	BISMARCK-MANDAN HBA	Parade of Homes 2019	
	Institutional Advertising	930	240.00	2086336	CHS C-CLUB	CENTURY HIGHSCHOOL ACTIVITIES CLUB SPONSORSHIP	
	Institutional Advertising	930	31.85	2090167	STEELE OZONE PRESS	SPORTS CALENDAR	
	Institutional Advertising	930	12.25	2090316	GLEN ULLIN LIONS CLUB	CALENDAR AD	

MONTANA-DAKOTA UTILITIES CO. & GREAT PLAINS NATURAL GAS CO.
GAS UTILITY - NORTH DAKOTA
ADVERTISING - NEWSPAPER
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Account Number	Ferc Minor	Account Description	North Dakota Gas Balance	Doc. Number	Advertising	Advertising Description	Reclassify
150.5715.29301	930	Institutional Advertising	28.70	2039682	MOTT LIONS CLUB	CALENDAR AD	
	930	Institutional Advertising	50.00	2040667	ROUGHRIIDER DAYS	ROUGHRIIDER SPONSORSHIP	
	930	Institutional Advertising	52.50	2063148	BOWMAN AREA CHAMBER OF COMMERCE	RODEO ARENA SIGN FEE	
	930	Institutional Advertising	105.00	2063811	HETTINGER CO FAIR	HETTINGER COUNTY FAIR DONATION	
	930	Institutional Advertising	42.00	2063828	MOTT COUNTRY CLUB	MOTT COUNTRY CLUB SPONSOR	
	930	Institutional Advertising	10.50	2064454	DICKINSON RODEO CLUB	DICKINSON RODEO CLUB SPONSOR	
	930	Institutional Advertising	42.00	2064921	FORUM COMMUNICATIONS COMPANY	DICKINSON PRESS - HONOR ROLL OF BUSINESS	
	930	Institutional Advertising	15.96	2066632	CHLST ALEXIUS HEALTH DICKINSO	DICKINSON PRESS - MEMORIAL DAY	
	930	Institutional Advertising	21.00	2066145	BEST FRIENDS MENTORING PROGRAM	DICKINSON STATE UNIVERSITY SPONSOR - FAMILY FUN DAY	
	930	Institutional Advertising	105.00	2066595	WEG ANDS VICTORY ENTERPRISES I	NEW ENGLAND MUSIC IN THE PARK SPONSORSHIP	
	930	Institutional Advertising	115.50	2067275	DICKINSON CHAMBER BUILDERS EXC	DICKINSON BUILDERS EXCHANGE ADVERTISING RENEW MEMBERSHIP	
	930	Institutional Advertising	160.96	2068970	FORUM COMMUNICATIONS COMPANY	DICKINSON PRESS - GRADUATION & MEMORIAL DAY AD	
	930	Institutional Advertising	9.24	2070060	GOLDEN VALLEY NEWS/BILLINGS CN	GRADUATE AD	
	930	Institutional Advertising	42.00	2070060	HORSE-FEST	GOOD OL TAYLOR DAYS - DONATION	
	930	Institutional Advertising	105.00	2070175	BOWMAN AREA CHAMBER OF COMMERCE	SUMMERFEST SPONSORSHIP	
	930	Institutional Advertising	15.96	2070587	FORUM COMMUNICATIONS COMPANY	DICKINSON PRESS - ROUGHRIIDER DAYS	
	930	Institutional Advertising	21.00	2071364	MORTREGET PUBLIC SCHOOL	FBLA DONATION	
	930	Institutional Advertising	176.40	2076226	TRINITY HIGH SCHOOL	WALL ADVERTISING PANEL - DONATION	
	930	Institutional Advertising	42.00	2077836	DICKINSON AREA BUILDERS ASSOCl	GOLF SPONSOR	
	930	Institutional Advertising	7.22	2080735	FORUM COMMUNICATIONS COMPANY	DICKINSON PRESS - HONOR ROLL OF BUSINESS	
	930	Institutional Advertising	210.00	2081604	DICKINSON COMMUNITY CONCERT AS	SPONSOR	
	930	Institutional Advertising	105.00	2083045	Mott Regent Public School Disc	VINYL SIGN - SPONSOR	
	930	Institutional Advertising	105.00	2083464	LEIMON SPORTS BOOSTERS	SD	ELIMINATE
	930	Institutional Advertising	(210.00)	2081604	DICKINSON COMMUNITY CONCERT AS	SPONSOR	
	930	Institutional Advertising	210.00	2084835	DICKINSON AREA CONCERT ASSOC	DICKINSON PRESS - LABOR DAY SALUTE	
	930	Institutional Advertising	21.00	2085925	FORUM COMMUNICATIONS COMPANY	TRICK OR TREAT - SPONSOR	
	930	Institutional Advertising	15.75	2088671	DOWNTOWN DICKINSON ASSOCIATION	DICKINSON PRESS - SNOW TAB	
	930	Institutional Advertising	81.90	2089581	FORUM COMMUNICATIONS COMPANY	DICKINSON PRESS - HONOR ROLL OF BUSINESS	
	930	Institutional Advertising	10.50	2090375	FORUM COMMUNICATIONS COMPANY	CANDY - DONATION	
	930	Institutional Advertising	105.52	1332032	FORUM COMMUNICATIONS COMPANY	DICKINSON PRESS - SIG HONOR ROLL PAGE AD	
	930	Institutional Advertising	10.50	2094161	FORUM COMMUNICATIONS COMPANY	CHRISTMAS DONATIONS	
	930	Institutional Advertising	33.53	1334121	CREDIT CARD ENTRY	CHRISTMAS DONATIONS	
	930	Institutional Advertising	22.36	1334121	CREDIT CARD ENTRY	CHRISTMAS DONATIONS	
	930	Institutional Advertising	22.36	1334121	CREDIT CARD ENTRY	CHRISTMAS DONATIONS	
	930	Institutional Advertising	149.94	2097933	FORUM COMMUNICATIONS COMPANY	CHRISTMAS DONATIONS	
930	Institutional Advertising	25.37	2101050	FORUM COMMUNICATIONS COMPANY	DICKINSON PRESS - BASKETBALL		
930	Institutional Advertising	29.40	2102251	FORUM COMMUNICATIONS COMPANY	DICKINSON PRESS - BASKETBALL		
930	Institutional Advertising	29.40	2102521	FORUM COMMUNICATIONS COMPANY	BIRTHDAY CALENDAR AD- SPONSOR		
930	Institutional Advertising	52.60	2102682	PENNYSAVER	DICKINSON PRESS - HOLIDAY GREETING		
930	Institutional Advertising	100.00	1314926	CREDIT CARD ENTRY	YEAR IN REVIEW - DONATION		
930	Institutional Advertising	175.00	2071305	MINOT PUBLIC SCHOOLS	CREDIT CARD ENTRY		
930	Institutional Advertising	23.04	2041229	SULLY COUNTY FAIR	CALENDAR AD - SPONSOR		
930	Institutional Advertising	13.04	2057258	IPSWICH TRAIL DAYS	SD	ELIMINATE	
930	Institutional Advertising	16.77	2059721	MOBRIDGE CHAMBER OF COMMERCE	SD	ELIMINATE	
930	Institutional Advertising	43.47	2063881	MOBRIDGE RODEO ASSN	SD	ELIMINATE	
930	Institutional Advertising	25.40	2068965	CURT MERRIMAN PRINTING INC.	SD	ELIMINATE	
930	Institutional Advertising	2.17	2070226	MOBRIDGE YOUTH ORGANIZATION	SD	ELIMINATE	
930	Institutional Advertising	32.06	2073915	MOBRIDGE RODEO ASSN	SD	ELIMINATE	
930	Institutional Advertising	20.57	2083595	OAHE HOCKEY ASSOCIATION	SD	ELIMINATE	
930	Institutional Advertising	31.05	2090212	OAHE HOCKEY ASSOCIATION	SD	ELIMINATE	
930	Institutional Advertising	3.60	1334824	CREDIT CARD ENTRY	SD	ELIMINATE	
930	Institutional Advertising	5.25	2045715	MCKENZIE COUNTY FARMER	BOOSTER AD		
930	Institutional Advertising	166.00	1308504	CREDIT CARD ENTRY	WILLISTON HOME SHOW		
930	Institutional Advertising	12.94	1308977	CREDIT CARD ENTRY	SUPERHERO PARTY THEME		
930	Institutional Advertising	19.25	2061288	STANLEY COUNTY BOOSTER CLUB	BOOSTER - CALENDAR AD		
930	Institutional Advertising	37.42	1314923	CREDIT CARD ENTRY	HOME SHOW GIVE AWAY		
930	Institutional Advertising	10.26	1314923	CREDIT CARD ENTRY	HOME SHOW GIVE AWAY		
930	Institutional Advertising	35.00	2069265	CROSSBY COLOR SPLASH FUN RUN/WA	SPONSOR		
930	Institutional Advertising	35.00	2074320	WISC FOUNDATION	GOLF SPONSOR		
930	Institutional Advertising	50.00	1305602	CREDIT CARD ENTRY	CHAMBER EVENT		
930	Institutional Advertising	50.75	1326926	CREDIT CARD ENTRY	DICKINSON ADVERTISING		
930	Institutional Advertising	245.00	1326926	CREDIT CARD ENTRY	GOLF SPONSOR		
930	Institutional Advertising	176.69	2086183	WILLISTON HIGH SCHOOL STUDENT	HOMECOMING SPONSOR		
930	Institutional Advertising	236.51	2086186	CREDIT CARD ENTRY	STANLEY MIDU OPEN HOUSE		
930	Institutional Advertising	64.09	2086186	CREDIT CARD ENTRY	MIDU WC & WILL PICNIC		
930	Institutional Advertising	22.00	2036510	JAMESTOWN IMASONIC LODGE #6	PROGRAM BOOK AD - SPONSOR		
930	Institutional Advertising	62.00	2037681	COUNTRY MEDIA INC	CHRISTMAS GREETING		
930	Institutional Advertising	150.00	2039357	Poker Pros	HALF PANEL AD - CALL BEFORE YOU DIG	TRANSFER TO 5715 INFORMATIONAL	
930	Institutional Advertising	300.00	2040818	DEVILS LAKE PARK BOARD	BURDICK ARENA HOCKEY BOARD ADVERTISING SIGN		
930	Institutional Advertising	550.00	2100480	DEVILS LAKE BLUE LINE CLUB	ADVERTISING SIGN		
930	Institutional Advertising	150.00	2102037	GRAFTON PARKS & RECREATION	CENTENNIAL CENTER ANNUAL SMALL AD SIGN		
930	Institutional Advertising	500.00	2102062	JAMESTOWN LIONS CLUB	LCIF EMPOWERING SERVICE - DONATION		

MONTANA-DAKOTA UTILITIES CO. & GREAT PLAINS NATURAL GAS CO.
GAS UTILITY - NORTH DAKOTA
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Account Number	Account Description	Ferc Minor	North Dakota Gas Balance	Doc. Number	Advertising	Advertising Description	Reclassify
71000.5715.29301	Institutional Advertising	930	150.08	1320719	CREDIT CARD ENTRY	SPONSORSHIP MINOT TBA	
	Institutional Advertising	930	696.36	2088095	SIGNS BY DAN	DECALS FOR GRILL	
	Institutional Advertising	930	2,022.00	2039395	NORTH DAKOTA ASSOCIATION OF BU	SPONSOR	
	Institutional Advertising	930	106.02	1305952	CREDIT CARD ENTRY	WEBSITE AD	
	Institutional Advertising	930	505.50	2040055	CEDAR SOIL CONSERVATION DISTRI	EARTH DAY FESTIVAL - SPONSOR	
	Institutional Advertising	930	175.24	2040506	NORTH DAKOTA AMERICAN LEGION S	LEGION NEWS PROGRAM ADVERTISING	
	Institutional Advertising	930	117.95	2040507	AMVETS POST 7	CONVENTION PROGRAM ADVERTISING	
	Institutional Advertising	930	10,110.00	2040769	NORSK HOSTEST	CORPORATE SPONSORSHIP	
	Institutional Advertising	930	270.00	2068623	CRISIS CARE CHAPLANCY	MAYORS PRAYER BREAKFAST SPONSORSHIP	
	Institutional Advertising	930	167.40	2068623	ST. MARY'S PARISH	SPONSORSHIP	
	Institutional Advertising	930	67.40	2061827	ST. MARY'S BOOSTER CLUB	GOLF TOURNAMENT SPONSORSHIP	
	Institutional Advertising	930	124.69	2063277	NORTH DAKOTA AMERICAN LEGION S	STATE CONVENTION PROGRAM ADVERTISING	
	Institutional Advertising	930	181.98	2063278	NORTH DAKOTA AMERICAN LEGION S	LEGION NEWS PROGRAM ADVERTISING	
	Institutional Advertising	930	124.69	2063553	VFW DEPT OF NORTH DAKOTA	CONVENTION PROGRAM ADVERTISING	
	Institutional Advertising	930	168.50	2066595	WEIGANDS VICTORY ENTERPRISES I	NEW ENGLAND MUSE IN THE PARK EVENT - SPONSORSHIP	
	Institutional Advertising	930	150.00	1317939	CREDIT CARD ENTRY	SPONSORSHIP AD	
	Institutional Advertising	930	131.57	1317939	CREDIT CARD ENTRY	ND DRUGFACTS WEBSITE	
	Institutional Advertising	930	337.00	2070191	NORTH DAKOTA STATE FAIR	OPEN CLASS SPONSORSHIP	
	Institutional Advertising	930	250.00	2070306	BISMARCK BLIZZARD HOCKEY	SPONSORSHIP	
	Institutional Advertising	930	131.10	1320715	CREDIT CARD ENTRY	WEB AD	
	Institutional Advertising	930	134.80	2076147	LEGACY BOYS BASKETBALL BOOSTER	GOLF SPONSOR	
	Institutional Advertising	930	420.00	2076147	PURTON BUSINESS CONFERENCE	SPONSORSHIP	
	Institutional Advertising	930	120.00	2085342	ENR MAGAZINE	MAGAZINE AD - PROUD TO SUPPORT DRUG PREVENTION PROGRAMS IN OUR SCHOOLS	
	Institutional Advertising	930	337.00	2085342	ENR MAGAZINE	CONFERENCE SPONSOR	
	Institutional Advertising	930	404.40	2088448	NORTH DAKOTA WATER	SOCIAL HOUR SPONSOR	
	Institutional Advertising	930	250.00	2089580	BHG, INC	SPORTS CALENDAR - KNOW WHAT IS BELOW - CALL BEFORE YOU DIG	TRANSFER TO 5715 INFORMATIONAL
	Institutional Advertising	930	181.98	2090173	NORTH DAKOTA AMERICAN LEGION S	LEGION NEWS PROGRAM ADVERTISING - THERE'S NO PLACE LIKE HOME - SO MAKE YOURSELF COMFORTABLE	
	Institutional Advertising	930	124.69	2090174	VFW DEPT OF NORTH DAKOTA	CONFERENCE ADVERTISING - THANK YOU TO OUR VETERANS FOR SERVING OUR COUNTRY AND PROTECTING OUR FREEDOMS	
	Institutional Advertising	930	105.64	1331085	CREDIT CARD ENTRY	WEB AD	
	Institutional Advertising	930	674.00	2084428	VARSITY GROUP	LED VIDEO BOARD ADVERTISEMENT	
	Institutional Advertising	930	2,187.00	2087089	CITY OF BISMARCK	BISMARCK EVENT CENTER SIGN - THERE'S NO PLACE LIKE HOME - SO MAKE YOURSELF COMFORTABLE	
	Institutional Advertising	930	25.00	2087956	ND AMVETS	STATE CONVENTION ADVERTISING - THANK YOU TO OUR VETERANS FOR SERVING OUR COUNTRY AND PROTECTING OUR FREEDOMS	
	Institutional Advertising	930	8,425.00	2101682	CITY OF BISMARCK	BISMARCK EVENT CENTER SIGN - THERE'S NO PLACE LIKE HOME - SO MAKE YOURSELF COMFORTABLE	
	Institutional Advertising	930	10,735.00	1307516	MDUR CROSS CHARGES	MDUR CROSS CHARGES	
			\$13,399.36				

99400.5715.29301
Total

MONTANA-DAKOTA UTILITIES CO. & GREAT PLAINS NATURAL GAS CO.
GAS UTILITY - NORTH DAKOTA
ADVERTISING - NEWSPAPER
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GP - North Dakota		2019		Advertising Description		Reclassify
Account Number	Ferc Minor	Gas Balance	Doc. Number	Advertising	Advertising Description	Reclassify
71300.5715.29030	903	30.50	1311574	CREDIT CARD ENTRY	JOB POSTINGS	TRANSFER TO 5715 INFORMATIONAL
71000.5715.29090	909	60.10	2047536	VERNON COMPANY	JUMBO MAGNETIC CLIP 811 LOGO/LILL CHIZLER 811 LOGO/MAGNETIC BOTTLE OPENER 811 LOGO	
	909	(0.13)	1312745	SALES TAX REFUND	ND SALES TAX	
	909	6.59	2066023	VERNON COMPANY	JUMBO MAGNETIC CLIP 811 LOGO	
	909	35.96	1318889	CREDIT CARD ENTRY	GOLF BALLS	TRANSFER TO 5715 PROMOTIONAL
	909	1.38	1320715	CREDIT CARD ENTRY	SNIFY AND LOUIE SAFETY TATTOOS	
	909	62.09	2085764	CULVER COMPANY	SCHOOL PROGRAM: NATURAL GAS 2019 SAFETY AWARENESS COMMUNICATIONS	
	909	86.62	2084239	CULVER COMPANY	SCHOOL PROGRAM: E-SMARTKIDS WEBSITES	
	909	985.00	2046638	OFF THE WALL ADVERTISING INC	FEBRUARY OUTDOOR BILLBOARD SIGNS	
	909	985.00	2046638	OFF THE WALL ADVERTISING INC	MAY OUTDOOR BILLBOARD SIGNS	
	909	985.00	2046638	OFF THE WALL ADVERTISING INC	AUGUST OUTDOOR BILLBOARD SIGNS	
	909	985.00	2046638	OFF THE WALL ADVERTISING INC	OCTOBER OUTDOOR BILLBOARD SIGNS	
	909	284.24	1306200	FIREVEL OUTDOOR	PHONE LISTINGS	
	909	0.49	2037633	CENTURYLINK	PHONE LISTINGS	
	909	26.27	2069911	VERNON COMPANY	VISORS: 811 LOGO	
	909	(0.08)	1321782	SALES TAX REFUND	ND SALES TAX	ELIMINATE
	909	447.84				ELIMINATE
71000.5715.29130	913	50.22				
71007.5715.29130	913	3,023.25				
410.5715.29301	930	5.89	2037129	CROOKSTON FIGURE SKATING CLUB	FIGURE SKATING DONATION	
	930	41.24	2041742	MARSHALL MUSIC BOOSTERS	CALENDAR AD	TRANSFER TO 5715 INFORMATIONAL
	930	174.16	2048606	FRONTIER	PHONE LISTING	
	930	53.92	2069930	FRONTIER	ROTARY DONATION	
	930	4.72	2069930	FRONTIER	ROTARY DONATION	
	930	132.73	2067777	OTTER FALLS OTTER SOFTBALL	SPORTS DONATION	
	930	17.67	2069912	OTTER FALLS BASEBALL	SPORTS DONATION	
	930	142.69	2074065	JK SPORTS INC	BANNER	TRANSFER TO 5715 PROMOTIONAL
	930	23.56	2082184	OTTER SOCCER BOOSTER CLUB	BAGS	
	930	24.74	2085834	CROOKSTON EAGLES CLUB	SOCCER DONATION	
	930	11.17	2089901	FRONTIER	NEWSLETTER AD	
	930	20.26	2095903	CENTURYLINK	PHONE LISTING	TRANSFER TO 5715 INFORMATIONAL
	930	5.15	1320719	CREDIT CARD ENTRY	PHONE LISTING	TRANSFER TO 5715 INFORMATIONAL
	930	23.91	2099095	SIGNS BY DAN	SPONSORSHIP MINOT HBA	
	930	389.18	1307522	MDUR CROSS CHARGES	DECALS FOR GRILL	
	930	\$8,125.43			MDUR CROSS CHARGES	

Grand Total \$139,524.79

Resp	Obj	Account	Account Description	Doc Number	Explanation	LT 1 Amount	ND Alloc.	Fac.	ND %	ND \$	LT	Explanation -Remark-
40	5912	293077	Industrial Memberships	1320827	Acct Code Correction	-1000	228		10.164450%	-\$101.64	AA	
93107	5912	293077	Industrial Memberships	1320827	Acct Code Correction	101.56	7		100.000000%	\$101.56	AA	
98500	5912	293077	Industrial Memberships	2030552	AMERICAN GAS ASSOCIATION	105439.07	27		38.385153%	\$40,472.95	AA	2019 dues
71003	5912	293077	Industrial Memberships	1598	BISMARCK-MANDAN CHAMBER OF COM	3602.64	3		100.000000%	\$3,602.64	AA	DUES/PLATINUM PARTNER
120	5912	293077	Industrial Memberships	2069716	BISMARCK-MANDAN HBA	204	3		100.000000%	\$204.00	AA	ASSOCIATE
150	5912	293077	Industrial Memberships	2041084	BOWMAN AREA CHAMBER OF COMMERC	45.1	3		100.000000%	\$45.10	AA	dues 2019
150	5912	293077	Industrial Memberships	2063958	BOWMAN COUNTY DEVELOPMENT CORP	42	3		100.000000%	\$42.00	AA	2019 MEMBERSHIP DUES
88800	5912	293077	Industrial Memberships	1337813	C BREIMEIER 11-19	2465.89	27		38.385153%	\$946.54	AA	UTC Membership
88800	5912	293077	Industrial Memberships	1320151	C BREIMEIER 6-19	2417.54	27		38.385153%	\$927.98	AA	MDU/GPNG Gas
280	5912	293077	Industrial Memberships	2091927	CAVALIER AREA CHAMBER OF COMME	165	3		100.000000%	\$165.00	AA	CHAMBER DUES
95800	5912	293077	Industrial Memberships	2071462	COMMON GROUND ALLIANCE	850	27		38.385153%	\$326.28	AA	CGA Membership
120	5912	293077	Industrial Memberships	2038774	CONSTRUCTION PLANS	204	3		100.000000%	\$204.00	AA	2019 MEMBERSHIP DUES
410	5912	293077	Industrial Memberships	2046796	CROOKSTON AREA CHAMBER OF COMM	945	237		23.563242%	\$222.67	AA	Membership Dues
71100	5912	293077	Industrial Memberships	1309099	D HERNER 2-19	373.2	27		38.385153%	\$143.28	AA	LIHEAP Energy Assistance
71100	5912	293077	Industrial Memberships	1309099	D HERNER 2-19	11.4	27		38.385153%	\$4.38	AA	LIHEAP Energy Assistance
71100	5912	293077	Industrial Memberships	1335453	D TILLIS 11-19	100.76	27		38.385153%	\$38.68	AA	ACA Membership Dues
71100	5912	293077	Industrial Memberships	1335453	D TILLIS 11-19	3.08	27		38.385153%	\$1.18	AA	ACA Membership Dues
71100	5912	293077	Industrial Memberships	1325545	D TILLIS 8-19	199.04	27		38.385153%	\$76.40	AA	ACA Membership-Dan Tillis
280	5912	293077	Industrial Memberships	2090092	DEVILS LAKE AREA CHAMBER OF CO	350	3		100.000000%	\$350.00	AA	dues
150	5912	293077	Industrial Memberships	2059619	DICKINSON AREA BUILDERS ASSOCI	139.4	3		100.000000%	\$139.40	AA	DUES
150	5912	293077	Industrial Memberships	2067275	DICKINSON CHAMBER BUILDERS EXC	63	3		100.000000%	\$63.00	AA	'19 Membership Dues
152	5912	293077	Industrial Memberships	2090371	DICKINSON CHAMBER BUILDERS EXC	254.1	3		100.000000%	\$254.10	AA	2019-2020 MEMBERSHIP INVEST
71003	5912	293077	Industrial Memberships	2038174	DOWNTOWN BISMARCK COMMUNITY FO	5000	3		100.000000%	\$5,000.00	AA	2019 INVESTMENT
71003	5912	293077	Industrial Memberships	2037230	DOWNTOWN BUSINESS ASSOC	162	3		100.000000%	\$162.00	AA	2019 membership
88900	5912	293077	Industrial Memberships	2041530	EDISON ELECTRIC INSTITUTE	3880	27		38.385153%	\$1,489.36	AA	2019 USWAG DUES
71003	5912	293077	Industrial Memberships	2061811	EDND	340	3		100.000000%	\$340.00	AA	2019 SUMMER CONF SPONSOR
71000	5912	293077	Industrial Memberships	2037354	ENERGY SOLUTIONS CENTER	8610	27		38.385153%	\$3,304.97	AA	2019 CORP MEM DUES
410	5912	293077	Industrial Memberships	2100562	FERGUS FALLS AREA CHAMBER OF C	700	237		23.563242%	\$164.94	AA	MEMBERSHIP RENEWAL
71003	5912	293077	Industrial Memberships	2047330	FORWARD DEVILS LAKE CORPORATIO	500	3		100.000000%	\$500.00	AA	Gold investor
210	5912	293077	Industrial Memberships	2041249	GETTYSBURG CHAMBER OF COMMERCE	52.49	158		6.209801%	\$3.26	AA	INVESTMENT
280	5912	293077	Industrial Memberships	2040933	GRAFTON AREA CHAMBER OF COMMER	325	3		100.000000%	\$325.00	AA	Membership
120	5912	293077	Industrial Memberships	2097083	HEBRON BUSINESS CLUB	12.25	3		100.000000%	\$12.25	AA	dues
150	5912	293077	Industrial Memberships	2063812	HETTINGER CHAMBER RODEO	42	3		100.000000%	\$42.00	AA	RODEO
210	5912	293077	Industrial Memberships	2047945	IPSWICH COMMERCIAL CLUB	17.5	158		6.209801%	\$1.09	AA	BUS MEMBERSHIP
280	5912	293077	Industrial Memberships	2091930	JAMESTOWN AREA CHAMBER OF COMM	357.5	3		100.000000%	\$357.50	AA	MEMBERSHIP DUES
280	5912	293077	Industrial Memberships	2036879	JAMESTOWN DOWNTOWN ASSOCIATION	175	3		100.000000%	\$175.00	AA	2019 INVESTMENT
280	5912	293077	Industrial Memberships	2085084	LANGDON CHAMBER OF COMMERCE	250	3		100.000000%	\$250.00	AA	dues
210	5912	293077	Industrial Memberships	2038580	LINTON CHAMBER OF COMMERCE	24.5	158		6.209801%	\$1.52	AA	2019 MEMBERSHIP
210	5912	293077	Industrial Memberships	2062382	LINTON INDUSTRIAL DEVELOPMENT	17.5	158		6.209801%	\$1.09	AA	2019 DUES
210	5912	293077	Industrial Memberships	2086287	LINTON LIONS CLUB	40	158		6.209801%	\$2.48	AA	2019-2020 DUES
200	5912	293077	Industrial Memberships	2046440	MAX CIVIC CLUB	100	3		100.000000%	\$100.00	AA	dues
99400	5912	293077	Industrial Memberships	1134	MDUR 1-19	2914.24	27		38.385153%	\$1,118.63	AA	MDUR Cross Charge 29995
99400	5912	293077	Industrial Memberships	2840	MDUR 10-19	2349.35	27		38.385153%	\$901.80	AA	MDUR Cross Charge 29995
99400	5912	293077	Industrial Memberships	3020	MDUR 11-19	2055	27		38.385153%	\$788.81	AA	MDUR Cross Charge 29995
99400	5912	293077	Industrial Memberships	3262	MDUR 12-19	2085.83	27		38.385153%	\$800.65	AA	MDUR Cross Charge 29995

99400	5912	293077	Industrial Memberships	1503 MDUR 3-19	1399.05	27	38.385153%	\$537.03	AA	MDUR Cross Charge 29995
99400	5912	293077	Industrial Memberships	1671 MDUR 4-19	985.06	27	38.385153%	\$378.12	AA	MDUR Cross Charge 29995
99400	5912	293077	Industrial Memberships	1852 MDUR 5-19	680.4	27	38.385153%	\$261.17	AA	MDUR Cross Charge 29995
99400	5912	293077	Industrial Memberships	2223 MDUR 7-19	462.38	27	38.385153%	\$177.49	AA	MDUR Cross Charge 29995
99400	5912	293077	Industrial Memberships	2437 MDUR 8-19	137	27	38.385153%	\$52.59	AA	MDUR Cross Charge 29995
99400	5912	293077	Industrial Memberships	2674 MDUR 9-19	102.75	27	38.385153%	\$39.44	AA	MDUR Cross Charge 29995
99400	5912	293077	Industrial Memberships	2674 MDUR 9-19	-102.75	27	38.385153%	-\$39.44	AA	MDUR Cross Charge 29995
99400	5912	293077	Industrial Memberships	2678 MDUR 9-19	102.75	27	38.385153%	\$39.44	AA	MDUR Cross Charge 29995
40	5912	293077	Industrial Memberships	2067675 MIDWEST REGION GAS TASK FORCE	1000	228	10.164450%	\$101.64	AA	dues
40	5912	293077	Industrial Memberships	2046590 MINNESOTA CHAMBER OF COMMERCE	607.5	228	10.164450%	\$61.70	AA	MEMBERSHIP DUES ACCT 1952
200	5912	293077	Industrial Memberships	2046429 MINOT AREA CHAMBER OF COMMERCE	2143	3	100.000000%	\$2,143.00	AA	dues
200	5912	293077	Industrial Memberships	2046431 MINOT AREA DEVELOPMENT CORPORA	2500	3	100.000000%	\$2,500.00	AA	dues
200	5912	293077	Industrial Memberships	2080972 MINOT ASSOCIATION OF BUILDERS	400	3	100.000000%	\$400.00	AA	ASSOCIATE MEMBERSHIP
210	5912	293077	Industrial Memberships	2066169 MOBRIDGE ROTARY CLUB	36	158	6.209801%	\$2.24	AA	dues 7/1-12/30
71100	5912	293077	Industrial Memberships	297762 NACM	41.91	27	38.385153%	\$16.09	AA	MEMBERSHIP
71003	5912	293077	Industrial Memberships	2032669 NDEPA	500	3	100.000000%	\$500.00	AA	2019 membership
71100	5912	293077	Industrial Memberships	2090838 NEUAC	373.2	27	38.385153%	\$143.25	AA	CORP/UTIL/TRD ORG
71100	5912	293077	Industrial Memberships	2090838 NEUAC	11.4	27	38.385153%	\$4.38	AA	CORP/UTIL/TRD ORG
152	5912	293077	Industrial Memberships	2086102 NEW ENGLAND LIONS CLUB	35.7	3	100.000000%	\$35.70	AA	Justin Nelson dues
92503	5912	293077	Industrial Memberships	1131 Other 1-19	1666.5	3	100.000000%	\$1,666.50	AA	ND & SD Membership Dues
99400	5912	293077	Industrial Memberships	2836 Other 10-19	66.17	27	38.385153%	\$25.40	AA	MDUR Cross Charge 20767
99400	5912	293077	Industrial Memberships	2046681 PELICAN RAPIDS CHAMBER OF COMM	108.5	27	38.385153%	\$41.65	AA	MDUR Cross Charge 20970
410	5912	293077	Industrial Memberships	2037898 PIERRE AREA CHAMBER OF COMMERCE	200	237	23.563242%	\$47.13	AA	membership
210	5912	293077	Industrial Memberships	1038 QUEST ORACLE COMMUNITY	737	158	6.209801%	\$45.77	AA	BRONZE MEMBERSHIP
72100	5912	29302	Misc General Expense	2047642 RAY CHAMBER OF COMMERCE	117.34	27	38.385153%	\$45.04	AA	2019 customer corp membership
240	5912	293077	Industrial Memberships	2036419 ROTARY CLUB OF DEVILS LAKE	35	3	100.000000%	\$35.00	AA	dues
280	5912	293077	Industrial Memberships	2064296 ROTARY CLUB OF WILLISTON	275	3	100.000000%	\$275.00	AA	2019 6 mos dues
240	5912	293077	Industrial Memberships	2038547 STANLEY COMMERCIAL CLUB	175	3	100.000000%	\$175.00	AA	ANNUAL DUES
240	5912	293077	Industrial Memberships	2094442 STARK DEVELOPMENT CORPORATION	102	3	100.000000%	\$102.00	AA	2019 Dues with discount
71003	5912	293077	Industrial Memberships	2038866 Theodore Roosevelt Express	168.5	3	100.000000%	\$168.50	AA	dues
71003	5912	293077	Industrial Memberships	2035338 UTILITY SHAREHOLDERS OF NORTH	270	3	100.000000%	\$270.00	AA	MEMBERSHIP
98503	5912	293077	Industrial Memberships	2082298 UTILITY SHAREHOLDERS OF NORTH	17550	3	100.000000%	\$17,550.00	AA	2019 half dues
98503	5912	293077	Industrial Memberships	2046679 VALLEY CITY AREA OF CHAMBER OF	17550	3	100.000000%	\$17,550.00	AA	MEMBERSHIP DUES
280	5912	293077	Industrial Memberships	2093562 VALLEY CITY AREA OF CHAMBER OF	255	3	100.000000%	\$255.00	AA	dues
280	5912	293077	Industrial Memberships	2037709 WAHPETON BRECKENRIDGE AREA CHA	255	3	100.000000%	\$255.00	AA	ANNUAL MEMBERSHIP
410	5912	293077	Industrial Memberships	2046428 WASHBURN CIVIC CLUB	1000	237	23.563242%	\$235.63	AA	Membership Dues
200	5912	293077	Industrial Memberships	2041533 WEST ASSOCIATES	75	3	100.000000%	\$75.00	AA	dues
88900	5912	293077	Industrial Memberships	2077264 WESTERN ENERGY INSTITUTE	450	27	38.385153%	\$172.73	AA	2019 DUES
70100	5912	293077	Industrial Memberships	2039309 WILLISTON AREA CHAMBER OF COMM	9695.1	27	38.385153%	\$3,721.47	AA	INV 000005781
240	5912	293077	Industrial Memberships	2065224 WILLISTON ECONOMIC DEVELOPMENT	187	3	100.000000%	\$187.00	AA	dues
71003	5912	293077	Industrial Memberships		350	3	100.000000%	\$350.00	AA	1/3 Silver Sponsor

\$114,674.51

\$315,859.22

\$114,674.51

\$315,859.22

From O&Mreport

Resp	Obj	Account	Account Description	Doc Number	Explanation	LT 1 Amount	LT
40	5912	293077	Industrial Memberships	1309904	ALLOCATE RATE BASE	61.7	UN
40	5912	293077	Industrial Memberships	1319168	ALLOCATE RATE BASE	101.56	UN
40	5912	293077	Industrial Memberships	1320873	ALLOCATE RATE BASE	-101.56	UN
410	5912	293077	Industrial Memberships	1307522	ALLOCATE RATE BASE	235.63	UN
410	5912	293077	Industrial Memberships	1309904	ALLOCATE RATE BASE	269.8	UN
410	5912	293077	Industrial Memberships	1339201	ALLOCATE RATE BASE	164.94	UN
70100	5912	293077	Industrial Memberships	1324433	ALLOCATE RATE BASE	123.48	UN
71000	5912	293077	Industrial Memberships	1307522	ALLOCATE RATE BASE	109.68	UN
71100	5912	293077	Industrial Memberships	1309904	ALLOCATE RATE BASE	4.91	UN
71100	5912	293077	Industrial Memberships	1327184	ALLOCATE RATE BASE	2.54	UN
71100	5912	293077	Industrial Memberships	1332819	ALLOCATE RATE BASE	4.91	UN
71100	5912	293077	Industrial Memberships	1335525	ALLOCATE RATE BASE	1.32	UN
71100	5912	293077	Industrial Memberships	1339201	ALLOCATE RATE BASE	0.54	UN
72100	5912	29302	Misc General Expense	1307522	ALLOCATE RATE BASE	1.49	UN
88800	5912	293077	Industrial Memberships	1320873	ALLOCATE RATE BASE	30.8	UN
88800	5912	293077	Industrial Memberships	1339201	ALLOCATE RATE BASE	31.41	UN
88900	5912	293077	Industrial Memberships	1309904	ALLOCATE RATE BASE	55.17	UN
93107	5912	293077	Industrial Memberships	1320873	ALLOCATE RATE BASE	101.56	UN
95800	5912	293077	Industrial Memberships	1320873	ALLOCATE RATE BASE	10.83	UN
98500	5912	293077	Industrial Memberships	1307522	ALLOCATE RATE BASE	1343.03	UN
99400	5912	293077	Industrial Memberships	1307522	ALLOCATE RATE BASE	37.11	UN
99400	5912	293077	Industrial Memberships	1307522	ALLOCATE RATE BASE	0.84	UN
99400	5912	293077	Industrial Memberships	1312756	ALLOCATE RATE BASE	17.81	UN
99400	5912	293077	Industrial Memberships	1315443	ALLOCATE RATE BASE	12.55	UN
99400	5912	293077	Industrial Memberships	1318181	ALLOCATE RATE BASE	8.66	UN
99400	5912	293077	Industrial Memberships	1324494	ALLOCATE RATE BASE	5.89	UN
99400	5912	293077	Industrial Memberships	1327264	ALLOCATE RATE BASE	1.74	UN
99400	5912	293077	Industrial Memberships	1330052	ALLOCATE RATE BASE	1.32	UN
99400	5912	293077	Industrial Memberships	1332954	ALLOCATE RATE BASE	29.92	UN
99400	5912	293077	Industrial Memberships	1332954	ALLOCATE RATE BASE	1.38	UN
99400	5912	293077	Industrial Memberships	1335710	ALLOCATE RATE BASE	26.18	UN
99400	5912	293077	Industrial Memberships	1339370	ALLOCATE RATE BASE	26.57	UN

\$114,674.51

From O&M report

\$114,674.51

\$0.00

Resp	Obj	Account	Account Description	Explanation	LT 1 Amount	ND Alloc.	Fac.	ND %	ND \$	LT	Explanation -Remark-
99400	5912	293077	Industrial Memberships	0120 MDUR Corp Dept. Alloc.	4075.67	27		37.695406%	\$1,536.34	AA	MDUR Cross Charge 29995
98500	5912	293077	Industrial Memberships	AMERICAN GAS ASSOCIATION	163832.73	27		37.695406%	\$61,757.41	AA	2020 dues
152	5912	293077	Industrial Memberships	BOWMAN AREA CHAMBER OF COMMERC	46.2	3		100.000000%	\$46.20	AA	MEMBERSHIP DUES
152	5912	293077	Industrial Memberships	BOWMAN COUNTY DEVELOPMENT CORP	42	3		100.000000%	\$42.00	AA	2020 dues
280	5912	293077	Industrial Memberships	CARRINGTON CHAMBER OF COMMERCE	260	3		100.000000%	\$260.00	AA	2020 MEMBERSHIP DUES
280	5912	293077	Industrial Memberships	CAVALIER RETAIL COMMITTEE	250	3		100.000000%	\$250.00	AA	2020 DUES
95800	5912	293077	Industrial Memberships	COMMON GROUND ALLIANCE	1450	27		37.695406%	\$546.58	AA	CGA MEMBERSHIP 2020
90100	5912	293077	Industrial Memberships	CORR PREPAID	581	27		37.695406%	\$219.01	AA	
90100	5912	293077	Industrial Memberships	CORR PREPAID	900.55	27		37.695406%	\$339.47	AA	
90100	5912	293077	Industrial Memberships	CORR PREPAID	336.98	27		37.695406%	\$127.03	AA	
410	5912	293077	Industrial Memberships	CROOKSTON AREA CHAMBER OF COMM	941	237		22.474236%	\$211.48	AA	2020 dues
71003	5912	293077	Industrial Memberships	DOWNTOWN BISMARCK COMMUNITY FO	2700	3		100.000000%	\$2,700.00	AA	ANNUAL INVESTMENT
71003	5912	293077	Industrial Memberships	EDND	500	3		100.000000%	\$500.00	AA	2020 Membership
71000	5912	293077	Industrial Memberships	ENERGY SOLUTIONS CENTER	8610	27		37.695406%	\$3,245.57	AA	MDU/GREAT PLAINS PORTION
210	5912	293077	Industrial Memberships	FORT PIERRE CHAMBER OF COMM	50	158		6.096602%	\$3.05	AA	2020 dues
280	5912	293077	Industrial Memberships	GRAFTON AREA CHAMBER OF COMMER	325	3		100.000000%	\$325.00	AA	2020 MEMBERSHIP
152	5912	293077	Industrial Memberships	HETTINGER AREA CHAMBER OF COMM	42	3		100.000000%	\$42.00	AA	SILVER BUSINESS MEMBERSHIP
210	5912	293077	Industrial Memberships	LINTON CHAMBER OF COMMERCE	12.25	158		6.096602%	\$0.75	AA	ASSOCIATE MEMBERSHIP
98500	5912	293077	Industrial Memberships	MEA ENERGY ASSOCIATION	14516.2	27		37.695406%	\$5,471.94	AA	DUES GAS/ELECTRICITY
93107	5912	293077	Industrial Memberships	MIDWEST REGION GAS TASK FORCE	101.56	7		100.000000%	\$101.56	AA	2020 MRGTF DUES
200	5912	293077	Industrial Memberships	MINOT AREA CHAMBER OF COMMERCE	2096.65	3		100.000000%	\$2,096.65	AA	ACCT 1462
210	5912	293077	Industrial Memberships	MOBRIDGE AREA CHAMBER OF COMME	210	158		6.096602%	\$12.80	AA	connector member
210	5912	293077	Industrial Memberships	MOBRIDGE ROTARY CLUB	63	158		6.096602%	\$3.84	AA	2020 dues
99400	5912	293077	Industrial Memberships	Other SS Dept Alloc	77.22	27		37.695406%	\$29.11	AA	MDUR Cross Charge 20767
99400	5912	293077	Industrial Memberships	Other SS Dept Alloc	103.39	27		37.695406%	\$38.97	AA	MDUR Cross Charge 20970
410	5912	293077	Industrial Memberships	PELICAN RAPIDS CHAMBER OF COMM	200	237		22.474236%	\$44.95	AA	DUES
210	5912	293077	Industrial Memberships	PIERRE AREA CHAMBER OF COMMERC	1000	158		6.096602%	\$60.97	AA	wavemaker investor
280	5912	293077	Industrial Memberships	ROTARY CLUB OF DEVILS LAKE	275	3		100.000000%	\$275.00	AA	6 mos dues 2020
98503	5912	293077	Industrial Memberships	UTILITY SHAREHOLDERS OF NORTH	13260	3		100.000000%	\$13,260.00	AA	Jan-Jun 2020 dues
410	5912	293077	Industrial Memberships	WAHPETON BRECKENRIDGE AREA CHA	1000	237		22.474236%	\$224.74	AA	2020 MEMBERSHIP DUES
240	5912	293077	Industrial Memberships	WILLISTON AREA CHAMBER OF COMM	213.5	3		100.000000%	\$213.50	AA	MEMBERSHIP
71003	5912	293077	Industrial Memberships	WILLISTON BASIN CHAPTER OF API	674	3		100.000000%	\$674.00	AA	BRONZE SPONSOR

\$94,659.92

\$297,854.54

Resp	Obj	Account	Account Description	Doc Number	Explanation	LT 1 Amount	LT
152	5912	293077	Industrial Memberships	1341925	ALLOCATE RATE BASE	130.2	UE
200	5912	293077	Industrial Memberships	1341925	ALLOCATE RATE BASE	2096.65	UE
210	5912	293077	Industrial Memberships	1341925	ALLOCATE RATE BASE	81.4	UE
240	5912	293077	Industrial Memberships	1341925	ALLOCATE RATE BASE	213.5	UE
280	5912	293077	Industrial Memberships	1341925	ALLOCATE RATE BASE	1110	UE
71000	5912	293077	Industrial Memberships	1341925	ALLOCATE RATE BASE	3127.79	UE
71003	5912	293077	Industrial Memberships	1341925	ALLOCATE RATE BASE	3874	UE
90100	5912	293077	Industrial Memberships	1341925	ALLOCATE RATE BASE	660.63	UE
95800	5912	293077	Industrial Memberships	1341925	ALLOCATE RATE BASE	526.75	UE
98500	5912	293077	Industrial Memberships	1341925	ALLOCATE RATE BASE	64789.62	UE
98503	5912	293077	Industrial Memberships	1341925	ALLOCATE RATE BASE	13260	UE
99400	5912	293077	Industrial Memberships	1341925	ALLOCATE RATE BASE	1480.59	UE
99400	5912	293077	Industrial Memberships	1341925	ALLOCATE RATE BASE	28.05	UE
99400	5912	293077	Industrial Memberships	1341925	ALLOCATE RATE BASE	37.56	UE
410	5912	293077	Industrial Memberships	1341931	ALLOCATE RATE BASE	481.17	UN
71000	5912	293077	Industrial Memberships	1341931	ALLOCATE RATE BASE	117.78	UN
90100	5912	293077	Industrial Memberships	1341931	ALLOCATE RATE BASE	24.87	UN
93107	5912	293077	Industrial Memberships	1341931	ALLOCATE RATE BASE	101.56	UN
95800	5912	293077	Industrial Memberships	1341931	ALLOCATE RATE BASE	19.83	UN
98500	5912	293077	Industrial Memberships	1341931	ALLOCATE RATE BASE	2439.74	UN
99400	5912	293077	Industrial Memberships	1341931	ALLOCATE RATE BASE	55.75	UN
99400	5912	293077	Industrial Memberships	1341931	ALLOCATE RATE BASE	1.07	UN
99400	5912	293077	Industrial Memberships	1341931	ALLOCATE RATE BASE	1.41	UN

\$94,659.92

**MONTANA-DAKOTA UTILITIES CO. & GREAT PLAINS NATURAL GAS CO.
INSURANCE EXPENSE
GAS UTILITY - NORTH DAKOTA
TWELVE MONTHS ENDING DECEMBER 31, 2019**

Description	Total Gas	ND-MDU Gas 1/	ND-GP Gas 1/	Total North Dakota Gas
Directors & Officer's Liability Insurance	\$128,659	\$47,747	\$1,639	\$49,386
General Liability				
Fiduciary Liability	28,608	10,617	364	10,981
Employment Liability	11,352	4,213	145	4,358
Excess Liability	931,045	345,524	11,859	357,383
Property - All Risk	600,435	222,830	7,648	230,478
Blanket Crime	7,226	2,682	92	2,774
Special Contingency	769	285	10	295
Self Insurance	497,475	184,620	6,337	190,957
	<u>\$2,205,569</u>	<u>\$818,518</u>	<u>\$28,094</u>	<u>\$846,612</u>

1/ Allocated to North Dakota on Factor No. 27 - O&M

Excluding Cost of Gas and A&G - 2019:	<u>MDU</u>	<u>GP</u>
	<u>37.111407%</u>	<u>1.273746%</u>

**MONTANA-DAKOTA UTILITIES CO. & GREAT PLAINS NATURAL GAS CO.
INSURANCE EXPENSE
GAS UTILITY - NORTH DAKOTA
PROJECTED 2020 & 2021**

Description	Expiration	Annual Premium	Quarterly Admin Fee	Total	% Gas 1/	2020		2021	
						Gas Utility	North Dakota Gas 2/	Gas Utility	North Dakota Gas 3/
Directors & Officer's Liability Insurance	10/31/2020	\$318,273	\$10,930	\$329,203	41.50%	\$136,619	\$51,499	\$136,619	\$53,044
General Liability									
Fiduciary Liability	10/31/2020	45,365	3,167	48,532	58.10%	28,197	10,629	28,197	10,948
Employment Liability	12/31/2020	15,303		15,303	58.10%	8,891	3,351	8,891	3,452
Excess Liability	12/31/2020	2,142,592	69,897	2,212,489	41.50%	918,183	346,113	918,183	356,496
Property - All Risk	12/31/2020	1,294,980	44,520	1,339,500	41.50%	555,893	209,546	555,893	215,832
Blanket Crime	10/31/2020	16,587	571	17,158	41.50%	7,121	2,684	7,121	2,765
Special Contingency	5/1/2021	1,885		1,885	41.50%	782	295	782	304
Self Insurance	N.A.	539,524		539,524	41.50%	223,902	84,401	223,902	86,933
		\$4,374,509	\$129,085	\$4,503,594		\$1,879,588	\$708,518	\$1,879,588	\$729,774

1/ Fiduciary Liability and Employment liability allocated to Gas Utility based on Number of Employees, remaining policies are allocated based on the Corporate Overhead.

2/ Allocated to North Dakota on Factor No. 27 - O&M Excluding
Cost of Gas and A&G - 2020: 37.695406%

3/ 3% inflator used to calculate 2021 projected amount.

**MONTANA-DAKOTA UTILITIES CO.
& GREAT PLAINS NATURAL GAS CO.
INSURANCE EXPENSE - SELF INSURANCE
GAS UTILITY
WORK PAPER**

Self Insurance	Electric	Gas	Total
2015	\$203,918	\$151,960	\$355,878
2016	45,639	31,324	76,963
2017	350,622	232,776	583,398
2018	276,787	185,295	462,082
2019	721,826	497,475	1,219,301
	<u>\$1,598,792</u>	<u>\$1,098,830</u>	<u>\$2,697,622</u>
Average	\$319,758	\$219,766	\$539,524

**MONTANA-DAKOTA UTILITIES CO.
RATE CASE EXPENSE
GAS UTILITY - NORTH DAKOTA
TWELVE MONTHS ENDED DECEMBER 31, 2019
PROJECTED 2020-2021**

	Actual <u>2016 ND Gas</u>	Projected <u>PU-19-</u>
Concentric Energy Advisors Inc. (ROE)	\$155,272	\$173,885
AUS Consultants, Inc. (Depreciation)	4,740	0
Even Sanderson, PC (Legal)	75,441	81,250
CCOSS/Rate Design Consultants	0	100,000
ND PSC Expense	175,000	175,000
<u>Other</u>		
Federal Express, Media ads, other exp. Transcript		500
Total Rate Case Expense	<u>\$410,453</u>	<u>\$530,635</u>
3 year amortization		\$176,878
Recurring Level of Expense 1/		<u>5,345</u>
Projected Regulatory Commission Expense		<u>\$182,223</u>

1/ Reflects 3 year average expense

<u>Reg Com Exp - 928 Detail</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>Total</u>
5222 Legal Fees		\$2,470	\$8,181	\$10,651
5913 Permits & Filing Fees	\$13,141	(8,357)	\$600	5,384
5983 Deferred Charge Amort.	155,253	73,842	116,660	345,755
Total	<u>\$168,394</u>	<u>\$67,955</u>	<u>\$125,441</u>	<u>\$361,790</u>
Less: Deferred Charge				345,755
Total				<u>\$16,035</u>
3 year average				<u>\$5,345</u>

<u>Estimate for Concentric</u>	<u>Estimated Hours</u>	<u>Rate/hr</u>	<u>Total</u>
Senior VP	190	\$635	\$120,650
Vice President	5	570	2,850
Assistant Vice President	5	465	2,325
Senior Project Manager	85	425	36,125
Assistant Consultant	25	320	8,000
Analyst	10	275	2,750
Project Assistant	15	79	1,185
	<u>335</u>		<u>\$173,885</u>
Estimate for Even Sanderson (Legal)	325	\$250	\$81,250

	<u>ND</u>	<u>GP-ND</u>
Depreciation Study General & Common Cost	\$91,708	\$91,708
ND Factor 40 - Gas Plant Excl Common GO	0.44237666	0.01188001
Allocated to ND Gas	40,569	1,089
5 year avg	8,114	218
Total Depreciation Study Expense	<u>\$8,332</u>	

**Montana-Dakota Utilities Co.
Gas Utility – North Dakota
Description of Allocation Factors & Embedded Class Cost of Service Study - Details**

Factor	Title	Classification	Description	Work Paper Reference
1	Dk Throughput Projected	Energy	Projected Dk throughput by class as recorded at the meter.	Statement F, Schedule F-1, Pages 1-2
2	Peak Design Day at Distribution	Demand	Design Day peak is allocated to customers based on the ratio of the calculated Design Day peak use by class. The calculated Design Day peak use is based on the following. Projected customer's times the sum of Degree Day times the Heating use per Degree Day plus the Base use per customer for each class of customers.	Statement K Workpaper, Page 13
3	Dk Sales Projected	Energy	Projected Dk sales by class as recorded at the meter excluding transmission volumes.	Statement K Workpaper, Page 13
4	Average Customers	Customer	Average customers Projected 2021.	Statement F, Schedule F-1, Pages 1-2
5	Total Weighted Customers	Customer	Factor 4 (Average Customers) multiplied by weighting factor (based on average installed meter costs as of 2020), weighted to represent relative costs, with the residential cost weight set equal to 1.0	Statement K Workpaper, Page 13
6	Average Residential & Firm General Customers	Customer	Factor 4 excluding Air Force Delivery, Small and Large Interruptible, and Minot Air Force Base Distribution	Statement K Workpaper, Page 13
8	Average Customers at Distribution	Customer	Factor 4 (Average Customers) excluding the Minot Air Force Base and Large Interruptible Transportation Customers.	Statement K Workpaper, Page 13

Factor	Title	Classification	Description	Work Paper Reference
9	Total Weighted Customers Excluding Transmission Customers	Customer	Factor 5 (Total Weighted Customers) excluding weighted Large IT Transmission level customers.	Statement K Workpaper, Page 13
10	Residential & Firm General Propane Sales	Energy	Usage by propane customers used to allocate fuel stocks. Utilized Projected 2015 volumes.	
13	Distribution Mains	Demand and Customer	Average Distribution Mains plant balance as shown on Statement K Workpaper, Page 6 are assigned 70% to the demand component of the rate and 30% to the customer component of the rate and allocated to each class based on Factors 2 and 8 or directly assigned. Factor 13 is based on the result of the allocations and is used to allocate distribution mains related costs, excluding the Heskett line and the Minot Air Force Base. Factor 13 is used to allocate Land and Rights of Way, Meas. & Reg, Equip, City Gate, and Catholic Protection & Other Equipment.	Statement K Workpaper, Page 6
15	Distribution Plant	Demand and Customer	Average Distribution Plant balance as shown on Statement B, Page 1, as allocated to each class. This factor is based on the results of the allocations and is used to allocate distribution plant related items.	Statement B, Page 1
16	Meters & Regulators	Customer	Average Meters and Regulators plant balances as shown on Statement K Workpaper, Page 6 excluding Minot Air Force Base as shown on Statement K Workpaper, Page 9 are assigned to the customer component and allocated to each class based on Factor 9 or directly assigned. Factor 16 is based on the results of the allocations and is used to allocate meter & regulator related costs.	Statement K Workpaper, Pages 6 & 9
17	Weighted Services	Customer	Factor 4 (Average Customers) multiplied by weighting factor (based on average installed service costs as of 2020), weighted to represent relative costs, with the residential cost weight set equal to 1.0	Statement K Workpaper, Page 16

Factor	Title	Classification	Description	Work Paper Reference
18	Meas. & Reg. Equip. General	Demand	Measurement and Regulator Equipment-General as shown on Statement K, Workpaper, Page 6 is assigned to the demand and customer component based on Factor 40 or directly assigned. Factor 18 is based on the results of the allocations and is used to allocate measurement and regulator equipment-general related costs.	Statement K Workpaper, Page 6
19	Meas. & Reg. Equip. City Gate	Demand & Customer	Measurement and Regulator Equipment-City Gate as shown on Statement K, Workpaper, Page 6 is assigned to the demand and customer component based on Factor 13 or directly assigned. Factor 19 is based on the results of the allocations and is used to allocate measurement and regulator equipment-city gate related costs.	Statement K Workpaper, Page 6
20	Service Regulators	Customer	Service Regulators as shown on Statement K, Workpaper, Page 6 is assigned to the demand and customer component based on Factor 13 or directly assigned. Factor 20 is based on the results of the allocations and is used to allocate service regulator related costs.	Statement K Workpaper, Page 6
21	Ind. Meas. & Reg. Station Equipment	Demand & Customer	Ind. Measurement and Regulator Station Equipment as shown on Statement K, Workpaper, Page 6 is assigned to the demand and customer component based on Factor 40 or directly assigned. Factor 21 is based on the results of the allocations and is used to allocate Ind. measurement and regulator station equipment related costs.	Statement K Workpaper, Page 6
22	Main & Services Excluding Minot AFB	Demand & Customer	Factor 22 is based on the results of the allocation of the mains and services accounts and is used to allocate Mains & Services related costs excluding those directly assigned to Minot Air Force Base.	Statement K Workpaper, Page 6
23	Structures and Improvements	Demand & Customer	Structures and Improvements as shown on Statement K, Workpaper, Page 6 is assigned to the demand and customer component based on Factor 40. Factor 23 is based on the results of the allocations and is used to allocate Structures and Improvement related costs.	Statement K Workpaper, Page 6

Factor	Title	Classification	Description	Work Paper Reference
24	Net Gas Plant in Service	Demand & Customer	Total gas plant in service Statement B, Page 2 less the Accumulated Reserve for Depreciation shown on Statement C, Page 1 as allocated to each class based on the factors identified in the CCOS-Detail report. This factor is based on the results of the allocations and is used to allocate Net Gas Plant in Service related costs.	CCOSS-Detail as allocated.
25	Total Gas Plant in Service	Demand & Customer	Factor 25 is based on the results of the allocations and is used to allocate Total Gas Plant in Service related costs.	CCOSS-Detail as allocated.
26	Projected Operating Revenue	Demand, Energy & Customer	Projected Operating Revenue as shown on Statement K worksheet, Page 25 assigned and allocated to Demand, Energy and customer costs as applicable.	CCOSS-Detail as allocated and Statement K Worksheet, page 25.
27	All Other Distribution Operation Expense Excluding Minot AFB	Demand, Energy & Customer	Factor 27 is based on the results of the allocations and is used to allocate All Other Distribution Operation Expense related costs excluding those assigned directly to Minot Air Force Base.	CCOSS-Detail as allocated.
28	All Other Distribution Maintenance Expense Excluding Minot AFB	Demand & Customer	Factor 28 is based on the results of the allocations and is used to allocate All Other Distribution Maintenance Expense related costs excluding those assigned directly to Minot Air Force Base.	CCOSS-Detail as allocated.
30	Distribution O&M	Demand, Energy & Customer	Factor 30 is based on the results of the allocations and is used to allocate Distribution O&M related costs.	CCOSS-Detail as allocated.
31	O&M Excluding Cost of Gas	Demand, Energy & Customer	Factor 31 is based on the results of the allocations and is used to allocate O&M Excluding Cost of Gas related costs.	CCOSS-Detail as allocated.
36	Net Gas Plant in Service Excluding Minot AFB	Demand & Customer	Factor 24 Net Gas Plant in Service excluding Minot AFB This factor is based on the results of the allocations and is used to allocate Net Gas Plant in Service related costs.	CCOSS-Detail as allocated.
37	Weighted Services Excluding Transmission Level	Customer	Factor 17 Weighted Services excluding Transmission level customers. This factor is based on the results of the allocations and is used to allocate Services related	CCOSS-Detail as allocated.

Factor	Title	Classification	Description	Work Paper Reference
	Customers		costs.	
38	Distribution Plant less Direct Assignment	Demand & Energy	Factor 15 Distribution Plant less direct assignments.	CCOSS-Detail as allocated
40	Distribution Mains excluding Transmission Level Customers	Demand & Customer	Factor 13 excluding transmission level customers. Factor 40 is based on the result of the allocations and is used to allocate distribution mains related costs.	CCOSS-Detail as allocated.
41	Net Gas Plant in Service Excluding Minot AFB Distribution	Demand & Customer	Factor 24 excluding directly assigned net plant in service to Minot Air Force Base.	CCOSS-Detail as allocated.
42	O&M Excluding Cost of Gas and Minot AFB Distribution	Demand, Energy & Customer	Factor 31 excluding directly assigned costs to Minot Air Force Base.	CCOSS-Detail as allocated.
43	Customer Records and Collection	Customer	Factor is used to allocate Pro Forma Customer Records & Collections (FERC Acct 903) based on the average number of customers, aged accounts receivables, call center volumes and service orders by rate class.	Statement K Workpaper, page 28.

GAS UTILITY - NORTH DAKOTA
Embedded Class Cost of Service Study
Plant

	2018	2019	Average	2019	2020	2020 Plant Additions	2020 Retirements	2020 Plant Total	Average 2020	2021 Plant Additions	2021 Retirements	2021 Plant Total	Average 2021
Gas Plant in Service	\$2,005,492	\$2,000,051	\$2,002,772	\$2,000,051	\$0	\$0	\$0	\$2,000,051	\$2,000,051	\$0	\$0	\$2,000,051	\$2,000,051
Transmission Plant													
Distribution Plant													
Land (less Heskett/Gwinner)	\$1,013,061	\$922,303	\$967,682	\$922,303	\$0	\$0	\$0	\$922,303	\$922,303	\$0	\$0	\$922,303	\$922,303
Hesket Pipeline	0	45,000	22,500	45,000	0	0	0	45,000	45,000	0	0	45,000	45,000
Gwinner	0	75,472	37,736	0	0	0	0	0	0	0	0	0	0
Rights of Way (less Gwinner)	1,266,355	498,016	882,186	498,016	0	0	0	498,016	498,016	0	0	498,016	498,016
Gwinner	0	781,680	390,840	0	0	0	0	0	0	0	0	0	0
Structures & Improvements (less Heskett/Gwinner)	638,153	628,639	633,396	628,639	0	0	0	628,639	628,639	0	0	628,639	628,639
Hesket Pipeline	232,262	232,262	232,262	232,262	0	0	0	232,262	232,262	0	0	232,262	232,262
Gwinner	0	16,173	8,087	0	0	0	0	0	0	0	0	0	0
Mains (less Heskett/Gwinner)	118,024,270	114,313,257	116,168,764	114,313,257	6,986,660	6,986,660	6,986,660	120,680,879	117,497,067	7,645,513	(\$649,816)	127,676,576	124,178,727
Hesket Pipeline	20,582,604	20,537,604	20,560,104	20,537,604	0	0	0	20,537,604	20,537,604	0	0	20,537,604	20,537,604
Gwinner	0	9,526,445	4,763,223	0	0	0	0	0	0	0	0	0	0
Meas. & Reg. Equip. - General	1,796,137	2,004,356	1,900,247	2,004,356	744,898	744,898	744,898	2,738,400	2,371,378	629,691	(\$14,745)	3,353,346	3,045,873
Meas. & Reg. Equip. - City Gate (less Heskett/Gwinner)	7,470,160	7,257,428	7,363,794	7,257,428	397,431	397,431	397,431	7,615,558	7,436,493	1,657,228	(\$41,007)	9,231,779	8,423,669
Hesket Pipeline	618,326	618,297	618,312	618,297	0	0	0	618,297	618,297	0	0	618,297	618,297
Gwinner	0	1,073,866	536,933	0	0	0	0	0	0	0	0	0	0
Services	50,138,247	54,783,560	52,460,904	54,783,560	4,576,806	4,576,806	4,576,806	59,063,698	56,923,628	5,319,784	(\$318,033)	64,065,449	61,564,573
Meters	31,680,795	32,981,658	32,331,227	32,981,658	1,896,737	1,896,737	1,896,737	34,899,790	33,840,724	2,353,304	(\$186,844)	36,866,250	35,783,019
Service Regulators	4,402,260	4,826,938	4,614,599	4,826,938	254,110	254,110	254,110	5,054,909	4,940,924	464,857	(\$27,219)	5,492,547	5,273,728
Ind. Meas. & Reg. Station Equipment (less Heskett)	1,250,269	1,308,011	1,279,140	1,308,011	112,712	112,712	112,712	1,413,640	1,360,826	0	(\$7,612)	1,406,028	1,409,834
Hesket Pipeline	741,773	741,773	741,773	741,773	0	0	0	741,773	741,773	0	0	741,773	741,773
Property on Customer Premise & CNG Refueling	114,887	1,680	58,284	1,680	0	0	0	1,671	1,676	0	(\$9)	1,662	1,667
Catholic Protection & Other Equipment (less Heskett)	1,852,658	2,062,272	1,957,465	2,062,272	201,051	201,051	201,051	2,252,155	2,157,214	237,815	(\$12,126)	2,477,844	2,365,000
Hesket Pipeline	104,413	107,493	105,953	107,493	0	0	0	107,493	107,493	0	0	107,493	107,493
Distribution Plant	\$241,926,630	\$255,344,183	\$248,635,411	\$243,870,547	\$15,170,405	\$15,170,405	(\$1,194,966)	\$257,845,986	\$250,858,267	\$18,308,192	(\$1,263,445)	\$274,890,733	\$266,368,360
General Plant	\$15,719,362	\$15,722,065	\$15,720,714	\$15,722,065	\$1,017,426	\$1,017,426	(\$1,982,553)	\$14,756,938	\$15,239,503	\$1,952,848	(\$1,860,850)	\$14,848,936	\$14,802,938
Intangible Plant - General	6,506,364	4,251,874	5,379,119	4,251,874	228,948	228,948	0	4,480,822	4,366,348	66,618	0	4,547,440	4,514,131
Intangible Plant - Direct (Gwinner)	0	2,513,236	1,256,618	0	0	0	0	0	0	0	0	0	0
Intangible Plant - Direct (Hankinson)	2,192,696	2,192,696	2,192,696	2,192,696	0	0	0	2,192,696	2,192,696	0	0	2,192,696	2,192,696
Common Plant	15,209,825	16,487,348	15,848,587	16,487,348	2,380,180	2,380,180	(427,023)	18,440,505	17,463,928	1,216,635	(477,610)	19,179,530	18,810,018
Intangible Plant - Common (Excluding CC&B)	5,280,910	6,571,108	5,926,009	6,571,108	1,084,594	1,084,594	0	7,655,702	7,113,405	1,203,187	0	8,858,889	8,257,296
Intangible Plant - CC&B	8,595,180	8,600,309	8,597,745	8,600,309	285,676	285,676	0	8,885,985	8,743,147	0	0	8,885,985	8,885,985
Acquisition Adjustment	97,266	97,266	97,266	97,266	0	0	0	97,266	97,266	0	0	97,266	97,266
Total Gas Plant	\$297,533,725	\$313,780,136	\$305,656,937	\$299,793,264	\$20,167,229	\$3,604,542	(\$3,604,542)	\$316,355,951	\$308,074,611	\$22,747,480	(\$3,601,905)	\$335,501,526	\$325,928,741

MONTANA-DAKOTA UTILITIES CO.
GAS UTILITY - NORTH DAKOTA
CLASS COST OF SERVICE STUDY
PLANT ALLOCATION

Mains:
70% demand
30% customer

	Total	Allocation		Rate 71	Rate 81	Rate 82		Heskett
303 General Intangible	\$6,706,827							
	4,514,131	Factor No. 3 - DK Sales		276,279	15,349	1,243,259		
	2,192,696	Directly Assigned - Hankinson (Rate 71 = 18%, Rate 81 = 1%, Rate 82 = 81%)		118,406	6,578	532,825		
374.1 Land	967,303	Factor No. 13 - Distribution Mains		394,685	21,927	1,776,084		
	45,000	Hesket Pipeline						
374.2 Rights of Way	493,986	Factor No. 13 - Distribution Mains						
375 Structures & Improvements	855,814	Factor No. 40 - Distribution Mains		Rate 64	Rate 70 L	Rate 82		Heskett
	524,062	Hesket Pipeline		17,744	20,154	31,745		162,583
	232,262	Directly Assigned		25,349	8,637	13,605		69,679
	99,490	Directly Assigned				45,350		232,262
376 Mains	144,716,331	Factor No. 2-Peak Design Day at Distribution						
70% Demand	85,062,651	Factor No. 8-Average Customers at Distribution		Rate 65	Rate 82			Heskett
30% Customer	36,455,422	Directly Assigned		592,642	1,269,815	1,862,457		14,376,323
	2,660,654	Hesket Pipeline		253,990	544,207	798,197		6,161,281
	20,537,604	Directly Assigned		846,632	1,814,022	2,660,654		20,537,604
378 Meas. & Reg. Equip. - General	3,045,873	Factor No. 40 - Distribution Mains Excluding Transmission Level Customers		Rate 70 L	Rate 71	Rate 81	Rate 82	
	2,639,185	Directly Assigned		31,635	48,115	7,233	197,698	
	406,688	Directly Assigned		13,558	20,621	3,100	84,728	
				45,194	68,735	10,333	282,426	406,688
379 Meas. & Reg. Equip. - City Gate	9,041,966	Factor No. 13 - Distribution Mains						
	8,183,765	Directly Assigned		Rate 64		Heskett		
	239,904	Hesket Pipeline		167,933		432,808		
	618,297	Directly Assigned		71,971		185,489		
				239,904		618,297		
380 Services	61,564,573	Factor No. 37 - Weighted Services Excluding Transmission Level Customers						
	61,055,263	Directly Assigned						
	509,310	Directly Assigned						
381 Meters	35,783,019	Factor No. 9 - Total Weighted Customers Excluding Large IT - Transmission Customers						
	35,728,039	Directly Assigned						
	54,980	Directly Assigned						
383 Service Regulators	5,273,728	Factor No. 9 - Total Weighted Customers Excluding Large IT - Transmission Customers						
	5,258,995	Directly Assigned						
	14,733	Directly Assigned						
385 Ind. Meas. & Reg. Station Equipment	2,151,607	Factor No. 40 - Distribution Mains Excluding Transmission Level Customers		Rate 64	Rate 71	Rate 82		Heskett
	779,338	Directly Assigned		69,562	256,325	115,461		519,241
	630,496	Directly Assigned		29,812	109,853	49,483		222,532
	741,773	Directly Assigned		99,374	366,178	164,944		741,773
386 Property on Customer Premise	1,667	Factor No. 13 - Distribution Mains						

Identification of Direct Plant to Classification:

Direct Acct. 303:

	Rate 71	Rate 81	Rate 82
Demand	276,279	15,349	1,243,259
Customer	118,406	6,578	532,825
	394,685	21,927	1,776,084

Acct.374.1:

	Heskett
Demand	31,500
Customer	13,500
	45,000

Direct Acct. 375:

	Rate 64	Rate 70 L	Rate 82
Demand	17,744	20,154	31,745
Customer	7,605	8,637	13,605
	25,349	28,791	45,350
			99,490

Direct Acct. 376:

	Rate 65	Rate 82	Heskett
Demand	592,642	1,269,815	1,862,457
Customer	253,990	544,207	798,197
	846,632	1,814,022	2,660,654

Direct Acct. 378:

	Rate 70 L	Rate 71	Rate 81	Rate 82
Demand	31,635	48,115	7,233	197,698
Customer	13,558	20,621	3,100	84,728
	45,194	68,735	10,333	282,426

Direct Acct. 379:

	Rate 64	Heskett
Demand	167,933	432,808
Customer	71,971	185,489
	239,904	618,297

direct customer - rate 65

direct customer - rate 65

direct customer - rate 65

Direct Acct. 385:

	Rate 64	Rate 71	Rate 82
Demand	69,562	256,325	115,461
Customer	29,812	109,853	49,483
	99,374	366,178	164,944
			630,496

MONTANA-DAKOTA UTILITIES CO.
GAS UTILITY - NORTH DAKOTA
CLASS COST OF SERVICE STUDY
PLANT ALLOCATION

Mains: 70% demand
30% customer

Identification of Direct Plant to Classification:

<u>Direct Acct. 387:</u>		Heskett
Rate 65		<u>75,245</u>
Demand	35,207	
Customer	15,089	<u>32,248</u>
	50,296	107,493

387 Catholic Protection & Other Equipment	2,472,493	Factor No. 40 - Distribution Mains Excluding
	2,314,704	Transmission Level Customers
	50,296	Directly Assigned
	107,493	Heskett Pipeline
Distribution Plant - less Heskett	<u>244,085,931</u>	
Total Production Distribution Plant	<u>\$266,368,360</u>	

**Montana-Dakota Utilities Co.
Gas Utility - North Dakota
Distribution Plant - Direct Assignments**

Account	Description	Customer Class	Rate	Average
375	Structures & Improvements	Large IT	82	45,350
		Large Firm	70	28,791
		Air Force Delivery	64	25,349
				<u>99,490</u>
376	Mains	Large IT	82	1,814,022
		Minot AFB Distribution	65	846,632
				<u>2,660,654</u>
378	Meas. & Reg. Equip.-General	Large Firm	70	45,194
		Small IT	71	68,735
		Small IT	81	10,333
		Large IT	82	282,426
				<u>406,688</u>
379	Meas. & Reg.-City Gate	Minot AFB Delivery	64	239,904
380	Services Customer Component	Large IT	82	0
		Minot AFB Distribution	65	509,310
				<u>509,310</u>
381	Meters Customer Component	Minot AFB Distribution	65	54,980
383	Service Regulators Customer Component	Minot AFB Distribution	65	14,733
385	Ind. Meas. & Reg. Station Equip.	Small IT	71	366,178
		Large IT	82	164,944
		Air Force Delivery	64	99,374
				<u>630,496</u>
387.1	Cathodic Protection Equip.	Minot AFB Distribution	65	50,296

Locations 712000 & 26ND -MAFB
As of 12/31/19

Description

00001 Montana Dakota Utilities

2 Natural Gas		<u>Plant In Service</u>	<u>Accumulate Depr.</u>	<u>Net Plant</u>	<u>YTD Depr</u>	
376	376-G-00003-MAFB Mains	\$846,631.86	-\$56,502.22	790,129.64	21,369.15	
380	380-G-00003-MAFB Services	\$509,309.65	-\$99,870.81	409,438.84	32,161.68	
381	381-G-00003-MAFB Meters	\$54,979.83	-\$17,067.29	37,912.54	1,874.88	
383	383-G-00003-MAFB Service Regulators	\$14,732.66	-\$2,352.19	12,380.47	216.60	
3871	387-G-00003-MAFB Cathodic Protect	\$50,295.69	-\$20.89	50,274.80	781.69	
390	390-G-00003-MAFB Structures	\$136,867.72	-\$37,047.63	99,820.09	3,312.24	
3922	392-G-00003-MAFB Trans Equip	\$32,324.50	-\$8,963.75	23,360.75	1,328.54	
3941	394-G-00003-MAFB Tools & Equip	\$5,172.50	-\$3,094.00	\$2,078.50	290.64	
397	397-G-00003-MAFB Rdio Com Eqp-Fixed	\$11,703.12	-\$2,570.14	9,132.98	732.60	5,664.02
2 Natural Gas		<u>\$1,662,017.53</u>	<u>(227,488.92)</u>	<u>1,434,528.61</u>	<u>62,068.02</u>	
<u>Acct. 390 - 397:</u>		\$186,067.84	-\$51,675.52	\$134,392.32	\$5,664.02	

Worksheet for Projected Accum. Res. By Account and Projected Depreciation by Account--North Dakota Gas

	Average 2020 Plant	Depr. Rate	Total 2020 Deprec.	Retirements	Projected 2020 Accum Dep.	Average 2021 Plant	2.12%	Total 2021 Deprec.	Retirements	Projected 2021 Accum Dep.	Accum. Res Average
Transmission Plant	2,000,051	2.12%	42,401	0	573,562	2,000,051	2.12%	42,401	0	615,963	594,763
Distribution Plant											
Land	987,303	0.00%	0	0	0	987,303	0.00%	0	0	0	0
Rights of Way	496,668	3.44%	17,085	(2,697)	103,660	493,966	3.44%	16,993	(2,667)	117,986	110,823
Gwinner	0	3.44%	0	0	0	0	3.44%	0	0	0	0
Structures & Improvements	626,937	3.44%	21,567	(3,404)	220,816	623,552	3.44%	21,450	(3,367)	238,899	229,858
Heskett III	232,262	3.44%	7,990	0	34,338	232,262	3.44%	7,990	0	42,328	36,333
Gwinner	0	3.44%	0	0	0	0	3.44%	0	0	0	0
Mains	117,497,067	3.44%	4,075,174	(619,038)	43,062,599	124,178,727	3.44%	4,305,025	(649,816)	46,717,808	44,890,201
Heskett III	20,537,604	3.44%	706,494	0	3,091,118	20,537,604	3.44%	706,494	0	3,797,612	3,444,365
Gwinner	0	3.44%	0	0	0	0	3.44%	0	0	0	0
Meas. & Reg. Equip. - General	2,371,378	3.44%	81,575	(10,854)	758,115	3,045,873	3.44%	104,778	(14,745)	848,148	803,132
Meas. & Reg. Equip. - City Gate	7,436,493	3.44%	255,815	(39,301)	1,072,338	8,423,669	3.44%	289,774	(41,007)	1,321,105	1,196,722
Heskett III	618,297	3.44%	21,269	0	121,364	618,297	3.44%	21,269	0	142,633	131,999
Gwinner	0	3.44%	0	0	0	0	3.44%	0	0	0	0
Services	56,923,628	3.44%	1,958,173	(286,668)	37,771,249	61,564,573	3.44%	2,117,821	(318,033)	39,571,037	38,671,143
Meters	33,840,724	3.44%	1,164,121	(178,605)	12,663,621	35,783,019	3.44%	1,230,936	(186,844)	13,707,713	13,185,667
Service Regulators	4,940,924	3.44%	169,968	(26,139)	1,565,185	5,273,728	3.44%	181,416	(27,219)	1,719,382	1,642,284
Ind. Meas. & Reg. Station Equipment	1,360,826	3.44%	46,812	(7,083)	377,730	1,409,834	3.44%	48,498	(7,612)	418,616	398,173
Heskett III	741,773	3.44%	25,517	0	113,672	741,773	3.44%	25,517	0	139,189	126,431
Property on Customer Premise	1,676	3.44%	58	(9)	1,729	1,667	3.44%	57	(9)	1,777	1,753
Cathodic Protection & Other Equipment	2,157,214	3.44%	74,208	(11,168)	931,546	2,365,000	3.44%	81,356	(12,126)	1,000,776	966,161
Heskett III	107,493	3.44%	3,698	0	16,714	107,493	3.44%	3,698	0	20,412	18,563
Distribution Plant	\$250,858,267		\$8,629,524	(\$1,194,966)	\$101,905,794	\$266,368,360		\$9,163,072	(\$1,263,445)	\$109,805,421	\$106,855,608
General Plant	\$15,239,503		\$619,524	(\$1,982,553)	\$1,423,060	\$14,802,938		\$615,282	(\$1,860,850)	\$177,492	\$800,276
Intangible Plant - General	4,366,348		253,019	0	1,521,100	4,514,131		270,719	0	1,791,819	1,656,460
Intangible Plant - Direct (Gwinner)	0		0	0	0	0		0	0	0	0
Intangible Plant - Direct (Hankinson)	2,192,696		56,099	0	701,692	2,192,696		56,099	0	757,791	729,742
Common Plant	17,463,928		540,258	(427,023)	5,518,708	18,810,018		607,855	(477,610)	5,648,953	5,583,831
Intangible Plant - Common (Excluding CC)	7,113,405		430,370	0	4,602,400	8,257,296		624,667	0	5,227,067	4,914,734
Intangible Plant - CC&B	8,743,147		591,341	0	4,297,486	8,885,985		591,341	0	4,888,827	4,593,157
Amortization of Gain	97,266		2,821	0	77,772	97,266		2,821	0	80,593	79,183
Acquisition Adjustment	\$308,074,611		11,165,050	(3,604,542)	120,621,574	325,928,741		11,974,257	(3,601,905)	128,993,926	124,807,754

Identification of Heskett Pipeline and Hankinson Pipeline to Classifi

Heskett Pipeline - Reserve:		Acct 375	Acct 376	Acct 379	Acct 385	Acct 387
Demand	26,833	2,411,055	92,399	86,502	12,994	12,994
Customer	11,500	1,033,310	39,800	37,929	5,569	5,569
	38,333	3,444,365	131,999	126,431	18,563	18,563

Heskett Pipeline - Depreciation:		Acct 375	Acct 376	Acct 379	Acct 385	Acct 387
Demand	5,593	494,546	14,888	17,862	2,589	2,589
Customer	2,397	211,948	6,381	7,655	1,109	1,109
	7,990	706,494	21,269	25,517	3,698	3,698

Hankinson - Reserve Acct 303-		Rate 71	Rate 81	Rate 82
Demand	91,948	5,108	413,764	
Customer	39,406	2,189	177,327	
	131,354	7,297	591,091	729,742

Hankinson - Depr. Acct 303-		Rate 71	Rate 81	Rate 82
Demand	7,069	393	31,808	
Customer	3,029	168	13,632	
	10,098	561	45,440	56,099

1/ Fully depreciated

General and Common Projected Depreciation Expense:

General	252,877
Common	513,578
	11,419,075

**MONTANA-DAKOTA UTILITIES CO.
GAS UTILITY - NORTH DAKOTA
CUSTOMER ADVANCES FOR CONSTRUCTION
WORKPAPER - 2021**

		<u>Residential</u>	<u>Small General</u>	<u>Large General</u>	<u>Small Interruptable</u>	<u>Large Interruptable</u>	<u>Total</u>
% of Total: 1/		42.76%	3.58%	33.80%	12.98%	6.88%	100.00%
Customer Advance:		(3,757,266)	(314,570)	(2,969,962)	(1,140,536)	(604,537)	(8,786,871)
Demand	70%	(2,630,086)	(220,199)	(2,078,973)	(798,375)	(423,176)	(6,150,809)
Customer	30%	(1,127,180)	(94,371)	(890,989)	(342,161)	(181,361)	(2,636,062)

1/ Based on 2 year average (2018 and 2019) of customer advances assigned to customer class.

MONTANA-DAKOTA UTILITIES CO.
 GAS UTILITY - NORTH DAKOTA
 CLASS COST OF SERVICE STUDY
 ALLOCATION FACTORS - PROJECTED 2021

Rate	Customer Class	Factor	Factor	Factor	Factor	Factor	Factor	Factor	Factor	Factor	Factor	Factor
		No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	No. 8	No. 9	No. 17		
		Projected DK Throughput	Design Day Peak	DK Sales Projected	Average Customers	Total Weighted Customers	Average Res & Firm Gen Customers	Average Customers at Distribution	Total Weighted Customers Ex. LG IT Trans.	Weighted Services Distribution		
60	Residential Gas Service	8,619,479	90,662	8,619,479	98,125	98,125	98,125	98,125	98,125	98,125		
64	Minot Air Force Base	369,780	0	369,780	1	0	0					4
64	Air Force-Distribution PAR Site	36,425	0	36,425	1							
64	Air Force-Distribution PAR Site	26,770	0	26,770	1							
		432,975	0	432,975	3	125	0	0	125			4
70	Firm General Service											
	Firm General-Small	2,014,211	22,885	2,014,211	11,499	13,799	11,499	11,499	13,799	12,994		
	Firm General-Large	6,505,434	58,193	6,505,434	5,204	37,989	5,204	5,204	37,989	8,587		
	Subtotal Firm	8,519,645	81,078	8,519,645	16,703	51,788	16,703	16,703	51,788	21,581		
71	Small Interruptible Sales	744,025	4,829	744,025	104	3,120	104	104	3,120	445		
81	Small Interruptible Transport	1,015,084	6,561		61	1,830	61	61	1,830	261		
	Subtotal Small IT	1,759,109	11,390	744,025	165	4,950	0	165	4,950	706		
85	Large Interruptible Sales	563,030	1,454	563,030	2	61	2	2	61	8		
82	Large Interruptible Transport	5,867,109	2,054		16	492	5	5	154	62		
	Subtotal Large IT	6,430,139	3,508	563,030	18	553	0	7	215	70		
	Total North Dakota Gas	25,761,347	186,638	18,879,154	115,014	155,541	114,828	115,000	155,203	120,486		

**MONTANA-DAKOTA UTILITIES CO.
GAS UTILITY - NORTH DAKOTA
EMBEDDED COST OF SERVICE STUDY
PROJECTED 2021
DK THROUGHPUT - FACTOR NOS. 1 & 3**

	Projected Dk
Residential - MDU	8,467,441
Residential - Wahpeton	152,038
Total Residential	<u>8,619,479</u>
Air Force Delivery System	
Minot Air Force Base-Rate 64	369,780
Air Force PAR Site-Rate 64	36,425
Air Force PAR Site-Rate 64	26,770
Minot Air Force	<u>432,975</u>
Firm General-Small - MDU	1,949,179
Firm General-Small -Wahpeton	65,032
Firm General-Large - MDU	6,429,304
Firm General-Large -Wahpeton	76,130
Small Interruptible Sales - MDU	514,844
Small Interruptible Sales - Wahpeton	229,181
Small Interruptible Transport - MDU	1,015,084
Large Interruptible Sales - Wahpeton	563,030
Large Interruptible Transport - MDU	4,741,919
Large Interruptible Transport - Wahpeton(cargill)	1,125,190
Total Projected Throughput Factor #1	<u>25,761,347</u>

MONTANA-DAKOTA UTILITIES CO.
GAS UTILITY - NORTH DAKOTA
EMBEDDED COST OF SERVICE STUDY
PROJECTED 2021
DESIGN DAY PEAK DELIVERIES - FACTOR NO. 2

	Res.		Total Res	Sm. Firm		Total Small Firm	Lg Firm		Total Large Firm	Small IT		Total		
	MDU	Wahp.		Gen. - MDU	Gen. - Wahp.		Sales	Transport		Sales	Transport			
Use per Degree Day per customer 1/	0.00999	0.00981		0.02172	0.03107		0.11941	0.03107						
Multiplied by: Design Day Degree Days	88	91		88	91		88	91						
Heating use per day per customer	0.87912	0.89271		1.91136	2.82737		10.50808	2.82737						
Daily Baseload per customer 1/	0.04486	0.02924		0.05012	0.30426		0.90499	0.30426						
Total Design Day Use/Customer	0.92398	0.92195		1.96148	3.13163		11.41307	3.13163						
Projected Customers	96,225	1,900		11,217	282		5,059	145						
Total Design Day Use	88,910	1,752	90,662	22,002	883	22,885	57,739	454	58,193			171,740		
Class Ratio			52.79%			13.35%			33.88%					
Interruptible														
Total Peak Day Use			90,662			22,885			58,193	4,829	6,561	1,454	2,054	14,898
Distribution Level Peak Dk			90,662			22,885			58,193	4,829	6,561	1,454	2,054	186,638

1/ Regression Analysis supporting weather normalized volumes.

Rate 71 - Small IT Sales

	Heat Sensitive MDU	Heat Sensitive Wahp.	Non-Heat Sensitive MDU	Non-Heat Sensitive Wahp.
Use per Degree Day per customer 1/	0.51274	1.93366		
Multiplied by: Design Day Degree Days	88	91		
Heating use per day per customer	45.12112	175.96306		
Daily Baseload per customer 1/	2.73917	13.47085		
Total Design Day Use/Customer	47.86029	189.43391		
Projected Customers	46	9		
Total Design Day Use	2,202	1,705	525	397

Rate 85 - Large IT Sales

	Heat Sensitive Wahp.	Non-Heat Sensitive Wahp.
Use per Degree Day per customer 1/	1.93366	
Multiplied by: Design Day Degree Days	91	
Heating use per day per customer	175.96306	
Daily Baseload per customer 1/	13.47085	
Total Design Day Use/Customer	189.43391	
Projected Customers	1	
Total Design Day Use	189	1,265

Rate 81 - Small IT Transport

	Heat Sensitive	Non-Heat Sensitive
Use per Degree Day per customer 1/	1.22905	
Multiplied by: Design Day Degree Days	88	
Heating use per day per customer	108.15640	
Daily Baseload per customer 1/	13.29749	
Total Design Day Use/Customer	121.45389	
Projected Customers	45	
Total Design Day Use	5,465	1,096

Rate 82 - Large IT Transport

	Heat Sensitive	Non-Heat Sensitive
Use per Degree Day per customer 1/	6.26526	
Multiplied by: Design Day Degree Days	88	
Heating use per day per customer	551.34288	
Daily Baseload per customer 1/	302.04486	
Total Design Day Use/Customer	853.38774	
Projected Customers	1	
Total Design Day Use	853	1,201

1/ Regression Analysis supporting weather normalized volumes.

Factor #2

MONTANA-DAKOTA UTILITIES CO.
GAS UTILITY - NORTH DAKOTA
EMBEDDED COST OF SERVICE STUDY
PROJECTED 2021
CUSTOMERS - FACTORS NO. 4, 5, 8, 9
SERVICES - FACTOR NO. 17, 37

	Total	Residential	Small Firm		AFB Delivery	MAFB Distribution	Small IT		Large IT		Factor #4	Factor #8	Factor #5	Factor #9
			General	Firm General			Sales	Transport	Sales	Transport				
Customers - MDU	112,659	96,225	11,217	5,059	3	0	87	61	0	7				
Customers - Wahpeton	2,355	1,900	282	145	0	0	17	0	2	9				
Total Customers	115,014	98,125	11,499	5,204	3	0	104	61	2	16				
Less: Transmission Customers 1/ Average Customers at Distribution	14	0	0	0	3	0	0	0	0	11				
Multipled by: Weighting Factor 1/ Weighted Customers at Distribution	155,078	1	1.2	7.3	41.7	0	30.0	30.0	30.7	30.7				
Weighted Transmission Customers	463	0	13,799	37,989	0	0	3,120	1,830	61	154				
Total Weighted Customers	155,541	98,125	13,799	37,989	125	0	3,120	1,830	61	492				
Total Weighted Customers less Large IT Trans.	155,203	98,125	13,799	37,989	125	0	3,120	1,830	61	154				
Services: 2/ Multipled by: Weighting Factor	120,486	1	1.13	1.65	1.24	1.24	4.28	4.28	3.87	3.87				
Total Weighted Services		98,125	12,994	8,587	4	0	445	261	8	62				
Total Customers	115,014	98,125	11,499	5,204	3	0	104	61	2	16				
Less: Transmission Customers 1/ Average Customers at Distribution	14	0	0	0	3	0	0	0	0	11				
Multipled by: Weighting Factor	115,000	98,125	11,499	5,204	0	0	104	61	2	5				
Total Weighted Services Excluding Transmission Customers	120,439	1	1.13	1.65	1.24	1.24	4.28	4.28	3.87	3.87				

1/ Based on average installed 2019 meter costs.
2/ Weighting for gas service lines is based on a ~90% model representation of the actual service lines. Service lines are not fully represented in the Company's GIS because not all premise ID's are present.

**MONTANA-DAKOTA UTILITIES CO.
NORTH DAKOTA
AVERAGE INSTALLED METER COSTS
2020 RESIDENTIAL**

	<u>ND Number of Meters</u>	<u>Average Meter Cost</u>	<u>Total</u>	<u>Average Weighted Cost</u>	<u>Class Weighting</u>
Residential - Rate 60					
Group 1 meters - 250 size	93,927	\$275	\$25,789,536		
Group 1 meters - 425 size	1,070	\$490	\$524,814		
Group 2 meters - 630 size	152	\$817	\$124,243		
Group 2 Meters - Size 750/AL800	28	\$1,412	\$39,537		
Group 2 Meters - Size >1000	14	\$1,412	\$19,768		
Total	<u>95,191</u>		<u>\$26,497,899</u>		
Residential Propane Rate 90					
Group 1 Meters - Size 250	269	\$275	\$73,859		
Total	<u>269</u>		<u>\$73,859</u>		
Residential Rate 60 (Gwinner Rate)					
Group 1 Meters - Size 250	155	\$275	\$42,558		
Group 1 Meters - Size 425	16	\$490	\$7,848		
Total	<u>171</u>		<u>\$50,406</u>		
Rate 65 - Residential					
Group 1 meters - 250 size	1,825	\$275	\$501,090		
Group 1 meters - 425 size	21	\$490	\$10,300		
Group 2 meters - 630 size	7	\$815	\$5,704		
Group 2 Meters - Size 750/AL800	1	\$1,412	\$1,412		
Group 2 Meters - Size ≥1000	1	\$1,412	\$1,412		
Group 3 Meters - Sm Rot TC 2M/3M	1	\$4,306	\$4,306		
Total	<u>1,856</u>		<u>\$524,225</u>		
TOTAL METERS - Residential:	97,487		\$27,146,389	<u>\$278</u>	<u>1.0</u>

**MONTANA-DAKOTA UTILITIES CO.
NORTH DAKOTA
AVERAGE INSTALLED METER COSTS
2020 SMALL GENERAL**

	ND Number of Meters	Average Meter Cost	Total	Average Weighted Cost	Class Weighting
Small Firm Rate < 500 (Gwinner Rate 1/)					
Group 1 Meters - Size 250	19	\$275	\$5,217		
Group 1 Meters - Size 425	3	\$490	\$1,471		
Total	<u>22</u>		<u>\$6,688</u>		
Small Firm Propane Rate 92					
Group 1 Meters - Size 250	51	\$275	\$14,003		
Group 1 Meters - Size 425	15	\$490	\$7,357		
Total	<u>66</u>		<u>\$21,360</u>		
Small Firm Rate 70 < 500 CFH					
Group 1 Meters - Size 250	7428	\$275	\$2,039,506		
Group 1 Meters - Size 425	3468	\$490	\$1,700,985		
Group 2 Meters - Size 630	3	\$815	\$2,445		
Group 3 Meters - Lg Rot TC > 3M	1	\$5,114	\$5,114		
Total	<u>10,900</u>		<u>\$3,748,050</u>		
Small Firm Contracted Demand Rate 74 < 500 CFH (Cycle Billed)					
Group 1 Meters - Size 250	2	\$275	\$549		
Group 1 Meters - Size 425	15	\$490	\$7,357		
Total	<u>17</u>		<u>\$7,906</u>		
Seasonal Small Rate 72					
Group 1 Meters - Size 425	5	\$490	\$2,452		
Total	<u>5</u>		<u>\$2,452</u>		
Rate 65 - Firm General					
Group 1 meters - 250 size	184	\$275	\$50,521	Small	
Group 1 meters - 425 size	75	\$490	\$36,786	Small	
Total	<u>259</u>		<u>\$87,307</u>		
TOTAL METERS - Small General:	11,269		3,873,763	<u>\$344</u>	<u>1.2</u>

**MONTANA-DAKOTA UTILITIES CO.
NORTH DAKOTA
AVERAGE INSTALLED METER COSTS
2020 LARGE GENERAL**

	ND Number of Meters	Average Meter Cost	Total	Average Weighted Cost	Class Weighting
Large Firm General Contracted Demand					
Service Rate 74 > 500 CFH (Cycle Billed)					
Group 2 Meters - Lrg diaph	1	\$1,412	\$1,412		
Group 2 Meters - Size >1000	1	\$1,412	\$1,412		
Group 2 Meters - Size 630	8	\$815	\$6,519		
Group 3 Meters - Lg Rot Cor > 3M	3	\$8,526	\$25,577		
Group 3 Meters - Sm Rot TC 2M/3M	1	\$4,306	\$4,306		
Total	14		\$39,227		
Large Firm General - Rate 70 > 500 CFH					
Group 1 Meters - Size 250	1	\$275	\$275		
Group 1 Meters - Size 425	2	\$490	\$981		
Group 2 Meters - Lrg diaph	31	\$1,412	\$43,773		
Group 2 Meters - Lrg diaph w/Corr	1	\$3,547	\$3,547		
Group 2 Meters - Size >1000	1,088	\$1,412	\$1,536,289		
Group 2 Meters - Size >1000 W/Corr	5	\$3,547	\$17,734		
Group 2 Meters - Size 630	1,356	\$818	\$1,109,371		
Group 2 Meters - Size 630 w/Corr	3	\$2,950	\$8,849		
Group 2 Meters - Size 750/AL800	1,201	\$1,412	\$1,695,848		
Group 2 Meters - Size 750/AL800 w/Corr	2	\$3,547	\$7,094		
Group 2 Meters - Sm Rot CD 8C/15C	1	\$6,321	\$6,321		
Group 2 Meters - Sm Rot TC 8C/15C	62	\$4,192	\$259,933		
Group 3 Meters - Lg Rot Cor > 3M	50	\$8,130	\$406,487		
Group 3 Meters - Lg Rot TC > 3M	485	\$5,336	\$2,588,081		
Group 3 Meters - Lrg diaph	16	\$1,615	\$25,840		
Group 3 Meters - Lrg diaph w/corr	2	\$3,750	\$7,499		
Group 3 Meters - Sm Rot Cor 2M/3M	12	\$6,424	\$77,087		
Group 3 Meters - Sm Rot TC 2M/3M	459	\$4,302	\$1,974,471		
Total	4,777		\$9,769,478		
Large Firm General - Rate 70 >500 CFH					
(Gwinner Rate 1/)					
Group 2 Meters - Size >1000	4	\$1,412	\$5,648		
Group 2 Meters - Size 630	12	\$815	\$9,778		
Group 2 Meters - Sm Rot TC 8C/15C	1	\$4,192	\$4,192		
Group 3 Meters - Lg Rot TC > 3M	1	\$5,114	\$5,114		
Group 3 Meters - Sm Rot Cor 2M/3M	2	\$6,402	\$12,805		
Group 3 Meters - Sm Rot TC 2M/3M	1	\$4,306	\$4,306		
Total	21		\$41,844		
Large Firm Propane Rate 92					
Group 2 Meters - Size >1000	1	1412.03	\$1,412		
Group 2 Meters - Size 630	4	814.85	\$3,259		
Group 3 Meters - Lg Rot TC > 3M	1	5114.41	\$5,114		
Group2 Meters - Size 750/AL800	1	3546.73	\$3,547		
Total	7		\$13,332		
Seasonal Large Rate 72					
Group 2 Meters - Size >1000	6	1412.03	\$8,472		
Group 2 Meters - Size 750/AL800	2	1412.03	\$2,824		
Group 3 Meters - Lg Rot TC > 3M	1	5548.41	\$5,548		
Group 3 Meters - Sm Rot TC 2M/3M	2	4306.46	\$8,613		
Total	11		\$25,457		

**MONTANA-DAKOTA UTILITIES CO.
NORTH DAKOTA
AVERAGE INSTALLED METER COSTS
2020 LARGE GENERAL**

	<u>ND Number of Meters</u>	<u>Average Meter Cost</u>	<u>Total</u>	<u>Average Weighted Cost</u>	<u>Class Weighting</u>
Rate 65 - Firm General					
Group 2 meters - 630 size	46	\$815	\$37,483	Large	
Group 2 Meters - Size 750/AL800	76	\$1,412	\$107,314	Large	
Group 2 Meters - Size AC800	1	\$1,008	\$1,008	Large	
Group 2 Meters - Size \geq 1000	11	\$1,412	\$15,532	Large	
Group 3 Meters - Lg Rot TC > 3M	5	\$5,384	\$26,922	Large	
Group 3 Meters - Sm Rot TC 2M/3M	4	\$4,306	\$17,226	Large	
Group 3 Meters - Lrg diaphragm	5	\$1,412	\$7,060	Large	
Total	<u>148</u>		<u>\$212,546</u>		
TOTAL METERS - Large General:	4,978		\$10,101,884	<u>\$2,029</u>	<u>7.3</u>

**MONTANA-DAKOTA UTILITIES CO.
NORTH DAKOTA
AVERAGE INSTALLED METER COSTS
2020 SMALL IT**

	ND Number of Meters	Average Meter Cost	Total	Average Weighted Cost	Class Weighting
Small IT Sales & Transport -					
Rate 71					
Group 2 Meters - Size >1000	2	\$1,412	\$2,824		
Group 2 Meters - Size 630	1	\$815	\$815		
Group 3 Meters - Lg Rot Cor > 3M	26	\$8,497	\$220,926		
Group 3 Meters - Lg Rot TC > 3M	14	\$5,435	\$76,086		
Group 3 Meters - Lrg diaph w/corr	1	\$3,750	\$3,750		
Group 3 Meters - Sm Rot Cor 2M/3M	4	\$6,435	\$25,739		
Group 3 Meters - Sm Rot TC 2M/3M	3	\$4,306	\$12,919		
Group 4 Meters - SIC	1	\$8,475	\$8,475		
Group 4 Meters - Turbine Meter	2	\$20,113	\$40,225		
Total	<u>54</u>		<u>\$391,760</u>		
Small IT Sales & Transport -					
Rate 71 (Cycle Billed - Gwinner 1/)					
Group 3 Meters - Lg Rot Cor > 3M	3	\$8,944	\$26,831		
Group 3 Meters - Sm Rot Cor 2M/3M	1	\$6,435	\$6,435		
Total	<u>4</u>		<u>\$33,266</u>		
Small IT Sales & Transport -					
Rate 71 (John Deere Seeding Group)					
Group 3 Meters - Lg Rot Cor > 3M	1	\$9,274	\$9,274		
Total	<u>1</u>		<u>\$9,274</u>		
Small IT Sales & Transport -					
Rate 71 (Billable Charge)					
Group 3 Meters - Large diaph w/corr	1	\$3,750	\$3,750		
Group 3 Meters - Lg Rot Cor > 3M	24	\$8,379	\$201,098		
Group 3 Meters - Sm Rot Cor 2M/3M	2	\$6,435	\$12,870		
Group 4 Meters - Turbine Meter	4	\$19,905	\$79,622		
Total	<u>31</u>		<u>\$297,339</u>		
Small IT Transport Rate 81					
Group 3 Meters - Lg Rot Cor > 3M	30	\$8,253	\$247,592		
Group 4 Meters - Lg Rot Cor > 3M	1	\$9,497	\$9,497		
Group 4 Meters - Turbine Meter	2	\$19,698	\$39,396		
Total	<u>33</u>		<u>\$296,485</u>		
TOTAL METERS - Small IT:	123		<u>\$1,028,124</u>	<u>\$8,359</u>	<u>30.0</u>

**MONTANA-DAKOTA UTILITIES CO.
NORTH DAKOTA
AVERAGE INSTALLED METER COSTS
2020 LARGE IT**

	<u>ND Number of Meters</u>	<u>Average Meter Cost</u>	<u>Total</u>	<u>Average Weighted Cost</u>	<u>Class Weighting</u>
Large IT Rate 85					
Group 3 Meters - Lg Rot Cor > 3M	<u>1</u>	9273.57	<u>\$9,274</u>		
Total	<u>1</u>		<u>\$9,274</u>		
Large IT Transport Rate 82 (Tesoro)					
Group 4 Meters - Turbine Meter	<u>1</u>	\$23,905	<u>\$23,905</u>		
Total	<u>1</u>		<u>\$23,905</u>		
Large IT Transport Rate 82 (Hankinson Renewable)					
Group 3 Meters - Sm Rot Cor 2M/3M	<u>1</u>	\$10,049	<u>\$10,049</u>		
Total	<u>1</u>		<u>\$10,049</u>		
Large IT Transport Rate 82 (Bobcat, Gwinner, ND)					
Group 3 Meters - Lg Rot Cor > 3M	<u>1</u>	\$8,485	<u>\$8,485</u>		
Total	<u>1</u>		<u>\$8,485</u>		
Large IT Transport Rate 82					
Group 3 Meters - Lg Rot Cor > 3M	2	\$9,274	\$18,547		
Group 4 Meters - Turbine Meter	<u>2</u>	\$19,476	<u>\$38,951</u>		
Total	<u>4</u>		<u>\$57,498</u>		
Interruptable Gas Service Rate 71 - Wahpeton					
Group 2 Meters - Size AC800 w/corr	1	\$2,958	\$2,958		
Group 3 Meters - Lg Rot Cor > 3M	7	\$8,388	\$58,714		
Group 3 Meters - Lg Rot TC > 3M	7	\$5,500	\$38,501		
Group 3 Meters - Lrg diaph	1	\$1,412	\$1,412		
Group 4 Meters - Turbine Meter w/corr	<u>3</u>	\$20,177	<u>\$60,530</u>		
Total	<u>19</u>		<u>\$162,115</u>		
Transportation Service - Flex Contract (Cargill) - Wahpeton					
Group 2 Meters - Size >1000	2	1412.03	\$2,824		
Group 2 Meters - Size 750/AL800	2	1412.03	\$2,824		
Group 3 Meters - Lg Rot Cor > 3M	3	8284.09	\$24,852		
Group 3 Meters - Lrg diaphragm	1	1412.03	\$1,412		
Group 4 Meters - Turbine Meter w/corr	<u>1</u>	4306.46	<u>\$4,306</u>		
Total	<u>9</u>		<u>\$36,219</u>		
TOTAL METERS	36		\$307,544	<u>\$8,543</u>	<u>30.7</u>

**MONTANA-DAKOTA UTILITIES CO.
NORTH DAKOTA
AVERAGE INSTALLED METER COSTS
2020 AIR FORCE BASE**

	ND Number of Meters	Average Meter Cost	Total	Average Weighted Cost	Class Weighting
Air Force Firm Rate 64					
Group 3 Meters - Sm Rot Cor 2M/3M	1	\$6,435	\$6,435		
Total	1		\$6,435		
Air Force IT Rate 64					
Group 4 Meters - Turbine Meter	1	\$19,921	\$19,921		
Total	1		\$19,921		
Air Force IT Rate 64 (Pro Shop)					
Group 1 Meters - Size 250	2	\$275	\$549		
Total	2		\$549		
Air Force Firm Rate 64 (Cavalier/PAR Site)					
Group 3 Meters - Lg Rot Cor > 3M	1	\$8,485	\$8,485		
Total	1		\$8,485		
TOTAL METERS	5		\$35,390		
Less Pro Shop:	(2)		(549)		
Total Meters - Air Force:	3		\$34,841	\$11,614	41.7

North Dakota Gas Service Weights

RATE AND DESCRIPTION	Modeled Service Value	Modelled Service Average	Count of Customers	Cost per Service per Customer	Weights
Rate 600	\$105,953,407	\$1,135	93,391	\$1,135	
Rate 608	\$56,424	\$1,128	50	\$1,128	
Rate W01 - Residential	\$2,404,114	\$1,186	2,027	\$1,186	
	\$108,413,944	Weighted Average	95,468	\$1,136	1.00
Rate 648	\$2,814	\$1,407	2	\$1,407	
	\$2,814	Weighted Average	2	\$1,407	1.24
Rate 700	\$11,980,077	\$1,282	9,347	\$1,282	
Rate 708	\$8,633	\$1,233	7	\$1,233	
Rate720	\$6,978	\$1,396	5	\$1,396	
Rate 742	\$11,305	\$1,256	9	\$1,256	
Rate W01 - Small General	\$243,933	\$1,173	208	\$1,173	
	\$12,250,926	Weighted Average	9,576	\$1,279	1.13
Rate 701	\$9,056,713	\$1,891	4,789	\$1,891	
Rate 709	\$6,580	\$2,193	3	\$2,193	
Rate 721	\$25,679	\$1,834	14	\$1,834	
Rate 743	\$1,781	\$1,781	1	\$1,781	
Rate W01 - Large General	\$125,115	\$1,169	107	\$1,169	
	\$9,215,867	Weighted Average	4,914	\$1,875	1.65
Rate 710	\$165,064	\$4,855	34	\$4,855	
	\$165,064	Weighted Average	34	\$4,855	4.28
Rate 850	\$924	\$924	1	\$924	
Rate W03	\$78,117	\$4,595	17	\$4,595	
	\$79,041	Weighted Average	18	\$4,391	3.87

**MONTANA-DAKOTA UTILITIES CO.
EMBEDDED COST OF SERVICE STUDY
ALLOCATION OF PROJECTED REVENUES
GAS UTILITY - NORTH DAKOTA
PROJECTED 2021**

	Total	Residential		Firm		Air Force		Air Force		Small Interruptible		Large Interruptible	
		General-Small	General-Large	Firm	General-Large	Delivery	Force	Sales	Transport	Sales	Transport		
Billing Units	115,014	98,125	11,499	5,204	3	0	104	61	2	16			
Dk	25,761,347	8,619,479	2,014,211	6,505,434	432,975	-	744,025	1,015,084	563,030	5,867,109			
Total Revenue	\$114,748,655	58,718,404	12,566,909	34,627,306	1,296,755	0	3,050,593	817,156	2,246,365	1,425,167			
Commodity 1/	40,102,108	17,766,247	3,852,360	15,007,085	968,869	0	1,751,171	0	756,376	0			
Customer	41,429,370	24,324,678	4,517,423	8,947,581	110,373	0	925,651	817,156	361,341	1,425,167			
Demand 2/	33,217,177	16,627,479	4,197,126	10,672,640	217,513	0	373,771	0	1,128,648	0			

1/ Residual after deducting customer and demand revenues.
2/ Average cost of gas demand component by class.

	Total	Residential		Firm		Air Force		MAFB Distribution		Small Interruptible		Large Interruptible	
		General-Small	General-Large	Firm	General-Large	Delivery	Distribution	Sales	Transport	Sales	Transport		
Billing Units	115,017	98,125	11,499	5,204	3	3	3	104	61	2	16		
Dk	25,761,347	8,619,479	2,014,211	6,505,434	432,975	0	744,025	1,015,084	563,030	5,867,109			
Total Revenue	114,748,655	58,718,404	12,566,909	34,627,306	1,296,755	0	3,050,593	817,156	2,246,365	1,425,167			
Customer	41,429,370	24,324,678	4,517,423	8,947,581	110,373	0	925,651	817,156	361,341	1,425,167			

**MONTANA-DAKOTA UTILITIES CO.
EMBEDDED COST OF SERVICE STUDY
ALLOCATION OF COST OF GAS TO THE CLASSES
GAS UTILITY - NORTH DAKOTA
PROJECTED 2021**

	Projected 2021
Residential	
Energy	\$17,766,247
Demand	16,627,479
Total Residential	<u>\$34,393,726</u>
Firm General Small	
Energy	3,852,360
Demand	4,197,126
Total Small Firm General	<u>\$8,049,486</u>
Firm General Large	
Energy	15,007,085
Demand	10,672,640
Total Large Firm General	<u>\$25,679,725</u>
Air Force	
Energy	\$968,869
Demand	217,513
Total Air Force	<u>\$1,186,382</u>
Small Interruptible	
Energy	\$1,751,171
Demand	373,771
Total Small Inter.	<u>\$2,124,942</u>
Large Interruptible	
Energy	\$756,376
Demand	1,128,648
Total Large Inter.	<u>\$1,885,024</u>
 Total Cost of Gas	 <u><u>\$73,319,285</u></u>

Total		
Cost of Gas	Energy	Demand 1/
\$73,319,285	\$40,102,107	\$33,217,178

Customer Class	Energy Projected Sales	Peak Day Design - Firm Interruptible - 100% LF
Residential	8,619,479	41.918462% 90,662
Firm General Small	2,014,211	9.795560% 22,885
Firm General Large	6,505,434	31.637386% 58,193
Air Force Sales	432,975	2.105655% 1,186
Small Interruptible - Sales	744,025	3.618361% 2,038
Small Interruptible - Transport	0	0.000000% 0
Large Interruptible - Sales	2,246,365	10.924577% 6,154
Large Interruptible - Transport	0	0.000000% 0
Total	<u>20,562,489</u>	<u>100.000001%</u> <u>181,118</u>

1/ Allocated on Peak Day Design for Firm plus 100% LF allocation to Interruptible

MONTANA-DAKOTA UTILITIES CO
O&M COSTS FOR CLASS STUDY
NORTH DAKOTA GAS

	Per Books	Projected 2021	%		
Transmission Expense	10,215	10,523			
Other Gas Supply	334,284	363,936			
Distribution Expenses					
Operation					
Load Dispatch	31,296	31,727	0.30%		
Mains and Services	2,131,855	2,197,599	20.78%		
Measuring Stations - General	168,309	173,439	1.64%		
Measuring Stations - Industrial	89,557	92,007	0.87%		
Measuring Stations - City Gate	138,129	142,770	1.35%		
Meters & House Regulators	418,734	431,482	4.08%		
Customer Installations	767,291	791,051	7.48%		
Other Gas Distribution	2,209,277	2,276,915	21.53%		
Rents	40,086	41,245	0.39%		
Supervision & Engineering	1,825,757	1,881,390	17.79%		
Total Operation Expense	7,820,291	8,059,625		76.21% Dist. Operation	
				23.79% Dist. Maintenance	
Maintenance					
Structures & Improvements	37,436	39,129	0.37%		
Mains	260,831	268,619	2.54%		
Measuring Stations - General	170,011	175,554	1.66%		
Measuring Stations - Industrial	80,400	82,489	0.78%		
Measuring Stations - City Gate	103,587	106,813	1.01%		
Services	273,254	281,310	2.66%		
Meters & House Regulators	395,257	407,159	3.85%		
Other Equipment	344,694	355,338	3.36%		
Supervision & Engineering	775,608	799,511	7.56%		
Total Maintenance Expense	2,441,078	2,515,922			
Total Distribution Expenses	10,261,369	10,575,547		10,261,369	10,575,547
Customer Accounts	136,834	147,005	5.30%		
Meter Reading	308,933	331,176	11.94%		
Customer Records & Collection	1,705,438	1,830,622	66.00%		
Uncollectible Accounts	302,244	324,519	11.70%		
Miscellaneous Customer Accounts	130,633	140,348	5.06%	2,584,082	2,773,670
Customer Service & Information	260,399	269,021			
Sales Expenses	180,699	149,928			
Administration & General Expenses	9,107,793	9,826,077			
	22,738,841	23,968,702			

MONTANA-DAKOTA UTILITIES CO.
O&M BY FERC ACCOUNT
Year 2019
Month (All)

Business Segment	FERC Account	FERC Description	Allocation Basis	Charging Responsibility	Charging Responsibility Description	Jurisdiction	Residential		Small Firm		Large Firm		Air Force		Small		Large	
							Rate 60	Rate 70	Rate 70	Rate 70	Rate 70	Rate 70	Rate 64	Rate 71, 81	Rate 85, 82			
Natural Gas	903	Cust Records & Collections		122	Bismarek Operations	North Dakota												
				125	Dakota Heartland Region		12,711											
				152	Dickinson Operations		3,053											
				155	Badlands Region		3,029											
				205	Minot District Manager		3,089											
				215	Mobridge District Manager		20,205											
				245	Williston District Manager		314											
				285	Jamestown District Manager		4,208											
				405	Great Plains Manager		67,614											
							4,348											
Subtotal -1	903		Customers - Average	129	District / Regional Offices		118,572	101,160	11,855	5,365	3	3	170	19				
			Aged Accts 30-60-90	711	Credit Collections		159,203	104,042	25,541	11,559	7	7	14,346	3,707				
			Customers - Average	712	Customer Services, Dir		83,455	71,201	8,344	3,776	2	2	120	13				
			Call Center Stats	713	Meridian - Cust Service Center		453,634	394,337	40,285	18,231	11	11	681	90				
			Customers - Average	714	Customer Development/Programs		150,926	128,763	15,089	6,829	4	4	217	24				
			Service Orders	920	Scheduling		83,779	63,833	9,267	5,669	107	107	4,607	297				
			Customers - Average		Office Services (Bill print, Postage)		365,924	312,190	36,585	16,557	10	10	525	57				
Subtotal -2	903			721	Enterprise Network & Telecommunications		1,296,920	1,074,366	135,111	62,621	140	140	20,495	4,188				
				752	Treas Serv Montana-Dakota Only		2,529											
				926	Enterprise Development & APP Integration		27,085											
				941	UG Controller		42,123											
							218,209											
Total	903		903-Other				289,947	240,792	30,104	13,926	29	29	4,233	862				
Class Allocation	903						1,705,438	1,416,319	177,070	81,912	172	172	24,898	5,068				
							100.00%	83.05%	10.38%	4.80%	0.01%	0.01%	1.46%	0.30%				

Accocation Basis	Description of Allocation Basis	Totals		Sm. Firm Gen.		Lrg Firm Gen.		Air Force		Sm Int.		Lrg Int.	
		Res.	Rate	Rate	Rate	Rate	Rate	Rate	Rate				
Customers - Average	Average Number of Customers in Test Year	115,014	98,125	11,499	5,204	3	3	165	18				
Aged Accts 30-60-90	Aged Accounts Receivable Data by Class	1,341,766	876,874	215,263	97,420	56	56	120,912	31,241				
Call Center Stats	Call Center Call Volume by Class	114,699	99,706	10,186	4,610	3	3	172	23				
Service Orders	Field Service Orders by Class	31,317	23861	3464	2119	40	40	1722	111				
903 Other	Sum of Results of Subtotals 1 and 2	1,415,492	1,175,526	146,965	67,986	143	143	20,665	4,206				

Montana-Dakota Utilities Co.
Minimum System Analysis

Jurisdiction ND
Begin Vintage 1994

Minimum System Study

Plastic Only	Diameter	Cost \$2019	Feet	Unit Cost \$2019
Plastic	1 1/4	\$ 956,493.58	167,162	\$ 5.72
Plastic	2	29,269,903.59	3,680,214	7.95
Plastic	3	305,167.37	68,107	4.48
Plastic	4	21,712,177.97	1,355,602	16.02
Plastic	6	9,948,835.91	453,287	21.95
Plastic	8	2,265,442.16	56,050	40.42
Plastic	12	26,699,482.01	311,947	85.59
Plastic	16	1,044,145.61	10,600	98.50
		92,201,648.22	6,102,969	

Steel Only	Diameter	Cost \$2019	Feet	Unit Cost \$2019
Steel	1 1/4	\$ 220,557.41	12,393	\$ 17.80
Steel	2	1,179,226.56	56,563	20.85
Steel	3	47,827.93	1,690	28.30
Steel	4	3,068,500.67	182,069	16.85
Steel	6	5,044,470.96	134,934	37.38
Steel	8	2,746,813.82	42,896	64.03
Steel	10	23,285,179.92	126,086	184.68
Steel	12	1,435,051.36	26,840	53.47
		\$ 37,027,628.63	583,471	

Material	Cost \$2019	Feet	Minimum Size Unit Cost	Customer Component	Percent
Plastic	92,201,648.22	6,102,969	\$ 7.95	48,538,835.66	
Steel	37,027,628.63	583,471	\$ 7.95	4,640,529.03	
	\$ 129,229,276.85			\$ 53,179,364.69	41%

Adjusted Minimum System

Minimum System Cost	\$ 53,179,364.69
Minimum System Serving Design Day Demand (%)	X 13.90%
Minimum System Serving Design Day Demand (Total)	= \$ 7,391,324.92
Remaining Customer Portion	\$ 45,788,039.77
Total Plastic & Steel Cost	\$ 129,229,276.85
	35.4%

Zero Intercept	Customer Component	Percent
\$ 4.01	24,467,385.61	
\$ 15.53	9,059,561.50	
5.01	\$ 33,526,947.11	26%