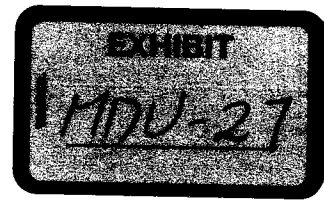


**MONTANA-DAKOTA UTILITIES CO.
ADVOCACY STAFF – MARC, LLC
DATA REQUEST DATED AUGUST 23, 2010
CASE NO. PU-10-124**



NDPSC-DR-045 What impact does minimum generation have on coal generation facilities in terms of longevity of plant?

Response:

Operating a coal-fired generating facility at sustained minimum generation levels can increase the potential for corrosion of steel components within the air heater and back pass equipment. This happens when the temperature falls below the dew point of the flue gas. The moisture will combine with sulfur dioxide and sulfur trioxide in the flue gas to form sulfuric acid which will damage the steel components. Within the Montana-Dakota fleet of generation facilities this is mitigated by limiting how far a unit is turned down and by the use of pre-heaters to warm the combustion air prior to the air heater. Operating at sustained minimum generation levels can also increase the water particle erosion to blades in the later stages of a steam turbine by shifting the point at which steam condenses into water droplets.

The greatest adverse impact to the longevity of a coal-fired generating facility is caused by cycling operations. Cycling operations include startup/shutdowns, on-line changes in generation levels, and high frequency generation level changes under automatic generation control. Thermal stresses caused by the accumulation of these cycling operations can lead to damage due to fatigue and result in increased maintenance costs and replacement of major components. The generation facilities within the Montana-Dakota fleet are less impacted by cycling operations because they are of an older vintage and more robust design, and have not been subjected to frequent startup/shutdowns.

**MONTANA-DAKOTA UTILITIES CO.
ADVOCACY STAFF – MARC, LLC
DATA REQUEST DATED AUGUST 23, 2010
CASE NO. PU-10-124**

NDPSC-DR-046 Was the additional wear and tear of minimum generation considered when MDU decided to add wind to its own generation fleet? Please explain.

Response:

No. The 50 MW of wind generation that Montana-Dakota owns is not expected to cause additional "wear and tear" on the Montana-Dakota system, as Diamond Willow and Cedar Hills do not significantly impact the dispatch levels of Montana-Dakota's thermal generators. The thermal generators and customer load are bid into the MISO day ahead market. Real-time pricing is used to settle differences between day ahead and real-time market conditions. The dispatch levels on Montana-Dakota's thermal generators are a function of MISO load forecasts and generation awards in the day ahead market. Wind generators in the MISO footprint, as price takers in the real time market, serve incremental load in excess of the day ahead market or offset generation awards from the day ahead market. While this intermittent generation will impact MDU's thermal generation through this offset, MDU owns 50 MW, or 0.65 percent, of the 7,600 MW of wind generators connected to the MISO system, and is in itself inconsequential.

**MONTANA-DAKOTA UTILITIES CO.
ADVOCACY STAFF – MARC, LLC
DATA REQUEST DATED AUGUST 23, 2010
CASE NO. PU-10-124**

**NDPSC-DR-047 What impact does minimum generation have on CO2 output?
Please explain with supporting documents.**

Response:

Overall, CO2 output, or total CO2 emissions, from Montana-Dakota's coal-fired generating facilities would be lower at minimum generation levels than at higher generation levels.

Operating a coal-fired generating facility at minimum generation, or load levels, compared to higher load levels would increase the CO2 emissions rate. This rate is usually referred to as the CO2 emissions intensity, calculated in tons of CO2 emitted per MW generated. The CO2 emissions intensity is the lowest at higher loads since these facilities are designed to run the most efficient at higher loads. If Montana-Dakota's coal-fired generating facilities were run at minimum generation levels, there would be an approximate average increase in CO2 emissions intensity of 10%, depending on the load range of the unit.

However, running Montana-Dakota's coal-fired facilities at minimum generation levels would result in a decrease in CO2 emissions for these facilities, even with an average 10% increase in the CO2 emissions intensity. Less coal is combusted to generate lower MW levels and, therefore, a lower amount of coal combusted would yield lower CO2 emissions. The amount of CO2 generated per ton of coal fired for operating at different load levels has a greater influence on total CO2 emissions from Montana-Dakota's facilities than the change in CO2 emissions intensity at different load levels.

**MONTANA-DAKOTA UTILITIES CO.
ADVOCACY STAFF – MARC, LLC
DATA REQUEST DATED AUGUST 23, 2010
CASE NO. PU-10-124**

NDPSC-DR-048 What is the efficiency loss between running a coal plant at full capacity verses minimum generation? Please show calculations of conclusions.

Response:

Energy efficiency of a coal-fired generating facility is usually measured by heat rate, the amount of energy in Btu's needed to produce a kWh of electricity. The combined full and minimum capacity heat rates for the Montana-Dakota coal-fired generating fleet are 12,062 Btu/kWh and 13,644 Btu/kWh respectively. The combined efficiency loss between full and minimum capacity is calculated $100 \times (13,644 - 12,062) / 12,062 = 13.1$ percent.

**MONTANA-DAKOTA UTILITIES CO.
ADVOCACY STAFF – MARC, LLC
DATA REQUEST DATED AUGUST 23, 2010
CASE NO. PU-10-124**

NDPSC-DR-049 Please provide a Schedule showing for each generation facility node, how many hours of negative real time pricing existed during the past year, by month?

Response:

Please see Attachment A.

Monthly Hours of Negative Real Time MISO Energy Pricing by Generation Facility Node

	BIGSTONE	COYOTE	CEDAR HILLS	DIAMOND WILLOW	GLEN ULLIN	GLENDIVE1	GLENDIVE2	HESKETT1	HESKETT2	LEWIS & CLARK	MILES CITY
Aug-09	56	55	N/A	54	N/A	54	54	55	55	54	53
Sep-09	46	51	N/A	52	52	52	52	52	52	51	52
Oct-09	23	22	N/A	1	22	20	20	22	22	22	21
Nov-09	20	25	N/A	18	22	18	18	22	22	18	18
Dec-09	4	10	N/A	3	5	4	4	5	5	4	4
Jan-10	13	24	N/A	11	13	11	11	13	13	11	11
Feb-10	1	1	N/A	1	1	1	1	1	1	1	1
Mar-10	26	25	N/A	24	25	25	25	25	25	25	25
Apr-10	49	108	N/A	59	67	60	60	67	67	58	60
May-10	44	44	N/A	38	38	38	38	38	38	36	38
Jun-10	34	35	30	30	30	30	30	31	30	30	30
Jul-10	19	22	18	18	21	18	18	22	21	18	18
TOTAL	335	422	48	309	296	331	331	353	351	328	331

**MONTANA-DAKOTA UTILITIES CO.
ADVOCACY STAFF – MARC, LLC
DATA REQUEST DATED AUGUST 23, 2010
CASE NO. PU-10-124**

NDPSC-DR-050 Did MDU consider allocating all MT wind farm costs to MT given MT's renewable requirement and MDU's desire to meet that requirement? If not, explain the reasons for the current approach taking by the Company.

Response:

No. Montana-Dakota operates all generation as system resources and allocates all generation resources, regardless of physical location, to the integrated jurisdictions of Montana, North Dakota and South Dakota.

Montana-Dakota's investment in renewable resources is first and foremost used and useful to meet the Company's generation requirements for its integrated system while also, over time, addressing the renewable standards in Montana as well as the renewable objectives in North Dakota and South Dakota. Montana-Dakota did not build renewable resource projects to meet renewable standards and objectives but to serve the energy needs of customers served by the integrated system. Renewable standards and objectives are a consideration in selecting the type and location of new generation resources, however, all resources are dedicated to serving customers of the integrated system. The location of Montana-Dakota's renewable energy projects was not a significant factor in the cost of the projects as in each instance the projects were sited in locations with excellent renewable energy resources close to existing transmission resources. On a projected 2010 basis, Montana-Dakota's investment in renewable generation on a system-wide basis is approximately nine percent of system capacity and the renewable resources provide about seven percent of total energy requirements.

**MONTANA-DAKOTA UTILITIES CO.
ADVOCACY STAFF – MARC, LLC
DATA REQUEST DATED AUGUST 23, 2010
CASE NO. PU-10-124**

NDPSC-DR-051 Provide a revenue requirement calculation for each wind farm facility included in the test year including all rate base and expense components.

Response:

Montana-Dakota has not performed a revenue requirement study for wind generation in total and a total cost of service is not maintained for any existing generation, including wind. Please see Response No. 082 for the revenue requirement for North Dakota electric operations for the 30 MW of wind generation installed in 2010.

**MONTANA-DAKOTA UTILITIES CO.
ADVOCACY STAFF – MARC, LLC
DATA REQUEST DATED AUGUST 23, 2010
CASE NO. PU-10-124**

NDPSC-DR-052 For each wind farm, provide a yearly cost per kWh from beginning to end of plant life.

Response:

Please see Attachment A for the analysis for the initial 19.5 MW of Diamond Willow, Attachment B for the Diamond Willow expansion (10.5 MW) and Attachment C for Cedar Hills. For the purposes of the analysis, Montana-Dakota used a 50 percent debt 50 percent equity ratio with a 6.845 percent debt cost and a 10.75 percent equity cost. This analysis does not reflect the fuel savings associated with the wind generation.

DIAMOND WILLOW WIND GENERATION PROJECT
PROJECTED INCOME STATEMENTS

2008 2009 2010 2011 2012 2013 2014 2015 2016 2017
Year 1 Year 2 Year 3 Year 4 Year 5 Year 6 Year 7 Year 8 Year 9 Year 10

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
OPERATIONS AND MAINTENANCE										
Escalator										
3%										
Labor	160,894	165,870	171,000	176,130	181,414	186,856	192,462	198,236	204,183	210,308
Benefits	31,991	32,980	34,000	35,020	36,071	37,153	38,267	39,415	40,598	41,816
Subcontract Labor	1,882	1,940	2,000	2,060	2,122	2,185	2,251	2,319	2,388	2,460
Materials	61,159	63,050	65,000	66,950	68,959	71,027	73,158	75,353	77,613	79,942
Office Supplies	7,527	7,760	8,000	8,240	8,487	8,742	9,004	9,274	9,552	9,839
Permits and Filing Fees	4,705	4,850	5,000	5,150	5,305	5,464	5,628	5,796	5,970	6,149
Annual Easements	48,927	50,440	52,000	53,560	55,167	56,822	58,526	60,282	62,091	63,953
Other	32,932	33,950	35,000	36,050	37,132	38,245	39,393	40,575	41,792	43,046
Total Operations and Maintenance	(350,015)	(360,840)	(372,000)	(383,160)	(394,655)	(406,494)	(418,689)	(431,250)	(444,187)	(457,513)
Interest Expense	1,277,614	1,102,533	929,470	808,448	706,945	619,990	562,082	519,441	477,501	435,431
Depreciation	1,997,567	1,997,567	1,997,567	1,997,567	1,997,567	2,000,067	2,002,567	2,005,067	2,007,567	2,010,067
PRE-TAX INCOME	(3,625,196)	(3,460,940)	(3,299,037)	(3,189,175)	(3,099,167)	(3,026,552)	(2,983,338)	(2,955,758)	(2,929,255)	(2,903,011)
Avg Equity Balance	18,664,922	16,107,129	13,578,819	11,810,785	10,327,911	9,057,562	8,211,563	7,588,615	6,975,902	6,361,301
Return on Equity - Pre-tax	(3,297,960)	(2,846,016)	(2,399,282)	(2,086,883)	(1,824,869)	(1,600,408)	(1,450,925)	(1,340,855)	(1,232,593)	(1,123,997)
Less: Production Tax Credit - Pre-tax	2,299,500	2,299,500	2,299,500	2,299,500	2,299,500	2,299,500	2,299,500	2,299,500	2,299,500	2,299,500
Total Revenue Requirement	\$(4,623,656)	\$(4,007,456)	\$(3,398,819)	\$(2,976,558)	\$(2,624,537)	\$(2,327,459)	\$(2,134,763)	\$(1,997,113)	\$(1,862,348)	\$(1,727,508)
Per kWh cost	\$ 0.069	\$ 0.060	\$ 0.051	\$ 0.045	\$ 0.039	\$ 0.035	\$ 0.032	\$ 0.030	\$ 0.028	\$ 0.026
NPV of Revenue Requirement	(4,253,633)	(3,391,702)	(2,646,375)	(2,132,122)	(1,729,517)	(1,411,006)	(1,190,614)	(1,024,703)	(879,085)	(750,179)
NPV over life	(28,873,079)									

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
	Year 11	Year 12	Year 13	Year 14	Year 15	Year 16	Year 17	Year 18	Year 19	Year 20	Year 21
OPERATIONS AND MAINTENANCE											
	Annual Escalator										
Labor	216,618	223,116	229,810	236,704	243,805	251,119	258,653	266,412	274,405	282,637	
Benefits	43,070	44,362	45,693	47,064	48,476	49,930	51,428	52,971	54,560	56,197	
Subcontract Labor	2,534	2,610	2,688	2,768	2,852	2,937	3,025	3,116	3,209	3,306	
Materials	82,340	84,810	87,355	89,975	92,674	95,455	98,318	101,268	104,306	107,435	
Office Supplies	10,134	10,438	10,751	11,074	11,406	11,748	12,101	12,464	12,838	13,223	
Permits and Filing Fees	6,334	6,524	6,720	6,921	7,129	7,343	7,563	7,790	8,024	8,264	
Annual Easements	65,872	67,848	69,884	71,980	74,140	76,364	78,655	81,014	83,445	85,948	
Other	44,337	45,667	47,037	48,448	49,902	51,399	52,941	54,529	56,165	57,850	
Total Operations and Maintenance	(471,238)	(485,376)	(499,937)	(514,935)	(530,383)	(546,295)	(562,683)	(579,564)	(596,951)	(614,859)	
Interest Expense	393,252	351,001	308,698	266,343	223,936	183,206	144,163	105,080	65,946	26,852	
Depreciation	2,012,567	2,015,067	2,017,567	2,020,067	2,022,567	1,923,190	1,925,690	1,928,190	1,930,690	1,930,690	
PRE-TAX INCOME	(2,877,057)	(2,851,444)	(2,826,202)	(2,801,345)	(2,776,886)	(2,652,691)	(2,632,537)	(2,612,835)	(2,593,587)	(2,572,402)	
Avg Equity Balance	5,745,094	5,127,844	4,509,834	3,891,063	3,271,531	2,676,487	2,106,107	1,535,142	963,416	392,289	
Return on Equity - Pre-tax	(1,015,118)	(906,054)	(796,856)	(687,523)	(578,057)	(472,917)	(372,134)	(271,249)	(170,229)	(69,315)	
Less: Production Tax Credit - Pre-tax											
Total Revenue Requirement	\$(3,892,175)	\$(3,757,498)	\$(3,623,058)	\$(3,488,869)	\$(3,354,943)	\$(3,125,607)	\$(3,004,671)	\$(2,884,083)	\$(2,763,816)	\$(2,641,717)	
Per kWh cost	\$ 0.058	\$ 0.056	\$ 0.054	\$ 0.052	\$ 0.050	\$ 0.047	\$ 0.045	\$ 0.043	\$ 0.041	\$ 0.040	
NPV of Revenue Requirement	(1,554,932)	(1,380,995)	(1,225,020)	(1,085,243)	(960,068)	(822,859)	(727,717)	(642,611)	(566,531)	(498,167)	
NPV over life											

DIAMOND WILLOW WIND GENERATION PROJECT

Depreciation Schedule
(000)

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
20 Year Life - Turbines										
15 Year Life - Pre-Construction Construction Property	1,997,567	1,997,567	1,997,567	1,997,567	1,997,567	1,997,567	1,997,567	1,997,567	1,997,567	1,997,567

BOOK DEPRECIATION

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Existing Assets (net of Accum. Depr.)	37,913,808									
Pre-Construction Costs	1,467,300									
Construction Property	60,850									
Depr. on Adjusted Fixed Assets	39,441,958	1,997,567	1,997,567	1,997,567	1,997,567	1,997,567	1,997,567	1,997,567	1,997,567	1,997,567

Total Book Depreciation

	1,997,567	1,997,567	1,997,567	1,997,567	1,997,567	1,997,567	1,997,567	1,997,567	1,997,567	1,997,567
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YEAR #

Year	1	2	3	4	5	6	7	8	9	10
Turbines	1,895,690	1,895,690	1,895,690	1,895,690	1,895,690	1,895,690	1,895,690	1,895,690	1,895,690	1,895,690
Pre-Construction Costs	97,820	97,820	97,820	97,820	97,820	97,820	97,820	97,820	97,820	97,820
Construction Property	4,057	4,057	4,057	4,057	4,057	4,057	4,057	4,057	4,057	4,057
1	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-
6	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
7	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
8	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
9	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
10	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
11	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
12	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
13	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
14	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
15	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
16	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
17	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
18	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
19	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
20	-	-	-	-	-	-	-	-	-	-
21	-	-	-	-	-	-	-	-	-	-
22	-	-	-	-	-	-	-	-	-	-
23	-	-	-	-	-	-	-	-	-	-
24	-	-	-	-	-	-	-	-	-	-
25	-	-	-	-	-	-	-	-	-	-
26	-	-	-	-	-	-	-	-	-	-
27	-	-	-	-	-	-	-	-	-	-
28	-	-	-	-	-	-	-	-	-	-
29	-	-	-	-	-	-	-	-	-	-
30	-	-	-	-	-	-	-	-	-	-

Total Book Depreciation

	1,997,567	1,997,567	1,997,567	1,997,567	1,997,567	1,997,567	1,997,567	1,997,567	1,997,567	1,997,567
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Book Value

	\$39,441,958	37,444,391	35,446,824	33,449,257	31,451,690	29,454,123	27,454,056	25,451,489	23,496,421	21,538,854	19,578,787
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20 Year Life - Turbines
15 Year Life - Pre-Construction
Construction Property

	Year 11	Year 12	Year 13	Year 14	Year 15	Year 16	Year 17	Year 18	Year 19	Year 20
Existing Assets (net of Accum. Depr.)	1,997,567	1,997,567	1,997,567	1,997,567	1,997,567	1,895,690	1,895,690	1,895,690	1,895,690	1,895,690
Pre-Construction Costs	97,820	97,820	97,820	97,820	97,820	-	-	-	-	-
Construction Property	4,057	4,057	4,057	4,057	4,057	-	-	-	-	-
Depr. on Adjusted Fixed Assets	39,441,958	39,441,958	39,441,958	39,441,958	39,441,958	39,441,958	39,441,958	39,441,958	39,441,958	39,441,958

BOOK DEPRECIATION

Year	YEAR #	11	12	13	14	15	16	17	18	19	20
Turbines		2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
Pre-Construction Costs		2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
Construction Property		2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
1		2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
2		2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
3		2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
4		2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
5		2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
6		2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
7		2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
8		2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
9		2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
10		2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
11		2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
12		2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
13		2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
14		2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
15		2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
16		2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
17		2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
18		2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
19		2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
20		2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
21		2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
22		2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
23		2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
24		2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
25		2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
26		2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
27		2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
28		2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
29		2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
30		2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500

Total Book Depreciation

	2,012,567	2,015,067	2,017,567	2,020,067	2,022,567	1,923,190	1,925,690	1,928,190	1,930,690	1,930,690	
Book Value	\$39,441,958	17,616,220	15,651,153	13,683,586	11,713,519	9,740,952	7,867,762	5,992,071	4,113,881	2,233,190	352,500

Year 13 Year 14 Year 15 Year 16 Year 17 Year 18 Year 19 Year 20

5 Year
 15 Year

TAX DEPRECIATION

MACRS	5 Year	Year 13	Year 14	Year 15	Year 16	Year 17	Year 18	Year 19	Year 20
MACRS	15 Year	5.9050%	5.9050%	5.9050%	2.9510%				
Estimated									
Construction Property/Turbines		53,593	53,593	53,593	51,796	50,000	50,000	50,000	40,000
Pre-Construction Costs		97,820	97,820	97,820	0	0	0	0	0
Total Tax Depreciation\Amortization		151,413	151,413	151,413	51,796	50,000	50,000	50,000	40,000

Balance Sheet DITs - Current Year
 Balance Sheet DITs - Accumulated

	YEAR#	13	14	15	16	17	18	19	20
Year Existing	Amount	730,786	731,765	732,744	732,838	734,520	735,499	736,478	740,394
1	37,913,808	(5,282,310)	(4,550,545)	(3,817,801)	(3,084,963)	(2,350,442)	(1,614,943)	(878,465)	(138,070)
2	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-
6	50,000	-	-	-	-	-	-	-	-
7	50,000	-	-	-	-	-	-	-	-
8	50,000	2,880	-	-	-	-	-	-	-
9	50,000	5,760	2,880	-	-	-	-	-	-
10	50,000	5,760	5,760	2,880	-	-	-	-	-
11	50,000	9,600	5,760	5,760	2,880	-	-	-	-
12	50,000	16,000	9,600	5,760	5,760	2,880	-	-	-
13	50,000	10,000	16,000	9,600	5,760	5,760	2,880	-	-
14	50,000	-	10,000	16,000	9,600	5,760	5,760	2,880	-
15	50,000	-	-	10,000	16,000	9,600	5,760	5,760	2,880
16	50,000	-	-	-	10,000	16,000	9,600	5,760	5,760
17	50,000	-	-	-	-	10,000	16,000	9,600	5,760
18	50,000	-	-	-	-	-	10,000	16,000	9,600
19	50,000	-	-	-	-	-	-	10,000	16,000
20	-	-	-	-	-	-	-	-	-
21	-	-	-	-	-	-	-	-	-
22	-	-	-	-	-	-	-	-	-
23	-	-	-	-	-	-	-	-	-
24	-	-	-	-	-	-	-	-	-
25	-	-	-	-	-	-	-	-	-
26	-	-	-	-	-	-	-	-	-
27	-	-	-	-	-	-	-	-	-
28	-	-	-	-	-	-	-	-	-
29	-	-	-	-	-	-	-	-	-
30	-	-	-	-	-	-	-	-	-

Total Tax Depreciation

	YEAR#	13	14	15	16	17	18	19	20
Estimated Percentage of Assets	100%	3,593	3,593	3,593	1,796	-	-	-	-
Year Existing	Amount	60,850	60,850	60,850	60,850	60,850	60,850	60,850	60,850
Total Tax Depreciation		3,593	3,593	3,593	1,796	0	0	0	0

DIAMOND WILLOW WIND GENERATION PROJECT

CAPITALIZATION DEBT AND EQUITY (000)

INITIAL INVESTMENT	<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>	<u>Year 6</u>	<u>Year 7</u>	<u>Year 8</u>	<u>Year 9</u>	<u>Year 10</u>	
TOTAL (Incl. DITs)	39,441,958	35,217,731	29,210,786	25,104,489	22,138,650	19,172,994	17,057,255	15,788,998	14,565,461	13,338,148	12,107,057
DEBT	19,720,979	17,608,865	14,605,393	12,552,245	11,069,325	9,586,497	8,528,628	7,894,499	7,282,731	6,669,074	6,053,529
EQUITY	19,720,979	17,608,865	14,605,393	12,552,245	11,069,325	9,586,497	8,528,628	7,894,499	7,282,731	6,669,074	6,053,529

Long-Term Debt Cost **6.845%**

	<u>Year 11</u>	<u>Year 12</u>	<u>Year 13</u>	<u>Year 14</u>	<u>Year 15</u>	<u>Year 16</u>	<u>Year 17</u>	<u>Year 18</u>	<u>Year 19</u>	<u>Year 20</u>
TOTAL (incl. DITs)	10,873,318	9,638,058	8,401,276	7,162,974	5,923,151	4,782,799	3,641,629	2,498,938	1,354,726	214,430
DEBT	5,436,659	4,819,029	4,200,638	3,581,487	2,961,576	2,391,399	1,820,814	1,249,469	677,363	107,215
EQUITY	5,436,659	4,819,029	4,200,638	3,581,487	2,961,576	2,391,399	1,820,814	1,249,469	677,363	107,215

Long.

DIAMOND WILLOW EXPANSION GENERATION PROJECT
PROJECTED INCOME STATEMENTS

(\$)

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Year 10
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 10
OPERATIONS AND MAINTENANCE											
Annual Escalator											
Labor	30,000	30,900	31,827	32,782	33,765	34,778	35,822	36,896	38,003	39,143	
Materials	35,000	36,050	37,132	38,245	39,393	40,575	41,792	43,046	44,337	45,667	
Permits and Filing Fees	2,000	2,060	2,122	2,185	2,251	2,319	2,388	2,460	2,534	2,610	
Annual Easements	28,000	28,840	29,705	30,596	31,514	32,460	33,433	34,436	35,470	36,534	
Other	1,000	1,030	1,061	1,093	1,126	1,159	1,194	1,230	1,267	1,305	
Total Operations and Maintenance	(96,000)	(98,880)	(101,846)	(104,902)	(108,049)	(111,290)	(114,629)	(118,068)	(121,610)	(125,258)	
Interest Expense	822,050	707,096	593,503	514,769	449,108	393,157	356,589	330,457	305,026	279,466	
Depreciation	1,270,000	1,270,000	1,270,000	1,270,000	1,270,000	1,272,500	1,275,000	1,277,500	1,280,000	1,282,500	
PRE-TAX INCOME	(2,188,050)	(2,075,976)	(1,965,349)	(1,889,671)	(1,827,156)	(1,776,948)	(1,746,218)	(1,726,025)	(1,706,636)	(1,687,224)	
Avg Equity Balance	12,009,501	10,330,104	8,670,600	7,520,364	6,561,103	5,743,715	5,209,485	4,827,719	4,456,189	4,082,770	
Return on Equity - Pre-tax	(2,121,994)	(1,825,257)	(1,532,034)	(1,328,795)	(1,159,301)	(1,014,874)	(920,479)	(853,024)	(787,377)	(721,397)	
Less: Production Tax Credit - Pre-tax	1,238,192	1,238,192	1,238,192	1,238,192	1,238,192	1,238,192	1,238,192	1,238,192	1,238,192	1,238,192	
Total Revenue Requirement	\$(3,071,853)	\$(2,663,040)	\$(2,259,191)	\$(1,980,274)	\$(1,748,265)	\$(1,553,630)	\$(1,428,506)	\$(1,340,857)	\$(1,255,821)	\$(1,170,429)	
Per kWh cost	\$ 0.086	\$ 0.074	\$ 0.063	\$ 0.055	\$ 0.049	\$ 0.043	\$ 0.040	\$ 0.037	\$ 0.035	\$ 0.033	
NPV of Revenue Requirement	(2,826,017)	(2,253,858)	(1,759,042)	(1,418,480)	(1,152,072)	(941,877)	(796,715)	(687,984)	(592,786)	(508,264)	
NPV over life	(18,569,644)										

DL

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
	Year 11	Year 12	Year 13	Year 14	Year 15	Year 16	Year 17	Year 18	Year 19	Year 20
OPERATIONS AND MAINTENANCE										
Annual Escalator										
Labor	40,317	41,527	42,773	44,056	45,378	46,739	48,141	49,585	51,073	52,605
Materials	47,037	48,448	49,902	51,399	52,941	54,529	56,165	57,850	59,585	61,373
Permits and Filing Fees	2,688	2,768	2,852	2,937	3,025	3,116	3,209	3,306	3,405	3,507
Annual Easements	37,630	38,759	39,921	41,119	42,353	43,623	44,932	46,280	47,668	49,098
Other	1,344	1,384	1,426	1,469	1,513	1,558	1,605	1,653	1,702	1,754
Total Operations and Maintenance	(129,016)	(132,886)	(136,873)	(140,979)	(145,209)	(149,565)	(154,052)	(158,673)	(163,434)	(168,337)
Interest Expense	253,795	228,053	202,260	176,414	150,516	124,566	98,564	72,509	46,403	20,338
Depreciation	1,285,000	1,287,500	1,290,000	1,292,500	1,295,000	1,297,500	1,300,000	1,302,500	1,305,000	1,305,000
PRE-TAX INCOME	(1,667,811)	(1,648,440)	(1,629,133)	(1,609,893)	(1,590,724)	(1,571,630)	(1,552,615)	(1,533,683)	(1,514,837)	(1,493,675)
Avg Equity Balance	3,707,745	3,331,678	2,954,850	2,577,262	2,198,913	1,819,804	1,439,934	1,059,304	677,913	297,121
Return on Equity - Pre-tax	(655,133)	(588,684)	(522,101)	(455,384)	(388,533)	(321,547)	(254,426)	(187,172)	(119,783)	(52,499)
Less: Production Tax Credit - Pre-tax										
Total Revenue Requirement	<u>\$ (2,322,944)</u>	<u>\$ (2,237,124)</u>	<u>\$ (2,151,234)</u>	<u>\$ (2,065,277)</u>	<u>\$ (1,979,257)</u>	<u>\$ (1,893,177)</u>	<u>\$ (1,807,042)</u>	<u>\$ (1,720,854)</u>	<u>\$ (1,634,619)</u>	<u>\$ (1,546,174)</u>
Per kWh cost	\$ 0.065	\$ 0.062	\$ 0.060	\$ 0.058	\$ 0.055	\$ 0.053	\$ 0.050	\$ 0.048	\$ 0.046	\$ 0.043
NPV of Revenue Requirement	(928,021)	(822,211)	(727,370)	(642,422)	(566,394)	(498,405)	(437,657)	(383,428)	(335,067)	(291,573)
NPV over life										

DIAMOND WILLOW EXPANSION GENERATION PROJECT

Depreciation Schedule
(in \$'000)

20 Year Life - Turbines	Depreciation Schedule									
15 Year Life - Pre-Construction Construction Property	(\$'000)									
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10

BOOK DEPRECIATION	Cost									
Existing Assets (net of Accum. Depr.)	25,400,000									
Pre-Construction Costs	25,400,000									
Construction Property	1,270,000									
Depr. on Adjusted Fixed Assets	1,270,000									

Total Book Depreciation	1,270,000									
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	YEAR #	1	2	3	4	5	6	7	8	9	10
Year		1,270,000	1,270,000	1,270,000	1,270,000	1,270,000	1,270,000	1,270,000	1,270,000	1,270,000	1,270,000
Turbines		-	-	-	-	-	-	-	-	-	-
Pre-Construction Costs		-	-	-	-	-	-	-	-	-	-
Construction Property		-	-	-	-	-	-	-	-	-	-
1		-	-	-	-	-	-	-	-	-	-
2		-	-	-	-	-	-	-	-	-	-
3		-	-	-	-	-	-	-	-	-	-
4		-	-	-	-	-	-	-	-	-	-
5		-	-	-	-	-	-	-	-	-	-
6		50,000	-	-	-	-	-	-	-	-	-
7		50,000	-	-	-	-	-	-	-	-	-
8		50,000	-	-	-	-	-	-	-	-	-
9		50,000	-	-	-	-	-	-	-	-	-
10		50,000	-	-	-	-	-	-	-	-	-
11		50,000	-	-	-	-	-	-	-	-	-
12		50,000	-	-	-	-	-	-	-	-	-
13		50,000	-	-	-	-	-	-	-	-	-
14		50,000	-	-	-	-	-	-	-	-	-
15		50,000	-	-	-	-	-	-	-	-	-
16		50,000	-	-	-	-	-	-	-	-	-
17		50,000	-	-	-	-	-	-	-	-	-
18		50,000	-	-	-	-	-	-	-	-	-
19		50,000	-	-	-	-	-	-	-	-	-
20		-	-	-	-	-	-	-	-	-	-
21		-	-	-	-	-	-	-	-	-	-
22		-	-	-	-	-	-	-	-	-	-
23		-	-	-	-	-	-	-	-	-	-
24		-	-	-	-	-	-	-	-	-	-
25		-	-	-	-	-	-	-	-	-	-
26		-	-	-	-	-	-	-	-	-	-
27		-	-	-	-	-	-	-	-	-	-
28		-	-	-	-	-	-	-	-	-	-
29		-	-	-	-	-	-	-	-	-	-
30		-	-	-	-	-	-	-	-	-	-

Total Book Depreciation	1,270,000									
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Book Value	24,130,000	22,860,000	21,590,000	20,320,000	19,050,000	17,777,500	16,502,500	15,275,000	14,045,000	12,812,500
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20 Year Life - Turbines
15 Year Life - Pre-Construction
Construction Property

	Year 11	Year 12	Year 13	Year 14	Year 15	Year 16	Year 17	Year 18	Year 19	Year 20
Existing Assets (net of Accum. Depr.)	1,270,000	1,270,000	1,270,000	1,270,000	1,270,000	1,270,000	1,270,000	1,270,000	1,270,000	1,270,000
Pre-Construction Costs										
Construction Property										
Depr. on Adjusted Fixed Assets	25,400,000	1,270,000	1,270,000	1,270,000	1,270,000	1,270,000	1,270,000	1,270,000	1,270,000	1,270,000

Total Book Depreciation

Year	11	12	13	14	15	16	17	18	19	20
Turbines										
Pre-Construction Costs										
Construction Property										
1										
2										
3										
4										
5										
6	50,000	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
7	50,000	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
8	50,000	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
9	50,000	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
10	50,000	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
11	50,000	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
12	50,000	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
13	50,000	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
14	50,000	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
15	50,000	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
16	50,000	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
17	50,000	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
18	50,000	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
19	50,000	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

Total Book Depreciation

	1,285,000	1,287,500	1,290,000	1,292,500	1,295,000	1,297,500	1,300,000	1,302,500	1,305,000	1,305,000
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Book Value

	11,577,500	10,340,000	9,100,000	7,857,500	6,612,500	5,365,000	4,115,000	2,862,500	1,607,500	352,500
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DIAMOND WILLOW EXPANSION GENERATION PROJECT

CAPITALIZATION DEBT AND EQUITY (000)

INITIAL INVESTMENT	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	
TOTAL (Incl. DITs)	25,400,000	22,638,004	18,682,411	15,999,988	14,081,467	12,162,946	10,811,915	10,026,023	9,284,851	8,539,903	7,791,178
DEBT	12,700,000	11,319,002	9,341,206	7,999,994	7,040,734	6,081,473	5,405,958	5,013,012	4,642,426	4,269,951	3,895,589
EQUITY	12,700,000	11,319,002	9,341,206	7,999,994	7,040,734	6,081,473	5,405,958	5,013,012	4,642,426	4,269,951	3,895,589

Long-Term Debt Cost **6.845%**

	<u>Year 11</u>	<u>Year 12</u>	<u>Year 13</u>	<u>Year 14</u>	<u>Year 15</u>	<u>Year 16</u>	<u>Year 17</u>	<u>Year 18</u>	<u>Year 19</u>	<u>Year 20</u>
TOTAL (Incl. DITs)	7,039,804	6,286,909	5,532,493	4,776,556	4,019,098	3,260,119	2,499,619	1,737,598	974,056	214,430
DEBT	3,519,902	3,143,454	2,766,246	2,388,278	2,009,549	1,630,059	1,249,809	868,799	487,028	107,215
EQUITY	3,519,902	3,143,454	2,766,246	2,388,278	2,009,549	1,630,059	1,249,809	868,799	487,028	107,215

Long

CEDAR HILLS WIND GENERATION PROJECT
PROJECTED INCOME STATEMENTS

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
OPERATIONS AND MAINTENANCE										
Annual Escalator										
Labor	171,000	176,130	181,414	186,856	192,462	198,236	204,183	210,308	216,618	223,116
Benefits	34,000	35,020	36,071	37,153	38,267	39,415	40,598	41,816	43,070	44,362
Subcontract Labor	2,000	2,060	2,122	2,185	2,251	2,319	2,388	2,460	2,534	2,610
Materials	65,000	66,950	68,959	71,027	73,158	75,353	77,613	79,942	82,340	84,810
Office Supplies	8,000	8,240	8,487	8,742	9,004	9,274	9,552	9,839	10,134	10,438
Permits and Filing Fees	5,000	5,150	5,305	5,464	5,628	5,796	5,970	6,149	6,334	6,524
Annual Easements	52,000	53,560	55,167	56,822	58,526	60,282	62,091	63,953	65,872	67,848
Other	35,000	36,050	37,132	38,245	39,393	40,575	41,792	43,046	44,337	45,667
Total Operations and Maintenance	(372,000)	(383,160)	(394,655)	(406,494)	(418,689)	(431,250)	(444,187)	(457,513)	(471,238)	(485,376)
Interest Expense	1,534,062	1,319,541	1,107,560	960,632	838,098	733,768	665,803	616,767	568,431	519,965
Amortization (ND State Income Tax Credit)	70,953	143,065	219,183	299,779	385,412	385,412	385,412	385,412	385,412	385,412
Depreciation	2,370,000	2,370,000	2,370,000	2,370,000	2,370,000	2,372,500	2,375,000	2,377,500	2,380,000	2,382,500
PRE-TAX INCOME	(4,347,015)	(4,072,701)	(3,872,215)	(3,737,126)	(3,626,788)	(3,537,518)	(3,484,991)	(3,451,780)	(3,419,669)	(3,387,841)
Avg Equity Balance	22,411,431	19,277,438	16,180,568	14,034,065	12,243,949	10,719,764	9,726,855	9,010,469	8,304,319	7,596,280
Return on Equity - Pre-tax	(3,959,942)	(3,406,188)	(2,858,993)	(2,479,721)	(2,163,420)	(1,894,107)	(1,718,667)	(1,592,086)	(1,467,315)	(1,342,209)
Less: Production Tax Credit - Pre-tax	2,299,500	2,299,500	2,299,500	2,299,500	2,299,500	2,299,500	2,299,500	2,299,500	2,299,500	2,299,500
Total Revenue Requirement	\$ (6,007,458)	\$ (5,179,388)	\$ (4,431,707)	\$ (3,917,347)	\$ (3,490,707)	\$ (3,132,125)	\$ (2,904,157)	\$ (2,744,366)	\$ (2,587,484)	\$ (2,430,550)
Per kWh cost	\$ 0.090	\$ 0.078	\$ 0.067	\$ 0.059	\$ 0.052	\$ 0.047	\$ 0.044	\$ 0.041	\$ 0.039	\$ 0.036
NPV of Revenue Requirement	(5,526,691)	(4,383,564)	(3,450,598)	(2,806,014)	(2,300,306)	(1,898,829)	(1,619,725)	(1,408,113)	(1,221,371)	(1,055,478)
NPV over life	(36,901,984)									

	Year 11	Year 12	Year 13	Year 14	Year 15	Year 16	Year 17	Year 18	Year 19	Year 20
MACRS										
5 Year	5.9050%	5.9050%	5.9050%	5.9050%	5.9050%	2.9510%				
15 Year										
Estimated	47,400,000									
Construction Property/Turbines	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	40,000	24,000
Pre-Construction Costs	0	0	0	0	0	0	0	0	0	0
Total Tax Depreciation\Amortization	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	40,000	24,000
Balance Sheet DITs - Current Year	914,386	915,365	916,344	917,323	918,302	919,281	920,260	921,239	925,155	931,421
Balance Sheet DITs - Accumulated	(8,414,536)	(7,499,171)	(6,582,827)	(5,665,504)	(4,747,202)	(3,827,921)	(2,907,661)	(1,986,422)	(1,061,267)	(129,847)

	YEAR #	11	12	13	14	15	16	17	18	19	20
Year	Existing	5 Year	5 Year	5 Year	5 Year	5 Year	5 Year	5 Year	5 Year	5 Year	5 Year
Amount	47,400,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	40,000	24,000
1	-	2,880	2,880	2,880	2,880	2,880	2,880	2,880	2,880	2,880	-
2	-	5,760	5,760	5,760	5,760	5,760	5,760	5,760	5,760	5,760	-
3	-	9,600	9,600	9,600	9,600	9,600	9,600	9,600	9,600	9,600	-
4	-	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	-
5	-	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	-
6	50,000	2,880	2,880	2,880	2,880	2,880	2,880	2,880	2,880	2,880	-
7	50,000	5,760	5,760	5,760	5,760	5,760	5,760	5,760	5,760	5,760	-
8	50,000	9,600	9,600	9,600	9,600	9,600	9,600	9,600	9,600	9,600	-
9	50,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	-
10	50,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	-
11	50,000	2,880	2,880	2,880	2,880	2,880	2,880	2,880	2,880	2,880	-
12	50,000	5,760	5,760	5,760	5,760	5,760	5,760	5,760	5,760	5,760	-
13	50,000	9,600	9,600	9,600	9,600	9,600	9,600	9,600	9,600	9,600	-
14	50,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	-
15	50,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	-
16	50,000	2,880	2,880	2,880	2,880	2,880	2,880	2,880	2,880	2,880	-
17	50,000	5,760	5,760	5,760	5,760	5,760	5,760	5,760	5,760	5,760	-
18	50,000	9,600	9,600	9,600	9,600	9,600	9,600	9,600	9,600	9,600	-
19	50,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	-
20	-	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	-
21	-	2,880	2,880	2,880	2,880	2,880	2,880	2,880	2,880	2,880	-
22	-	5,760	5,760	5,760	5,760	5,760	5,760	5,760	5,760	5,760	-
23	-	9,600	9,600	9,600	9,600	9,600	9,600	9,600	9,600	9,600	-
24	-	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	-
25	-	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	-
26	-	2,880	2,880	2,880	2,880	2,880	2,880	2,880	2,880	2,880	-
27	-	5,760	5,760	5,760	5,760	5,760	5,760	5,760	5,760	5,760	-
28	-	9,600	9,600	9,600	9,600	9,600	9,600	9,600	9,600	9,600	-
29	-	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	-
30	-	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	-
Total Tax Depreciation		50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	40,000	24,000

Estimated Percentage of Assets 100%

20 Year Life - Turbines
 15 Year Life - Pre-Construction
 Construction Property

	Year 11	Year 12	Year 13	Year 14	Year 15	Year 16	Year 17	Year 18	Year 19	Year 20
BOOK DEPRECIATION										
Existing Assets (net of Accum. Depr.)	47,400,000									
less ND State Income Tax Credit										
Construction Property										
Depr. on Adjusted Fixed Assets	2,370,000	2,370,000	2,370,000	2,370,000	2,370,000	2,370,000	2,370,000	2,370,000	2,370,000	2,370,000

Total Book Depreciation

	Year 11	Year 12	Year 13	Year 14	Year 15	Year 16	Year 17	Year 18	Year 19	Year 20
YEAR#										
Turbines										
Pre-Construction Costs	2,370,000	2,370,000	2,370,000	2,370,000	2,370,000	2,370,000	2,370,000	2,370,000	2,370,000	2,370,000
Construction Property										
1										
2										
3										
4										
5										
6	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
7	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
8	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
9	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
10	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
11	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
12		2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
13			2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
14				2,500	2,500	2,500	2,500	2,500	2,500	2,500
15					2,500	2,500	2,500	2,500	2,500	2,500
16						2,500	2,500	2,500	2,500	2,500
17							2,500	2,500	2,500	2,500
18								2,500	2,500	2,500
19									2,500	2,500
20										2,500
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
Total Book Depreciation	2,385,000	2,387,500	2,390,000	2,392,500	2,395,000	2,397,500	2,400,000	2,402,500	2,402,500	2,402,500

Book Value \$47,400,000 21,477,500 19,140,000 16,800,000 14,457,500 12,112,500 9,765,000 7,415,000 5,062,500 2,710,000 357,500

CEDAR HILLS WIND GENERATION PROJECT

CAPITALIZATION DEBT AND EQUITY (000)

INITIAL INVESTMENT	<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>	<u>Year 6</u>	<u>Year 7</u>	<u>Year 8</u>	<u>Year 9</u>	<u>Year 10</u>
TOTAL (Incl. DITs)	47,400,000	42,245,724	34,864,027	29,858,246	26,278,014	22,697,782	18,726,143	17,315,731	15,901,543	14,483,578
DEBT	23,700,000	21,122,862	17,432,014	14,929,123	13,139,007	11,348,891	9,363,072	8,657,866	7,950,771	7,241,789
EQUITY	23,700,000	21,122,862	17,432,014	14,929,123	13,139,007	11,348,891	9,363,072	8,657,866	7,950,771	7,241,789

Long-Term Debt Cost **6.845%**

	<u>Year 11</u>	<u>Year 12</u>	<u>Year 13</u>	<u>Year 14</u>	<u>Year 15</u>	<u>Year 16</u>	<u>Year 17</u>	<u>Year 18</u>	<u>Year 19</u>	<u>Year 20</u>
TOTAL (Incl. DITs)	13,062,964	11,640,829	10,217,173	8,791,996	7,365,298	5,937,079	4,507,339	3,076,078	1,647,212	224,611
DEBT	6,531,482	5,820,414	5,108,586	4,395,998	3,682,649	2,968,539	2,253,669	1,538,039	823,606	112,306
EQUITY	6,531,482	5,820,414	5,108,586	4,395,998	3,682,649	2,968,539	2,253,669	1,538,039	823,606	112,306

Long-1

**MONTANA-DAKOTA UTILITIES CO.
ADVOCACY STAFF – MARC, LLC
DATA REQUEST DATED AUGUST 23, 2010
CASE NO. PU-10-124**

NDPSC-DR-053 Please provide a schedule showing for each farm, what is the capacity accreditation given by MISO?

Response:

Please see Attachment A.

**MONTANA-DAKOTA UTILITIES CO.
MISO CAPACITY ACCREDITATION (MW)
ELECTRIC UTILITY**

Wind Project	Installed Generation (MW)	MISO Capacity Accreditation (MW)	
		June 09 - May 10 1/	June 10 - May 11 2/
Diamond Willow Wind Projects	19.5	3.90	1.56
Diamond Willow Addition	10.5	N/A	0.84
Cedar Hills Wind Projects	19.5	N/A	1.56
Total	49.5	3.90	3.96

1/ 20% capacity accreditation number was used by MISO in 2009-2010 for all wind projects to represent a historical wind project performance.

2/ 8% capacity accreditation number was used by MISO in 2010-2011 for all wind projects and was based on historical wind outputs at the time of MISO's peak recorded over the past few years.

**MONTANA-DAKOTA UTILITIES CO.
ADVOCACY STAFF – MARC, LLC
DATA REQUEST DATED AUGUST 23, 2010
CASE NO. PU-10-124**

NDPSC-DR-054 Provide a present value calculation of expected savings to ratepayers for the ownership of each wind farm. Please include all the inputs and calculations.

Response:

To provide a present value calculation of expected fuel savings to customers for the ownership of Montana-Dakota's wind farms, the PROSYM model is used to simulate two scenarios:

- Montana-Dakota's system with the wind farms (Attachment B), and
- Montana-Dakota's system without the wind farms (Attachment C).

PROSYM calculates the annual total production costs for 2010 through 2019. The difference in annual total production costs between the two scenarios is the expected operational savings for the ownership of the wind farms. Using a discount rate of 7.536%, the present value calculation is shown on Attachment A, which indicates the total expected savings is \$26.9 million for 2010-2019 as shown in Attachment A. The fuel costs savings allocated to North Dakota electric operations would be \$17.5 Million based on the Kwh Sales allocation factor No. 16 of 64.888666%.

Montana-Dakota Utilities Co.
Expected Savings for Wind Farm Ownership

Discount Rate = 7.536%

Present Year = 2010

<u>Year</u>	<u>Total Production Cost (\$1,000)</u>		<u>Expected Savings (\$1,000)</u>		
	<u>Without Wind</u>	<u>With Wind</u>	<u>Annual</u>	<u>Present Value</u>	<u>Net Present Value</u>
2010	76,749	73,396	3,353	3,353.000	3,353.000
2011	79,486	76,080	3,406	3,167.302	6,520.302
2012	84,420	80,965	3,455	2,987.705	9,508.006
2013	91,296	87,705	3,591	2,887.685	12,395.691
2014	96,661	93,006	3,655	2,733.170	15,128.861
2015	100,166	96,469	3,697	2,570.830	17,699.691
2016	102,345	98,494	3,851	2,490.246	20,189.937
2017	106,562	102,680	3,882	2,334.367	22,524.304
2018	111,358	107,367	3,991	2,231.722	24,756.026
2019	115,254	111,139	4,115	2,139.799	26,895.826

Montana-Dakota Utilities Co.
Calculation of Weighted Average Cost of Capital (WACC)

Projected 2010	Balance	Ratio	Cost	Return
Long Term Debt	\$280,502,591	42.232%	6.845%	2.891%
Short Term Debt	\$20,829,409	3.136%	2.535%	0.079%
Preferred Stock	\$15,500,000	2.334%	4.590%	0.107%
Common Equity	\$347,368,141	52.299%	10.750%	5.622%
Total	\$664,200,141	100.000%		8.699%
Average Tax Rate = 39.16%		WACC* =		<u>7.536%</u>

* WACC is used as the discount rate for the present value calculations.

Attachment B

No. Station	Energy GWh	Prd %	Strts	Fuel Burn Giga Btu	Heat Rate Btu/kWh	Hours per Unit	Fuel-or-Prch Cost c/MMBtu <F> \$/MWh <P> \$/MWh	Start Cost \$1000	O&M Fixed \$1000	O&M Varabl \$1000	Opertg Cost \$/MWh	Total Cost \$/MWh	Total Cost \$1000
1 Coyote	793.4	93.2	13	8962.6	11297	7970	132.6	0	2314	1887	17.35	20.27	16083
2 Big Stone 1	707.1	88.6	9	7023.4	9932	7901	206.4	0	2286	1073	22.01	25.25	17852
3 Heskett 2	425.0	71.3	7	5821.1	13697	7957	171.9	21	3731	3375	31.49	40.32	17134
4 Lewis & Clark	283.2	78.6	7	3737.1	13194	7781	138.2	20	2447	1629	23.99	32.70	9261
5 Heskett 1	109.9	64.8	11	1879.6	17111	7947	151.5	11	1506	718	32.46	46.26	5082
6 Lewis & Clark pk	0.0	0.1	157	0.4	11500	5554	685.0	3	0	0	84.53	84.53	3
7 Glendive CT 1	2.4	0.8	38	39.4	16523	235	685.0	5	365	6	115.65	270.76	646
8 Glendive CT 2	5.0	1.4	55	60.9	12162	501	685.0	3	277	12	85.78	141.75	710
9 Glendive Diesel	0.0	0.1	1	0.0	11000	1	1542.9	0	6	0	172.18	3247.18	6
10 Miles City CT	1.0	0.5	26	17.8	18114	98	685.0	3	280	2	126.55	415.44	407
11 Williston CT	0.0	0.1	1	0.2	20700	1	698.0	1	37	0	146.95	3990.71	38
12 New Comb Turbine	0.0	0.0	0	0.0	0	0	0.0	0	0	0	0.00	0.00	0
13 Diamond Willow	99.5	100.0	0	0.0	0	8760	0.00	0	458	0	0.00	4.60	458
14 Cedar Hills	64.7	100.0	0	0.0	0	8760	0.00	0	420	0	0.00	6.49	420
15 New Wind Plant	0.0	0.0	0	0.0	0	0	0.00	0	0	0	0.00	0.00	0
16 Glen Ullin Stat6	30.6	100.0	1	0.0	0	8712	6.70	205	223	0	6.70	14.00	428
17 WAPA Bill Credit	14.3	100.0	0	0.0	0	8760	33.25	476	0	0	33.25	33.25	476
18 MISO Sales	-66.7	100.0	0	0.0	0	8760	23.93	-1596	0	0	23.93	23.93	-1596
19 MISO Purchases	163.6	9.3	337	0.0	0	5949	23.57	3855	0	0	23.57	23.57	3855
20 NSP Purchase 1	0.7	0.2	11	0.0	0	19	63.69	45	1770	0	63.69	2592.26	1815
21 NSP Purchase 2	0.1	0.2	11	0.0	0	20	165.69	13	177	0	165.69	2378.19	190
22 WEPCO Purchase	0.0	0.0	0	0.0	0	8760	0.00	0	0	0	0.00	0.00	0
23 ND State Capitol	0.0	0.0	0	0.0	0	0	0.00	0	128	0	0.00	0.00	128
SYSTEM PRODUCTION	2633.8		684	27542.6	11836			62	16427	8702	21.61	27.87	73396

No. Group	Energy GWh	Prd %	Strts	Fuel Burn Giga Btu	Heat Rate Btu/kWh	Hours per Unit	Fuel-or-Prch Cost c/MMBtu <F> \$/MWh <P> \$/MWh	Start Cost \$1000	O&M Fixed \$1000	O&M Varabl \$1000	Opertg Cost \$/MWh	Total Cost \$/MWh	Total Cost \$1000
Native Load	2633.8										10.00		0
Dump Power	0.0												
TRAN. Losses	0.0												
LESS Resources (Exports):													
1 Lignite	1611.5	79.8	194	20400.9	12660		146.6	29904	9999	7609	23.28	29.52	47563
2 Subbituminous	707.1	88.6	9	7023.4	9932		206.4	14493	2286	1073	22.01	25.25	17852
3 CTs	8.4	0.9	120	118.3	14108		685.0	810	959	21	99.11	214.84	1801
4 ICs	0.0	0.1	1	0.0	11000		1542.9	0	6	0	172.18	3247.18	6
5 Renewables	194.8	100.0	1	0.0	0		1.05	205	1101	0	1.05	6.71	1306
6 Purchases	178.7	7.9	359	0.0	0		24.56	4388	2075	0	24.56	36.17	6463
7 Sales	-66.7	100.0	0	0.0	0		0.00	-1596	0	0	23.93	23.93	-1596
Resource Totals	2633.8		684	27542.6	11836			62	16427	8702	21.61	27.87	73396
Fuel demand charges													242
E.N.S.	0.0												0
SYSTEM													73638

Spinning reserve deficit report

Type No.	Deficit area	Spinning reserve- MWh	Cost Hrs	Primary reserve- MWh	Cost Hrs

Syst 0 Syste

3152 151950

0 2861 133967

0

Continues...

Time of Day Marginal Cost Summary

Period	Total hours	% of hours	Average Marg Cost
1 Winter off peak	5832	66.6	25.19
3 Summer off peak	2224	25.4	23.53
4 Summer on peak	704	8.0	24.44
Total	8760	100.0	24.71

Percent Time at Margin, by Station Group

Groups	Time of Day Periods				All
	1	2	3	4	
1 Lignite	45.7	0.0	46.3	37.2	45.2
2 Subbituminous	15.3	0.0	23.2	0.0	16.1
3 CTs	0.0	0.0	0.0	0.4	0.1
4 ICs	0.0	0.0	0.0	0.0	0.0
5 Renewables	0.0	0.0	0.0	0.0	0.0
6 Purchases	38.9	0.0	30.4	62.4	38.6
7 Sales	0.0	0.0	0.0	0.0	0.0
Dump Power	0.0	0.0	0.0	0.0	0.0
E.N.S.	0.0	0.0	0.0	0.0	0.0

Cost at Margin, by Period and Station Group (mills)

Groups	Time of Day Periods				All
	1	2	3	4	
1 Lignite	27.3	0.0	27.4	29.4	27.4
2 Subbituminous	18.9	0.0	18.9	0.0	18.9
3 CTs	116.4	0.0	85.8	65.9	80.0
4 ICs	0.0	0.0	0.0	0.0	0.0
5 Renewables	0.0	0.0	0.0	0.0	0.0
6 Purchases	25.2	0.0	21.1	21.2	23.9
7 Sales	0.0	0.0	0.0	0.0	0.0
Dump Power	10.0	0.0	10.0	0.0	10.0
E.N.S.	0.0	0.0	0.0	0.0	0.0

Continues...

W

Fuel Use Report

No.	Fuel	GBtu used	Commod \$000	Volume1 \$000	Volume2 \$000	Demand \$000	Total \$000	c/GBtu average	Units used
1	Coyote Lignite	8940.22	11503	33	0	0	11536	129.0	651714.44
2	Bigstone Subbit	7005.88	14120	102	0	0	14222	203.0	415779.03
3	Coyote Oil	22.41	346	0	0	0	346	1542.9	160046.89
4	Bigstone Oil	17.56	271	0	0	0	271	1542.9	125418.50
5	Glendive Diesel	0.02	0	0	0	0	0	1542.9	157.14
6	Heskett1 Lignite	1879.65	2714	133	0	0	2847	151.5	135421.27
7	Heskett2 Lignite	5815.91	9553	417	0	0	9970	171.4	419013.44
8	Heskett2 Gas	5.24	37	0	0	0	37	698.0	4788.88
9	Williston Gas	0.20	1	0	0	0	1	698.0	181.65
10	L&C Lignite	3726.99	4977	119	0	201	5297	142.1	284242.44
11	L&C Gas	10.46	72	0	0	2	73	699.7	8867.19
12	MilesCity Gas	17.75	122	0	0	14	135	761.1	17234.68
13	Glendive1 Gas	39.40	270	0	0	13	283	718.2	41042.92
14	Glendive2 Gas	60.93	417	0	0	13	430	706.3	63470.46
15	New Gas	0.00	0	0	0	0	0	0.0	0.00

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No. Station	Energy GWh	Prd %	Fuel Burn Giga Btu	Heat Rate Btu/kWh	Heat Hours per Unit	Fuel-or-Prch c/MMBtu	Start Cost \$1000	O&M Fixed \$1000	O&M Varbl \$1000	Opertg Cost \$/MWh	Total Cost \$/MWh	Total Cost \$1000
1 Coyote	797.8	93.2	12	11297	8015	131.7	11870	2372	1945	17.32	20.29	16187
2 Big Stone I	638.3	88.6	8	9933	7135	216.5	13727	2344	993	23.06	26.73	17063
3 Heskett 2	455.7	76.4	7	13639	7957	172.2	10704	3825	3727	31.67	40.11	18277
4 Lewis & Clark	267.3	81.4	6	13149	7148	141.6	4977	2508	1575	24.52	33.96	9078
5 Heskett 1	106.3	63.1	11	17157	7901	158.1	2882	1544	712	33.82	48.44	5149
6 Lewis & Clark pk	2.7	0.0	117	11500	5563	757.0	1	0	0	92.95	92.95	1
7 Glendive CT 1	2.0	0.8	40	16631	266	757.0	335	374	7	128.43	271.00	721
8 Glendive CT 2	5.8	1.7	55	12111	574	757.0	531	284	15	94.21	143.80	833
9 Glendive Diesel	0.0	0.2	2	11000	3	1771.4	1	6	0	197.39	1248.01	7
10 Miles City CT	1.4	0.6	27	18114	137	757.0	188	287	3	139.65	351.50	482
11 Williston CT	0.0	0.1	1	20700	1	770.0	2	38	0	161.92	4101.76	39
12 New Comb Turbine	0.0	0.0	0	0	0	0.0	0	0	0	0.00	0.00	0
13 Diamond Willow	99.5	100.0	0	0	8760	0.00	0	476	0	0.00	4.78	476
14 Cedar Hills	64.7	100.0	0	0	8760	0.00	0	437	0	0.00	6.75	437
15 New Wind Plant	0.0	0.0	0	0	0	0.0	0	0	0	0.00	0.00	0
16 Glen Ullin Stat6	40.0	100.0	1	0	8712	6.80	272	230	0	6.80	12.55	502
17 WAPA Bill Credit	14.3	100.0	0	0	8760	34.91	499	0	0	34.91	34.91	499
18 MISO Purchases	-52.5	100.0	0	0	8760	24.05	-1263	0	0	24.05	24.05	-1263
19 MISO Purchases	226.5	12.9	304	0	6323	24.45	5538	0	0	24.45	24.45	5538
20 NSP Purchase 1	1.1	0.2	11	0	22	64.96	68	1859	0	64.96	1834.96	1927
21 NSP Purchase 2	0.0	0.0	0	0	8760	0.0	0	0	0	0.00	0.00	0
22 WEPKO Purchase	0.0	0.0	0	0	8760	0.0	0	0	0	0.00	0.00	0
23 ND State Capitol	0.0	0.0	0	0	0	0.0	0	128	0	0.00	0.00	128
SYSTEM PRODUCTION	2668.8		601	11887			50331	16711	8977	22.22	28.51	76080

No. Group	Energy GWh	Prd %	Fuel Burn Giga Btu	Heat Rate Btu/kWh	Heat Hours per Unit	Fuel-or-Prch c/MMBtu	Start Cost \$1000	O&M Fixed \$1000	O&M Varbl \$1000	Opertg Cost \$/MWh	Total Cost \$/MWh	Total Cost \$1000
Native Load	2668.8						60	16711	8977	22.22	28.51	76080
Dump Power	0.0						0	0	0	0.00	0.00	0
Tran. Losses	0.0						0	0	0	0.00	0.00	0
LESS Resources (Exports):												
1 Lignite	1627.1	81.8	153	12640		148.0	30434	10249	7960	23.60	29.93	48691
2 Subbituminous	638.3	88.6	8	9933		216.5	13727	2344	993	23.06	26.73	17063
3 CTS	9.8	1.1	123	14178		757.0	1056	983	25	109.86	211.01	2075
4 ICs	0.0	0.2	2	11000		1771.4	1	6	0	197.39	1248.01	7
5 Renewables	204.2	100.0	1	0		1.33	272	1143	0	1.33	6.93	1415
6 Purchases	241.9	10.8	315	0		25.24	6106	1986	0	25.24	33.45	8092
7 Sales	-52.5	100.0	0	0		0.00	-1263	0	0	24.05	24.05	-1263
Resource Totals	2668.8		601	11887			50331	16711	8977	22.22	28.51	76080
Fuel demand charges												251
E.N.S.	0.0											0
SYSTEM												76331

Spinning reserve deficit report

 Type No. Deficit area Hrs Cost MWh -Primary reserve- Hrs Cost MWh -----
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Montana-Dakota Utility Co.

Time of Day Marginal Cost Summary

Period	Total hours	% of hours	Average Marg Cost
1 Winter off peak	5832	66.6	25.81
3 Summer off peak	2224	25.4	23.92
4 Summer on peak	704	8.0	24.52
Total	8760	100.0	25.23

Percent Time at Margin, by Station Group

Groups	Time of Day Periods				All
	1	2	3	4	
1 Lignite	39.6	0.0	41.1	27.0	38.9
2 Subbituminous	14.0	0.0	16.9	0.0	13.6
3 CTs	0.0	0.0	0.0	0.9	0.1
4 ICs	0.0	0.0	0.0	0.0	0.0
5 Renewables	0.0	0.0	0.0	0.0	0.0
6 Purchases	46.4	0.0	42.0	72.2	47.4
7 Sales	0.0	0.0	0.0	0.0	0.0
Dump Power	0.0	0.0	0.0	0.0	0.0
E.N.S.	0.0	0.0	0.0	0.0	0.0

Cost at Margin, by Period and Station Group (mills)

Groups	Time of Day Periods				All
	1	2	3	4	
1 Lignite	27.9	0.0	27.2	30.4	27.8
2 Subbituminous	19.8	0.0	19.8	0.0	19.8
3 CTs	0.0	0.0	0.0	54.7	54.7
4 ICs	0.0	0.0	0.0	0.0	0.0
5 Renewables	0.0	0.0	0.0	0.0	0.0
6 Purchases	25.9	0.0	22.3	22.0	24.6
7 Sales	0.0	0.0	0.0	0.0	0.0
Dump Power	10.0	0.0	0.0	0.0	10.0
E.N.S.	0.0	0.0	0.0	0.0	0.0

Continues...

Fuel Use Report

No. Fuel	GBtu used	Commod \$000	Volume1 \$000	Volume2 \$000	Demand \$000	Total \$000	c/GBtu average	Units used
1 Coyote Lignite	8990.47	11436	34	0	0	11471	127.6	655377.88
2 Bigstone Subbit	6324.72	13351	95	0	0	13446	212.6	375354.56
3 Coyote Oil	22.53	399	0	0	0	399	1771.4	160946.55
4 Bigstone Oil	15.85	281	0	0	0	281	1771.4	113224.57
5 Glendive Diesel	0.07	1	0	0	0	1	1771.4	471.43
6 Heskett1 Lignite	1823.53	2750	133	0	0	2882	158.1	131378.53
7 Heskett2 Lignite	6209.53	10205	456	0	0	10660	171.7	447372.41
8 Heskett2 Gas	5.59	43	0	0	0	43	770.0	5112.99
9 Williston Gas	0.20	2	0	0	0	2	770.0	181.65
10 L&C Lignite	3505.09	4790	115	0	209	5114	145.9	267319.44
11 L&C Gas	9.58	73	0	0	2	74	773.4	8118.72
12 MilesCity Gas	24.82	188	0	0	14	202	812.8	24093.38
13 Glendive1 Gas	44.24	335	0	0	13	348	787.3	46081.74
14 Glendive2 Gas	70.18	531	0	0	13	545	776.0	73099.99
15 New Gas	0.00	0	0	0	0	0	0.0	0.00

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No. Station	Energy GWh	Prd %	Fuel Burn Giga Btu	Heat Rate Btu/kWh	Hours per Unit	Fuel-or-Prch c/MMBtu <F> \$/MWh <P>	Start Cost \$1000	O&M Fixed \$1000	O&M Varbl \$1000	Opertg Cost \$/MWh	Total Cost \$/MWh	Total Cost \$1000
1 Coyote	722.0	93.2	11	11296	7248	132.3	10790	2431	1804	17.44	20.81	15025
2 Big Stone I	744.3	91.4	9	7358.9	8060	220.0	16188	2402	1186	23.34	26.57	19777
3 Heskett 2	424.0	78.1	7	5769.1	7243	178.4	10291	3920	3572	32.70	41.99	17805
4 Lewis & Clark	305.6	85.3	7	4005.6	7975	146.2	5858	2571	1846	25.21	33.69	10296
5 Heskett 1	118.0	71.1	10	2000.2	7788	160.2	3204	1582	811	34.02	47.51	5607
6 Lewis & Clark pk	0.1	0.2	167	0.9	11500	774.0	7	0	0	95.05	95.05	7
7 Glendive CT 1	3.2	1.0	38	53.5	16476	774.0	414	384	8	130.12	249.63	811
8 Glendive CT 2	5.4	1.6	66	65.7	12162	774.0	508	291	14	96.73	151.38	817
9 Glendive Diesel	0.0	0.3	4	0.1	11000	2064.3	2	6	0	229.67	1037.33	8
10 Miles City CT	1.2	0.6	26	22.3	18072	774.0	173	294	3	142.47	382.94	473
11 Williston CT	0.0	0.0	0	0.0	0	0.0	0	39	0	0.00	0.00	39
12 New Comb Turbine	0.0	0.0	0	0.0	0	0.0	0	0	0	0.00	0.00	0
13 Diamond Willow	99.8	100.0	0	0.00	8784	0.00	0	495	0	0.00	4.96	495
14 Cedar Hills	64.9	100.0	0	0.00	8784	0.00	0	454	0	0.00	7.00	454
15 New Wind Plant	0.0	0.0	0	0.0	0	0.0	0	0	0	0.00	0.00	0
16 Glen Ullin Stat6	40.1	100.0	1	0.00	8736	6.90	277	237	0	6.90	12.81	514
17 WAPA Bill Credit	14.3	100.0	0	0.00	8784	36.66	526	0	0	36.66	36.66	526
18 MISO Sales	-53.2	100.0	0	0.00	8784	24.17	-1287	0	0	24.17	24.17	-1287
19 MISO Purchases	294.6	16.8	273	6778	6778	24.22	7134	0	0	24.22	24.22	7134
20 NSP Purchase 1	0.0	0.0	0	0.0	8784	0.0	0	0	0	0.00	0.00	0
21 NSP Purchase 2	0.0	0.0	0	0.0	8784	0.0	0	0	0	0.00	0.00	0
22 WEPCO Purchase	0.9	0.2	12	0.0	18	115.00	101	2233	0	115.00	2652.50	2334
23 ND State Capitol	0.0	0.0	0	0.0	0	0.0	0	128	0	0.00	0.00	128
SYSTEM PRODUCTION	2785.3		631	27432.1	11805		54187	17469	9245	22.77	29.07	80965

No. Group	Energy GWh	Prd %	Fuel Burn Giga Btu	Heat Rate Btu/kWh	Hours per Unit	Fuel-or-Prch c/MMBtu <F> \$/MWh <P>	Start Cost \$1000	O&M Fixed \$1000	O&M Varbl \$1000	Opertg Cost \$/MWh	Total Cost \$/MWh	Total Cost \$1000
Native Load	2785.2										10.00	1
Dump Power	0.1											
Tran. Losses	0.0											
LESS Resources (Exports):												
1 Lignite	1569.6	83.4	202	19931.6	12698	151.3	30150	10505	8033	24.33	31.05	48740
2 Subbituminous	744.3	91.4	9	7358.9	9887	220.0	16188	2402	1186	23.34	26.57	19777
3 CTS	9.9	1.1	130	141.6	14319	774.0	1096	1008	26	113.42	216.56	2141
4 ICs	0.0	0.3	4	0.1	11000	2064.3	2	6	0	229.67	1037.33	8
5 Renewables	204.8	100.0	1	0.00	277	1.35	277	1187	0	1.35	7.15	1463
6 Purchases	309.8	13.3	285	309.8	7761	25.05	7761	2361	0	25.05	32.67	10122
7 Sales	-53.2	100.0	0	-53.2	-1287	0.00	-1287	0	0	24.17	24.17	-1287
Resource Totals	2785.3		631	27432.1	11805		54187	17469	9245	22.77	29.07	80965
Fuel demand charges												260
E.N.S.	0.0											5
SYSTEM												81229

Spinning reserve deficit report

Type No.	Deficit area	Hrs	MWh	Cost	Primary reserve-MWh	reserve-Cost
1	Native Load					
2	Dump Power					
3	Tran. Losses					
4	LESS Resources (Exports):					
5	1 Lignite					
6	2 Subbituminous					
7	3 CTS					
8	4 ICs					
9	5 Renewables					
10	6 Purchases					
11	7 Sales					
12	Resource Totals					
13	Fuel demand charges					
14	E.N.S.					
15	SYSTEM					

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Time of Day Marginal Cost Summary

Period	Total hours	% of hours	Average Marg Cost
1 Winter off peak	5856	66.7	26.23
3 Summer off peak	2240	25.5	24.34
4 Summer on peak	688	7.8	24.49
Total	8784	100.0	25.61

Percent Time at Margin, by Station Group

Groups	Time of Day Periods				All
	1	2	3	4	
1 Lignite	34.7	0.0	35.9	11.3	33.2
2 Subbituminous	8.6	0.0	14.2	0.4	9.4
3 CTS	0.0	0.0	0.0	0.4	0.0
4 ICs	0.0	0.0	0.0	0.0	0.0
5 Renewables	0.0	0.0	0.0	0.0	0.0
6 Purchases	56.6	0.0	49.9	87.4	57.3
7 Sales	0.0	0.0	0.0	0.0	0.0
Dump Power	0.0	0.0	0.0	0.0	0.0
E.N.S.	0.1	0.0	0.0	0.4	0.1

Cost at Margin, by Period and Station Group (mills)

Groups	Time of Day Periods				All
	1	2	3	4	
1 Lignite	28.5	0.0	28.2	33.4	28.5
2 Subbituminous	20.2	0.0	20.2	22.2	20.2
3 CTS	0.0	0.0	0.0	77.4	77.4
4 ICs	0.0	0.0	0.0	0.0	0.0
5 Renewables	0.0	0.0	0.0	0.0	0.0
6 Purchases	25.6	0.0	22.8	22.5	24.6
7 Sales	0.0	0.0	0.0	0.0	0.0
Dump Power	10.0	0.0	0.0	0.0	10.0
E.N.S.	140.0	0.0	0.0	140.0	140.0

Continues...

Fuel Use Report

No.	Fuel	GBtu used	Commod \$000	Volume1 \$000	Volume2 \$000	Demand \$000	Total \$000	c/GBtu average	Units used
1	Coyote Lignite	8135.35	10337	32	0	0	10369	127.5	593042.31
2	Bigstone Subbit	7340.49	15696	113	0	0	15809	215.4	435637.12
3	Coyote Oil	20.39	421	0	0	0	421	2064.3	145638.25
4	Bigstone Oil	18.40	380	0	0	0	380	2064.3	131408.61
5	Glendive Diesel	0.09	2	0	0	0	2	2064.3	628.57
6	Heskett1 Lignite	2000.24	3055	149	0	0	3204	160.2	144109.69
7	Heskett2 Lignite	5763.87	9817	434	0	0	10251	177.8	415264.69
8	Heskett2 Gas	5.19	41	0	0	0	41	787.0	4746.03
9	Williston Gas	0.00	0	0	0	0	0	0.0	0.00
10	L&C Lignite	3994.80	5639	135	0	217	5991	150.0	304667.84
11	L&C Gas	11.72	91	0	0	2	92	787.8	9933.68
12	MilesCity Gas	22.34	173	0	0	14	187	837.6	21691.40
13	Glendive1 Gas	53.54	414	0	0	14	428	799.6	55771.55
14	Glendive2 Gas	65.67	508	0	0	14	522	794.8	68411.27
15	New Gas	0.00	0	0	0	0	0	0.0	0.00

No. Station	Energy GWh	Prd %	Fuel Burn Giga Btu	Heat Rate Btu/kWh	Hours per Unit	Fuel-or-Prch c/MMBtu <F> \$/MWh <P>	Start Cost \$1000	O&M Fixed \$1000	O&M Varbl \$1000	Opertg Cost \$/MWh	Total Cost \$/MWh	Total Cost \$1000
1 Coyote	798.2	93.2	11	11296	8014	137.6	0	2492	2044	18.11	21.23	16946
2 Big Stone I	735.8	90.7	10	9899	8037	227.4	0	2462	1202	24.15	27.49	20230
3 Heskett 2	454.5	76.2	6	13641	7957	181.0	19	4018	4253	34.04	42.93	19509
4 Lewis & Clark	302.1	84.6	6	3963.6	7930	152.2	18	2635	1871	26.16	34.94	10557
5 Heskett 1	125.2	74.3	11	2113.1	16884	161.4	11	1622	881	34.29	47.34	5925
6 Lewis & Clark pk	0.2	0.4	143	2.0	11500	781.0	16	0	0	96.01	96.01	17
7 Glendive CT 1	2.7	0.9	37	44.2	16631	781.0	346	393	7	132.55	282.11	750
8 Glendive CT 2	6.3	1.8	59	76.2	12121	781.0	4	298	17	97.32	145.35	914
9 Glendive Diesel	0.0	0.3	2	0.1	11000	2421.4	2	7	0	269.02	1096.88	9
10 Miles City CT	1.3	0.6	24	24.3	18114	781.0	3	302	4	144.13	371.29	498
11 Williston CT	0.0	0.3	3	0.8	20700	794.0	6	40	0	167.02	1201.84	46
12 New Comb Turbine	0.0	0.0	0	0.0	0	0.0	0	0	0	0.00	0.00	0
13 Diamond Willow	99.5	100.0	0	0.0	8760	0.00	0	515	0	0.00	5.18	515
14 Cedar Hills	64.7	100.0	0	0.0	8760	0.00	0	473	0	0.00	7.30	473
15 New Wind Plant	0.0	0.0	0	0.0	0	0.0	0	0	0	0.00	0.00	0
16 Glen Ullin Stat6	39.8	100.0	1	0.0	8664	7.00	278	304	0	7.00	14.64	582
17 WAPA Bill Credit	14.3	100.0	0	0.0	8760	38.49	550	0	0	38.49	38.49	550
18 MISO Sales	-52.6	100.0	0	0.0	8760	24.29	-1277	0	0	24.29	24.29	-1277
19 MISO Purchases	282.5	16.1	291	0.0	6872	25.65	7247	0	0	25.65	25.65	7247
20 NSP Purchase 1	0.0	0.0	0	0.0	8760	0.0	0	0	0	0.00	0.00	0
21 NSP Purchase 2	0.0	0.0	0	0.0	8760	0.0	0	0	0	0.00	0.00	0
22 WEPCO Purchase	1.4	0.1	5	0.0	0	116.00	157	3930	0	116.00	3026.74	4086
23 ND State Capitol	0.0	0.0	0	0.0	0	0.0	0	128	0	0.00	0.00	128
SYSTEM PRODUCTION	2875.9		609	28724.8	11839		59	19618	10280	23.65	30.50	87705

No. Group	Energy GWh	Prd %	Fuel Burn Giga Btu	Heat Rate Btu/kWh	Hours per Unit	Fuel-or-Prch c/MMBtu <F> \$/MWh <P>	Start Cost \$1000	O&M Fixed \$1000	O&M Varbl \$1000	Opertg Cost \$/MWh	Total Cost \$/MWh	Total Cost \$1000
Native Load	2876.1										10.00	0
Dump Power	0.0											
Tran. Losses	0.0											
LESS Resources (Exports):												
1 Lignite	1680.1	83.2	178	12675		155.4	49	10768	9050	25.08	31.52	52954
2 Subbituminous	735.8	90.7	10	9899		227.4	0	2462	1202	24.15	27.49	20230
3 CTS	10.3	1.2	122	14092		781.1	11	1033	27	112.73	213.82	2208
4 ICs	0.0	0.3	2	11000		2421.4	2	7	0	269.02	1096.88	9
5 Renewables	204.0	100.0	1	0.0		1.37	0	1291	0	1.37	7.70	1570
6 Purchases	298.2	10.8	296	7954		26.68	0	4057	0	26.68	40.29	12011
7 Sales	-52.6	100.0	0	-1277		0.00	0	0	0	24.29	24.29	-1277
Resource Totals	2875.9		609	28724.8	11839		59	19618	10280	23.65	30.50	87705
Fuel demand charges												
E.N.S.	0.2											272
SYSTEM												32
												88009

Spinning reserve deficit report

Type No.	Deficit area	Hrs	Spinning reserve- MWh	Cost	Primary reserve- MWh	Cost
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-

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Time of Day Marginal Cost Summary

Period	Total hours	% of hours	Average Marg Cost
1 Winter off peak	5832	66.6	27.60
3 Summer off peak	2240	25.6	25.20
4 Summer on peak	688	7.9	25.94
Total	8760	100.0	26.86

Percent Time at Margin, by Station Group

Groups	Time of Day Periods				All
	1	2	3	4	
1 Lignite	36.5	0.0	38.4	15.8	35.4
2 Subbituminous	10.7	0.0	14.6	0.7	10.9
3 CTs	0.1	0.0	0.0	0.0	0.1
4 ICs	0.0	0.0	0.0	0.0	0.0
5 Renewables	0.0	0.0	0.0	0.0	0.0
6 Purchases	52.6	0.0	46.8	82.7	53.5
7 Sales	0.0	0.0	0.0	0.0	0.0
Dump Power	0.0	0.0	0.0	0.0	0.0
E.N.S.	0.1	0.0	0.0	0.7	0.1

Cost at Margin, by Period and Station Group (mills)

Groups	Time of Day Periods				All
	1	2	3	4	
1 Lignite	29.6	0.0	29.1	36.8	29.7
2 Subbituminous	20.8	0.0	20.8	23.1	20.8
3 CTs	57.2	0.0	132.5	0.0	72.3
4 ICs	0.0	0.0	0.0	0.0	0.0
5 Renewables	0.0	0.0	0.0	0.0	0.0
6 Purchases	27.3	0.0	23.3	22.9	25.8
7 Sales	0.0	0.0	0.0	0.0	0.0
Dump Power	10.0	0.0	10.0	0.0	10.0
E.N.S.	140.0	0.0	0.0	140.0	140.0

Continues...

Fuel Use Report

No.	Fuel	GBtu used	Commod \$000	Volume1 \$000	Volume2 \$000	Demand \$000	Total \$000	c/GBtu average	Units used
1	Coyote Lignite	8994.39	11828	36	0	0	11864	131.9	655663.19
2	Bigstone Subbit	7265.91	16011	114	0	0	16125	221.9	431211.31
3	Coyote Oil	22.54	546	0	0	0	546	2421.4	161016.59
4	Bigstone Oil	18.21	441	0	0	0	441	2421.4	130073.59
5	Glendive Diesel	0.09	2	0	0	0	2	2421.4	628.57
6	Heskett1 Lignite	2113.11	3249	161	0	0	3410	161.4	152241.53
7	Heskett2 Lignite	6193.82	10696	478	0	0	11174	180.4	446240.59
8	Heskett2 Gas	5.58	44	0	0	0	44	794.0	5100.05
9	Williston Gas	0.79	6	0	0	0	6	794.0	726.58
10	L&C Lignite	3952.92	5812	136	0	228	6177	156.3	301473.62
11	L&C Gas	12.72	99	0	0	2	101	794.0	10779.92
12	MilesCity Gas	24.27	190	0	0	15	204	841.0	23565.78
13	Glendive1 Gas	44.24	346	0	0	14	360	812.8	46081.73
14	Glendive2 Gas	76.22	595	0	0	14	609	799.3	79393.62
15	New Gas	0.00	0	0	0	0	0	0.0	0.00

16

No. Station	Energy GWh	Prd %	Fuel Burn Giga Btu	Heat Rate Btu/kWh	Hours per Unit	Fuel-or-Prch c/MMBtu	Start Cost \$1000	O&M Fixed \$1000	O&M Varbl \$1000	Opertg Cost \$/MWh	Total Cost \$/MWh	Total Cost \$1000
1 Coyote	798.5	93.3	11	11296	8014	138.4	12488	0	2554	18.26	21.46	17138
2 Big Stone I	741.4	91.3	9	9888	8037	239.9	17589	0	2524	25.40	28.80	21354
3 Heskett 2	464.3	77.9	7	13622	7957	187.1	11837	22	4119	35.14	44.06	20457
4 Lewis & Clark	305.6	85.6	7	13099	7924	158.7	6351	21	2701	27.13	36.04	11013
5 Heskett 1	131.0	77.8	10	16822	7901	166.5	3671	10	1662	35.23	48.00	6289
6 Lewis & Clark pk	0.3	0.7	165	11500	6068	803.0	27	0	0	98.69	98.69	28
7 Glendive CT 1	3.1	1.0	41	16631	312	803.0	417	5	403	136.27	267.09	833
8 Glendive CT 2	6.1	1.8	63	12109	604	803.0	594	4	306	99.96	150.68	920
9 Glendive Diesel	0.0	0.0	0	0	0	0.0	0	0	7	0.00	0.00	7
10 Miles City CT	1.6	0.8	27	17707	155	803.0	233	3	309	144.92	335.60	550
11 Williston CT	0.0	0.1	2	20700	2	816.0	3	0	41	171.64	2293.03	44
12 New Comb Turbine	1.3	2.3	2	10700	17	720.0	98	7	66	79.90	137.26	175
13 Diamond Willow	99.5	100.0	0	0	8760	0.00	0	0	536	0.00	5.38	536
14 Cedar Hills	64.7	100.0	0	0	8760	0.00	0	0	491	0.00	7.60	491
15 New Wind Plant	0.0	0.0	0	0	0	0.0	0	0	0	0.00	0.00	0
16 Glen Ullin Stat6	40.0	100.0	1	0	8712	7.11	284	0	251	7.11	13.40	536
17 WAPA Bill Credit	14.3	100.0	0	0	8760	40.42	578	0	0	40.42	40.42	578
18 MISO Sales	-43.4	100.0	0	0	8760	24.41	-1060	0	0	24.41	24.41	-1060
19 MISO Purchases	332.6	19.0	220	0	7351	26.35	8763	0	0	26.35	26.35	8763
20 NSP Purchase 1	0.0	0.0	0	0	8760	0.0	0	0	0	0.00	0.00	0
21 NSP Purchase 2	0.0	0.0	0	0	8760	0.0	0	0	0	0.00	0.00	0
22 WEPCO Purchase	1.1	0.1	5	0	0	116.00	123	0	4104	116.00	3987.23	4226
23 ND State Capitol	0.0	0.0	0	0	0	0.0	0	0	128	0.00	0.00	128
SYSTEM PRODUCTION	2962.1	0.0	570	11843	0	0.0	61994	73	20202	24.55	31.40	93006

No. Group	Energy GWh	Prd %	Fuel Burn Giga Btu	Heat Rate Btu/kWh	Hours per Unit	Fuel-or-Prch c/MMBtu	Start Cost \$1000	O&M Fixed \$1000	O&M Varbl \$1000	Opertg Cost \$/MWh	Total Cost \$/MWh	Total Cost \$1000
Native Load	2962.3										10.00	0
Dump Power	0.0											
TRAN. Losses	0.0											
LESS Resources (Exports):												
1 Lignite	1699.7	84.2	201	12681		159.5	34373	53	11037	25.79	32.31	54926
2 Subbituminous	741.4	91.3	9	9888		239.9	17589	0	2524	25.40	28.80	21354
3 CTs	12.2	1.3	134	13889		796.3	1345	19	1125	113.34	207.45	2522
4 ICs	0.0	0.0	0	0		0.00	0	0	7	0.00	0.00	7
5 Renewables	204.2	100.0	1	284		1.39	284	0	1279	1.39	7.65	1563
6 Purchases	347.9	12.4	225	9464		27.20	9464	0	4231	27.20	39.36	13695
7 Sales	-43.4	100.0	0	-1060		0.00	-1060	0	0	24.41	24.41	-1060
Resource Totals	2962.1		570	11843		0.00	61994	73	20202	24.55	31.40	93006
Fuel demand charges												285
E.N.S.	0.3											140.00
SYSTEM												39
												31.51
												93330

Spinning reserve deficit report

Type No.	Deficit area	Hrs	Cost MWh	Primary reserve-MWh	Cost
-Spinning reserve-					
-Spinning reserve-					

17

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Time of Day Marginal Cost Summary

Period	Total hours	% of hours	Average Marg Cost
1 Winter off peak	5832	66.6	28.32
3 Summer off peak	2232	25.5	26.15
4 Summer on peak	696	7.9	27.67
Total	8760	100.0	27.71

Percent Time at Margin, by Station Group

Groups	Time of Day Periods				All
	1	2	3	4	
1 Lignite	34.7	0.0	37.2	9.9	33.4
2 Subbituminous	7.8	0.0	12.7	0.9	8.5
3 CTs	0.1	0.0	0.0	0.3	0.1
4 ICs	0.0	0.0	0.0	0.0	0.0
5 Renewables	0.0	0.0	0.0	0.0	0.0
6 Purchases	57.4	0.0	50.0	86.6	57.9
7 Sales	0.0	0.0	0.0	0.0	0.0
Dump Power	0.0	0.0	0.0	0.0	0.0
E.N.S.	0.1	0.0	0.0	2.3	0.2

Cost at Margin, by Period and Station Group (mills)

Groups	Time of Day Periods				All
	1	2	3	4	
1 Lignite	30.4	0.0	30.7	36.1	30.6
2 Subbituminous	22.0	0.0	21.9	23.6	22.0
3 CTs	82.8	0.0	0.0	72.4	78.7
4 ICs	0.0	0.0	0.0	0.0	0.0
5 Renewables	0.0	0.0	0.0	0.0	0.0
6 Purchases	27.8	0.0	23.9	23.6	26.4
7 Sales	0.0	0.0	0.0	0.0	0.0
Dump Power	10.0	0.0	0.0	0.0	10.0
E.N.S.	140.0	0.0	0.0	140.0	140.0

Continues...

Fuel Use Report

No. Fuel	GBtu used	Commod \$000	Volume1 \$000	Volume2 \$000	Demand \$000	Total \$000	c/GBtu average	Units used
1 Coyote Lignite	8997.40	11845	37	0	0	11882	132.1	655883.00
2 Bigstone Subbit	7313.18	16979	118	0	0	17097	233.8	434016.38
3 Coyote Oil	22.55	606	0	0	0	606	2685.7	161070.56
4 Bigstone Oil	18.33	492	0	0	0	492	2685.7	130919.73
5 Glendive Diesel	0.00	0	0	0	0	0	0.0	0.00
6 Heskett1 Lignite	2203.95	3498	172	0	0	3671	166.5	158786.05
7 Heskett2 Lignite	6319.02	11290	500	0	0	11790	186.6	455261.03
8 Heskett2 Gas	5.69	46	0	0	0	46	816.0	5203.15
9 Williston Gas	0.40	3	0	0	0	3	816.0	363.29
10 L&C Lignite	3992.51	6123	141	0	239	6504	162.9	304493.06
11 L&C Gas	14.12	113	0	0	2	115	815.0	11962.94
12 MilesCity Gas	29.00	233	0	0	15	248	854.5	28156.05
13 Glendive1 Gas	51.89	417	0	0	14	431	830.8	54050.76
14 Glendive2 Gas	73.92	594	0	0	14	608	822.4	77002.30
15 New Gas	13.64	98	0	0	0	98	720.0	13642.50

20

No. Station	Energy GWh	Prd %	Starts	Fuel Giga Btu	Heat Rate Btu/kWh	Hours per Unit	Fuel-Or-Prch c/MMBtu	Start Cost \$1000	O&M Fixed \$1000	O&M Varbl \$1000	Opertg Cost \$/MWh	Total Cost \$1000
1 Coyote	735.5	93.2	10	8308.2	11296	7383	139.5	0	2618	1979	18.44	22.00
2 Big Stone I	681.9	92.3	10	6733.0	9873	7315	248.4	0	2587	1170	26.24	30.03
3 Heskett 2	491.0	83.1	7	6660.3	13564	7888	190.9	20	4222	4856	35.79	44.43
4 Lewis & Clark	319.0	89.3	6	4160.4	13043	7980	168.2	19	2769	2075	28.44	37.18
5 Heskett 1	133.9	81.8	11	2238.9	16726	7676	170.7	11	1704	990	35.95	48.76
6 Lewis & Clark pk	0.3	0.7	182	3.5	11500	6434	856.0	30	0	2	104.95	104.95
7 Glendive CT 1	3.2	1.1	41	52.3	16607	314	856.0	448	413	9	144.95	277.71
8 Glendive CT 2	7.4	2.1	54	89.4	12013	723	856.0	765	314	21	105.62	148.18
9 Glendive Diesel	0.0	0.1	1	0.0	11000	2	2820.0	0	7	0	312.99	2052.53
10 Miles City CT	1.6	0.8	25	28.6	18114	158	856.0	245	317	4	157.85	360.24
11 Williston CT	0.0	0.3	3	0.8	20700	4	848.6	7	42	0	178.46	1265.67
12 New Comb Turbine	12.9	2.0	24	138.0	10700	172	714.0	986	820	38	79.37	149.85
13 Diamond Willow	99.5	100.0	0	0.0	0.0	8760	0.00	0	557	0	0.00	5.60
14 Cedar Hills	64.7	100.0	0	0.0	0.0	8760	0.00	0	511	0	0.00	7.90
15 New Wind Plant	0.0	0.0	0	0.0	0	0	0.0	0	0	0	0.00	0.00
16 Glen Ullin Stat6	40.0	100.0	1	0.0	0	8712	7.21	288	259	0	7.21	13.69
17 WAPA Bill Credit	14.3	100.0	0	0.0	0	8760	42.44	607	0	0	42.44	42.44
18 MISO Sales	-35.3	100.0	0	0.0	0	8760	24.53	-866	0	0	24.53	24.53
19 MISO Purchases	449.1	25.6	202	0.0	0	7575	26.10	11723	0	0	26.10	26.10
20 NSP Purchase 1	0.0	0.0	0	0.0	0	8760	0.0	0	0	0	0.00	0.00
21 NSP Purchase 2	0.0	0.0	0	0.0	0	8760	0.0	0	0	0	0.00	0.00
22 WEPKO Purchase	0.7	0.2	12	0.0	0	20	120.00	86	1740	0	120.00	2536.67
23 ND State Capitol	0.0	0.0	0	0.0	0	0	0.0	0	128	0	0.00	0.00
SYSTEM PRODUCTION	3019.8		588	28413.4	11905			66167	19007	11145	25.60	31.95

No. Group	Energy GWh	Prd %	Starts	Fuel Giga Btu	Heat Rate Btu/kWh	Hours per Unit	Fuel-Or-Prch c/MMBtu	Start Cost \$1000	O&M Fixed \$1000	O&M Varbl \$1000	Opertg Cost \$/MWh	Total Cost \$1000
Native Load	3020.8										10.00	0
Dump Power	0.0											
TRAN. LOSSES	0.0											
LESS Resources (Exports):												
1 Lignite	1679.6	86.5	216	21371.2	12724		164.5	35153	11313	9902	26.82	33.59
2 Subbituminous	681.9	92.3	10	6733.0	9873		248.4	16724	2587	1170	26.24	30.03
3 CTS	25.1	1.7	146	309.2	12312		792.6	2450	1905	72	100.47	180.34
4 ICS	0.0	0.1	1	0.0	11000		2820.0	1	7	0	312.99	2052.53
5 Renewables	204.2	100.0	1	0.0	0		1.41	288	1327	0	1.41	7.91
6 Purchases	464.2	21.1	214				26.75	12416	1868	0	26.75	30.77
7 Sales	-35.3	100.0	0				0.00	-866	0	0	24.53	24.53
Resource Totals	3019.8		588	28413.4	11905			66167	19007	11145	25.60	31.95
Fuel demand charges												
E.N.S.	1.0											297
SYSTEM												146
												32.09
												96912

Spinning reserve deficit report

Type No.	Deficit area	Hrs	MWh	Cost	Primary reserve-Hrs	Primary reserve-MWh	Cost

21

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Continues...

Time of Day Marginal Cost Summary

Period	Total hours	% of hours	Average Marg Cost
1 Winter off peak	5832	66.6	29.21
3 Summer off peak	2224	25.4	26.89
4 Summer on peak	704	8.0	27.70
Total	8760	100.0	28.50

Percent Time at Margin, by Station Group

Groups	Time of Day Periods				All
	1	2	3	4	
1 Lignite	25.1	0.0	37.2	12.4	27.1
2 Subbituminous	2.4	0.0	11.8	1.0	4.7
3 CTs	0.1	0.0	0.0	1.1	0.1
4 ICs	0.0	0.0	0.0	0.0	0.0
5 Renewables	0.0	0.0	0.0	0.0	0.0
6 Purchases	71.9	0.0	50.9	84.7	67.6
7 Sales	0.0	0.0	0.0	0.0	0.0
Dump Power	0.0	0.0	0.0	0.0	0.0
E.N.S.	0.6	0.0	0.0	0.9	0.5

Cost at Margin, by Period and Station Group (mills)

Groups	Time of Day Periods				All
	1	2	3	4	
1 Lignite	31.5	0.0	31.7	41.1	31.9
2 Subbituminous	23.0	0.0	22.7	25.4	22.8
3 CTs	88.7	0.0	59.8	63.9	71.2
4 ICs	0.0	0.0	0.0	0.0	0.0
5 Renewables	0.0	0.0	0.0	0.0	0.0
6 Purchases	27.6	0.0	24.3	24.2	26.7
7 Sales	0.0	0.0	0.0	0.0	0.0
Dump Power	0.0	0.0	0.0	0.0	0.0
E.N.S.	140.0	0.0	0.0	140.0	140.0

Continues...

Fuel Use Report

No. Fuel	GBtu used	Commed \$000	Volume1 \$000	Volume2 \$000	Demand \$000	Total \$000	c/GBtu average	Units used
1 Coyote Lignite	8287.39	10965	35	0	0	11000	132.7	604125.25
2 Bigstone Subbit	6716.18	16138	111	0	0	16249	241.9	398586.12
3 Coyote Oil	20.77	586	0	0	0	586	2820.0	148359.98
4 Bigstone Oil	16.83	475	0	0	0	475	2820.0	120232.30
5 Glendive Diesel	0.04	1	0	0	0	1	2820.0	314.29
6 Heskett1 Lignite	2238.87	3642	180	0	0	3822	170.7	161301.81
7 Heskett2 Lignite	6654.29	12127	539	0	0	12667	190.4	479415.62
8 Heskett2 Gas	5.99	51	0	0	0	51	848.6	5479.21
9 Williston Gas	0.79	7	0	0	0	7	848.6	726.58
10 L&C Lignite	4149.13	6751	150	0	250	7151	172.4	316437.78
11 L&C Gas	14.76	126	0	0	2	128	867.8	12508.02
12 MilesCity Gas	28.62	245	0	0	15	260	909.4	27786.52
13 Glendive1 Gas	52.31	448	0	0	15	463	884.2	54494.51
14 Glendive2 Gas	89.42	765	0	0	15	780	872.4	93143.85
15 New Gas	138.03	986	0	0	0	986	714.0	138030.02

24

No. Station	Energy GWh	Prd %	Fuel Burn Giga Btu	Heat Rate Btu/kWh	Hours per Unit	Fuel-or-Prch c/MMBtu <F> \$/MWh <P>	Start Cost \$1000	O&M Fixed \$1000	O&M Varbl \$1000	Opertg Cost \$/MWh	Total Cost \$/MWh	Total Cost \$1000
1 Coyote	798.3	93.2	9017.7	11297	8015	140.5	12667	2684	2201	18.63	21.99	17553
2 Big Stone I	757.4	92.3	7478.4	9874	8127	257.2	19232	2652	1332	27.15	30.65	23216
3 Heskett 2	483.8	80.7	6575.9	13592	8003	1281.1	18	4327	4904	36.62	45.60	22061
4 Lewis & Clark	312.4	87.8	4082.1	13065	7932	178.3	7279	2838	2083	29.97	39.12	12221
5 Heskett 1	120.9	77.7	2035.1	16836	7293	175.0	3561	1746	917	37.04	51.58	6235
6 Lewis & Clark pk	0.3	0.8	4.0	11500	6551	912.5	37	0	2	111.61	111.61	39
7 Glendive CT 1	3.2	1.0	51.6	16333	303	912.5	471	424	9	151.90	287.50	909
8 Glendive CT 2	7.6	2.2	88.7	11716	691	912.5	809	321	22	109.77	152.65	1156
9 Glendive Diesel	0.0	0.3	0.1	11000	4	2961.0	3	7	0	328.57	1220.09	10
10 Miles City CT	1.9	0.9	33.2	17931	181	912.5	303	43	5	166.48	343.97	637
11 Williston CT	0.0	0.1	0.4	20700	2	882.6	4	853	45	185.56	2414.34	46
12 New Comb Turbine	14.6	2.2	156.5	10700	195	736.0	1152	579	0	81.84	145.75	2132
13 Diamond Willow	99.8	100.0	0	0	8784	0.00	0	532	0	0.00	5.81	579
14 Cedar Hills	64.9	100.0	0	0	8784	0.00	0	0	0	0.00	8.19	532
15 New Wind Plant	0.0	0.0	0.0	0	0	0.00	0	0	0	0.00	0.00	0
16 Glen Ullin Stat6	40.1	100.0	1	0	8736	7.32	294	267	0	7.32	13.97	560
17 WAPA Bill Credit	14.3	100.0	0	0	8784	44.56	639	0	0	44.56	44.56	639
18 MISO Sales	-41.9	100.0	0	0	8784	24.66	-1032	0	0	24.66	24.66	-1032
19 MISO Purchases	390.9	22.3	199	0	7665	27.82	10875	0	0	27.82	27.82	10875
20 NSP Purchase 1	0.0	0.0	0.0	0	8784	0.00	0	0	0	0.00	0.00	0
21 NSP Purchase 2	0.0	0.0	0.0	0	8784	0.00	0	0	0	0.00	0.00	0
22 WPCO Purchase	0.0	0.0	0.0	0	8784	0.00	0	0	0	0.00	0.00	0
23 ND State Capitol	0.0	0.0	0.0	0	0	0.00	0	128	0	0.00	0.00	128
SYSTEM PRODUCTION	3068.5		29523.6	11808			69104	17725	11522	26.28	32.10	98494

No. Group	Energy GWh	Prd %	Fuel Burn Giga Btu	Heat Rate Btu/kWh	Hours per Unit	Fuel-or-Prch c/MMBtu <F> \$/MWh <P>	Start Cost \$1000	O&M Fixed \$1000	O&M Varbl \$1000	Opertg Cost \$/MWh	Total Cost \$/MWh	Total Cost \$1000
Native Load	3068.5		29523.6	11808			69104	17725	11522	26.28	32.10	98494
Dump Power	0.0											
Tran. Losses	0.0											
LESS Resources (Exports):												
1 Lignite	1715.7	85.4	21714.8	12656		167.4	36355	11596	10108	27.08	33.87	58108
2 Subbituminous	757.4	92.3	7478.4	9874		257.2	19232	2652	1332	27.15	30.65	23216
3 CTS	27.2	1.8	330.4	12135		828.9	2739	1965	81	103.57	179.20	4879
4 ICs	0.0	0.3	0.1	11000		2961.0	3	7	0	328.57	1220.09	10
5 Renewables	204.8	100.0	1	0		1.43	294	1378	0	1.43	8.16	1671
6 Purchases	405.2	22.9	199	0		28.41	11514	128	0	28.41	28.73	11642
7 Sales	-41.9	100.0	0	0		0.00	-1032	0	0	24.66	24.66	-1032
Resource Totals	3068.5		29523.6	11808			69104	17725	11522	26.28	32.10	98494
Fuel demand charges												309
E.N.S.	0.3											36
SYSTEM												98839

Spinning reserve deficit report

Type No.	Deficit area	Hrs	MWh	Cost	Primary reserve-MWh	Cost
1	Spinning reserve-					
2	-Primary reserve-					

25

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 2016: 12 Months thru Dec. MDU North Dakota Rate Case - Case IR: With Wind Projects * Add'l MARGCOST Info

Montana-Dakota Utility Co.

Time of Day Marginal Cost Summary

Period	Total hours	% of hours	Average Marg Cost
1 Winter off peak	5856	66.7	29.86
3 Summer off peak	2224	25.3	27.98
4 Summer on peak	704	8.0	28.15
Total	8784	100.0	29.24

Percent Time at Margin, by Station Group

Groups	Time of Day Periods				All
	1	2	3	4	
1 Lignite	29.7	0.0	35.5	4.4	29.2
2 Subbituminous	5.9	0.0	8.7	0.3	6.2
3 CTs	0.1	0.0	0.4	2.8	0.4
4 ICs	0.0	0.0	0.0	0.0	0.0
5 Renewables	0.0	0.0	0.0	0.0	0.0
6 Purchases	64.2	0.0	55.3	91.5	64.1
7 Sales	0.0	0.0	0.0	0.0	0.0
Dump Power	0.0	0.0	0.0	0.0	0.0
E.N.S.	0.1	0.0	0.0	1.0	0.2

Cost at Margin, by Period and Station Group (mills)

Groups	Time of Day Periods				All
	1	2	3	4	
1 Lignite	32.1	0.0	33.0	39.7	32.5
2 Subbituminous	23.5	0.0	23.5	25.8	23.5
3 CTs	96.1	0.0	69.6	75.4	75.5
4 ICs	0.0	0.0	0.0	0.0	0.0
5 Renewables	0.0	0.0	0.0	0.0	0.0
6 Purchases	29.1	0.0	25.0	24.9	27.7
7 Sales	0.0	0.0	0.0	0.0	0.0
Dump Power	0.0	0.0	0.0	0.0	0.0
E.N.S.	140.0	0.0	140.0	140.0	140.0

Continues...

27

Fuel Use Report

No. Fuel	GBtu used	Commod \$000	Volume1 \$000	Volume2 \$000	Demand \$000	Total \$000	c/GBtu average	Units used
1 Coyote Lignite	8995.14	11961	39	0	0	12000	133.4	655717.94
2 Bigstone Subbit	7459.67	18552	126	0	0	18679	250.4	442710.31
3 Coyote Oil	22.54	668	0	0	0	668	2961.0	161030.06
4 Bigstone Oil	18.70	554	0	0	0	554	2961.0	133542.23
5 Glendive Diesel	0.09	3	0	0	0	3	2961.0	628.57
6 Heskett1 Lignite	2035.12	3394	167	0	0	3561	175.0	146622.19
7 Heskett2 Lignite	6569.98	12213	546	0	0	12759	194.2	473341.56
8 Heskett2 Gas	5.92	52	0	0	0	52	882.6	5409.79
9 Williston Gas	0.40	4	0	0	0	4	882.6	363.29
10 L&C Lignite	4071.05	7027	151	0	261	7440	182.7	310482.44
11 L&C Gas	15.02	137	0	0	2	139	924.4	12732.73
12 MilesCity Gas	33.20	303	0	0	16	319	959.7	32236.34
13 Glendive1 Gas	51.62	471	0	0	15	486	941.8	53773.20
14 Glendive2 Gas	88.69	809	0	0	15	824	929.5	92386.15
15 New Gas	156.49	1152	0	0	0	1152	736.0	156487.52

28

No. Station	Energy GWh	Prd %	Fuel Burn Giga Btu	Heat Rate Btu/kWh	Heat Hours per Unit	Fuel-or-Prch c/MMBtu	Cost \$/MWh	Start Cost \$1000	O&M Fixed \$1000	O&M Varbl \$1000	Opertg Cost \$/MWh	Total Cost \$/MWh	Total Cost \$1000
1 Coyote	798.6	93.3	11	9020.8	11296	8014	141.5	12766	0	2751	2257	18.81	22.26
2 Big Stone I	757.7	92.6	10	7477.8	9870	8104	266.3	19911	0	2718	1366	28.08	31.67
3 Heskett 2	489.0	82.0	6	6639.0	13577	7957	198.8	13197	19	4436	5081	37.38	46.49
4 Lewis & Clark	290.4	89.1	6	3787.4	13040	7255	189.1	7160	19	2909	1985	31.49	41.57
5 Heskett 1	134.8	80.9	10	2259.5	16765	7812	179.3	4052	10	1790	1048	37.84	51.20
6 Lewis & Clark pk	0.4	0.9	165	4.5	11500	6002	972.7	44	0	0	3	118.70	118.70
7 Glendive CT 1	3.1	1.0	42	51.2	16599	307	972.7	498	5	434	9	164.40	306.87
8 Glendive CT 2	6.8	2.0	56	81.5	12023	659	972.7	793	3	329	20	119.88	168.98
9 Glendive Diesel	0.0	0.3	2	0.1	11000	4	3109.0	3	0	7	0	344.93	1258.73
10 Miles City CT	1.7	0.8	29	31.0	17787	167	972.7	302	3	333	5	175.95	368.67
11 Williston CT	0.0	0.3	2	0.8	20700	4	917.9	7	0	44	0	192.94	1335.19
12 New Comb Turbine	15.4	2.3	22	164.5	10700	205	758.0	1247	82	887	49	84.32	147.32
13 Diamond Willow	99.5	100.0	0	0.0	0	8760	0.00	0	0	603	0	0.00	6.05
14 Cedar Hills	64.7	100.0	0	0.0	0	8760	0.00	0	0	553	0	0.00	8.54
15 New Wind Plant	0.0	0.0	0	0.0	0	0	0.0	0	0	0	0	0.00	0
16 Glen Ullin Stat6	39.8	100.0	1	0.0	0	8664	7.43	296	0	338	0	7.43	15.93
17 WAPA Bill Credit	14.3	100.0	0	0.0	0	8760	46.79	669	0	0	0	46.79	46.79
18 MISO Sales	-37.9	100.0	0	0.0	0	8760	24.78	-938	0	0	0	24.78	24.78
19 MISO Purchases	438.7	25.0	155	0.0	0	7929	28.38	12451	0	0	0	28.38	28.38
20 NSP Purchase 1	0.0	0.0	0	0.0	0	8760	0.0	0	0	0	0	0.00	0
21 NSP Purchase 2	0.0	0.0	0	0.0	0	8760	0.0	0	0	0	0	0.00	0
22 WEPCO Purchase	0.0	0.0	0	0.0	0	8760	0.0	0	0	0	0	0.00	0
23 ND State Capitol	0.0	0.0	0	0.0	0	0	0.0	0	0	128	0	0.00	0.00
SYSTEM PRODUCTION	3117.0		516	29518.1	11817			72457	141	18259	11823	27.04	32.94

No. Group	Energy GWh	Prd %	Fuel Burn Giga Btu	Heat Rate Btu/kWh	Heat Hours per Unit	Fuel-or-Prch c/MMBtu	Cost \$/MWh	Start Cost \$1000	O&M Fixed \$1000	O&M Varbl \$1000	Opertg Cost \$/MWh	Total Cost \$/MWh	Total Cost \$1000
Native Load	3117.6											10.00	0
Dump Power	0.0												
TRAN. LOSSES	0.0												
LESS Resources (Exports):													
1 Lignite	1713.2	86.3	198	21711.2	12673		171.4	37219	47	11885	10373	27.78	34.75
2 Subbituminous	757.7	92.6	10	7477.8	9870		266.3	19911	0	2718	1366	28.08	31.67
3 CTS	27.0	1.8	150	329.0	12177		865.2	2847	94	2027	84	108.45	186.94
4 ICS	0.0	0.3	2	0.1	11000		3109.0	3	0	7	0	344.93	1258.73
5 Renewables	204.0	100.0	1	0.0	0		1.45	296	0	1494	0	1.45	8.77
6 Purchases	453.0	25.6	155	0.0	0		28.96	13120	0	128	0	28.96	29.24
7 Sales	-37.9	100.0	0	0.0	0		0.00	-938	0	0	0	24.78	24.78
Resource Totals	3117.0		516	29518.1	11817			72457	141	18259	11823	27.04	32.94
Fuel demand charges													322
E.N.S.	0.5												71
SYSTEM													103073

Spinning reserve deficit report

Type No.	Deficit area	Hrs	MWh	Cost	Primary reserve	MWh	Cost
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

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 2017: 12 Months thru Dec. MDU North Dakota Rate Case - Case 1R: With Wind Projects * Add'l MARGCOST Info

Montana-Dakota Utility Co.

Time of Day Marginal Cost Summary

Period	Total hours	% of hours	Average Marg Cost
1 Winter off peak	5832	66.6	30.86
3 Summer off peak	2232	25.5	28.21
4 Summer on peak	696	7.9	29.69
Total	8760	100.0	30.09

Percent Time at Margin, by Station Group

Groups	Time of Day Periods			
	1	2	3	4
1 Lignite	27.7	0.0	33.9	8.2
2 Subbituminous	3.5	0.0	8.0	1.0
3 CTs	0.0	0.0	0.0	0.4
4 ICs	0.0	0.0	0.0	0.0
5 Renewables	0.0	0.0	0.0	0.0
6 Purchases	68.4	0.0	58.1	89.4
7 Sales	0.0	0.0	0.0	0.0
Dump Power	0.0	0.0	0.0	0.0
E.N.S.	0.3	0.0	0.1	1.0

Cost at Margin, by Period and Station Group (mills)

Groups	Time of Day Periods			
	1	2	3	4
1 Lignite	33.4	0.0	33.1	58.8
2 Subbituminous	24.4	0.0	24.4	28.0
3 CTs	68.1	0.0	0.0	87.2
4 ICs	0.0	0.0	0.0	0.0
5 Renewables	0.0	0.0	0.0	0.0
6 Purchases	29.6	0.0	25.7	25.5
7 Sales	0.0	0.0	0.0	0.0
Dump Power	10.0	0.0	0.0	0.0
E.N.S.	140.0	0.0	140.0	140.0

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Fuel Use Report

No. Fuel	GBtu used	Commod \$000	Volume1 \$000	Volume2 \$000	Demand \$000	Total \$000	c/GBtu average	Units used
1 Coyote Lignite	8998.24	12025	40	0	0	12065	134.1	655943.94
2 Bigstone Subbit	7459.12	19200	129	0	0	19330	259.1	442677.56
3 Coyote Oil	22.55	701	0	0	0	701	3109.1	161085.53
4 Bigstone Oil	18.69	581	0	0	0	581	3109.1	133532.34
5 Glendive Diesel	0.09	3	0	0	0	3	3109.0	628.57
6 Heskett1 Lignite	2259.51	3862	190	0	0	4052	179.3	162788.95
7 Heskett2 Lignite	6633.02	12577	565	0	0	13142	198.1	477883.00
8 Heskett2 Gas	5.98	55	0	0	0	55	917.9	5461.69
9 Williston Gas	0.79	7	0	0	0	7	917.9	726.58
10 L&C Lignite	3777.22	6917	144	0	273	7334	194.2	288073.22
11 L&C Gas	14.71	143	0	0	2	145	985.1	12468.07
12 MilesCity Gas	31.04	302	0	0	16	318	1024.5	30133.61
13 Glendive1 Gas	51.18	498	0	0	16	513	1003.1	53310.56
14 Glendive2 Gas	81.50	793	0	0	15	808	991.6	84899.95
15 New Gas	164.51	1247	0	0	0	1247	758.0	164512.52

No. Station	Energy GWh	Prd %	Fuel Burn Giga Btu	Heat Rate Btu/kWh	Hours per Unit	Fuel-or-Prch c/MMBtu	Start Cost \$1000	OEM Fixed \$1000	OEM Varbl \$1000	Opertg Cost \$/MWh	Total Cost \$/MWh	Total Cost \$1000
1 Coyote	735.8	93.3	8311.2	11296	7383	142.6	0	2820	2132	19.00	22.84	16802
2 Big Stone I	757.1	92.5	7473.9	9871	8104	275.7	0	2786	1399	29.06	32.74	24790
3 Heskett 2	503.4	83.2	6829.1	13565	8072	202.8	21	4546	5361	38.16	47.23	23778
4 Lewis & Clark	319.6	89.5	4164.9	13030	7931	200.4	22	2982	2239	33.12	42.52	13591
5 Heskett 1	134.8	81.6	2258.7	16756	7744	183.8	11	1835	1074	38.77	52.47	7072
6 Lewis & Clark pk	0.7	1.7	8.1	11500	6526	1036.9	0	0	5	126.25	126.25	89
7 Glendive CT 1	3.3	1.1	54.3	16394	320	1036.9	4	445	10	173.00	308.69	1022
8 Glendive CT 2	6.4	1.9	76.3	11845	604	1036.9	3	338	19	125.83	178.79	1152
9 Glendive Diesel	0.0	0.3	0.1	11000	4	3264.5	0	7	0	362.10	1298.75	10
10 Miles City CT	1.3	0.6	23.3	18064	128	1036.9	4	341	4	190.32	458.14	590
11 Williston CT	0.0	0.1	0.4	20700	2	954.6	0	45	0	200.61	2542.23	49
12 New Comb Turbine	14.0	2.1	149.3	10700	186	781.0	74	922	47	86.91	158.36	2209
13 Diamond Willow	99.5	100.0	0	0	8760	0.00	0	627	0	0.00	6.30	627
14 Cedar Hills	64.7	100.0	0	0	8760	0.00	0	575	0	0.00	8.89	575
15 New Wind Plant	0.0	0.0	0.0	0	0	0.0	0	0	0	0.00	0.00	0
16 Glen Ullin Stat6	40.0	100.0	1	0	8712	7.54	302	283	0	7.54	14.62	585
17 WAPA Bill Credit	14.3	100.0	0	0	8760	49.13	703	0	0	49.13	49.13	703
18 MISO Sales	-32.1	100.0	0	0	8760	24.90	-799	0	0	24.90	24.90	-799
19 MISO Purchases	502.1	28.7	133	0	7995	28.67	14395	0	0	28.67	28.67	14395
20 NSP Purchase 1	0.0	0.0	0.0	0	8760	0.0	0	0	0	0.00	0.00	0
21 NSP Purchase 2	0.0	0.0	0.0	0	8760	0.0	0	0	0	0.00	0.00	0
22 WEPCO Purchase	0.0	0.0	0.0	0	8760	0.0	0	0	0	0.00	0.00	0
23 ND State Capital	0.0	0.0	0.0	0	0	0.0	0	128	0	0.00	0.00	128
SYSTEM PRODUCTION	3165.1		29349.5	11851		76256	140	18679	12291	27.98	33.92	107367

No. Group	Energy GWh	Prd %	Fuel Burn Giga Btu	Heat Rate Btu/kWh	Hours per Unit	Fuel-or-Prch c/MMBtu	Start Cost \$1000	OEM Fixed \$1000	OEM Varbl \$1000	Opertg Cost \$/MWh	Total Cost \$/MWh	Total Cost \$1000
Native Load	3166.6										10.00	0
Dump Power	0.0											
TRAN. LOSSES	0.0											
LESS Resources (Exports):												
1 Lignite	1694.3	86.6	21572.0	12732		177.5	54	12183	10812	28.98	36.20	61333
2 Subbituminous	757.1	92.5	7473.9	9871		275.7	0	2786	1399	29.06	32.74	24790
3 CTS	25.0	1.6	303.5	12136		911.0	86	2091	80	113.75	200.80	5022
4 ICs	0.0	0.3	0.1	11000		3264.5	0	7	0	362.10	1298.75	10
5 Renewables	204.2	100.0	1	0		1.48	0	1485	0	1.48	8.75	1786
6 Purchases	516.4	29.2	133	0		29.23	0	128	0	29.23	29.48	15235
7 Sales	-32.1	100.0	0	0		0.00	0	0	0	24.90	24.90	-799
Resource Totals	3165.1		29349.5	11851		76256	140	18679	12291	27.98	33.92	107367
Fuel demand charges												335
E.N.S.	1.5											209
SYSTEM												34.09

Spinning reserve deficit report

Type No.	Deficit area	Hrs	MWh	Cost	Primary reserve-MWh
-Spinning reserve-					
-Primary reserve-					

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Time of Day Marginal Cost Summary

Period	Total hours	% of hours	Average Marg Cost
1 Winter off peak	5832	66.6	32.22
3 Summer off peak	2240	25.6	29.03
4 Summer on peak	688	7.9	33.57
Total	8760	100.0	31.51

Percent Time at Margin, by Station Group

Groups	Time of Day Periods				All
	1	2	3	4	
1 Lignite	26.2	0.0	30.4	9.6	26.0
2 Subbituminous	3.3	0.0	9.1	1.5	4.6
3 CTs	0.2	0.0	0.0	1.6	0.3
4 ICs	0.0	0.0	0.0	0.0	0.0
5 Renewables	0.0	0.0	0.0	0.0	0.0
6 Purchases	69.5	0.0	60.5	84.4	68.4
7 Sales	0.0	0.0	0.0	0.0	0.0
Dump Power	0.0	0.0	0.0	0.0	0.0
E.N.S.	0.8	0.0	0.0	2.9	0.7

Cost at Margin, by Period and Station Group (mills)

Groups	Time of Day Periods				All
	1	2	3	4	
1 Lignite	34.5	0.0	35.2	58.6	35.4
2 Subbituminous	25.5	0.0	25.1	28.4	25.4
3 CTs	83.9	0.0	75.6	86.1	84.6
4 ICs	0.0	0.0	0.0	0.0	0.0
5 Renewables	0.0	0.0	0.0	0.0	0.0
6 Purchases	30.3	0.0	26.5	26.2	29.1
7 Sales	0.0	0.0	0.0	0.0	0.0
Dump Power	0.0	0.0	0.0	0.0	0.0
E.N.S.	140.0	0.0	0.0	140.0	140.0

Continues...

35

Fuel Use Report

No. Fuel	GBtu used	Commod \$000	Volume1 \$000	Volume2 \$000	Demand \$000	Total \$000	c/GBtu average	Units used
1 Coyote Lignite	8290.43	11134	38	0	0	11172	134.8	604347.00
2 Bigstone Subbit	7455.22	19862	133	0	0	19994	268.2	442446.16
3 Coyote Oil	20.78	678	0	0	0	678	3264.5	148414.45
4 Bigstone Oil	18.68	610	0	0	0	610	3264.5	133462.55
5 Glendive Diesel	0.09	3	0	0	0	3	3264.5	628.57
6 Heskett1 Lignite	2258.71	3957	195	0	0	4152	183.8	162731.17
7 Heskett2 Lignite	6822.98	13196	595	0	0	13791	202.1	491569.31
8 Heskett2 Gas	6.15	59	0	0	0	59	954.6	5618.11
9 Williston Gas	0.40	4	0	0	0	4	954.6	363.29
10 L&C Lignite	4153.64	8069	162	0	285	8517	205.0	316781.56
11 L&C Gas	19.34	201	0	0	2	202	1046.6	16391.01
12 MilesCity Gas	23.26	241	0	0	16	258	1107.7	22582.80
13 Glendive1 Gas	54.30	563	0	0	16	579	1066.2	56562.06
14 Glendive2 Gas	76.29	791	0	0	16	807	1057.6	79465.03
15 New Gas	149.27	1166	0	0	0	1166	781.0	149265.02

36

No. Station	Energy GWh	Prd %	Strts	Fuel Giga Btu	Heat Rate Btu/kWh	Hours per Unit	Fuel-or-Prch c/MBtu <F> \$/MWh <P>	Start Cost \$1000	O&M Fixed \$1000	O&M Varbl \$1000	Opertg Cost \$/MWh	Total Cost \$/MWh	Total Cost \$1000
1 Coyote	796.7	93.3	11	8999.5	11296	7992	143.7	0	2890	2366	19.20	22.83	18186
2 Big Stone I	756.4	92.7	9	7465.3	9869	8082	285.4	0	2855	1433	30.06	33.84	25597
3 Heskett 2	498.8	83.7	5	6764.2	13562	7957	206.9	15	4660	5445	38.98	48.35	24116
4 Lewis & Clark	320.3	90.0	7	4173.8	13032	7957	212.5	21	3056	2300	34.88	44.48	14247
5 Heskett 1	124.7	81.0	10	2093.3	16781	7226	188.4	10	1881	1019	39.79	54.94	6853
6 Lewis & Clark pk	1.0	2.3	167	11.1	11500	6655	1105.4	122	0	7	134.30	134.30	129
7 Glendive CT 1	3.6	1.1	42	58.4	16418	345	1105.4	5	456	11	184.56	314.29	1117
8 Glendive CT 2	7.9	2.3	50	93.5	11801	736	1105.4	3	346	24	133.53	177.59	1407
9 Glendive Diesel	0.0	0.2	3	0.1	11000	3	3427.7	0	8	0	380.13	1660.22	10
10 Miles City CT	0.0	0.8	28	31.8	18016	174	1105.4	3	350	5	202.23	402.43	710
11 Williston CT	0.0	0.2	2	0.6	20700	3	992.8	6	46	0	208.59	1808.70	52
12 New Comb Turbine	13.4	2.0	22	142.8	10700	178	804.0	1148	959	46	89.51	167.49	2236
13 Diamond Willow	99.5	100.0	0	0	0	8760	0.00	0	652	0	0.00	6.55	652
14 Cedar Hills	64.7	100.0	0	0	0	8760	0.00	0	598	0	0.00	9.24	598
15 New Wind Plant	0.0	0.0	0	0.0	0	0	0.00	0	0	0	0.00	0.00	0
16 Glen Ullin Stat6	40.0	100.0	1	0	0	8712	7.66	306	291	0	7.66	14.95	598
17 WAPA Bill Credit	14.3	100.0	0	0	0	8760	51.58	738	0	0	51.58	51.58	738
18 MISO Sales	-32.1	100.0	0	0	0	8760	25.03	-803	0	0	25.03	25.03	-803
19 MISO Purchases	486.6	27.8	87	0	0	8229	29.94	14567	0	0	29.94	29.94	14567
20 NSP Purchase 1	0.0	0.0	0	0.0	0	8760	0.00	0	0	0	0.00	0.00	0
21 NSP Purchase 2	0.0	0.0	0	0.0	0	8760	0.00	0	0	0	0.00	0.00	0
22 WEPCO Purchase	0.0	0.0	0	0.0	0	8760	0.00	0	0	0	0.00	0.00	0
23 ND State Capitol	0.0	0.0	0	0.0	0	0	0.00	0	128	0	0.00	0.00	128
SYSTEM PRODUCTION	3197.5		443	29834.4	11818		79167	139	19176	12657	28.72	34.76	111139

No. Group	Energy GWh	Prd %	Strts	Fuel Giga Btu	Heat Rate Btu/kWh	Hours per Unit	Fuel-or-Prch c/MBtu <F> \$/MWh <P>	Start Cost \$1000	O&M Fixed \$1000	O&M Varbl \$1000	Opertg Cost \$/MWh	Total Cost \$/MWh	Total Cost \$1000
Native Load	3199.7											10.00	0
Dump Power	0.0												
Tran. Losses	0.0												
LESS Resources (Exports):													
1 Lignite	1741.5	87.0	200	22041.9	12657		180.9	46	12487	11136	29.29	36.48	63532
2 Subbituminous	756.4	92.7	9	7465.3	9869		285.4	0	2855	1433	30.06	33.84	25597
3 CTS	26.6	1.7	144	327.1	12287		973.5	93	2157	87	132.90	207.44	5522
4 ICS	0.0	0.2	3	0.1	11000		3427.7	0	8	0	380.13	1660.22	10
5 Renewables	204.2	100.0	1	0	0		1.50	0	1541	0	1.50	9.05	1847
6 Purchases	500.9	28.4	87	0	0		30.56	0	128	0	30.56	30.81	15433
7 Sales	-32.1	100.0	0	0	0		0.00	0	0	0	25.03	25.03	-803
Resource Totals	3197.5		443	29834.4	11818		79167	139	19176	12657	28.72	34.76	111139
Fuel demand charges													350
E.N.S.	2.2												307
SYSTEM													111795

Spinning reserve deficit report

Type No. Deficit area	Hrs	Spinning reserve- MWh	Cost	Primary reserve- MWh	Cost

37

Syst 0 System

6117 485652

0 5794 449813

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Continues...

Montana-Dakota Utility Co.
 Copyright 1988-1996 by The Simulation Group L4700-5C 1 iter Convergent Monte Carlo
 Case 1R: With Wind Projects * Add'l MARGCOST Info

Time of Day Marginal Cost Summary

Period	Total hours	% of hours	Average Marg Cost
1 Winter off peak	5832	66.6	32.91
3 Summer off peak	2240	25.6	30.35
4 Summer on peak	688	7.9	38.98
Total	8760	100.0	32.73

Percent Time at Margin, by Station Group

Groups	Time of Day Periods				All
	1	2	3	4	
1 Lignite	27.2	0.0	27.1	6.1	25.5
2 Subbituminous	3.2	0.0	5.8	2.6	4.1
3 CTS	0.1	0.0	0.3	1.7	0.2
4 ICs	0.0	0.0	0.0	0.0	0.0
5 Renewables	0.0	0.0	0.0	0.0	0.0
6 Purchases	68.9	0.0	65.6	83.4	69.2
7 Sales	0.0	0.0	0.0	0.0	0.0
Dump Power	0.0	0.0	0.0	0.0	0.0
E.N.S.	0.6	0.0	0.3	6.1	0.9

Cost at Margin, by Period and Station Group (mills)

Groups	Time of Day Periods				All
	1	2	3	4	
1 Lignite	35.2	0.0	37.6	92.1	36.9
2 Subbituminous	26.2	0.0	26.1	28.8	26.3
3 CTS	85.1	0.0	78.0	91.4	86.7
4 ICs	0.0	0.0	0.0	0.0	0.0
5 Renewables	0.0	0.0	0.0	0.0	0.0
6 Purchases	31.4	0.0	27.1	26.9	29.9
7 Sales	0.0	0.0	0.0	0.0	0.0
Dump Power	0.0	0.0	0.0	0.0	0.0
E.N.S.	140.0	0.0	140.0	140.0	140.0

Continues...

Fuel Use Report

No. Fuel	GBtu used	Commod \$000	Volume1 \$000	Volume2 \$000	Demand \$000	Total \$000	c/GBtu average	Units used
1 Coyote Lignite	8977.04	12117	42	0	0	12159	135.4	654398.19
2 Bigstone Subbit	7446.63	20533	136	0	0	20669	277.6	441936.75
3 Coyote Oil	22.50	771	0	0	0	771	3427.7	160705.95
4 Bigstone Oil	18.66	640	0	0	0	640	3427.7	133308.88
5 Glendive Diesel	0.07	2	0	0	0	2	3427.7	471.43
6 Heskett1 Lignite	2093.28	3759	185	0	0	3944	188.4	150812.83
7 Heskett2 Lignite	6758.12	13332	605	0	0	13936	206.2	486896.16
8 Heskett2 Gas	6.09	60	0	0	0	60	992.8	5564.70
9 Williston Gas	0.60	6	0	0	0	6	992.8	544.94
10 L&C Lignite	4162.58	8579	167	0	298	9044	217.3	317463.06
11 L&C Gas	22.33	247	0	0	2	249	1114.0	18921.65
12 MilesCity Gas	31.77	351	0	0	17	368	1158.5	30843.56
13 Glendive1 Gas	58.37	645	0	0	16	661	1133.3	60800.39
14 Glendive2 Gas	93.52	1034	0	0	16	1050	1122.7	97413.68
15 New Gas	142.85	1148	0	0	0	1148	804.0	142845.02

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Attachment C

Syst 0 Systed 3056 150560 0 2799 133016 0

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Time of Day Marginal Cost Summary

Period	Total hours	% of hours	Average Marg Cost
1 Winter off peak	5832	66.6	25.55
3 Summer off peak	2224	25.4	23.39
4 Summer on peak	704	8.0	23.93
Total	8760	100.0	24.87

Fuel Use Report

No. Fuel	GBtu used	Commod \$000	Volume1 \$000	Volume2 \$000	Demand \$000	Total \$000	c/GBtu average	Units used
1 Coyote Lignite	8946.54	11511	33	0	0	11544	129.0	652175.44
2 Bigstone Subbit	7205.56	14522	105	0	0	14627	203.0	427629.59
3 Coyote Oil	22.42	346	0	0	0	346	1542.9	160160.11
4 Bigstone Oil	18.06	279	0	0	0	279	1542.9	128993.16
5 Glendive Diesel	0.04	1	0	0	0	1	1542.9	314.29
6 Heskett1 Lignite	2067.62	2985	147	0	0	3132	151.5	148964.11
7 Heskett2 Lignite	6264.28	10290	449	0	0	10739	171.4	451316.78
8 Heskett2 Gas	5.64	39	0	0	0	39	698.0	5158.07
9 Williston Gas	0.20	1	0	0	0	1	698.0	181.65
10 L&C Lignite	3921.24	5237	126	0	201	5563	141.9	299057.56
11 L&C Gas	11.43	78	0	0	2	80	698.4	9689.36
12 MilesCity Gas	25.18	172	0	0	14	186	738.7	24445.11
13 Glendive1 Gas	47.54	326	0	0	13	339	712.5	49524.02
14 Glendive2 Gas	71.63	491	0	0	13	504	703.1	74618.97
15 New Gas	0.00	0	0	0	0	0	0.0	0.00

3

No. Station	Energy GWh	Prd %	Fuel Burn Giga Btu	Heat Rate Btu/kWh	Hours per Unit	Fuel-or-Prch c/MMBtu	Start Cost \$1000	OEM Fixed \$1000	OEM Varbl \$1000	Opertg Cost \$/MWh	Total Cost \$/MWh	Total Cost \$1000
1 Coyote	798.5	93.3	12	11296	8015	131.7	11879	2372	1946	17.31	20.29	16197
2 Big Stone 1	658.7	91.4	8	9887	7135	216.5	14099	2344	1024	22.96	26.52	17467
3 Heskett 2	483.4	81.1	7	6568.5	7957	1131.2	11312	3825	3954	31.58	39.54	19112
4 Lewis & Clark	283.3	86.3	6	3703.0	7217	141.6	5244	2508	1670	24.40	33.32	9440
5 Heskett 1	119.0	70.6	11	2019.0	16966	158.1	3191	1544	798	33.52	46.58	5543
6 Lewis & Clark pk	0.0	0.0	116	0.1	11500	757.0	1	0	0	92.95	92.95	1
7 Glendive CT 1	3.1	1.0	41	51.2	16631	757.0	388	374	8	128.43	251.60	775
8 Glendive CT 2	6.7	1.9	51	80.0	12025	757.0	606	284	17	93.56	136.70	910
9 Glendive Diesel	0.0	0.2	2	0.1	11000	1771.4	1	6	0	197.39	1248.01	7
10 Miles City CT	1.7	0.8	30	30.3	18114	757.0	229	287	4	139.65	313.66	524
11 Williston CT	0.0	0.1	2	0.4	20700	770.0	3	38	0	161.92	2131.84	41
12 New Comb Turbine	0.0	0.0	0	0.0	0	0.0	0	0	0	0.00	0.00	0
13 Diamond Willow	0.0	0.0	0	0.0	0	0.0	0	0	0	0.00	0.00	0
14 Cedar Hills	0.0	0.0	0	0.0	0	0.0	0	0	0	0.00	0.00	0
15 New Wind Plant	0.0	0.0	0	0.0	0	0.0	0	0	0	0.00	0.00	0
16 Glen Ullin Stat6	40.0	100.0	1	0.0	8712	6.80	272	230	0	6.80	12.55	502
17 WAPA Bill Credit	14.3	100.0	0	0.0	8760	34.91	499	0	0	34.91	34.91	499
18 MISO Sales	-52.5	100.0	0	0.0	8760	24.05	-1263	0	0	24.05	24.05	-1263
19 MISO Purchases	311.7	17.8	259	0.0	7106	24.63	7676	0	0	24.63	24.63	7676
20 NSP Purchase 1	1.1	0.2	11	0.0	22	64.96	68	1859	0	64.96	1834.96	1927
21 NSP Purchase 2	0.0	0.0	0	0.0	8760	0.0	0	0	0	0.00	0.00	0
22 WEPCCO Purchase	0.0	0.0	0	0.0	8760	0.0	0	0	0	0.00	0.00	0
23 ND State Capitol	0.0	0.0	0	0.0	0	0.0	0	128	0	0.00	0.00	128
SYSTEM PRODUCTION	2668.8		556	27985.1	11886		54205	15798	9421	23.84	29.78	79486

No. Group	Energy GWh	Prd %	Fuel Burn Giga Btu	Heat Rate Btu/kWh	Hours per Unit	Fuel-or-Prch c/MMBtu	Start Cost \$1000	OEM Fixed \$1000	OEM Varbl \$1000	Opertg Cost \$/MWh	Total Cost \$/MWh	Total Cost \$1000
Native Load	2668.8										10.00	0
Dump Power	0.0											
Tran. Losses	0.0											
LESS Resources (Exports):												
1 Lignite	1684.2	84.6	152	21310.4	12653	148.4	31627	10249	8368	23.75	29.86	50294
2 Subbituminous	658.7	91.4	8	6512.7	9887	216.5	14099	2344	1024	22.96	26.52	17467
3 CTS	11.4	1.3	124	161.9	14171	757.0	1226	983	29	109.81	196.89	2250
4 ICs	0.0	0.2	2	0.1	11000	1771.4	1	6	0	197.39	1248.01	7
5 Renewables	40.0	100.0	1	0.0	8760	6.80	272	230	0	6.80	12.55	502
6 Purchases	327.0	14.7	270	8244	25.21	25.21	8244	1986	0	25.21	31.28	10230
7 Sales	-52.5	100.0	0	0.0	8760	0.00	-1263	0	0	24.05	24.05	-1263
Resource Totals	2668.8		556	27985.1	11886		54205	15798	9421	23.84	29.78	79486
Fuel demand charges												251
E.N.S.	0.0											0
SYSTEM												79737

Spinning reserve deficit report

Type No.	Deficit area	Hrs	MWh	Cost	Primary reserve-MWh	Cost
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Continues...

Time of Day Marginal Cost Summary

Period	Total hours	% of hours	Average Marg Cost
1 Winter off peak	5832	66.6	26.15
3 Summer off peak	2224	25.4	23.94
4 Summer on peak	704	8.0	23.69
Total	8760	100.0	25.39

Fuel Use Report

No. Fuel	GBtu used	Commod \$000	Volume1 \$000	Volume2 \$000	Demand \$000	Total \$000	c/GBtu average	Units used
1 Coyote Lignite	8997.23	11445	34	0	0	11479	127.6	655870.44
2 Bigstone Subbit	6496.43	13714	97	0	0	13811	212.6	385544.94
3 Coyote Oil	22.55	399	0	0	0	399	1771.4	161067.50
4 Bigstone Oil	16.28	288	0	0	0	288	1771.4	116298.46
5 Glendive Diesel	0.07	1	0	0	0	1	1771.4	471.43
6 Heskett1 Lignite	2019.00	3045	147	0	0	3191	158.1	145461.34
7 Heskett2 Lignite	6562.55	10785	482	0	0	11267	171.7	472806.25
8 Heskett2 Gas	5.91	46	0	0	0	46	770.0	5403.67
9 Williston Gas	0.40	3	0	0	0	3	770.0	363.29
10 L&C Lignite	3693.03	5047	121	0	209	5377	145.6	281652.78
11 L&C Gas	10.11	76	0	0	2	78	772.6	8563.67
12 MilesCity Gas	30.25	229	0	0	14	243	802.8	29369.30
13 Glendive1 Gas	51.22	388	0	0	13	401	783.1	53357.80
14 Glendive2 Gas	80.04	606	0	0	13	619	773.6	83377.02
15 New Gas	0.00	0	0	0	0	0	0.0	0.00

6

No. Station	Energy GWh	Prd %	Fuel Strts	Fuel Giga Btu	Heat Rate Btu/kWh	Hours per Unit	Fuel-or-Prch c/MMBtu	Cost <F> \$1000	Start Cost \$1000	O&M Fixed \$1000	O&M Varbl \$1000	Opertg Cost \$/MWh	Total Cost \$/MWh	Total Cost \$1000
1 Coyote	722.1	93.3	11	8156.5	11296	7248	132.3	10791	0	2431	1804	17.44	20.81	15026
2 Big Stone I	755.2	92.8	9	7450.5	9866	8060	220.0	16390	0	2402	1204	23.30	26.48	19996
3 Heskett 2	450.1	83.0	7	6101.7	13557	7243	178.4	10885	21	3920	3792	32.61	41.37	18618
4 Lewis & Clark	319.8	89.3	7	4169.0	13035	7961	146.2	6097	21	2571	1932	25.10	33.21	10621
5 Heskett 1	129.4	77.9	10	2176.2	16812	7788	150.2	3486	10	1582	889	33.80	46.10	5967
6 Lewis & Clark pk	0.2	0.4	164	2.1	11500	6794	774.0	16	0	0	1	95.05	95.05	17
7 Glendive CT 1	3.5	1.1	42	58.3	16443	345	774.0	451	5	384	9	129.86	239.61	849
8 Glendive CT 2	6.3	1.8	64	76.7	12162	631	774.0	594	4	291	16	96.73	143.48	905
9 Glendive Diesel	0.0	0.3	4	0.1	11000	4	2064.3	2	0	6	0	229.67	1037.33	8
10 Miles City CT	1.4	0.7	27	24.9	18065	137	774.0	193	3	294	4	142.41	358.21	494
11 Williston CT	0.0	0.0	0	0.0	0	0	0.0	0	0	39	0	0.00	0.00	39
12 New Comb Turbine	0.0	0.0	0	0.0	0	0	0.0	0	0	0	0	0.00	0.00	0
13 Diamond Willow	0.0	0.0	0	0.0	0	0	0.0	0	0	0	0	0.00	0.00	0
14 Cedar Hills	0.0	0.0	0	0.0	0	0	0.0	0	0	0	0	0.00	0.00	0
15 New Wind Plant	0.0	0.0	0	0.0	0	0	0.0	0	0	0	0	0.00	0.00	0
16 Glen Ullin Stat6	40.1	100.0	1	0.0	0	8736	6.90	277	0	237	0	6.90	12.81	514
17 WAPA Bill Credit	14.3	100.0	0	0.0	0	8784	36.66	526	0	0	0	36.66	36.66	526
18 MISO Sales	-53.2	100.0	0	0.0	0	8784	24.17	-1287	0	0	0	24.17	24.17	-1287
19 MISO Purchases	394.8	22.5	205	0.0	0	7542	24.45	9653	0	0	0	24.45	24.45	9653
20 NSP Purchase 1	0.0	0.0	0	0.0	0	8784	0.0	0	0	0	0	0.00	0.00	0
21 NSP Purchase 2	0.0	0.0	0	0.0	0	8784	0.0	0	0	0	0	0.00	0.00	0
22 WEPCO Purchase	1.0	0.2	13	0.0	0	19	115.00	114	0	2333	0	115.00	2370.56	2347
23 ND State Capitol	0.0	0.0	0	0.0	0	0	0.0	0	0	128	0	0.00	0.00	128
SYSTEM PRODUCTION	2785.0		564	28215.9	11816			58186	64	16519	9651	24.36	30.31	84420

No. Group	Energy GWh	Prd %	Fuel Strts	Fuel Giga Btu	Heat Rate Btu/kWh	Hours per Unit	Fuel-or-Prch c/MMBtu	Cost <F> \$1000	Start Cost \$1000	O&M Fixed \$1000	O&M Varbl \$1000	Opertg Cost \$/MWh	Total Cost \$/MWh	Total Cost \$1000
Native Load	2785.2												10.00	0
Dump Power	0.0													
Tran. Losses	0.0													
LESS Resources (Exports):														
1 Lignite	1621.6	86.2	199	20605.5	12707		151.8	31274	52	10505	8419	24.48	30.99	50249
2 Subbituminous	755.2	92.8	9	7450.5	9866		220.0	16390	0	2402	1204	23.30	26.48	19996
3 CTS	11.2	1.3	133	159.9	14237		774.0	1238	12	1008	29	112.79	203.61	2287
4 ICS	0.0	0.3	4	0.1	11000		2064.3	2	0	6	0	229.67	1037.33	8
5 Renewables	40.1	100.0	1	0.0	0	8736	6.90	277	0	237	0	6.90	12.81	514
6 Purchases	410.1	17.6	218	0.0	0	10292	25.10	10292	0	2361	0	25.10	30.85	12653
7 Sales	-53.2	100.0	0	0.0	0	8784	0.00	-1287	0	0	0	24.17	24.17	-1287
Resource Totals	2785.0		564	28215.9	11816			58186	64	16519	9651	24.36	30.31	84420
Fuel demand charges														260
E.N.S.	0.3													39
SYSTEM														84719

Spinning reserve deficit report

Type No. Deficit area	Hrs	Spinning reserve-MWh	Primary reserve-MWh	Cost
-Spinning reserve-				
-Primary reserve-				

Syst 0 Systd

4680 285925

0 4386 258732

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Continues...

Montana-Dakota Utility Co.

Time of Day Marginal Cost Summary

Period	Total hours	% of hours	Average Marg Cost
1 Winter off peak	5856	66.7	26.98
3 Summer off peak	2240	25.5	24.35
4 Summer on peak	688	7.8	25.04
Total	8784	100.0	26.16

Fuel Use Report

No. Fuel	GBtu used	Commod \$000	Volume1 \$000	Volume2 \$000	Demand \$000	Total \$000	c/GBtu average	Units used
1 Coyote Lignite	8136.12	10338	32	0	0	10370	127.5	593097.75
2 Bigstone Subbit	7431.84	15891	114	0	0	16005	215.4	441058.69
3 Coyote Oil	20.39	421	0	0	0	421	2064.3	145651.89
4 Bigstone Oil	18.63	384	0	0	0	384	2064.3	133044.03
5 Glendive Diesel	0.09	2	0	0	0	2	2064.3	628.57
6 Heskett1 Lignite	2176.17	3324	162	0	0	3486	160.2	156784.31
7 Heskett2 Lignite	6096.24	10383	459	0	0	10842	177.8	439210.22
8 Heskett2 Gas	5.49	43	0	0	0	43	787.0	5019.70
9 Williston Gas	0.00	0	0	0	0	0	0.0	0.00
10 L&C Lignite	4157.76	5869	140	0	217	6227	149.8	317095.69
11 L&C Gas	13.31	103	0	0	2	105	786.1	11279.00
12 MilesCity Gas	24.90	193	0	0	14	207	831.0	24171.44
13 Glendive1 Gas	58.26	451	0	0	14	465	797.6	60685.02
14 Glendive2 Gas	76.74	594	0	0	14	608	791.8	79939.84
15 New Gas	0.00	0	0	0	0	0	0.0	0.00

No. Station	Energy GWh	Prd %	Fuel Burn Giga Btu	Heat Rate Btu/kWh	Hours per Unit	Fuel-or-Prch c/MMBtu <F> \$/MWh <P>	Start Cost \$1000	OEM Fixed \$1000	OEM Varbl \$1000	Opertg Cost \$/MWh	Total Cost \$/MWh	Total Cost \$1000
1 Coyote	798.5	93.3	11	9020.2	11296	8014	0	2492	2045	18.11	21.23	16952
2 Big Stone 1	749.9	92.4	10	7402.8	9872	8037	0	2462	1225	24.09	27.37	20523
3 Heskett 2	484.0	81.2	6	6576.2	13588	7957	19	4018	4529	33.95	42.29	20467
4 Lewis & Clark	315.7	88.4	6	4118.4	13044	7906	18	2635	1955	26.04	34.45	10876
5 Heskett 1	134.8	80.0	11	2260.5	16775	7901	11	1622	949	34.11	46.23	6230
6 Lewis & Clark pk	0.3	0.7	155	3.5	11500	6435	27	0	2	96.01	96.01	29
7 Glendive CT 1	3.2	1.0	41	52.4	16631	315	5	393	8	132.55	258.99	816
8 Glendive CT 2	7.0	2.0	55	83.5	12013	675	3	298	18	96.48	139.89	972
9 Glendive Diesel	0.0	0.3	2	0.1	11000	4	2	7	0	269.02	1096.88	9
10 Miles City CT	1.4	0.7	24	26.1	18114	144	3	302	4	144.13	355.52	512
11 Williston CT	0.0	0.3	3	0.8	20700	4	6	40	0	167.02	1201.84	46
12 New Comb Turbine	0.0	0.0	0	0.0	0	0	0	0	0	0.00	0.00	0
13 Diamond Willow	0.0	0.0	0	0.0	0	0	0	0	0	0.00	0.00	0
14 Cedar Hills	0.0	0.0	0	0.0	0	0	0	0	0	0.00	0.00	0
15 New Wind Plant	0.0	0.0	0	0.0	0	0	0	0	0	0.00	0.00	0
16 Glen Ullin Stat6	39.8	100.0	1	0.0	0	8664	278	304	0	7.00	14.64	582
17 WAPA Bill Credit	14.3	100.0	0	0.0	0	8760	550	0	0	38.49	38.49	550
18 MISO Sales	-52.6	100.0	0	0.0	0	8760	-1277	0	0	24.29	24.29	-1277
19 MISO Purchases	377.6	21.6	220	0.0	0	7560	9754	0	0	25.83	25.83	9754
20 NSP Purchase 1	0.0	0.0	0	0.0	0	8760	0	0	0	0.00	0.00	0
21 NSP Purchase 2	0.0	0.0	0	0.0	0	8760	0	0	0	0.00	0.00	0
22 WPCO Purchase	1.7	0.2	7	0.0	0	15	197	0	0	116.00	2434.29	4126
23 ND State Capitol	0.0	0.0	0	0.0	0	0	0	128	0	0.00	0.00	128
SYSTEM PRODUCTION	2875.6		552	29544.5	11843		60	18630	10736	25.25	31.75	91296

No. Group	Energy GWh	Prd %	Fuel Burn Giga Btu	Heat Rate Btu/kWh	Hours per Unit	Fuel-or-Prch c/MMBtu <F> \$/MWh <P>	Start Cost \$1000	OEM Fixed \$1000	OEM Varbl \$1000	Opertg Cost \$/MWh	Total Cost \$/MWh	Total Cost \$1000
Native Load	2876.1										10.00	0
Dump Power	0.0											
Tran. Losses	0.0											
LFSS Resources (Exports):												
1 Lignite	1733.3	85.8	190	21978.8	12680		49	10768	9480	25.23	31.47	54554
2 Subbituminous	749.9	92.4	10	7402.8	9872		0	2462	1225	24.09	27.37	20523
3 CTS	11.6	1.3	122	162.8	14057		11	1033	31	112.45	202.63	2346
4 ICs	0.0	0.3	2	0.1	11000		2	7	0	269.02	1096.88	9
5 Renewables	39.8	100.0	1	0.0	0		0	304	0	7.00	14.64	582
6 Purchases	393.6	14.3	227	0.0	0		0	4057	0	26.68	36.99	14558
7 Sales	-52.6	100.0	0	0.0	0		0	-1277	0	24.29	24.29	-1277
Resource Totals	2875.6		552	29544.5	11843		60	18630	10736	25.25	31.75	91296
Fuel demand charges												272
E.N.S.	0.6											81
SYSTEM												91649

Spinning reserve deficit report

Type No.	Deficit area	Hrs	Spinning reserve-MWh	Primary reserve-MWh	Cost
10					

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4458 269455

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Time of Day Marginal Cost Summary

Period	Total hours	% of hours	Average Marg Cost
1 Winter off peak	5832	66.6	28.22
3 Summer off peak	2240	25.6	25.32
4 Summer on peak	688	7.9	26.80
Total	8760	100.0	27.37

Fuel Use Report

No. Fuel	GBtu used	Commod \$000	Volume1 \$000	Volume2 \$000	Demand \$000	Total \$000	c/GBtu average	Units used
1 Coyote Lignite	8997.60	11832	36	0	0	11869	131.9	655897.31
2 Bigstone Subbit	7384.33	16272	116	0	0	16388	221.9	438238.91
3 Coyote Oil	22.55	546	0	0	0	546	2421.4	161074.08
4 Bigstone Oil	18.51	448	0	0	0	448	2421.4	132193.42
5 Glendive Diesel	0.09	2	0	0	0	2	2421.4	628.57
6 Heskett1 Lignite	2260.50	3475	173	0	0	3648	161.4	162860.34
7 Heskett2 Lignite	6570.32	11347	507	0	0	11853	180.4	473365.81
8 Heskett2 Gas	5.92	47	0	0	0	47	794.0	5410.07
9 Williston Gas	0.79	6	0	0	0	6	794.0	726.58
10 L&C Lignite	4107.29	6039	142	0	228	6409	156.0	313246.31
11 L&C Gas	14.59	114	0	0	2	116	792.3	12367.62
12 MilesCity Gas	26.08	204	0	0	15	218	836.8	25324.43
13 Glendive Gas	52.39	409	0	0	14	423	807.9	54570.48
14 Glendive2 Gas	83.51	652	0	0	14	666	797.7	86987.29
15 New Gas	0.00	0	0	0	0	0	0.0	0.00

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Time of Day Marginal Cost Summary

Period	Total hours	% of hours	Average Marg Cost
1 Winter off peak	5832	66.6	28.62
3 Summer off peak	2232	25.5	26.22
4 Summer on peak	696	7.9	28.52
Total	8760	100.0	28.00

Fuel Use Report

No. Fuel	GBtu used	Commod \$000	Volume1 \$000	Volume2 \$000	Demand \$000	Total \$000	c/GBtu average	Units used
1 Coyote Lignite	8999.79	11848	37	0	0	11886	132.1	656056.75
2 Bigstone Subbit	7400.71	17182	119	0	0	17301	233.8	439211.09
3 Coyote Oil	22.56	606	0	0	0	606	2685.7	161113.27
4 Bigstone Oil	18.55	498	0	0	0	498	2685.7	132486.69
5 Glendive Diesel	0.04	1	0	0	0	1	2685.7	314.29
6 Heskett1 Lignite	2344.25	3721	183	0	0	3904	166.5	168894.31
7 Heskett2 Lignite	6655.47	11892	526	0	0	12418	186.6	479500.41
8 Heskett2 Gas	6.00	49	0	0	0	49	816.0	5480.18
9 Williston Gas	0.40	3	0	0	0	3	816.0	363.29
10 L&C Lignite	4132.16	6338	146	0	239	6723	162.7	315143.28
11 L&C Gas	16.14	130	0	0	2	131	813.5	13679.53
12 MilesCity Gas	33.83	272	0	0	15	287	847.1	32841.99
13 Glendive1 Gas	57.54	462	0	0	14	476	828.1	59940.90
14 Glendive2 Gas	82.42	662	0	0	14	676	820.4	85856.51
15 New Gas	14.45	104	0	0	0	104	720.0	14445.00

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Time of Day Marginal Cost Summary

Period	Total hours	% of hours	Average Marg Cost
1 Winter off peak	5832	66.6	30.04
3 Summer off peak	2224	25.4	26.52
4 Summer on peak	704	8.0	28.65
Total	8760	100.0	29.03

Fuel Use Report

No. Fuel	GBtu used	Commod \$000	Volume1 \$000	Volume2 \$000	Demand \$000	Total \$000	c/GBtu average	Units used
1 Coyote Lignite	8289.70	10968	35	0	0	11003	132.7	604293.62
2 Bigstone Subbit	6760.80	16246	112	0	0	16357	241.9	401234.50
3 Coyote Oil	20.78	586	0	0	0	586	2820.0	148401.36
4 Bigstone Oil	16.94	478	0	0	0	478	2820.0	121031.16
5 Glendive Diesel	0.04	1	0	0	0	1	2820.0	314.29
6 Heskett1 Lignite	2365.97	3849	190	0	0	4039	170.7	170458.83
7 Heskett2 Lignite	6888.33	12554	558	0	0	13112	190.4	496277.41
8 Heskett2 Gas	6.21	53	0	0	0	53	848.6	5671.92
9 Williston Gas	0.79	7	0	0	0	7	848.6	726.58
10 L&C Lignite	4255.03	6923	154	0	250	7328	172.2	324513.91
11 L&C Gas	17.54	150	0	0	2	152	865.9	14863.03
12 MilesCity Gas	33.51	287	0	0	15	302	901.6	32534.85
13 Glendive1 Gas	56.18	481	0	0	15	496	882.3	58521.26
14 Glendive2 Gas	93.84	803	0	0	15	818	871.6	97754.94
15 New Gas	151.67	1083	0	0	0	1083	714.0	151672.52

No. Station	Energy GWh	Prd %	Fuel Burn Giga Btu	Heat Rate Btu/kWh	Hours per Unit	Fuel-Or-Prch c/MMBtu	Start Cost \$1000	O&M Fixed \$1000	O&M Varbl \$1000	Opertg Cost \$/MWh	Total Cost \$1000
1 Coyote	798.6	93.3	9020.6	11296	8015	140.5	12672	2684	2202	18.63	17558
2 Big Stone I	764.6	93.1	7539.6	9861	8127	257.2	19390	2652	1345	27.12	23386
3 Heskett 2	507.1	84.6	6873.3	13554	8003	194.8	13391	4327	5140	36.54	22876
4 Lewis & Clark	325.6	91.5	4235.2	13005	7951	178.3	7552	2171	29.86	29.86	12582
5 Heskett 1	129.5	83.3	2168.0	16737	7293	175.0	3793	1746	982	36.87	6533
6 Lewis & Clark pk	0.6	1.6	7.4	11500	6790	912.5	68	0	4	111.61	72
7 Glendive CT 1	3.6	1.1	58.0	16297	339	912.5	529	424	10	151.57	968
8 Glendive CT 2	8.3	2.4	96.4	11667	745	912.5	879	321	24	109.33	1227
9 Glendive Diesel	2.0	0.3	0.1	11000	4	2961.0	3	7	0	328.57	10
10 Miles City CT	2.0	0.9	35.9	17769	193	912.5	328	325	6	165.01	662
11 Williston CT	0.0	0.1	0.4	20700	2	882.6	4	43	0	185.56	46
12 New Comb Turbine	14.9	2.3	158.9	10700	198	736.0	1169	853	46	81.84	2154
13 Diamond Willow	0.0	0.0	0.0	0	0	0.0	0	0	0	0.00	0
14 Cedar Hills	0.0	0.0	0.0	0	0	0.0	0	0	0	0.00	0
15 New Wind Plant	0.0	0.0	0.0	0	0	0.0	0	0	0	0.00	0
16 Glen Ullin Stat6	40.1	100.0	1		8736	7.32	294	267	0	7.32	560
17 WAPA Bill Credit	14.3	100.0	0		8784	44.56	639	0	0	44.56	639
18 MISO Sales	-41.9	100.0	0		8784	24.66	-1032	0	0	24.66	-1032
19 MISO Purchases	500.6	28.5	125		8161	27.92	13976	0	0	27.92	13976
20 NSP Purchase 1	0.0	0.0	0.0	0	8784	0.0	0	0	0	0.00	0
21 NSP Purchase 2	0.0	0.0	0.0	0	8784	0.0	0	0	0	0.00	0
22 WEPKO Purchase	0.0	0.0	0.0	0	8784	0.0	0	0	0	0.00	0
23 ND State Capitol	0.0	0.0	0.0	0	0	0.0	0	128	0	0.00	128
SYSTEM PRODUCTION	3067.9		30193.8	11819			73653	16614	11931	27.90	102345

No. Group	Energy GWh	Prd %	Fuel Burn Giga Btu	Heat Rate Btu/kWh	Hours per Unit	Fuel-Or-Prch c/MMBtu	Start Cost \$1000	O&M Fixed \$1000	O&M Varbl \$1000	Opertg Cost \$/MWh	Total Cost \$1000
Native Load	3068.8									10.00	0
Dump Power	0.0										
Tran. Losses	0.0										
LESS Resources (Exports):											
1 Lignite	1761.5	87.7	186	12662		168.0	37475	11596	10501	27.24	59621
2 Subbituminous	764.6	93.1	10	9861		257.2	19390	2652	1345	27.12	23386
3 CTs	28.7	1.8	147	12177		832.2	2910	1965	86	104.32	5058
4 ICs	0.0	0.3	3	11000		2961.0	3	7	0	328.57	10
5 Renewables	40.1	100.0	1			7.32	294	267	0	7.32	560
6 Purchases	514.9	29.1	125			28.38	14615	128	0	28.38	14742
7 Sales	-41.9	100.0	0			0.00	-1032	0	0	24.66	-1032
Resource Totals	3067.9		471	11819			73653	16614	11931	27.90	102345
Fuel demand charges											309
E.N.S.	0.8										119
SYSTEM											102773

Spinning reserve deficit report

Type No.	Deficit area	Hrs	Spinning reserve-MWh	Cost	Primary reserve-MWh	Cost

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5460 379660

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Continues...

Time of Day Marginal Cost Summary

Period	Total hours	% of hours	Average Marg Cost
1 Winter off peak	5856	66.7	30.48
3 Summer off peak	2224	25.3	28.39
4 Summer on peak	704	8.0	30.64
Total	8784	100.0	29.97

Fuel Use Report

No. Fuel	GBtu used	Commod \$000	Volume1 \$000	Volume2 \$000	Demand \$000	Total \$000	c/GBtu average	Units used
1 Coyote Lignite	8998.09	11965	39	0	0	12004	133.4	655933.25
2 Bigstone Subbit	7520.73	18704	127	0	0	18832	250.4	446334.34
3 Coyote Oil	22.55	668	0	0	0	668	2961.0	161082.91
4 Bigstone Oil	18.85	558	0	0	0	558	2961.0	134635.39
5 Glendive Diesel	0.09	3	0	0	0	3	2961.0	628.57
6 Heskett1 Lignite	2167.96	3615	178	0	0	3793	175.0	156193.09
7 Heskett2 Lignite	6867.16	12766	570	0	0	13336	194.2	494752.09
8 Heskett2 Gas	6.19	55	0	0	0	55	882.6	5654.49
9 Williston Gas	0.40	4	0	0	0	4	882.6	363.29
10 L&C Lignite	4223.73	7291	157	0	261	7709	182.5	322127.00
11 L&C Gas	18.86	172	0	0	2	174	921.9	15987.01
12 MilesCity Gas	35.94	328	0	0	16	344	956.1	34896.96
13 Glendive1 Gas	57.99	529	0	0	15	544	938.6	60402.12
14 Glendive2 Gas	96.38	879	0	0	15	894	928.1	100392.55
15 New Gas	158.90	1169	0	0	0	1169	736.0	158895.02

21

No. Station	Energy GWh	Prd %	Strts	Fuel Burn Giga Btu	Heat Rate Btu/kWh	Hours per Unit	Fuel-or-prch c/MMBtu	Cost \$/MWh	Start Cost \$1000	O&M Fixed \$1000	O&M Varbl \$1000	Opertg Cost \$/MWh	Total Cost \$/MWh	Total Cost \$1000
1 Coyote	799.0	93.3	11	9025.3	11296	8014	141.5	12772	0	2751	2259	18.81	22.25	17782
2 Big Stone I	763.0	93.2	10	7523.5	9861	8104	266.3	20033	0	2718	1376	28.06	31.62	24126
3 Heskett 2	512.3	85.9	6	6936.7	13540	7957	198.8	13788	19	4436	5323	37.30	46.00	23566
4 Lewis & Clark	299.9	92.0	6	3896.1	12992	7255	189.1	7366	19	2909	2050	31.40	41.16	12343
5 Heskett 1	142.9	85.8	10	2384.2	16682	7812	179.3	4276	10	1790	1111	37.69	50.29	7187
6 Lewis & Clark pk	0.7	1.6	151	7.7	11500	6234	972.7	75	0	0	5	118.70	118.70	79
7 Glendive CT 1	3.5	1.1	44	56.9	16465	338	972.7	554	5	434	10	163.10	290.19	1004
8 Glendive CT 2	7.5	2.2	53	89.1	11919	712	972.7	867	3	329	22	118.87	163.36	1221
9 Glendive Diesel	0.0	0.3	2	0.1	11000	4	3109.0	3	0	7	0	344.93	1258.73	10
10 Miles City CT	1.9	0.9	30	33.8	17714	181	972.7	329	4	333	6	175.24	351.31	671
11 Williston CT	0.0	0.3	2	0.8	20700	4	917.9	7	0	44	0	192.94	1335.19	51
12 New Comb Turbine	15.2	2.3	23	162.9	10700	203	758.0	1235	86	887	49	84.32	148.19	2256
13 Diamond Willow	0.0	0.0	0	0.0	0	0	0.0	0	0	0	0	0.00	0.00	0
14 Cedar Hills	0.0	0.0	0	0.0	0	0	0.0	0	0	0	0	0.00	0.00	0
15 New Wind Plant	0.0	0.0	0	0.0	0	0	0.0	0	0	0	0	0.00	0.00	0
16 Glen Ullin Stat6	39.8	100.0	1			8664	7.43	296	0	338	0	7.43	15.93	634
17 WAPA Bill Credit	14.3	100.0	0			8760	46.79	669	0	0	0	46.79	46.79	669
18 MISO Sales	-37.9	100.0	0			8760	24.78	-938	0	0	0	24.78	24.78	-938
19 MISO Purchases	554.0	31.6	91			8263	28.47	15773	0	0	0	28.47	28.47	15773
20 NSP Purchase 1	0.0	0.0	0	0.0	0	8760	0.0	0	0	0	0	0.00	0.00	0
21 NSP Purchase 2	0.0	0.0	0	0.0	0	8760	0.0	0	0	0	0	0.00	0.00	0
22 WEPKO Purchase	0.0	0.0	0	0.0	0	8760	0.0	0	0	0	0	0.00	0.00	0
23 ND State Capitol	0.0	0.0	0	0.0	0	0	0.0	0	0	128	0	0.00	0.00	128
SYSTEM PRODUCTION	3116.1		439	30117.2	11830			77105	145	17103	12209	28.66	34.20	106562

No. Group	Energy GWh	Prd %	Strts	Fuel Burn Giga Btu	Heat Rate Btu/kWh	Hours per Unit	Fuel-or-prch c/MMBtu	Cost \$/MWh	Start Cost \$1000	O&M Fixed \$1000	O&M Varbl \$1000	Opertg Cost \$/MWh	Total Cost \$/MWh	Total Cost \$1000
Native Load	3117.6												10.00	0
Dump Power	0.0													
Tran. Losses	0.0													
LESS Resources (Exports):														
1 Lignite	1754.8	88.4	184	22250.0	12679		172.0	38277	47	11885	10747	27.94	34.74	60957
2 Subbituminous	763.0	93.2	10	7523.5	9861		266.3	20033	0	2718	1376	28.06	31.62	24126
3 CTS	28.1	1.8	151	343.6	12224		870.8	2992	98	2027	87	109.53	185.12	5204
4 ICs	0.0	0.3	2	0.1	11000		3109.0	3	0	7	0	344.93	1258.73	10
5 Renewables	39.8	100.0	1				7.43	296	0	338	0	7.43	15.93	634
6 Purchases	568.3	32.2	91				28.93	16442	0	128	0	28.93	29.16	16570
7 Sales	-37.9	100.0	0				0.00	-938	0	0	0	24.78	24.78	-938
Resource Totals	3116.1		439	30117.2	11830			77105	145	17103	12209	28.66	34.20	106562
Fuel demand charges														322
E.N.S.	1.5													205
SYSTEM														107090

Spinning reserve deficit report

Type No.	Deficit area	Hrs	Spinning reserve-MWh	Cost	Primary reserve-MWh	Cost
22						

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Time of Day Marginal Cost Summary

Period	Total hours	% of hours	Average Marg Cost
1 Winter off peak	5832	66.6	31.57
3 Summer off peak	2232	25.5	28.44
4 Summer on peak	696	7.9	32.44
Total	8760	100.0	30.84

Fuel Use Report

No. Fuel	GBtu used	Commod \$000	Volume1 \$000	Volume2 \$000	Demand \$000	Total \$000	c/GBtu average	Units used
1 Coyote Lignite	9002.73	12031	40	0	0	12071	134.1	656271.31
2 Bigstone Subbit	7504.69	19318	130	0	0	19448	259.1	445381.88
3 Coyote Oil	22.56	702	0	0	0	702	3109.1	161165.94
4 Bigstone Oil	18.81	585	0	0	0	585	3109.1	134348.09
5 Glendive Diesel	0.09	3	0	0	0	3	3109.0	628.57
6 Heskett1 Lignite	2384.24	4075	201	0	0	4276	179.3	171775.11
7 Heskett2 Lignite	6930.51	13141	590	0	0	13731	198.1	499316.03
8 Heskett2 Gas	6.24	57	0	0	0	57	917.9	5706.65
9 Williston Gas	0.79	7	0	0	0	7	917.9	726.58
10 L&C Lignite	3885.54	7115	148	0	273	7536	194.0	296334.66
11 L&C Gas	18.20	177	0	0	2	179	982.8	15421.82
12 MilesCity Gas	33.85	329	0	0	16	345	1020.2	32862.14
13 Glendive1 Gas	56.94	554	0	0	16	569	1000.0	59314.77
14 Glendive2 Gas	89.12	867	0	0	15	882	990.0	92837.70
15 New Gas	162.91	1235	0	0	0	1235	758.0	162907.52

24

No. Station	Energy GWh	Prd %	Fuel Strts	Burn Giga	Heat Rate	Hours per Unit	Fuel-Or-Prch c/MWh	Start Cost \$1000	OEM Fixed \$1000	OEM Varbl \$1000	Opertg Cost \$/MWh	Total Cost \$/MWh	Total Cost \$1000
1 Coyote	736.1	93.3	12	8314.5	11296	7383	142.6	11855	2820	2133	19.00	22.83	16808
2 Big Stone I	763.0	93.2	9	7524.2	9862	8104	275.7	20743	0	2786	29.04	32.69	24939
3 Heskett 2	523.8	86.6	7	7088.7	13534	8072	202.8	14376	0	4546	38.10	46.82	24521
4 Lewis & Clark	328.5	92.0	7	4268.8	12994	7959	200.4	8556	22	2982	33.05	42.19	13862
5 Heskett 1	143.4	86.8	11	2389.9	16668	7744	183.8	4393	11	1835	38.61	51.48	7382
6 Lewis & Clark pk	1.2	2.9	156	13.7	11500	6805	1036.9	142	0	8	126.25	126.25	150
7 Glendive CT 1	3.7	1.2	33	60.4	16172	349	1036.9	626	4	445	11	170.70	291.03
8 Glendive CT 2	7.4	2.1	60	85.6	11631	658	1036.9	887	4	338	22	123.61	170.01
9 Glendive Diesel	0.0	0.3	3	0.1	11000	4	3264.5	3	0	7	0	362.10	1298.75
10 Miles City CT	1.4	0.7	34	25.9	17876	140	1036.9	268	4	341	0	188.37	426.75
11 Williston CT	0.0	0.1	1	0.4	20700	2	954.6	4	0	45	0	200.61	2542.23
12 New Comb Turbine	14.0	2.1	23	149.3	10700	186	781.0	1166	86	922	47	86.91	159.16
13 Diamond Willow	0.0	0.0	0	0.0	0	0	0.0	0	0	0	0.00	0.00	0
14 Cedar Hills	0.0	0.0	0	0.0	0	0	0.0	0	0	0	0.00	0.00	0
15 New Wind Plant	0.0	0.0	0	0.0	0	0	0.0	0	0	0	0.00	0.00	0
16 Glen Ullin Stat6	40.0	100.0	1	0.0	0	8712	7.54	302	0	283	0	7.54	14.62
17 WAPA Bill Credit	14.3	100.0	0	0.0	0	8760	49.13	703	0	0	0	49.13	49.13
18 MISO Sales	-32.1	100.0	0	0.0	0	8760	24.90	-799	0	0	0	24.90	24.90
19 MISO Purchases	618.8	35.3	101	0.0	0	8288	28.84	17847	0	0	0	28.84	28.84
20 NSP Purchase 1	0.0	0.0	0	0.0	0	8760	0.0	0	0	0	0.00	0.00	0
21 NSP Purchase 2	0.0	0.0	0	0.0	0	8760	0.0	0	0	0	0.00	0.00	0
22 WEPKO Purchase	0.0	0.0	0	0.0	0	8760	0.0	0	0	0	0.00	0.00	0
23 ND State Capitol	0.0	0.0	0	0.0	0	0	0.0	0	0	0	0.00	0.00	0
SYSTEM PRODUCTION	3163.4		458	29921.4	11862			81072	151	17478	29.63	35.20	111358

No. Group	Energy GWh	Prd %	Fuel Strts	Burn Giga	Heat Rate	Hours per Unit	Fuel-Or-Prch c/MWh	Start Cost \$1000	OEM Fixed \$1000	OEM Varbl \$1000	Opertg Cost \$/MWh	Total Cost \$/MWh	Total Cost \$1000
Native Load	3166.6											10.00	0
Dump Power	0.0												
Tran. Losses	0.0												
LESS Resources (Exports):													
1 Lignite	1733.0	88.6	193	22075.6	12739		178.1	39323	54	12183	29.13	36.19	62723
2 Subbituminous	763.0	93.2	9	7524.2	9862		275.7	20743	0	2786	29.04	32.69	24939
3 CTs	26.5	1.7	151	321.5	12128		918.0	2951	97	2091	114.52	197.08	5224
4 ICs	0.0	0.3	3	0.1	11000		3264.5	3	0	7	362.10	1298.75	10
5 Renewables	40.0	100.0	1	0.0	0		7.54	302	0	283	0	7.54	14.62
6 Purchases	633.1	35.8	101	0.0	0		29.30	18549	0	128	0	29.30	29.50
7 Sales	-32.1	100.0	0	0.0	0		0.00	-799	0	0	24.90	24.90	-799
Resource Totals	3163.4		458	29921.4	11862			81072	151	17478	29.63	35.20	111358
Fuel demand charges													335
E.N.S.	3.2												445
SYSTEM													112138

Spinning reserve deficit report

Type No.	Deficit area	Hrs	Cost MWh	Primary reserve- MWh	Cost
-Spinning reserve-					
-Primary reserve-					

25

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PROSYM V3.1a2 Copyright 1988-1996 by The Simulation Group L4700-5C 1 iter Convergent Monte Carlo
 2018: 12 Months thru Dec. Montana-Dakota Utilities Co. North Dakota Rate Case - Case 2R: W/O Wind projects

Montana-Dakota Utility Co.

Time of Day Marginal Cost Summary

Period	Total hours	% of hours	Average Marg Cost
1 Winter off peak	5832	66.6	33.04
3 Summer off peak	2240	25.6	29.91
4 Summer on peak	688	7.9	38.11
Total	8760	100.0	32.64

Fuel Use Report

No. Fuel	GBtu used	Commod \$000	Volume1 \$000	Volume2 \$000	Demand \$000	Total \$000	c/GBtu average	Units used
1 Coyote Lignite	8293.76	11139	38	0	0	11177	134.8	604589.81
2 Bigstone Subbit	7505.41	19996	134	0	0	20129	268.2	445424.94
3 Coyote Oil	20.79	679	0	0	0	679	3264.5	148474.08
4 Bigstone Oil	18.81	614	0	0	0	614	3264.5	134361.08
5 Glendive Diesel	0.09	3	0	0	0	3	3264.5	628.57
6 Heskett1 Lignite	2389.86	4187	206	0	0	4393	183.8	172180.03
7 Heskett2 Lignite	7082.31	13697	618	0	0	14316	202.1	510252.66
8 Heskett2 Gas	6.38	61	0	0	0	61	954.6	5831.64
9 Williston Gas	0.40	4	0	0	0	4	954.6	363.29
10 L&C Lignite	4257.28	8271	166	0	285	8722	204.9	324686.12
11 L&C Gas	25.19	261	0	0	2	263	1044.4	21348.95
12 MilesCity Gas	25.89	268	0	0	16	285	1100.5	25134.42
13 Glendive1 Gas	60.36	626	0	0	16	642	1063.3	62870.46
14 Glendive2 Gas	85.57	887	0	0	16	903	1055.4	89134.95
15 New Gas	149.27	1166	0	0	0	1166	781.0	149265.02

27

No. Station	Energy GWh	Prd %	Fuel Burn Giga Btu	Heat Rate Btu/kWh	Heat Hours per Unit	Fuel-or-Prch c/MMBtu <F> \$/MWh <P>	Start Cost \$1000	O&M Fixed \$1000	O&M Varbl \$1000	Opertg Cost \$/MWh	Total Cost \$/MWh	Total Cost \$1000
1 Coyote	797.1	93.4	11	9003.7	11295	7992	12936	2890	2367	19.20	22.82	18193
2 Big Stone I	761.7	93.3	9	7510.7	9861	8082	21439	2855	1443	30.04	33.79	25737
3 Heskett 2	519.1	87.1	5	7023.9	13531	7957	14534	4660	5666	38.91	47.92	24876
4 Lewis & Clark	328.8	92.4	7	4271.9	12992	7957	9078	3056	2361	34.79	44.15	14517
5 Heskett 1	132.5	86.0	10	2211.9	16692	7226	4168	1881	1082	39.62	53.89	7140
6 Lewis & Clark pk	1.5	3.7	149	17.5	11500	6939	194	0	11	134.30	134.30	205
7 Glendive CT 1	3.9	1.2	40	63.1	16250	368	698	456	12	182.70	301.38	1171
8 Glendive CT 2	8.7	2.5	41	100.9	11598	773	1115	346	27	131.28	171.34	1491
9 Glendive Diesel	0.0	0.3	3	0.1	11000	4	3427.7	8	0	380.13	1340.20	11
10 Miles City CT	1.9	0.9	27	33.5	17775	180	370	350	6	199.56	386.82	729
11 Williston CT	0.0	0.3	2	0.8	20700	4	992.8	46	0	208.59	1408.67	54
12 New Comb Turbine	14.3	2.2	24	153.3	10700	191	1232	959	50	89.51	162.70	2331
13 Diamond Willow	0.0	0.0	0	0.0	0	0	0	0	0	0.00	0.00	0
14 Cedar Hills	0.0	0.0	0	0.0	0	0	0	0	0	0.00	0.00	0
15 New Wind Plant	0.0	0.0	0	0.0	0	0	0	0	0	0.00	0.00	0
16 Glen Ullin Stat6	40.0	100.0	1	0.0	0	8712	306	291	0	7.66	14.95	598
17 WAPA Bill Credit	14.3	100.0	0	0.0	0	8760	738	0	0	51.58	51.58	738
18 MISO Sales	-32.1	100.0	0	-32.1	0	8760	-803	0	0	25.03	25.03	-803
19 MISO Purchases	603.9	34.5	60	0.0	0	8416	18141	0	0	30.04	30.04	18141
20 NSP Purchase 1	0.0	0.0	0	0.0	0	8760	0	0	0	0.00	0.00	0
21 NSP Purchase 2	0.0	0.0	0	0.0	0	8760	0	0	0	0.00	0.00	0
22 WEPCO Purchase	0.0	0.0	0	0.0	0	8760	0	0	0	0.00	0.00	0
23 ND State Capitol	0.0	0.0	0	0.0	0	0	0	128	0	0.00	0.00	128
SYSTEM PRODUCTION	3195.7		388	30391.3	11827		84157	17927	13026	30.41	36.07	115254

No. Group	Energy GWh	Prd %	Fuel Burn Giga Btu	Heat Rate Btu/kWh	Heat Hours per Unit	Fuel-or-Prch c/MMBtu <F> \$/MWh <P>	Start Cost \$1000	O&M Fixed \$1000	O&M Varbl \$1000	Opertg Cost \$/MWh	Total Cost \$/MWh	Total Cost \$1000
Native load	3199.7										10.00	0
Dump Power	0.0											
Tran. Losses	0.0											
LESS Resources (Exports):												
1 Lignite	1779.1	88.9	182	22528.9	12663	46	40910	12487	11488	29.45	36.50	64931
2 Subbituminous	761.7	93.3	9	7510.7	9861	0	21439	2855	1443	30.04	33.79	25737
3 CTS	28.8	1.9	134	351.6	12194	100	3424	2157	95	122.02	200.30	5775
4 ICs	0.0	0.3	3	0.1	11000	3	3427.7	8	0	380.13	1340.20	11
5 Renewables	40.0	100.0	1	0.0	0	0	306	291	0	7.66	14.95	598
6 Purchases	618.2	35.0	60	0.0	0	0	18879	128	0	30.54	30.75	19006
7 Sales	-32.1	100.0	0	-32.1	0	0	-803	0	0	25.03	25.03	-803
Resource Totals	3195.7		388	30391.3	11827		84157	17927	13026	30.41	36.07	115254
Fuel demand charges												350
E.N.S.	4.1											573
SYSTEM												116176

Spinning reserve deficit report

 Type No. Deficit area Hrs MWh Cost -Primary reserve- Hrs MWh Cost

 28

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Time of Day Marginal Cost Summary

Period	Total hours	% of hours	Average Marg Cost
1 Winter off peak	5832	66.6	33.96
3 Summer off peak	2240	25.6	30.49
4 Summer on peak	688	7.9	39.48
Total	8760	100.0	33.51

Fuel Use Report

No. Fuel	GBtu used	Commod \$000	Volume1 \$000	Volume2 \$000	Demand \$000	Total \$000	c/GBtu average	Units used
1 Coyote Lignite	8981.20	12122	42	0	0	12164	135.4	654701.62
2 Bigstone Subbit	7491.95	20658	137	0	0	20795	277.6	444625.88
3 Coyote Oil	22.51	772	0	0	0	772	3427.7	160780.47
4 Bigstone Oil	18.78	644	0	0	0	644	3427.7	134120.03
5 Glendive Diesel	0.09	3	0	0	0	3	3427.7	628.57
6 Heskett1 Lignite	2211.90	3972	196	0	0	4168	188.4	159358.58
7 Heskett2 Lignite	7017.57	13844	628	0	0	14471	206.2	505588.78
8 Heskett2 Gas	6.32	63	0	0	0	63	992.8	5778.34
9 Williston Gas	0.79	8	0	0	0	8	992.8	726.58
10 L&C Lignite	4260.38	8780	171	0	298	9249	217.1	324921.91
11 L&C Gas	29.05	321	0	0	2	323	1112.0	24616.49
12 MilesCity Gas	33.50	370	0	0	17	387	1155.7	32524.03
13 Glendive1 Gas	63.13	698	0	0	16	714	1131.2	65756.33
14 Glendive2 Gas	100.92	1115	0	0	16	1132	1121.4	105120.01
15 New Gas	153.28	1232	0	0	0	1232	804.0	153277.52

**MONTANA-DAKOTA UTILITIES CO.
ADVOCACY STAFF – MARC, LLC
DATA REQUEST DATED AUGUST 23, 2010
CASE NO. PU-10-124**

NDPSC-DR-058 Provide rationale and present value calculations supporting MDU's choice to collect annual production tax credits over 10 years (Statement M, Page 44) rather than an upfront 30% tax credit from the federal treasury.

Response:

Montana-Dakota chose to collect production tax credits over 10 years because this option provided incremental savings on a net present value basis over the Federal energy tax credit option. As shown on Attachment A, the net present value of cash flows and the required internal rate of return is less utilizing the production tax credit option than the net present value of cash flows and the required internal rate of return under the tax credit option provided in Attachment B.

NORTH DAKOTA WIND GENERATION PROJECT - OWNED BY MDU
PROJECTED INCOME STATEMENTS
(000)

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Projection with Federal Production Tax Credit										
REVENUES										
Renewable Energy Credits (RECs/green tags) \$	42,542	42,542	42,542	42,542	42,542	42,542	42,542	42,542	42,542	42,542
Total Costs	739,919	757,727	793,951	812,843	832,302	820,374	842,742	865,780	889,509	913,951
GROSS PROFIT	(697,377)	(715,185)	(751,409)	(770,301)	(789,760)	(777,832)	(800,200)	(823,238)	(846,967)	(871,409)
General & Administrative Costs										
Property Taxes	290,605	275,119	259,634	244,148	228,662	213,176	197,690	182,204	166,718	151,233
	290,605	275,119	259,634	244,148	228,662	213,176	197,690	182,204	166,718	151,233
OPERATING INCOME (EBITDA)	(987,982)	(990,304)	(1,011,042)	(1,014,449)	(1,018,422)	(991,008)	(997,890)	(1,005,442)	(1,013,686)	(1,022,641)
Interest Expense	1,368,074	1,164,665	977,178	846,166	736,337	656,125	607,682	561,391	515,100	468,810
Depreciation	2,175,469	2,175,469	2,175,469	2,175,469	2,175,469	2,175,469	2,175,469	2,175,469	2,175,469	2,175,469
Pre-Tax Income	(4,531,526)	(4,330,439)	(4,163,689)	(4,036,084)	(3,930,228)	(3,822,603)	(3,781,040)	(3,742,302)	(3,704,255)	(3,666,920)
Federal Production Tax Credit	(1,358,700)	(1,423,400)	(1,423,400)	(1,488,100)	(1,488,100)	(1,552,800)	(1,552,800)	(1,617,500)	(1,617,500)	(1,682,200)
Income Taxes	(1,774,545)	(1,695,800)	(1,630,501)	(1,580,531)	(1,539,077)	(1,496,931)	(1,480,655)	(1,465,486)	(1,450,586)	(1,435,966)
ND ITC Amortization	(40,435)	(82,998)	(127,926)	(175,497)	(226,041)	(226,041)	(226,041)	(226,041)	(226,041)	(226,041)
Earnings after Interest	(1,357,846)	(1,128,240)	(981,862)	(791,956)	(677,010)	(546,831)	(521,545)	(433,276)	(410,129)	(322,713)
Earnings before Interest	(525,509)	(419,658)	(387,347)	(277,149)	(229,023)	(147,645)	(151,831)	(91,725)	(96,742)	(37,490)
Avg Equity Balance	20,746,171	17,661,574	14,818,419	12,831,693	11,166,187	9,949,818	9,215,192	8,513,218	7,811,243	7,109,269
Return on Equity - Pre-tax	(3,921,449)	(3,338,398)	(2,800,983)	(2,425,451)	(2,110,637)	(1,880,718)	(1,741,859)	(1,609,172)	(1,476,484)	(1,343,797)
Pre-Tax Income	(4,531,526)	(4,330,439)	(4,163,689)	(4,036,084)	(3,930,228)	(3,822,603)	(3,781,040)	(3,742,302)	(3,704,255)	(3,666,920)
Less: Federal Production Tax Credit (grossed up)	2,233,235	2,339,579	2,339,579	2,445,924	2,445,924	2,552,268	2,552,268	2,658,613	2,658,613	2,764,957
Total Revenue Requirement	\$(6,219,740)	\$(5,329,257)	\$(4,625,093)	\$(4,015,612)	\$(3,594,941)	\$(3,151,053)	\$(2,970,632)	\$(2,692,861)	\$(2,522,126)	\$(2,245,760)
Discounted at	9.20%									
Per kWh cost	\$ 0.096	\$ 0.082	\$ 0.071	\$ 0.062	\$ 0.056	\$ 0.049	\$ 0.046	\$ 0.042	\$ 0.039	\$ 0.035
ND ITC Amortization - Below the Line	40,435	82,998	127,926	175,497	226,041	226,041	226,041	226,041	226,041	226,041
Total kWh Generated / PTC	64,700,000	64,700,000	64,700,000	64,700,000	64,700,000	64,700,000	64,700,000	64,700,000	64,700,000	64,700,000

Net Present Value of Free Cash Flow Method	
Equity (After tax)	11.50%
Hurdle Rate:	18.90%
N.P.V. of Cash Flows	\$30,150,907
PV of Book Value (End of Contract)	0
Enterprise Value	\$30,150,907
Book value Currently	\$(43,000,000)
Net difference	\$(12,849,093)
IRR	9.09%
Calculated IRR	9.09%

**NORTH DAKOTA WIND GENERATION PROJECT - OWNED BY MDU
PROJECTED INC. STATEMENTS**
(000)

Projection with Federal Energy Tax Credit									
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9
REVENUES									
Renewable Energy Credits (RECs/green tags)	\$ 42,542	\$ 42,542	\$ 42,542	\$ 42,542	\$ 42,542	\$ 42,542	\$ 42,542	\$ 42,542	\$ 42,542
Total Costs	739,919	757,727	793,951	812,843	832,302	820,374	842,742	865,780	889,509
GROSS PROFIT	(697,377)	(715,185)	(751,409)	(770,301)	(789,760)	(777,832)	(800,200)	(823,238)	(846,967)
General & Administrative Costs									
Property Taxes	290,605	275,119	259,634	244,148	228,662	213,176	197,690	182,204	166,718
	290,605	275,119	259,634	244,148	228,662	213,176	197,690	182,204	166,718
OPERATING INCOME (EBITDA)	(987,982)	(990,304)	(1,011,042)	(1,014,449)	(1,018,422)	(991,008)	(997,890)	(1,005,442)	(1,013,686)
Interest Expense	1,174,296	786,516	613,312	489,685	385,729	309,867	274,738	253,110	231,482
Depreciation	2,175,469	2,175,469	2,175,469	2,175,469	2,175,469	2,175,469	2,175,469	2,175,469	2,175,469
PRE-TAX INCOME	(4,337,747)	(3,952,289)	(3,799,824)	(3,679,603)	(3,579,620)	(3,476,345)	(3,448,097)	(3,434,021)	(3,420,637)
Income Taxes	(1,698,662)	(1,547,717)	(1,488,011)	(1,440,933)	(1,401,779)	(1,361,337)	(1,350,275)	(1,344,763)	(1,339,521)
Fed & ND Tax Credit Amortizations	(540,710)	(583,273)	(628,201)	(675,772)	(726,316)	(726,316)	(726,316)	(726,316)	(726,316)
Earnings after Interest	(2,098,375)	(1,821,299)	(1,683,612)	(1,562,898)	(1,451,526)	(1,388,692)	(1,371,507)	(1,362,943)	(1,354,800)
Earnings before Interest	(1,383,934)	(1,342,783)	(1,310,473)	(1,264,974)	(1,216,848)	(1,200,169)	(1,204,356)	(1,208,951)	(1,213,967)
Return On Equity	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
Return On Investment	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
Avg Equity Balance	17,807,617	11,927,127	9,300,581	7,425,832	5,849,395	4,698,982	4,166,268	3,838,288	3,510,308
Return on Equity - Pre-tax	(3,366,002)	(2,254,470)	(1,757,999)	(1,403,634)	(1,105,655)	(888,203)	(787,510)	(725,515)	(663,520)
Less: Federal Production Tax Credit (grossed up)									
Total Revenue Requirement	\$ (7,703,750)	\$ (6,206,760)	\$ (5,557,823)	\$ (5,083,236)	\$ (4,685,275)	\$ (4,364,548)	\$ (4,235,607)	\$ (4,159,536)	\$ (4,084,156)
Discounted at 9.20%									
Per kWh cost	\$ 0.119	\$ 0.096	\$ 0.086	\$ 0.079	\$ 0.072	\$ 0.067	\$ 0.065	\$ 0.064	\$ 0.063
ITC Amortization - Below the Line	540,710	583,273	628,201	675,772	726,316	726,316	726,316	726,316	726,316
Total kWh Generated	64,700,000								

Net Present Value of Free Cash Flow Method

Hurdle Rate:	Equity (After tax)	11.50%
N.P.V. of Cash Flows	Equity (Pre-tax)	18.90%
PV of Book Value (End of Contract)		\$33,745,595
Enterprise Value		(0)
Book value Currently		\$33,745,595
Net difference		\$ (43,000,000)
		(\$9,254,405)

IRR	9.36%
Calculated IRR	

**MONTANA-DAKOTA UTILITIES CO.
ADVOCACY STAFF – MARC, LLC
DATA REQUEST DATED JULY 7, 2010
CASE NO. PU-10-124**

NDPSC-DR-061 What is the jurisdictional impact to North Dakota of reallocating wind farms when moving from a 12CP method to the 20/80 demand/energy split?

Response:

Please see Statement N, page 12 for the adjustment associated with reallocating the 2009 investment in Diamond Willow.

**MONTANA-DAKOTA UTILITIES CO.
ADVOCACY STAFF – MARC, LLC
DATA REQUEST DATED JULY 7, 2010
CASE NO. PU-10-124**

- NDPSC-DR-073**
- a. Please refer to Stmt M p 36-41, regarding Ad Valorem taxes; please provide a detailed supporting document for the actual Ad Valorem taxes paid for 2007 through 2010 projected, by year and by county.**
 - b. Please specify Ad Valorem tax calculation from different payable sources and how it is calculated each year for jurisdictional Electric Utilities-North Dakota.**
 - c. Please show similar Ad Valorem calculation for all wind generations.**

Response:

- a. Please see Attachment A for North Dakota, South Dakota and Montana Ad Valorem taxes for each year. These are actual taxes booked by county and do not reflect expenses allocated to North Dakota.
- b. The Ad Valorem taxes are calculated on the value of the property by function. The value of the property is based on twelve months ending July from the previous year. The taxes are then allocated according to the Cost Allocation Manual provided in NDPSC-DR-013. For example, taxes on distribution would be directly allocated to North Dakota. However, production, transmission and other functions would be allocated by state as described in the Cost Allocation Manual.
- c. Please see Statement Workpapers, Statement M, Page138 for the new wind generation calculation. The original Diamond Willow Ad Valorem taxes can be seen in Attachment A, pages 30 and 33 under Fallon County, Montana.

Response No. NDPSC-DR-073
Attachment A

Attachment A

MONTANA-DAKOTA UTILITIES COMPANY
NORTH DAKOTA PROPERTY TAXES
2008

COUNTY	TOTAL 12364.IND TAX	ELECTRIC PROPERTY			GAS PROPERTY			OTHER PROPERTY			COMMON			
		TOTAL	INTANG.	PROD.	TRANS.	DIST.	GENERAL	TOTAL	INTANG.	DIST.	GENERAL	TOTAL	INTANG.	GENERAL
ADAMS	\$68,966.15	\$0.00	\$0.00	\$0.00	\$49,899.54	\$13,756.62	\$973.92	\$2,942.25	\$651.64	\$0.00	\$0.00	\$751.98	\$0.00	\$751.98
BARNES	13,929.01	0.00	0.00	0.00	0.00	0.00	0.00	12,521.53	1,407.48	0.00	0.00	0.00	0.00	0.00
BENSON	1,560.46	0.00	0.00	0.00	0.00	0.00	1,590.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BILLINGS	1,443.98	0.00	0.00	0.00	1,413.74	0.00	0.00	1,590.46	0.00	0.00	0.00	0.00	0.00	0.00
BOBTINEAU	841.00	0.00	0.00	0.00	820.82	20.18	0.00	29.34	0.00	0.00	0.00	0.00	0.00	0.00
BOZEMAN	41,643.81	0.00	0.00	0.00	21,302.56	13,814.00	391.79	6,088.44	87.99	0.00	0.00	159.03	0.00	159.03
BURKE	16,922.26	0.00	0.00	0.00	16,416.06	0.00	422.02	446.46	6.12	0.00	0.00	53.60	0.00	53.60
BURLEIGH	948,352.32	39,432.44	0.00	0.00	78,313.20	312,584.52	29,249.46	150,238.21	1,511.10	1,511.10	0.00	338,543.48	158,250.16	180,293.33
CAVALIER	4,909.89	0.00	0.00	0.00	4,909.89	0.00	0.00	4,785.01	124.87	0.00	0.00	0.00	0.00	0.00
DICKY	49,508.64	0.00	0.00	0.00	29,899.36	18,422.54	3,154.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIVIDE	15,077.53	0.00	0.00	0.00	5,204.48	9,475.80	397.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DUNN	25,888.65	0.00	0.00	0.00	14,593.94	9,277.39	438.43	1,533.43	32.13	0.00	0.00	65.46	0.00	65.46
EDDY	5,428.67	0.00	0.00	0.00	0.00	0.00	0.00	5,329.66	89.22	0.00	0.00	0.00	0.00	0.00
EMMONS	30,895.50	0.00	0.00	0.00	8,644.04	18,213.29	489.85	3,258.00	64.64	0.00	0.00	288.52	0.00	288.52
FOSTER	5,858.73	0.00	0.00	0.00	0.00	0.00	0.00	5,858.73	483.81	0.00	0.00	0.00	0.00	0.00
GOLDEN VALLEY	34,119.78	0.00	0.00	0.00	3,460.18	7,077.90	261.03	3,740.15	58.38	0.00	0.00	167.99	0.00	167.99
GRANT	22,733.82	0.00	0.00	0.00	8,787.21	13,222.07	724.54	0.00	0.00	0.00	0.00	439.37	0.00	439.37
HETTINGER	26,803.66	0.00	0.00	0.00	11,345.66	14,852.22	705.78	6,776.75	91.12	0.00	0.00	517.86	0.00	517.86
KIDDER	12,688.40	0.00	0.00	0.00	4,547.11	8,024.19	285.10	2,884.27	45.12	0.00	0.00	0.00	0.00	0.00
LOGAN	4,766.17	0.00	0.00	0.00	803.79	3,862.38	6.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LAMOUR	12,152.88	0.00	0.00	0.00	26,243.87	17,226.86	1,479.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MCKINTOSH	44,950.72	0.00	0.00	0.00	0.00	0.00	0.00	4,421.98	65.52	0.00	0.00	0.00	0.00	0.00
MCKENZIE	11,997.38	0.00	0.00	0.00	454.88	11,233.62	309.10	11,868.65	257.92	0.00	0.00	656.27	0.00	656.27
MCCLEAN	12,135.45	0.00	0.00	0.00	0.00	0.00	0.00	12,135.45	8.88	0.00	0.00	0.00	0.00	0.00
MERCER	78,554.90	0.00	0.00	0.00	41,818.83	27,134.76	1,233.35	60,801.11	164.05	0.00	0.00	1,436.78	0.00	1,436.78
MORTON	234,166.14	0.00	0.00	0.00	33,815.38	131,494.09	1,566.35	4,844.16	65.50	0.00	0.00	105.63	0.00	105.63
MOUNTAIN	37,849.02	0.00	0.00	0.00	20,892.35	11,332.89	484.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MOUNTAIN	27,314.72	0.00	0.00	0.00	23,618.98	3,223.56	12.66	7,791.45	472.21	0.00	0.00	0.00	0.00	0.00
MOUNTAIN	7,791.45	0.00	0.00	0.00	0.00	0.00	0.00	19,345.16	5,515.60	0.00	0.00	0.00	0.00	0.00
MOUNTAIN	24,860.76	0.00	0.00	0.00	0.00	0.00	0.00	25,489.28	0.00	0.00	0.00	0.00	0.00	0.00
MOUNTAIN	13,392.87	0.00	0.00	0.00	1,146.79	11,695.65	550.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MOUNTAIN	25,489.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MOUNTAIN	1,985.60	0.00	0.00	0.00	2,249.56	1,985.60	0.00	194.85	0.00	0.00	0.00	0.63	0.00	0.63
MOUNTAIN	2,931.69	0.00	0.00	0.00	2,931.69	0.00	0.00	48,281.59	4,115.23	0.00	0.00	21,975.80	0.00	21,975.80
MOUNTAIN	206,131.44	0.00	0.00	0.00	29,528.64	97,452.87	6,75	48,111.14	8,933.36	0.00	0.00	0.00	0.00	0.00
MOUNTAIN	48,111.14	0.00	0.00	0.00	0.00	0.00	0.00	17,024.22	2,209.51	0.00	0.00	0.00	0.00	0.00
MOUNTAIN	17,024.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MOUNTAIN	127,908.86	0.00	0.00	0.00	8,829.50	10,068.34	1,834.81	109,078.21	10,486.28	0.00	0.00	0.00	0.00	0.00
MOUNTAIN	156,276.02	0.00	0.00	0.00	33,329.52	100,141.34	7,232.34	45,000.45	3,868.35	0.00	0.00	0.00	0.00	0.00
MOUNTAIN	51,482,407.02	\$39,432.44	\$28,386.00	\$468,264.67	\$665,030.37	\$60,284.44	\$619,364.41	\$2,373.57	\$48,643.69	\$0.00	\$0.00	\$378,674.66	\$150,250.16	\$220,424.50
SUB-TOTAL														

MONTANA DAKOTA UTILITIES COMPANY
NORTH DAKOTA PROPERTY TAXES
2000

	TOTAL 1,2364.1ND TAX			ELECTRIC PROPERTY			GAS PROPERTY			OTHER PROPERTY			COMMON				
	TOTAL	INTANG.	TRANS.	PROD.	TRNS.	DIST.	GENERAL	TOTAL	INTANG.	DIST.	GENERAL	TOTAL	DIST.	GENERAL	TOTAL	INTANG.	GENERAL
TOTALS PG 1	\$1,482,407.92	\$39,432.44	\$468,264.67	\$29,386.00	\$468,264.67	\$885,030.37	\$60,284.44	\$619,364.41	\$2,373.57	\$568,347.15	\$48,643.69	\$0.00	\$0.00	\$0.00	\$378,674.66	\$158,250.16	\$220,424.50
SUB-TOTAL 1,2364.1ND	\$2,480,446.99	\$39,432.44	\$468,264.67	\$29,386.00	\$468,264.67	\$885,030.37	\$60,284.44	\$619,364.41	\$2,373.57	\$568,347.15	\$48,643.69	\$0.00	\$0.00	\$0.00	\$378,674.66	\$158,250.16	\$220,424.50
MISCELLANEOUS:																	
BURLEIGH (FID)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MORTON (FID)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER (FID)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRIOR YRS ADJUS:																	
COYOTE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BURLEIGH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CAVALIER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MCINTOSH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WILLIAMS	(784.00)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	(784.00)	0.00	0.00
Misc adjustment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	\$2,479,662.99	\$39,432.44	\$468,264.67	\$29,386.00	\$468,264.67	\$885,030.37	\$60,284.44	\$619,364.41	\$2,373.57	\$568,347.15	\$48,643.69	\$0.00	\$0.00	\$0.00	\$377,890.66	\$158,250.16	\$219,630.50
COMMON APPORT: INTANGIBLE	89,411.35						89,411.35										
COMMON APPORT: GENERAL	137,874.52						137,874.52										
TOTAL (1,4081)	\$1,708,653.78	\$39,432.44	\$468,264.67	\$29,386.00	\$468,264.67	\$885,030.37	\$287,560.31	\$769,959.20	\$2,373.57	\$568,347.15	\$199,238.48	\$0.00	\$0.00	\$0.00	\$219,630.50	\$158,250.16	\$219,630.50

2

MONTANA-DAKOTA UTILITIES COMPANY
 NORTH DAKOTA PROPERTY TAXES
 2008

COUNTY	TOTAL ELECTRIC		TOTAL GAS		TOTAL OTHER		TOTAL COMMON		SUB-TOTAL 1,2364.1ND		SPECIALS	INTEREST	MDSE	OTHER	2008 TOTAL TAX	
ADAMS	\$64,620.28		\$3,593.89		\$0.00		\$751.98		\$68,966.15		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$68,966.15
BARNES	0.00		13,929.01		0.00		0.00		13,929.01		0.00	0.00	0.00	0.00	0.00	13,929.01
BENSON	0.00		1,590.46		0.00		0.00		1,590.46		0.00	0.00	0.00	0.00	0.00	1,590.46
BILLINGS	1,413.74		29.34		0.00		0.00		1,443.08		0.00	0.00	0.00	0.00	0.00	1,443.08
BOTTINEAU	841.00		0.00		0.00		0.00		841.00		0.00	0.00	0.00	0.00	0.00	841.00
BOWMAN	35,508.35		6,176.43		0.00		159.03		41,843.81		0.00	0.00	0.00	0.00	0.00	41,843.81
BURKE	18,416.08		452.58		0.00		53.60		18,922.26		0.00	0.00	0.00	0.00	0.00	18,922.26
BURLEIGH	459,579.62		150,239.21		0.00		338,543.49		948,362.32	6,422.42	0.00	0.00	0.00	997.89	0.00	955,782.63 AIR
CAVALIER	0.00		4,909.88		0.00		0.00		4,909.88	0.00	0.00	0.00	0.00	0.00	0.00	4,909.88
DICKEY	49,509.64		0.00		0.00		0.00		49,509.64	0.00	0.00	0.00	0.00	0.00	0.00	49,509.64
DIVIDE	15,077.53		0.00		0.00		0.00		15,077.53	0.00	0.00	0.00	0.00	0.00	0.00	15,077.53
DUNN	24,299.76		1,533.43		0.00		55.46		25,888.65	0.00	0.00	0.00	0.00	0.00	0.00	25,888.65
EDDY	0.00		5,428.67		0.00		0.00		5,428.67	0.00	0.00	0.00	0.00	0.00	0.00	5,428.67
EMMONS	27,347.18		3,259.80		0.00		288.52		30,895.50	0.00	0.00	0.00	0.00	0.00	0.00	30,895.50
FOSTER	0.00		5,858.73		0.00		0.00		5,858.73	0.00	0.00	0.00	0.00	0.00	0.00	5,858.73
GOLDEN VALLEY	10,799.12		3,740.15		0.00		167.99		14,707.26	0.00	0.00	0.00	0.00	0.00	0.00	14,707.26
GRANT	22,733.82		0.00		0.00		0.00		22,733.82	0.00	0.00	0.00	0.00	0.00	0.00	22,733.82
HETTINGER	26,903.66		6,776.75		0.00		439.37		34,119.78	15.76	3.55	0.00	0.00	0.00	0.00	34,139.09
KIDDER	12,866.40		2,767.89		0.00		517.86		16,152.15	0.00	0.00	0.00	0.00	0.00	0.00	16,152.15
LAMOURE	4,766.17		0.00		0.00		0.00		4,766.17	0.00	0.00	0.00	0.00	0.00	0.00	4,766.17
LOGAN	12,152.98		0.00		0.00		0.00		12,152.98	19.18	4.60	0.00	0.00	0.00	0.00	12,176.76
MCINTOSH	44,950.72		0.00		0.00		0.00		44,950.72	0.00	0.00	0.00	0.00	0.00	0.00	44,950.72
MCKENZIE	11,997.38		4,487.50		0.00		656.27		17,141.15	0.00	0.00	0.00	0.00	0.00	0.00	17,141.15
MCLEAN	0.00		12,135.45		0.00		0.00		12,135.45	0.00	0.00	0.00	0.00	0.00	0.00	12,135.45
MERCER	78,554.90		0.00		0.00		0.00		78,554.90	0.00	0.00	0.00	0.00	0.00	0.00	78,554.90
MORTON	171,928.25		60,801.11		0.00		1,436.78		234,166.14	1,167.50	0.00	0.00	0.00	0.00	0.00	235,333.64
MOUNTRAIL	32,699.23		4,844.16		0.00		105.63		37,649.02	0.00	0.00	0.00	0.00	0.00	0.00	37,649.02
OLIVER	27,314.72		0.00		0.00		0.00		27,314.72	0.00	0.00	0.00	0.00	0.00	0.00	27,314.72
PEMBINA	0.00		7,791.45		0.00		0.00		7,791.45	182.13	159.66	0.00	0.00	0.00	0.00	8,133.24
RAMSEY	0.00		24,860.76		0.00		0.00		24,860.76	0.00	0.00	0.00	0.00	0.00	0.00	24,860.76
RENVILLE	13,392.87		0.00		0.00		0.00		13,392.87	0.00	0.00	0.00	0.00	0.00	0.00	13,392.87
RICHLAND	0.00		25,489.29		0.00		0.00		25,489.29	0.00	0.00	0.00	0.00	0.00	0.00	25,489.29
SIoux	1,995.60		0.00		0.00		0.00		1,995.60	0.00	0.00	0.00	0.00	0.00	0.00	1,995.60
SLOPE	2,736.20		194.86		0.00		0.63		2,931.69	0.00	0.00	0.00	0.00	0.00	0.00	2,931.69
STARK	134,894.05		49,261.59		0.00		21,975.80		206,131.44	0.00	0.00	0.00	0.00	114.58	0.00	206,246.12 NON-OPER
STUTSMAN	0.00		48,111.14		0.00		0.00		48,111.14	0.00	0.00	0.00	0.00	0.00	0.00	48,111.14
WALSH	0.00		17,024.22		0.00		0.00		17,024.22	0.00	0.00	0.00	0.00	0.00	0.00	17,024.22
WARD	18,832.65		109,076.21		0.00		0.00		127,908.86	0.00	0.00	0.00	0.00	0.00	0.00	127,908.86
WILLIAMS	156,276.02		45,000.45		0.00		13,522.25		214,798.72	1,548.83	0.00	0.00	0.00	362.97	0.00	216,710.52 NON-OPER
SUB-TOTAL	\$1,482,407.92		\$619,364.41		\$0.00		\$378,674.66		\$2,480,446.99	\$9,355.82	\$167.81	\$0.00	\$1,475.54	\$0.00	\$0.00	\$2,491,446.16

W

	TOTAL ELECTRIC	TOTAL GAS	TOTAL OTHER	TOTAL COMMON	SUB-TOTAL 1,2364.IND	SPECIALS	INTEREST	MDSE	OTHER	2008 TOTAL TAX
TLS FROM PG 1	\$1,482,407.92	\$619,364.41	\$0.00	\$378,674.66	\$2,480,446.99	\$9,355.82	\$167.81	\$0.00	\$1,475.54	\$2,491,446.16
MISCELLANEOUS:										
BURLEIGH (FID)	0.00	0.00	0.00	0.00	0.00					0.00
MORTON (FID)	0.00	0.00	0.00	0.00	0.00					0.00
OTHER (FID)	0.00	0.00	0.00	0.00	0.00					0.00
SUB-TOTAL	\$1,482,407.92	\$619,364.41	\$0.00	\$378,674.66	\$2,480,446.99	\$9,355.82	\$167.81	\$0.00	\$1,475.54	\$2,491,446.16
PRIOR YRS ADJS:										
COYOTE	0.00	0.00	0.00	0.00	0.00					0.00
BURLEIGH	0.00	0.00	0.00	0.00	0.00					0.00
CAVALIER	0.00	0.00	0.00	0.00	0.00					0.00
MCINTOSH	0.00	0.00	0.00	0.00	0.00					0.00
WILLIAMS	0.00	0.00	0.00	(794.00)	(794.00)					(794.00)
Mdse adjustment	0.00	0.00	0.00	0.00	0.00					0.00
OTHER	0.00	0.00	0.00	0.00	0.00					0.00
TOTAL (1,4081)	\$1,482,407.92	\$619,364.41	\$0.00	\$377,880.66	\$2,479,652.99	\$9,355.82	\$167.81	\$0.00	\$1,475.54	\$2,490,652.16

MONTANA-DAKOTA UTILITIES COMPANY
 NORTH DAKOTA PROPERTY TAXES
 2008

COUNTY	2008 TAXES	2007 TAXES	INCREASE/ (DECREASE)	% INCREASE / (DECREASE)
ADAMS	\$68,966.15	\$61,991.25	6,974.90	11.251%
BARNES	\$13,929.01	12,592.68	1,336.33	10.612%
BENSON	\$1,590.46	1,269.84	320.62	25.249%
BILLINGS	\$1,443.08	1,164.49	278.59	23.924%
BOTTINEAU	\$841.00	745.81	95.19	12.763%
BOWMAN	\$41,843.81	34,352.50	7,491.31	21.807%
BURKE	\$18,922.26	16,555.71	2,366.55	14.294%
BURLEIGH	\$948,362.32	841,550.19	106,812.13	12.692%
CAVALIER	\$4,909.88	4,430.91	478.97	10.810%
DICKEY	\$49,509.64	42,006.48	7,503.16	17.862%
DIVIDE	\$15,077.53	12,955.38	2,122.15	16.380%
DUNN	\$25,888.65	24,540.21	1,348.44	5.495%
EDDY	\$5,428.67	5,062.21	366.46	7.239%
EMMONS	\$30,895.50	26,461.89	4,433.61	16.755%
FOSTER	\$5,858.73	5,389.08	469.65	8.715%
GOLDEN VALLEY	\$14,707.26	13,002.27	1,704.99	13.113%
GRANT	\$22,733.82	19,442.40	3,291.42	16.929%
HETTINGER	\$34,119.78	30,092.71	4,027.07	13.382%
KIDDER	\$16,152.15	15,294.54	857.61	5.607%
LAMOURE	\$4,766.17	4,040.01	726.16	17.974%
LOGAN	\$12,152.98	10,367.63	1,785.35	17.220%
MCINTOSH	\$44,950.72	38,089.76	6,860.96	18.013%
MCKENZIE	\$17,141.15	15,014.41	2,126.74	14.165%
MCLEAN	\$12,135.45	10,145.99	1,989.46	19.608%
MERCER	\$78,554.90	64,171.72	14,383.18	22.414%
MORTON	\$234,166.14	205,944.70	28,221.44	13.703%
MOUNTRAIL	\$37,649.02	34,516.70	3,132.32	9.075%
OLIVER	\$27,314.72	25,854.26	1,460.46	5.649%
PEMBINA	\$7,791.45	6,933.91	857.54	12.367%
RAMSEY	\$24,860.76	23,207.92	1,652.84	7.122%
RENVILLE	\$13,392.87	11,484.75	1,908.12	16.614%
RICHLAND	\$25,489.29	0.00	25,489.29	#DIV/0!
SIOUX	\$1,995.60	1,805.32	190.28	10.540%
SLOPE	\$2,931.69	2,673.51	258.18	9.657%
STARK	\$206,131.44	190,137.72	15,993.72	8.412%
STUTSMAN	\$48,111.14	44,618.86	3,492.28	7.827%
WALSH	\$17,024.22	15,387.89	1,636.33	10.634%
WARD	\$127,908.86	110,165.52	17,743.34	16.106%
WILLIAMS	\$214,798.72	200,244.83	14,553.89	7.268%
	\$2,480,446.99	\$2,183,705.96	\$296,741.03	13.589%
BURLEIGH (FID)	0.00	0.00	0.00	
MORTON (FID)	0.00	0.00	0.00	
OTHER (FID)	0.00	0.00	0.00	
SUNDRY	(794.00)	794.00	(1,588.00)	
	\$2,479,652.99	\$2,184,499.96	\$295,153.03	13.511%

PER STATEMENTS

MONTANA-DAKOTA UTILITIES COMPANY
NORTH DAKOTA PROPERTY TAXES
2007

COUNTY	TOTAL 12364.TND TAX		ELECTRIC PROPERTY			GAS PROPERTY			OTHER PROPERTY			COMMON		
	TOTAL	INTANG.	PROD.	TRANS.	DIST.	GENERAL	TOTAL	INTANG.	DIST.	GENERAL	TOTAL	INTANG.	DIST.	GENERAL
ADAMS	\$51,991.25	\$0.00	\$0.00	\$45,305.82	\$12,074.50	\$697.53	\$3,208.52	\$0.00	\$2,605.19	\$603.33	\$714.88	\$0.00	\$0.00	\$714.88
BARNES	12,992.84	0.00	0.00	0.00	0.00	0.00	12,992.84	0.00	11,246.85	1,346.03	0.00	0.00	0.00	0.00
BENSON	1,269.84	0.00	0.00	0.00	0.00	0.00	1,269.84	0.00	1,269.84	0.00	0.00	0.00	0.00	0.00
BILLINGS	1,164.49	0.00	0.00	1,141.19	0.00	0.00	23.30	0.00	23.30	0.00	0.00	0.00	0.00	0.00
BOTTINEAU	745.81	0.00	0.00	728.60	17.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BOWMAN	34,352.50	0.00	0.00	15,770.01	10,244.38	223.24	4,197.91	0.00	4,145.19	52.72	103.96	0.00	0.00	103.96
BURKE	16,555.71	0.00	0.00	16,093.10	11,470.15	341.35	4,117.79	0.00	4,071.41	4.38	50.82	0.00	0.00	50.82
BURLINGHAM	841,550.19	0.00	0.00	817,108.02	272,867.37	25,795.09	130,465.33	1,439.44	121,555.10	7,471.79	163,783.27	70-72	0.00	163,783.27
CAVALIER	4,430.81	0.00	0.00	0.00	0.00	0.00	4,430.81	0.00	4,326.06	104.85	0.00	0.00	0.00	0.00
DICKY	42,006.48	0.00	0.00	26,265.81	13,007.69	2,732.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIVIDE	12,995.36	0.00	0.00	4,601.25	8,044.48	309.67	1,432.61	0.00	1,403.49	29.12	0.00	0.00	0.00	0.00
DUNN	24,540.21	0.00	0.00	13,906.94	8,744.74	379.54	5,082.21	0.00	4,984.21	78.00	0.00	0.00	0.00	78.00
EDDY	5,062.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EMMONS	26,461.89	0.00	0.00	7,778.47	15,206.36	367.08	2,761.84	0.00	2,708.33	53.51	0.00	0.00	0.00	53.51
FOSTER	5,389.08	0.00	0.00	0.00	0.00	0.00	5,389.08	0.00	4,891.53	497.55	0.00	0.00	0.00	497.55
GOLDEN VALLEY	13,002.27	0.00	0.00	3,165.25	8,177.84	204.23	3,258.76	0.00	3,211.40	47.36	0.00	0.00	0.00	47.36
GRANT	19,442.40	0.00	0.00	7,712.85	11,139.21	590.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HETTINGER	30,092.71	0.00	0.00	10,393.47	12,803.40	530.86	5,847.09	0.00	5,874.66	72.23	0.00	0.00	0.00	72.23
KIDDER	15,294.54	0.00	0.00	4,506.35	7,396.08	235.57	2,662.90	38.24	2,587.51	37.15	0.00	0.00	0.00	37.15
LANGRISH	4,040.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LOGAN	10,367.63	0.00	0.00	22,699.13	14,206.89	1,163.64	3,932.89	0.00	3,878.51	53.38	0.00	0.00	0.00	53.38
MCKENZIE	38,088.76	0.00	0.00	4,301.39	9,772.05	235.01	10,145.99	8.64	9,957.90	188.05	0.00	0.00	0.00	188.05
MCKENZIE	15,014.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MERCER	84,171.72	0.00	0.00	31,537.34	23,271.24	1,001.58	52,485.77	17.66	52,332.24	135.87	0.00	0.00	0.00	135.87
MORTON	205,944.70	0.00	0.00	31,354.06	114,915.87	955.20	4,423.96	0.00	4,369.58	54.38	0.00	0.00	0.00	54.38
MOUNTAIN	34,516.70	0.00	0.00	20,485.50	9,041.02	429.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MOUNTRAIL	25,854.26	0.00	0.00	22,429.40	2,959.36	12.78	6,933.91	696.48	5,813.07	424.38	0.00	0.00	0.00	424.38
OLIVER	6,933.91	0.00	0.00	0.00	0.00	0.00	23,207.92	0.00	17,961.90	5,246.02	0.00	0.00	0.00	5,246.02
PENNINGTON	23,207.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RENVILLE	11,484.75	0.00	0.00	1,049.29	9,996.48	438.98	155.70	0.00	155.70	0.00	0.00	0.00	0.00	0.00
SIoux	1,805.32	0.00	0.00	0.00	1,768.80	38.52	44,412.99	0.00	40,585.54	3,827.45	0.00	0.00	0.00	3,827.45
SLOPE	2,673.51	0.00	0.00	2,107.32	403.61	6.27	44,618.86	0.00	36,153.38	8,465.48	0.00	0.00	0.00	8,465.48
STARK	190,137.72	0.00	0.00	28,770.84	86,928.83	6,811.22	93,000.04	0.00	83,006.26	9,993.78	0.00	0.00	0.00	9,993.78
STUTSMAN	44,618.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WALSH	15,387.89	0.00	0.00	6,382.51	8,927.40	1,955.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WARD	110,165.52	0.00	0.00	28,873.53	92,858.43	6,426.31	41,306.56	0.00	37,735.55	3,571.01	0.00	0.00	0.00	3,571.01
WILLIAMS	202,244.83	0.00	0.00	54,182,310.47	57,755,896.51	552,096.05	\$553,127.25	\$2,198.84	\$477,334.01	\$43,894.40	\$0.00	\$0.00	\$0.00	\$43,894.40
SUB-TOTAL	\$2,183,705.96	\$35,276.94	\$29,284.58	\$418,230.47	\$775,896.51	\$52,096.05	\$553,127.25	\$2,198.84	\$477,334.01	\$43,894.40	\$0.00	\$0.00	\$0.00	\$43,894.40
											\$349,795.16	\$146,244.17	\$0.00	\$203,550.99

NOTE: Mercer county had a school district dissolution and gave us credits on our tax statements. Their tax is misleading.

6

MONTANA-DAKOTA UTILITIES COMPANY
 NORTH DAKOTA PROPERTY TAXES
 2007

TOTAL 1,2364.1ND TAX	ELECTRIC PROPERTY				GAS PROPERTY			OTHER PROPERTY		COMMON						
	TOTAL	INTANG.	PROD.	TRANS.	DIST.	GENERAL	TOTAL	INTANG.	DIST.	GENERAL	TOTAL	INTANG.	GENERAL			
TOTALS PG 1	\$1,310,763.55	\$35,276.94	\$29,284.58	\$418,230.47	\$775,896.51	\$52,095.05	\$523,127.25	\$2,198.84	\$477,334.01	\$43,594.40	\$0.00	\$0.00	\$0.00	\$349,795.15	\$146,244.17	\$203,550.99
SUB-TOTAL 1,2364.1ND	\$2,184,499.86	\$35,276.94	\$29,284.58	\$418,230.47	\$775,896.51	\$52,095.05	\$523,127.25	\$2,198.84	\$477,334.01	\$43,594.40	\$0.00	\$0.00	\$0.00	\$349,795.15	\$146,244.17	\$203,550.99
MISCELLANEOUS:																
BURLEIGH (FD)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MORTON (FD)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER (FD)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
794.00																
Misc adjustment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	794.00
OTHER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	\$2,184,499.86	\$35,276.94	\$29,284.58	\$418,230.47	\$775,896.51	\$52,095.05	\$523,127.25	\$2,198.84	\$477,334.01	\$43,594.40	\$0.00	\$0.00	\$0.00	\$350,569.15	\$146,244.17	\$204,344.99
PRIOR YRS ADJUS:																
COYOTE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BURLEIGH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CAVALIER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MCINTOSH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WILLIAMS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
794.00																
Misc adjustment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	794.00
OTHER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	\$2,184,499.86	\$35,276.94	\$29,284.58	\$418,230.47	\$775,896.51	\$52,095.05	\$523,127.25	\$2,198.84	\$477,334.01	\$43,594.40	\$0.00	\$0.00	\$0.00	\$350,569.15	\$146,244.17	\$204,344.99
COMMON APPOINT: INTANGIBLE	80,580.53															
COMMON APPOINT: GENERAL	125,394.08															
TOTAL (1,4081)	\$2,184,499.86	\$35,276.94	\$29,284.58	\$418,230.47	\$775,896.51	\$259,059.66	\$666,751.60	\$2,198.84	\$477,334.01	\$187,218.95	\$0.00	\$0.00	\$0.00	\$350,569.15	\$146,244.17	\$204,344.99

NOTE: Mercer county had a school district dissolution and gave us credits on our tax statements. Their tax is misleading.

7

MONTANA-DAKOTA UTILITIES COMPANY
 NORTH DAKOTA PROPERTY TAXES
 2007

COUNTY	TOTAL ELECTRIC	TOTAL GAS	TOTAL OTHER	TOTAL COMMON	SUB-TOTAL 1.2364.1ND	SPECIALS	INTEREST	MDSE	OTHER	2007 TOTAL TAX
ADAMS	\$58,067.85	\$3,208.52	\$0.00	\$714.88	\$61,991.25	\$0.00	\$0.00	\$0.00	\$0.00	\$61,991.25
BARNES	0.00	12,592.68	0.00	0.00	12,592.68	0.00	0.00	0.00	0.00	12,592.68
BENSON	0.00	1,269.84	0.00	0.00	1,269.84	0.00	0.00	0.00	0.00	1,269.84
BILLINGS	1,141.19	23.30	0.00	0.00	1,164.49	0.00	0.00	0.00	0.00	1,164.49
BOTTINEAU	745.81	0.00	0.00	0.00	745.81	0.00	0.00	0.00	0.00	745.81
BOWMAN	30,050.63	4,197.91	0.00	103.96	34,352.50	0.00	0.00	0.00	0.00	34,352.50
BURKE	16,093.10	411.79	0.00	50.82	16,555.71	71.64	15.11	0.00	0.00	16,642.46
BURLEIGH	401,047.42	130,465.33	0.00	310,037.44	841,550.19	6,000.20	0.00	0.00	2,194.53	849,744.92 A/R
CAVALIER	0.00	4,430.91	0.00	0.00	4,430.91	0.00	0.00	0.00	0.00	4,430.91
DICKEY	42,006.48	0.00	0.00	0.00	42,006.48	0.00	0.00	0.00	0.00	42,006.48
DIVIDE	12,955.38	0.00	0.00	0.00	12,955.38	0.00	0.00	0.00	0.00	12,955.38
DUNN	23,031.22	1,432.61	0.00	76.38	24,540.21	0.00	0.00	0.00	0.00	24,540.21
EDDY	0.00	5,062.21	0.00	0.00	5,062.21	0.00	0.00	0.00	0.00	5,062.21
EMMONS	23,432.93	2,761.84	0.00	267.12	26,461.89	0.00	0.00	0.00	0.00	26,461.89
FOSTER	0.00	5,389.08	0.00	0.00	5,389.08	0.00	0.00	0.00	0.00	5,389.08
GOLDEN VALLEY	9,567.32	3,258.76	0.00	176.19	13,002.27	0.00	0.00	0.00	0.00	13,002.27
GRANT	19,442.40	0.00	0.00	0.00	19,442.40	0.00	0.00	0.00	0.00	19,442.40
HETTINGER	23,727.73	5,947.09	0.00	417.89	30,092.71	0.00	0.00	0.00	0.00	30,092.71
KIDDER	12,128.00	2,662.90	0.00	503.64	15,294.54	0.00	0.00	0.00	0.00	15,294.54
LAMOURE	4,040.01	0.00	0.00	0.00	4,040.01	0.00	0.00	0.00	0.00	4,040.01
LOGAN	10,367.63	0.00	0.00	0.00	10,367.63	0.00	0.00	0.00	0.00	10,367.63
MCINTOSH	38,089.76	0.00	0.00	0.00	38,089.76	0.00	0.00	0.00	0.00	38,089.76
MCKENZIE	10,427.45	3,932.89	0.00	654.07	15,014.41	0.00	0.00	0.00	0.00	15,014.41
MCLEAN	0.00	10,145.99	0.00	0.00	10,145.99	0.00	0.00	0.00	0.00	10,145.99
MERCER	64,171.72	0.00	0.00	0.00	64,171.72	0.00	0.00	0.00	0.00	64,171.72
MORTON	152,161.07	52,485.77	0.00	1,297.86	205,944.70	0.00	0.00	0.00	0.00	205,944.70
MOUNTRAIL	29,955.82	4,423.96	0.00	136.92	34,516.70	0.00	0.00	0.00	0.00	34,516.70
OLIVER	25,854.26	0.00	0.00	0.00	25,854.26	0.00	0.00	0.00	0.00	25,854.26
PENBINA	0.00	6,933.91	0.00	0.00	6,933.91	0.00	0.00	0.00	0.00	6,933.91
RAMSEY	0.00	23,207.92	0.00	0.00	23,207.92	0.00	0.00	0.00	0.00	23,207.92
RENVILLE	11,484.75	0.00	0.00	0.00	11,484.75	0.00	0.00	0.00	0.00	11,484.75
SIoux	1,805.32	0.00	0.00	0.00	1,805.32	0.00	0.00	0.00	0.00	1,805.32
SLOPE	2,517.20	155.70	0.00	0.61	2,673.51	0.00	0.00	0.00	0.00	2,673.51
STARK	124,610.89	44,412.99	0.00	21,113.84	190,137.72	0.00	0.00	0.00	114.29	190,252.01 NON-OPER
STUTSMAN	0.00	44,618.86	0.00	0.00	44,618.86	0.00	0.00	0.00	0.00	44,618.86
WALSH	0.00	15,387.89	0.00	0.00	15,387.89	0.00	0.00	0.00	0.00	15,387.89
WARD	17,165.48	93,000.04	0.00	0.00	110,165.52	0.00	0.00	0.00	0.00	110,165.52
WILLIAMS	144,694.73	41,306.56	0.00	14,243.54	200,244.83	0.00	0.00	0.00	0.00	200,244.83
SUB-TOTAL	\$1,310,783.55	\$523,127.25	\$0.00	\$349,795.16	\$2,183,705.96	\$6,071.84	\$15.11	\$0.00	\$2,308.82	\$2,192,101.73

8

TOTAL ELECTRIC	TOTAL GAS	TOTAL OTHER	TOTAL COMMON	SUB-TOTAL 1.2354.1ND	SPECIALS	INTEREST	MDSE	OTHER	2007 TOTAL TAX
\$1,310,783.55	\$523,127.25	\$0.00	\$349,795.16	\$2,183,705.96	\$6,071.84	\$15.11	\$0.00	\$2,308.82	\$2,192,101.73
0.00	0.00	0.00	0.00	0.00					
0.00	0.00	0.00	0.00	0.00					
0.00	0.00	0.00	0.00	0.00					
\$1,310,783.55	\$523,127.25	\$0.00	\$349,795.16	\$2,183,705.96	\$6,071.84	\$15.11	\$0.00	\$2,308.82	\$2,192,101.73
0.00	0.00	0.00	0.00	0.00					
0.00	0.00	0.00	0.00	0.00					
0.00	0.00	0.00	0.00	0.00					
0.00	0.00	0.00	0.00	0.00					
0.00	0.00	0.00	794.00	794.00					794.00
0.00	0.00	0.00	0.00	0.00					0.00
0.00	0.00	0.00	0.00	0.00					0.00
\$1,310,783.55	\$523,127.25	\$0.00	\$350,589.16	\$2,184,499.96	\$6,071.84	\$15.11	\$0.00	\$2,308.82	\$2,192,895.73

TLS FROM PG 1

MISCELLANEOUS:

BURLEIGH (FID)
MORTON (FID)
OTHER (FID)
SUB-TOTAL

PRIOR YRS ADJS:

COYOTE
BURLEIGH
CAVALIER
MCINTOSH
WILLIAMS
Mdse adjustment
OTHER
TOTAL (1.4081)

MONTANA-DAKOTA UTILITIES COMPANY
 NORTH DAKOTA PROPERTY TAXES
 2007

COUNTY	2007 TAXES	2006 TAXES	INCREASE/ (DECREASE)	% INCREASE / (DECREASE)
ADAMS	\$61,991.25	\$67,353.68	(5,362.43)	-7.962%
BARNES	\$12,592.68	14,071.60	(1,478.92)	-10.510%
BENSON	\$1,269.84	1,293.15	(23.31)	-1.803%
BILLINGS	\$1,164.49	1,492.26	(327.77)	-21.965%
BOTTINEAU	\$745.81	763.02	(17.21)	-2.256%
BOWMAN	\$34,352.50	36,539.17	(2,186.67)	-5.984%
BURKE	\$16,555.71	17,299.49	(743.78)	-4.299%
BURLEIGH	\$841,550.19	910,906.55	(69,356.36)	-7.614%
CAVALIER	\$4,430.91	4,760.55	(329.64)	-6.924%
DICKEY	\$42,006.48	45,340.21	(3,333.73)	-7.353%
DIVIDE	\$12,955.38	14,396.70	(1,441.32)	-10.011%
DUNN	\$24,540.21	25,550.15	(1,009.94)	-3.953%
EDDY	\$5,062.21	5,265.24	(203.03)	-3.856%
EMMONS	\$26,461.89	27,014.28	(552.39)	-2.045%
FOSTER	\$5,389.08	5,647.96	(258.88)	-4.584%
GOLDEN VALLEY	\$13,002.27	13,426.28	(424.01)	-3.158%
GRANT	\$19,442.40	19,869.81	(427.41)	-2.151%
HETTINGER	\$30,092.71	30,362.28	(269.57)	-0.888%
KIDDER	\$15,294.54	16,306.66	(1,012.12)	-6.207%
LAMOURE	\$4,040.01	4,343.10	(303.09)	-6.979%
LOGAN	\$10,367.63	10,664.62	(296.99)	-2.785%
MCINTOSH	\$38,089.76	38,916.99	(827.23)	-2.126%
MCKENZIE	\$15,014.41	15,987.31	(972.90)	-6.085%
MCCLEAN	\$10,145.99	10,497.74	(351.75)	-3.351%
MERCER	\$64,171.72	76,858.93	(12,687.21)	-16.507%
MORTON	\$205,944.70	214,707.36	(8,762.66)	-4.081%
MOUNTRAIL	\$34,516.70	37,428.92	(2,912.22)	-7.781%
OLIVER	\$25,854.26	27,649.11	(1,794.85)	-6.492%
PEMBINA	\$6,933.91	7,384.05	(450.14)	-6.096%
RAMSEY	\$23,207.92	25,157.54	(1,949.62)	-7.750%
RENVILLE	\$11,484.75	11,429.69	55.06	0.482%
SIoux	\$1,805.32	1,914.66	(109.34)	-5.711%
SLOPE	\$2,673.51	2,900.15	(226.64)	-7.815%
STARK	\$190,137.72	198,313.29	(8,175.57)	-4.123%
STUTSMAN	\$44,618.86	47,557.26	(2,938.40)	-6.179%
WALSH	\$15,387.89	17,038.68	(1,650.79)	-9.688%
WARD	\$110,165.52	116,031.37	(5,865.85)	-5.055%
WILLIAMS	\$200,244.83	223,644.27	(23,399.44)	-10.463%
	\$2,183,705.96	\$2,346,084.08	(\$162,378.12)	-6.921%
BURLEIGH (FID)	0.00	0.00	0.00	
MORTON (FID)	0.00	0.00	0.00	
OTHER (FID)	0.00	0.00	0.00	
SUNDRY	794.00	3,133.30	(2,339.30)	
	\$2,184,499.96	\$2,349,217.38	(\$164,717.42)	-7.012%

MONTANA-DAKOTA UTILITIES CO.
NORTH DAKOTA PROPERTY TAXES
2009

COUNTY	TOTAL		TOTAL		TOTAL		TOTAL		SUB-TOTAL		2009	
	ELECTRIC	GAS	OTHER	COMMON	1,2364,1ND	SPECIALS	INTEREST	MDSE	OTHER	TOTAL TAX	NON-OPER	TOTAL TAX
ADAMS	\$59,034.41	\$3,537.95	\$0.00	\$711.77	\$63,284.13	\$0.00	\$0.00	\$0.00	\$0.00	\$63,284.13		\$63,284.13
BARNES	0.00	12,142.92	0.00	0.00	12,142.92	0.00	0.00	0.00	0.00	12,142.92		12,142.92
BENSON	0.00	890.12	0.00	0.00	890.12	0.00	0.00	0.00	0.00	890.12		890.12
BILLINGS	1,432.61	30.20	0.00	0.00	1,462.81	0.00	0.00	0.00	0.00	1,462.81		1,462.81
BOTTINEAU	673.18	0.00	0.00	0.00	673.18	0.00	0.00	0.00	0.00	673.18		673.18
BOWMAN	29,425.35	5,185.63	0.00	107.28	34,718.46	0.00	0.00	0.00	0.00	34,718.46		34,718.46
BURKE	16,565.08	384.96	0.00	42.35	16,992.39	0.00	0.00	0.00	0.00	16,992.39		16,992.39
BURLEIGH	403,412.32	135,735.24	0.00	285,501.44	824,649.00	1,018.60	0.00	0.00	933.34	826,600.94	AVR	826,600.94
CAVALIER	0.00	4,613.21	0.00	0.00	4,613.21	0.00	0.00	0.00	0.00	4,613.21		4,613.21
DICKEY	46,374.04	0.00	0.00	0.00	46,374.04	272.85	85.95	0.00	0.00	46,732.84		46,732.84
DIVIDE	14,951.16	0.00	0.00	0.00	14,951.16	0.00	0.00	0.00	0.00	14,951.16		14,951.16
DUNN	20,331.64	1,482.68	0.00	33.90	21,848.22	0.00	0.00	0.00	0.00	21,848.22		21,848.22
EDDY	0.00	5,063.13	0.00	0.00	5,063.13	0.00	0.00	0.00	0.00	5,063.13		5,063.13
EMMONS	25,174.60	3,052.67	0.00	252.35	28,479.62	0.00	0.00	0.00	0.00	28,479.62		28,479.62
FOSTER	0.00	5,513.90	0.00	0.00	5,513.90	0.00	0.00	0.00	0.00	5,513.90		5,513.90
GOLDEN VALLEY	9,418.93	3,374.62	0.00	138.62	12,932.17	0.00	0.00	0.00	0.00	12,932.17		12,932.17
GRANT	21,297.11	0.00	0.00	0.00	21,297.11	0.00	0.00	0.00	0.00	21,297.11		21,297.11
HETTINGER	24,910.10	6,890.36	0.00	482.76	32,263.22	0.00	0.00	0.00	0.00	32,263.22		32,263.22
KIDDER	11,688.69	2,586.22	0.00	458.25	14,733.16	10.02	1.04	0.00	0.00	14,744.22		14,744.22
LAMOURE	4,366.43	0.00	0.00	0.00	4,366.43	0.00	0.00	0.00	0.00	4,366.43		4,366.43
LOGAN	11,012.41	0.00	0.00	0.00	11,012.41	0.00	0.00	0.00	0.00	11,012.41		11,012.41
MCINTOSH	40,343.47	0.00	0.00	0.00	40,343.47	0.00	0.00	0.00	0.00	40,343.47		40,343.47
MCKENZIE	11,127.71	4,212.40	0.00	552.57	15,892.68	0.00	0.00	0.00	0.00	15,892.68		15,892.68
MCLEAN	0.00	11,457.12	0.00	0.00	11,457.12	0.00	0.00	0.00	0.00	11,457.12		11,457.12
MERCER	67,456.59	0.00	0.00	0.00	67,456.59	0.00	0.00	0.00	0.00	67,456.59		67,456.59
MORTON	187,747.34	57,750.62	0.00	1,241.85	246,739.81	0.00	0.00	0.00	2,639.50	249,379.31		249,379.31
MOUNTAIN	32,092.78	4,645.47	0.00	49.81	36,788.06	0.00	0.00	0.00	0.00	36,788.06		36,788.06
OLIVER	31,481.41	0.00	0.00	0.00	31,481.41	0.00	0.00	0.00	0.00	31,481.41		31,481.41
PEMBINA	0.00	6,796.57	0.00	0.00	6,796.57	0.00	0.00	0.00	0.00	6,796.57		6,796.57
RAMSEY	0.00	22,410.95	0.00	0.00	22,410.95	0.00	0.00	0.00	0.00	22,410.95		22,410.95
RENVILLE	12,667.74	0.00	0.00	0.00	12,667.74	0.00	0.00	0.00	0.00	12,667.74		12,667.74
RICHLAND	0.00	38,060.47	0.00	0.00	38,060.47	0.00	0.00	0.00	0.00	38,060.47		38,060.47
SIoux	1,692.93	0.00	0.00	0.00	1,692.93	0.00	0.00	0.00	0.00	1,692.93		1,692.93
SLOPE	2,579.40	209.57	0.00	0.59	2,789.56	0.00	0.00	0.00	0.00	2,789.56		2,789.56
STARK	120,572.36	44,838.79	0.00	18,429.80	183,840.95	0.00	0.00	0.00	150.73	183,991.68	NON-OPER	183,991.68
STUTSMAN	0.00	44,648.47	0.00	0.00	44,648.47	1,493.03	289.73	0.00	0.00	46,431.23		46,431.23
WALSH	0.00	16,129.98	0.00	0.00	16,129.98	0.00	0.00	0.00	0.00	16,129.98		16,129.98
WARD	15,705.92	102,640.35	0.00	0.00	118,346.27	0.00	0.00	0.00	0.00	118,346.27		118,346.27
WILLIAMS	130,591.25	38,731.13	0.00	10,088.95	179,411.33	0.00	0.00	0.00	0.00	179,411.33	NON-OPER	179,411.33
SUB-TOTAL	\$1,354,126.96	\$583,015.90	\$0.00	\$318,072.29	\$2,255,215.15	\$2,794.50	\$376.72	\$0.00	\$3,723.57	\$2,262,109.94		\$2,262,109.94

13

	TOTAL ELECTRIC	TOTAL GAS	TOTAL OTHER	TOTAL COMMON	SUB-TOTAL	SPECIALS	INTEREST	MDSE	OTHER	2009 TOTAL TAX
TLS FROM PG 1	\$1,354,126.96	\$583,015.90	\$0.00	\$318,072.29	\$2,255,215.15	\$2,794.50	\$376.72	\$0.00	\$3,723.57	\$2,262,109.94
MISCELLANEOUS:										
Burleigh/Bis office sale	0.00	0.00	0.00	(626.79)	(626.79)					
MORTON (FID)	0.00	0.00	0.00	0.00	0.00					
OTHER (FID)	0.00	0.00	0.00	0.00	0.00					
SUB-TOTAL	\$1,354,126.96	\$583,015.90	\$0.00	\$317,445.50	\$2,254,588.36	\$2,794.50	\$376.72	\$0.00	\$3,723.57	\$2,262,109.94
PRIOR YRS ADJS:										
COYOTE	0.00	0.00	0.00	0.00	0.00					0.00
BURLEIGH	0.00	0.00	0.00	0.00	0.00					0.00
CAVALIER	0.00	0.00	0.00	0.00	0.00					0.00
MCINTOSH	0.00	0.00	0.00	0.00	0.00					0.00
WILLIAMS	0.00	0.00	0.00	0.00	0.00					0.00
Mdse adjustment	0.00	0.00	0.00	0.00	0.00					0.00
OTHER	0.00	0.00	0.00	0.00	0.00					0.00
TOTAL (1,4081)	\$1,354,126.96	\$583,015.90	\$0.00	\$317,445.50	\$2,254,588.36	\$2,794.50	\$376.72	\$0.00	\$3,723.57	\$2,262,109.94

MONTANA-DAKOTA UTILITIES CO.
NORTH DAKOTA PROPERTY TAXES
2009

COUNTY	2009 TAXES	2008 TAXES	INCREASE/ (DECREASE)	% INCREASE / (DECREASE)
ADAMS	\$63,284.13	\$68,966.15	(5,682.02)	-8.239%
BARNES	\$12,142.92	13,929.01	(1,786.09)	-12.823%
BENSON	\$890.12	1,590.46	(700.34)	-44.034%
BILLINGS	\$1,462.81	1,443.08	19.73	1.367%
BOTTINEAU	\$673.18	841.00	(167.82)	-19.955%
BOWMAN	\$34,718.46	41,843.81	(7,125.35)	-17.028%
BURKE	\$16,982.39	18,922.26	(1,929.87)	-10.199%
BURLEIGH	\$824,649.00	948,362.32	(123,713.32)	-13.045%
CAVALIER	\$4,613.21	4,909.88	(296.67)	-6.042%
DICKEY	\$46,374.04	49,509.64	(3,135.60)	-6.333%
DIVIDE	\$14,951.16	15,077.53	(126.37)	-0.838%
DUNN	\$21,848.22	25,888.65	(4,040.43)	-15.607%
EDDY	\$5,063.13	5,428.67	(365.54)	-6.734%
EMMONS	\$28,479.62	30,895.50	(2,415.88)	-7.820%
FOSTER	\$5,513.90	5,858.73	(344.83)	-5.886%
GOLDEN VALLEY	\$12,932.17	14,707.26	(1,775.09)	-12.069%
GRANT	\$21,287.11	22,733.82	(1,436.71)	-6.320%
HETTINGER	\$32,263.22	34,119.78	(1,856.56)	-5.441%
KIDDER	\$14,733.16	16,152.15	(1,418.99)	-8.785%
LAMOURE	\$4,366.43	4,766.17	(399.74)	-8.387%
LOGAN	\$11,012.41	12,152.98	(1,140.57)	-9.385%
MCINTOSH	\$40,343.47	44,950.72	(4,607.25)	-10.250%
MCKENZIE	\$15,892.68	17,141.15	(1,248.47)	-7.283%
MCLEAN	\$11,457.12	12,135.45	(678.33)	-5.590%
MERCER	\$67,456.59	78,554.90	(11,098.31)	-14.128%
MORTON	\$246,739.81	234,166.14	12,573.67	5.370%
MOUNTRAIL	\$36,788.06	37,649.02	(860.96)	-2.287%
OLIVER	\$31,481.41	27,314.72	4,166.69	15.254%
PEMBINA	\$6,796.57	7,791.45	(994.88)	-12.769%
RAMSEY	\$22,410.95	24,860.76	(2,449.81)	-9.854%
RENVILLE	\$12,667.74	13,392.87	(725.13)	-5.414%
RICHLAND	\$38,060.47	25,489.29	12,571.18	49.318%
SIoux	\$1,692.93	1,995.60	(302.67)	-15.167%
SLOPE	\$2,789.56	2,931.69	(142.13)	-4.848%
STARK	\$183,840.95	206,131.44	(22,290.49)	-10.814%
STUTSMAN	\$44,648.47	48,111.14	(3,462.67)	-7.197%
WALSH	\$16,129.98	17,024.22	(894.24)	-5.253%
WARD	\$118,346.27	127,908.86	(9,562.59)	-7.476%
WILLIAMS	\$179,411.33	214,798.72	(35,387.39)	-16.475%
	\$2,255,215.15	\$2,480,446.99	(\$225,231.84)	-9.080%
Burleigh/Bis office sale	(626.79)	0.00	(626.79)	
MORTON (FID)	0.00	0.00	0.00	
OTHER (FID)	0.00	0.00	0.00	
SUNDRY	0.00	(794.00)	794.00	
	\$2,254,588.36	\$2,479,652.99	(\$225,064.63)	-9.076%

PER BOOKS

MONTANA-DAKOTA UTILITIES COMPANY
SOUTH DAKOTA PROPERTY TAXES
2007

09-Jan-08
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COUNTY	TOTAL 1,2364,15D TAX	ELECTRIC PROPERTY				GAS PROPERTY			OTHER PROPERTY		COMMON TOTAL		
		TOTAL	INTANG.	PROD.	TRANS.	TOTAL	INTANG.	DIST.	GENERAL	TOTAL		DIST.	GENERAL
BROWN	\$3,353.21	\$0.00	\$0.00	\$927.09	\$2,426.12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
BUTTE	16,722.48	0.00	0.00	0.00	0.00	16,722.48	0.00	0.00	0.00	0.00	0.00	0.00	
CAMPBELL	14,529.10	0.00	0.00	3,519.08	10,906.93	103.09	0.00	0.00	0.00	0.00	0.00	0.00	
CORSON	13,248.34	0.00	0.00	8,170.47	5,068.34	9.53	0.00	0.00	0.00	0.00	0.00	0.00	
EDMUNDS	37,466.70	0.00	0.00	9,526.93	15,690.52	980.26	0.00	0.00	0.00	0.00	0.00	0.00	
FAULK	1,057.85	0.00	0.00	0.00	1,057.85	0.00	0.00	0.00	0.00	0.00	0.00	233.12	
GRANT	341,362.46	0.00	329,557.05	7,553.98	254.52	3,996.91	0.00	0.00	0.00	0.00	0.00	0.00	
HARDING	759.46	495.04	0.00	0.00	479.38	15.68	0.00	0.00	0.00	0.00	0.00	0.00	
HUGHES	43,258.50	0.00	0.00	0.00	0.00	264.42	0.00	0.00	0.00	0.00	0.00	0.00	
LAWRENCE	52,458.26	0.00	0.00	0.00	0.00	43,258.50	0.00	0.00	0.00	0.00	0.00	0.00	
MCPHERSON	19,294.73	0.00	0.00	0.00	0.00	52,458.26	513.56	46,104.62	5,840.08	0.00	0.00	0.00	
MEADE	38,700.36	0.00	0.00	4,614.68	14,060.78	619.27	0.00	0.00	0.00	0.00	0.00	0.00	
PENNINGTON	211,983.14	0.00	0.00	0.00	0.00	36,700.36	0.00	38,202.19	498.17	0.00	0.00	0.00	
PERKINS	18,659.62	0.00	0.00	0.00	0.00	211,983.14	26.86	164,090.20	47,866.08	0.00	0.00	0.00	
POTTER	23,900.85	0.00	0.00	2,374.66	14,331.19	1,953.77	0.00	0.00	0.00	0.00	0.00	0.00	
ROBERTS	7,300.78	0.00	0.00	3,054.31	14,801.73	359.61	0.00	5,594.59	21.55	0.00	0.00	59.06	
STANLEY	7,714.64	0.00	0.00	7,300.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
SULLY	1,099.67	0.00	0.00	0.00	0.00	7,714.64	0.00	7,634.14	80.50	0.00	0.00	0.00	
WALWORTH	93,003.58	0.00	0.00	0.00	0.00	1,099.67	0.00	1,099.67	0.00	0.00	0.00	0.00	
SUB-TOTAL	\$945,873.73	\$0.00	\$329,357.05	\$69,237.31	\$121,424.51	\$12,418.57	\$407,139.13	\$540.42	\$349,421.85	\$57,176.86	\$0.00	\$0.00	\$6,097.16
SUNDRY:													
BROWN	(0.02)	(0.02)	0.00	0.01	(0.03)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CORSON	(718.72)	(718.72)	0.00	(541.69)	(168.45)	(8.58)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EDMUNDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GRANT	0.00	0.00	0.02	(0.02)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LAWRENCE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PENNINGTON	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PERKINS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WALWORTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GRANT-OTP SHARE	739.18	739.18	739.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	\$945,894.17	\$532,657.88	\$0.00	\$68,695.61	\$121,256.03	\$12,409.99	\$407,139.13	\$540.42	\$349,421.85	\$57,176.86	\$0.00	\$0.00	\$6,097.16
COMMON APPORT													
TOTAL (1-4081)	\$945,894.17	4,176.05		4,176.05	\$16,586.04	1,921.11	1,921.11	0.00	0.00	0.00	0.00	0.00	(6,097.16)
		\$536,833.93		\$409,060.24		\$59,097.97		\$0.00		\$0.00			\$0.00

16

PER BOOKS

MONTANA-DAKOTA UTILITIES COMPANY
SOUTH DAKOTA PROPERTY TAXES
2007

COUNTY	TOTAL ELECTRIC	TOTAL GAS	TOTAL OTHER	TOTAL COMMON	SUB-TOTAL 1.2384.1SD	SPECIALS	INTEREST	MDSE	OTHER	TOTAL TAX
BROWN	\$3,353.21	\$0.00	\$0.00	\$0.00	\$3,353.21	\$0.00	\$0.00	\$0.00	\$0.00	\$3,353.21
BLITTE	0.00	16,722.48	0.00	0.00	16,722.48	0.00	0.00	0.00	0.00	16,722.48
CAMPBELL	14,529.10	0.00	0.00	0.00	14,529.10	0.00	0.00	0.00	0.00	14,529.10
CORSON	13,248.34	0.00	0.00	0.00	13,248.34	0.00	0.00	0.00	0.00	13,248.34
EDMONDS	26,197.71	11,035.87	0.00	233.12	37,466.70	0.00	0.00	0.00	0.00	37,466.70
FAULK	1,057.85	0.00	0.00	0.00	1,057.85	0.00	0.00	0.00	0.00	1,057.85
GRANT	341,362.46	0.00	0.00	0.00	341,362.46	0.00	0.00	0.00	0.00	341,362.46
HARDING	495.04	264.42	0.00	0.00	759.46	0.00	0.00	0.00	0.00	759.46
HUGHES	0.00	43,258.50	0.00	0.00	43,258.50	0.00	0.00	0.00	0.00	43,258.50
LAWRENCE	0.00	52,458.26	0.00	0.00	52,458.26	0.00	0.00	0.00	0.00	52,458.26
MCPHERSON	19,294.73	0.00	0.00	0.00	19,294.73	0.00	0.00	0.00	0.00	19,294.73
MEADE	0.00	38,700.36	0.00	0.00	38,700.36	0.00	0.00	0.00	0.00	38,700.36
PENNINGTON	0.00	211,983.14	0.00	0.00	211,983.14	0.00	0.00	0.00	0.00	211,983.14
PERKINS	18,659.62	0.00	0.00	0.00	18,659.62	0.00	0.00	0.00	0.00	18,659.62
POTTER	18,225.65	5,616.14	0.00	59.06	23,900.85	0.00	0.00	0.00	0.00	23,900.85
ROBERTS	7,300.78	0.00	0.00	0.00	7,300.78	0.00	0.00	0.00	0.00	7,300.78
STANLEY	0.00	7,714.64	0.00	0.00	7,714.64	0.00	0.00	0.00	0.00	7,714.64
SULLY	0.00	1,099.67	0.00	0.00	1,099.67	0.00	0.00	0.00	0.00	1,099.67
WALWORTH	68,912.95	18,285.65	0.00	5,804.98	93,003.58	112.00	0.00	0.00	0.00	93,115.58
SUB-TOTAL	\$532,637.44	\$407,139.13	\$0.00	\$6,097.16	\$945,873.73	\$112.00	\$0.00	\$0.00	\$0.00	\$945,985.73
SUNDRY:										
BROWN	(0.02)	0.00	0.00	0.00	(0.02)	0.00	0.00	0.00	0.00	(0.02)
CORSON	(718.72)	0.00	0.00	0.00	(718.72)	0.00	0.00	0.00	0.00	(718.72)
EDMONDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GRANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LAWRENCE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PENNINGTON	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PERKINS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WALWORTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GRANT-OTP SHARI	739.18	0.00	0.00	0.00	739.18	0.00	0.00	0.00	0.00	739.18
TOTAL	\$532,657.88	\$407,139.13	\$0.00	\$6,097.16	\$945,894.17	\$112.00	\$0.00	\$0.00	\$0.00	\$946,006.17

PER BOOKS

MONTANA-DAKOTA UTILITIES COMPANY
SOUTH DAKOTA PROPERTY TAXES
2007

COUNTY	2007 TAXES	2006 TAXES	INCREASE/ (DECREASE)	% INCREASE / (DECREASE)
BROWN	\$3,353.21	\$3,793.12	(439.91)	-11.598%
BUTTE	16,722.48	18,621.96	(1,899.48)	-10.199%
CAMPBELL	14,529.10	13,850.14	678.96	4.902%
CORSON	13,248.34	14,619.58	(1,371.24)	-8.379%
EDMUNDS	37,466.70	42,261.02	(4,794.32)	-11.345%
FAULK	1,057.85	1,226.94	(169.09)	-13.781%
GRANT	341,362.46	396,519.62	(55,157.16)	-13.910%
HARDING	759.46	741.88	17.58	2.370%
HUGHES	43,258.50	47,852.73	(4,594.23)	-9.601%
LAWRENCE	52,458.26	63,718.06	(11,259.80)	-17.671%
MCPHERSON	19,294.73	21,834.88	(2,540.15)	-11.633%
MEADE	38,700.36	43,142.96	(4,442.60)	-10.297%
PENNINGTON	111,993.14	239,001.80	(27,018.66)	-11.305%
PERKINS	18,659.62	21,032.00	(2,372.38)	-11.280%
POTTER	23,900.85	27,672.03	(3,771.18)	-13.628%
ROBERTS	7,300.78	8,658.48	(1,357.70)	-15.681%
STANLEY	7,714.64	8,877.64	(1,163.00)	-13.100%
SULLY	1,099.67	1,231.39	(131.72)	-10.697%
WALWORTH	93,003.58	92,359.18	644.40	0.698%
	\$945,873.73	\$1,067,015.11	(\$121,141.38)	-11.353%
SUNDRY:				
BROWN	(0.02)	0.06	(0.08)	
CORSON	(718.72)	(0.01)	(718.71)	
EDMUNDS	0.00	0.00	0.00	
GRANT	0.00	1,137.22	(1,137.22)	
LAWRENCE	0.00	116.91	(116.91)	
PENNINGTON	0.00	1,693.56	(1,693.56)	
PERKINS	0.00	50.21	(50.21)	
WALWORTH	0.00	326.77	(326.77)	
OTHER	0.00	0.00	0.00	
GRANT-OTP SHARI	739.18	760.35	(21.17)	
	\$945,894.17	\$1,071,100.18	(\$125,206.01)	-11.685%

PER BOOKS

MONTANA-DAKOTA UTILITIES COMPANY
 SOUTH DAKOTA PROPERTY TAXES - EAST RIVER
 2007

09-Jan-08
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COUNTY	GAS PROPERTY		
	TOTAL	INTANG.	DIST. GENERAL
EDMUNDS	11,035.87	0.00	10,999.39 36.48
HUGHES	43,258.50	0.00	41,351.54 1,906.96
POTTER	5,616.14	0.00	5,594.59 21.55
STANLEY	7,714.64	0.00	7,634.14 80.50
SULLY	1,099.67	0.00	1,099.67 0.00
WALWORTH	18,285.65	0.00	17,632.09 653.56
SUB-TOTAL	\$87,010.47	\$0.00	\$84,311.42 \$2,699.05
SUNDRY:			
EDMUNDS	0.00	0.00	0.00 0.00
STANLEY	0.00	0.00	0.00 0.00
COMMON APPORT	1,844.49		1,844.49
	\$88,854.96	\$0.00	\$84,311.42 \$4,543.54

PER BOOKS

MONTANA-DAKOTA UTILITIES COMPANY
SOUTH DAKOTA PROPERTY TAXES
2008

COUNTY	TOTAL ELECTRIC	TOTAL GAS	TOTAL OTHER	TOTAL COMMON	SUB-TOTAL 1.2364.1SD	SPECIALS	INTEREST	MDSE	OTHER	2008 TOTAL TAX
BROWN	\$3,497.01	\$0.00	\$0.00	\$0.00	\$3,497.01	\$0.00	\$0.00	\$0.00	\$0.00	\$3,497.01
BUTTE	0.00	16,923.38	0.00	0.00	16,923.38	0.00	0.00	0.00	0.00	16,923.38
CAMPBELL	12,726.82	0.00	0.00	0.00	12,726.82	0.00	0.00	0.00	0.00	12,726.82
CORSON	12,653.48	0.00	0.00	0.00	12,653.48	0.00	0.00	0.00	0.00	12,653.48
EDMUNDS	25,008.25	10,704.28	0.00	183.27	35,895.80	0.00	0.00	0.00	0.00	35,895.80
FAULK	1,060.15	0.00	0.00	0.00	1,060.15	0.00	0.00	0.00	0.00	1,060.15
GRANT	353,383.88	0.00	0.00	0.00	353,383.88	0.00	0.00	0.00	0.00	353,383.88
HARDING	532.54	291.22	0.00	0.00	823.76	0.00	0.00	0.00	0.00	823.76
HUGHES	0.00	41,982.99	0.00	0.00	41,982.99	0.00	0.00	0.00	0.00	41,982.99
LAWRENCE	0.00	51,797.92	0.00	0.00	51,797.92	0.00	0.00	0.00	0.00	51,797.92
MCPHERSON	18,582.37	0.00	0.00	0.00	18,582.37	0.00	0.00	0.00	0.00	18,582.37
MEADE	0.00	38,700.36	0.00	0.00	38,700.36	0.00	0.00	0.00	0.00	38,700.36
PENNINGTON	0.00	219,496.20	0.00	0.00	219,496.20	0.00	0.00	0.00	0.00	219,496.20
PERKINS	18,138.36	0.00	0.00	0.00	18,138.36	0.00	0.00	0.00	0.00	18,138.36
POTTER	18,078.66	5,423.66	0.00	52.60	23,554.92	0.00	0.00	0.00	0.00	23,554.92
ROBERTS	6,880.12	0.00	0.00	0.00	6,880.12	0.00	0.00	0.00	0.00	6,880.12
STANLEY	0.00	7,714.64	0.00	0.00	7,714.64	0.00	0.00	0.00	0.00	7,714.64
SULLY	0.00	1,141.94	0.00	0.00	1,141.94	0.00	0.00	0.00	0.00	1,141.94
WALWORTH	68,912.95	16,285.65	0.00	5,804.98	93,003.58	112.00	0.00	0.00	0.00	93,115.58
SUB-TOTAL	\$539,454.59	\$412,462.24	\$0.00	\$6,040.85	\$957,957.68	\$112.00	\$0.00	\$0.00	\$0.00	\$958,069.68
SUNDRY:										
BROWN	(0.01)	0.00	0.00	0.00	(0.01)	0.00	0.00	0.00	0.00	(0.01)
CORSON	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EDMUNDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GRANT	(0.04)	0.00	0.00	0.00	(0.04)	0.00	0.00	0.00	0.00	(0.04)
LAWRENCE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PENNINGTON	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PERKINS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WALWORTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GRANT-OTP SHARI	681.12	0.00	0.00	0.00	681.12	0.00	0.00	0.00	0.00	681.12
TOTAL	\$540,115.68	\$412,462.24	\$0.00	\$6,040.85	\$958,618.75	\$112.00	\$0.00	\$0.00	\$0.00	\$958,730.75

20

PER BOOKS

MONTANA-DAKOTA UTILITIES COMPANY
SOUTH DAKOTA PROPERTY TAXES
2008

COUNTY	2008 TAXES	2007 TAXES	INCREASE/ (DECREASE)	% INCREASE / (DECREASE)
BROWN	\$3,497.01	\$3,353.20	143.81	4.289%
BUTTE	16,923.38	16,722.48	200.90	1.201%
CAMPBELL	12,726.82	14,528.10	(1,802.28)	-12.405%
CORSON	12,653.48	13,248.34	(594.86)	-4.490%
EDMUNDS	35,895.80	37,466.70	(1,570.90)	-4.193%
FAULK	1,060.15	1,057.85	2.30	0.217%
GRANT	353,383.88	341,362.42	12,021.46	3.522%
HARDING	823.76	759.46	64.30	8.467%
HUGHES	41,982.99	43,258.50	(1,275.51)	-2.949%
LAWRENCE	51,797.92	52,458.28	(660.34)	-1.259%
MCPHERSON	18,582.37	19,294.73	(712.36)	-3.692%
MEADE	38,700.36	38,700.36	0.00	0.000%
PENNINGTON	219,496.20	211,983.14	7,513.06	3.544%
PERKINS	18,138.36	18,659.62	(521.26)	-2.794%
POTTER	23,554.92	23,900.85	(345.93)	-1.447%
ROBERTS	6,880.12	7,300.78	(420.66)	-5.762%
STANLEY	7,714.64	7,714.64	0.00	0.000%
SULLY	1,141.94	1,099.67	42.27	3.844%
WALWORTH	93,003.58	93,003.58	0.00	0.000%
	\$957,957.68	\$945,873.68	\$12,084.00	1.278%
SUNDRY:				
BROWN	(0.01)	(0.02)	0.01	
CORSON	0.00	(718.72)	718.72	
EDMUNDS	0.00	0.00	0.00	
GRANT	(0.04)	0.00	(0.04)	
LAWRENCE	0.00	0.00	0.00	
PENNINGTON	0.00	0.00	0.00	
PERKINS	0.00	0.00	0.00	
WALWORTH	0.00	0.00	0.00	
OTHER	0.00	0.00	0.00	
GRANT-OTP SHARI	661.12	739.18	(78.06)	
	\$958,618.75	\$945,894.12	\$12,724.63	1.345%

PER BOOKS

MONTANA-DAKOTA UTILITIES COMPANY
 SOUTH DAKOTA PROPERTY TAXES - EAST RIVER
 2008

09-Jan-09
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COUNTY	GAS PROPERTY		
	TOTAL	INTANG.	DIST. GENERAL
EDMUNDS	10,704.28	0.00	10,638.91 65.37
HUGHES	41,982.99	0.00	40,074.25 1,908.74
POTTER	5,423.66	0.00	5,399.53 24.13
STANLEY	7,714.64	0.00	7,634.14 80.50
SULLY	1,141.94	0.00	1,141.94 0.00
WALWORTH	18,285.65	0.00	17,632.09 653.56
SUB-TOTAL	\$85,253.16	\$0.00	\$82,520.86 \$2,732.30
SUNDRY:			
EDMUNDS	0.00	0.00	0.00 0.00
STANLEY	0.00	0.00	0.00 0.00
COMMON APPOINT	1,872.57		1,872.57
	\$87,125.73	\$0.00	\$82,520.86 \$4,604.87

22

PER BOOKS

MONTANA-DAKOTA UTILITIES CO.
SOUTH DAKOTA PROPERTY TAXES
2009

09-Jan-10
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COUNTY	TOTAL 1,236,150 TAX	ELECTRIC PROPERTY			GAS PROPERTY			OTHER PROPERTY			COMMON TOTAL
		TOTAL	INTANG.	PROD.	TOTAL	INTANG.	DIST.	TOTAL	DIST.	GENERAL	
BROWN	\$4,082.34	\$0.00	\$1,379.92	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
BUTTE - ESTIMATED	19,610.96	0.00	0.00	0.00	19,341.96	266.40	0.00	0.00	0.00	0.00	0.00
CAMPBELL	13,099.04	0.00	3,005.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CORSON	13,927.36	0.00	8,520.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EDMUNDS	38,303.53	0.00	8,982.06	0.00	11,452.82	0.00	0.00	0.00	0.00	0.00	0.00
FAULK	1,212.45	0.00	1,212.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	171.96
GRANT	355,498.02	0.00	7,233.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HARDING	974.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HUGHES	46,102.74	0.00	0.00	0.00	346.35	0.00	0.00	0.00	0.00	0.00	0.00
LAWRENCE	66,076.28	0.00	0.00	0.00	46,102.74	0.00	0.00	0.00	0.00	0.00	0.00
MCPHERSON	18,505.86	0.00	0.00	0.00	66,076.26	0.00	0.00	0.00	0.00	0.00	0.00
MEADE	45,807.76	0.00	4,034.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PENNINGTON	256,742.82	0.00	0.00	0.00	45,807.76	0.00	0.00	0.00	0.00	0.00	0.00
PERKINS	19,884.16	0.00	0.00	0.00	256,742.82	0.00	0.00	0.00	0.00	0.00	0.00
POTTER	27,196.14	0.00	2,368.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ROBERTS	7,030.38	0.00	3,152.57	0.00	6,587.37	0.00	0.00	0.00	0.00	0.00	0.00
STANLEY	8,307.46	0.00	7,030.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SULLY	1,324.28	0.00	0.00	0.00	8,307.46	0.00	0.00	0.00	0.00	0.00	0.00
WALWORTH - ESTIMATED	93,944.23	0.00	18,736.54	0.00	1,324.28	0.00	0.00	0.00	0.00	0.00	0.00
SUB-TOTAL	\$1,037,630.33	\$0.00	\$64,343.56	\$127,352.25	\$462,894.91	\$527.52	\$413,452.57	\$68,704.82	\$0.00	\$0.00	\$5,437.16
SUNDRY:											
BROWN	(0.03)	0.00	(0.02)	(0.01)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MCPHERSON	0.00	0.00	0.02	(0.02)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EDMUNDS	114.52	0.00	114.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GRANT	(27.02)	0.00	(26.10)	0.00	(0.38)	0.00	0.00	0.00	0.00	0.00	0.00
LAWRENCE	64.98	0.00	0.00	0.00	64.98	0.00	0.00	0.00	0.00	0.00	0.00
ROBERTS	2.08	0.00	2.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STANLEY	(375.20)	0.00	0.00	0.00	(375.20)	0.00	0.00	0.00	0.00	0.00	0.00
WALWORTH	(7,878.82)	0.00	(4,276.40)	(2,085.55)	(286.16)	0.00	(740.38)	474.20	0.00	0.00	(792.99)
MEADE	1,102.06	0.00	0.00	0.00	1,102.06	0.00	1,222.80	(120.72)	0.00	0.00	0.00
GRANT-OTP SHARE	824.30	0.00	824.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	\$1,031,456.20	\$0.00	\$60,183.18	\$125,266.67	\$483,210.59	\$527.52	\$413,631.84	\$69,051.23	\$0.00	\$0.00	\$4,644.17
COMMON APPORT											
TOTAL (1.4061)	\$1,031,456.20		3,160.21	\$25,016.82	\$484,694.55		\$70,535.19		\$0.00	\$0.00	(4,644.17)
											\$0.00

23

PER BOOKS

MONTANA-DAKOTA UTILITIES CO.
SOUTH DAKOTA PROPERTY TAXES
2009

COUNTY	TOTAL		TOTAL		TOTAL		SUB-TOTAL		2009	
	ELECTRIC	GAS	OTHER	COMMON	SPECIALS	INTEREST	MDSE	OTHER	TOTAL TAX	TOTAL TAX
BROWN	\$4,082.34	\$0.00	\$0.00	\$0.00	\$4,082.34	\$0.00	\$0.00	\$0.00	\$0.00	\$4,082.34
BUTTE	0.00	19,610.96	0.00	0.00	19,610.96	0.00	0.00	0.00	0.00	19,610.96
CAMPBELL	13,099.04	0.00	0.00	0.00	13,099.04	0.00	0.00	0.00	0.00	13,099.04
CORSON	13,927.36	0.00	0.00	0.00	13,927.36	0.00	0.00	0.00	0.00	13,927.36
EDMUNDS	26,678.75	11,452.82	0.00	171.96	38,303.53	0.00	0.00	0.00	0.00	38,303.53
FAULK	1,212.45	0.00	0.00	0.00	1,212.45	0.00	0.00	0.00	0.00	1,212.45
GRANT	355,488.02	0.00	0.00	0.00	355,488.02	0.00	0.00	0.00	0.00	355,488.02
HARDING	628.19	346.35	0.00	0.00	974.54	0.00	0.00	0.00	0.00	974.54
HUGHES	0.00	48,102.74	0.00	0.00	48,102.74	0.00	0.00	0.00	0.00	48,102.74
LAWRENCE	0.00	66,076.26	0.00	0.00	66,076.26	0.00	0.00	0.00	0.00	66,076.26
MCPHERSON	18,505.86	0.00	0.00	0.00	18,505.86	0.00	0.00	0.00	0.00	18,505.86
MEADE	0.00	45,807.76	0.00	0.00	45,807.76	0.00	0.00	0.00	0.00	45,807.76
PENNINGTON	0.00	256,742.82	0.00	0.00	256,742.82	0.00	0.00	0.00	0.00	256,742.82
PERKINS	19,884.16	0.00	0.00	0.00	19,884.16	0.00	0.00	0.00	0.00	19,884.16
POTTER	20,556.28	6,587.37	0.00	52.49	27,196.14	0.00	0.00	0.00	0.00	27,196.14
ROBERTS	7,030.38	0.00	0.00	0.00	7,030.38	0.00	0.00	0.00	0.00	7,030.38
STANLEY	0.00	8,307.46	0.00	0.00	8,307.46	0.00	0.00	0.00	0.00	8,307.46
SULLY	0.00	1,324.28	0.00	0.00	1,324.28	0.00	0.00	0.00	0.00	1,324.28
WALWORTH	68,405.43	20,326.09	0.00	5,212.71	93,944.23	112.00	0.00	0.00	0.00	94,056.23
SUB-TOTAL	\$549,508.26	\$482,684.91	\$0.00	\$5,437.16	\$1,037,630.33	\$112.00	\$0.00	\$0.00	\$0.00	\$1,037,742.33
SUNDRY:										
BROWN	(0.03)	0.00	0.00	0.00	(0.03)	0.00	0.00	0.00	0.00	(0.03)
MCPHERSON	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EDMUNDS	114.52	0.00	0.00	0.00	114.52	0.00	0.00	0.00	0.00	114.52
GRANT	(27.02)	0.00	0.00	0.00	(27.02)	0.00	0.00	0.00	0.00	(27.02)
LAWRENCE	0.00	64.98	0.00	0.00	64.98	0.00	0.00	0.00	0.00	64.98
ROBERTS	2.06	0.00	0.00	0.00	2.06	0.00	0.00	0.00	0.00	2.06
STANLEY	0.00	(375.20)	0.00	0.00	(375.20)	0.00	0.00	0.00	0.00	(375.20)
WALWORTH	(6,820.65)	(266.18)	0.00	(792.99)	(7,879.82)	0.00	0.00	0.00	0.00	(7,879.82)
MEADE	0.00	1,102.08	0.00	0.00	1,102.08	0.00	0.00	0.00	0.00	1,102.08
GRANT-OPT SHARI	824.30	0.00	0.00	0.00	824.30	0.00	0.00	0.00	0.00	824.30
TOTAL	\$543,601.44	\$483,210.59	\$0.00	\$4,644.17	\$1,031,456.20	\$112.00	\$0.00	\$0.00	\$0.00	\$1,031,568.20

24

PER BOOKS

MONTANA-DAKOTA UTILITIES CO.
SOUTH DAKOTA PROPERTY TAXES
2009

COUNTY	2009 TAXES	2008 TAXES	INCREASE/ (DECREASE)	% INCREASE / (DECREASE)
BROWN	\$4,082.34	\$3,497.01	585.33	16.738%
BUTTE	19,610.96	16,923.38	2,687.58	15.881%
CAMPBELL	13,099.04	12,726.62	372.22	2.925%
CORSON	13,927.36	12,653.48	1,273.88	10.067%
EDMUNDS	38,303.53	35,895.80	2,407.73	6.708%
FAULK	1,212.45	1,060.15	152.30	14.366%
GRANT	355,498.02	353,383.88	2,114.14	0.598%
HARDING	874.54	823.76	150.78	18.304%
HUGHES	46,102.74	41,982.99	4,119.75	9.813%
LAWRENCE	66,076.26	51,797.92	14,278.34	27.565%
MCPHERSON	18,505.86	18,582.37	(76.51)	-0.412%
MEADE	45,807.78	38,700.36	7,107.40	18.365%
PENNINGTON	256,742.82	219,486.20	37,246.62	16.969%
PERKINS	19,884.16	18,138.36	1,745.80	9.625%
POTTER	27,186.14	23,564.92	3,641.22	15.458%
ROBERTS	7,030.38	6,880.12	150.26	2.184%
STANLEY	8,307.46	7,714.64	592.82	7.684%
SULLY	1,324.28	1,141.84	182.34	15.968%
WALWORTH	93,944.23	93,003.58	940.65	1.011%
	\$1,037,630.33	\$957,957.68	\$79,672.65	8.317%
SUNDRY:				
BROWN	(0.03)	(0.01)	(0.02)	
MCPHERSON	0.00	0.00	0.00	
EDMUNDS	114.52	0.00	114.52	
GRANT	(27.02)	(0.04)	(26.98)	
LAWRENCE	64.98	0.00	64.98	
ROBERTS	2.06	0.00	2.06	
STANLEY	(375.20)	0.00	(375.20)	
WALWORTH	(7,879.82)	0.00	(7,879.82)	
MEADE	1,102.08	0.00	1,102.08	
GRANT-OTP SHARI	824.30	661.12	163.18	
	\$1,031,456.20	\$956,616.75	\$72,837.45	7.598%

25

PER BOOKS

MONTANA-DAKOTA UTILITIES CO.
SOUTH DAKOTA PROPERTY TAXES - EAST RIVER
2009

09-Jan-10
12:10 PM

COUNTY	GAS PROPERTY		
	TOTAL	INTANG.	DIST. GENERAL
EDMUNDS	11,452.82	0.00	11,382.05 70.77
HUGHES	46,102.74	0.00	43,874.88 2,227.86
POTTER	6,587.37	0.00	6,558.28 29.09
STANLEY	8,307.46	0.00	8,228.72 78.74
SULLY	1,324.28	0.00	1,324.28 0.00
WALWORTH	20,326.09	0.00	19,089.99 1,236.10
SUB-TOTAL	\$94,100.76	\$0.00	\$90,458.20 \$3,642.56
SUNDRY:			
EDMUNDS	0.00	0.00	0.00 0.00
STANLEY	(375.20)	0.00	(368.13) (7.07)
COMMON APPORT	1,430.79		1,430.79
	\$95,156.35	\$0.00	\$90,090.07 \$5,066.28

MONTANA-DAKOTA UTILITIES CO.
MONTANA PROPERTY TAXES
2007

COUNTY	TOTAL 1,2364.1MT TAX	ELECTRIC PROPERTY			GAS PROPERTY			OTHER			COMMON TOTAL	
		TOTAL	INTANG.	PROD.	TRANS.	DIST.	GENERAL	TOTAL	DIST.	GENERAL		TOTAL
BIG HORN	\$32,655.58	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$31,382.01	\$0.00	\$0.00	\$1,283.57	\$0.00	
CARBON	28,190.46	0.00	0.00	0.00	0.00	0.00	27,043.50	0.00	0.00	1,146.96	0.00	
CARTER	188.93	0.00	0.00	0.00	0.00	0.00	188.93	0.00	0.00	0.00	0.00	
CUSTER	564,656.65	417,296.06	0.00	48,452.32	72,726.97	284,766.91	126,574.08	0.00	0.00	4,534.08	0.00	
DANIELS	56,910.80	56,910.80	0.00	0.00	6,508.89	45,867.32	4,534.59	0.00	0.00	0.00	0.00	
DAWSON	1,001,171.91	809,727.07	0.00	388,257.30	157,657.05	235,208.25	109,445.43	0.00	0.00	5,239.69	0.00	
FALLON	114,931.33	97,008.73	0.00	0.00	50,131.15	45,830.22	15,114.14	0.00	0.00	331.88	0.00	
MCCONE	339.64	196.34	0.00	0.00	196.34	0.00	143.30	0.00	0.00	1,005.75	0.00	
PHILLIPS	26,385.41	0.00	0.00	0.00	0.00	0.00	26,385.41	0.00	0.00	0.00	0.00	
POWDER RIVER	604.45	0.00	0.00	0.00	0.00	0.00	604.45	0.00	0.00	0.00	0.00	
PRAIRIE	33,050.37	24,947.78	0.00	0.00	401.49	24,544.77	8,022.03	0.00	0.00	2.04	0.00	
RICHLAND	487,470.96	429,174.64	0.00	0.00	47,048.75	113,501.34	55,372.42	0.00	0.00	1,021.40	0.00	
ROOSEVELT	273,614.41	200,767.52	0.00	0.00	42,072.90	150,380.90	57,173.41	0.00	0.00	2,828.15	0.00	
ROSEBUD	99,990.37	79,171.37	0.00	0.00	23,666.61	53,502.80	20,191.21	0.00	0.00	468.51	0.00	
SHERIDAN	126,083.75	126,083.75	0.00	0.00	51,521.15	70,404.94	0.00	0.00	0.00	0.00	0.00	
STILLWATER	6,884.21	0.00	0.00	0.00	0.00	0.00	6,884.21	0.00	0.00	0.00	0.00	
VALLEY	60,614.19	0.00	0.00	0.00	0.00	0.00	60,614.19	0.00	0.00	2,483.59	0.00	
WIBAUX	32,797.42	28,811.04	0.00	0.00	14,382.32	14,270.09	3,962.12	0.00	0.00	0.00	0.00	
YELLOWSTONE	1,110,058.55	0.00	0.00	0.00	0.00	0.00	1,077,656.86	0.00	0.00	60,412.64	0.00	
SUB-TOTAL	\$4,056,609.39	\$2,270,095.10	\$0.00	\$701,299.26	\$466,117.26	\$1,038,473.88	\$64,204.68	\$1,629,186.23	\$0.00	\$1,548,429.96	\$80,758.27	\$157,326.06
SUNDRY:												
MRL Lease-2nd 2006	85.10	0.00	0.00	0.00	0.00	0.00	0.00	85.10	0.00	0.00	0.00	0.00
MRL Lease-1st 2007	93.39	0.00	0.00	0.00	0.00	0.00	0.00	93.39	0.00	0.00	0.00	0.00
Yellowstone - Billings	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Yellowstone - Billings	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Yellowstone - Billings	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	\$4,056,787.88	\$2,270,095.10	\$0.00	\$701,299.26	\$466,117.26	\$1,038,473.88	\$64,204.68	\$1,629,366.72	\$0.00	\$1,548,608.45	\$80,758.27	\$157,326.06
COMMON APPORT.		\$79,784.09						\$77,541.97			77,541.97	(157,326.06)
	<u>\$4,056,787.88</u>	<u>\$2,349,879.19</u>					<u>\$143,988.77</u>	<u>\$1,705,908.69</u>		<u>\$0.00</u>	<u>\$158,300.24</u>	<u>\$0.00</u>

27

MONTANA-DAKOTA UTILITIES CO.
MONTANA PROPERTY TAXES
2007

COUNTY	TOTAL ELECTRIC	TOTAL GAS	TOTAL OTHER	TOTAL COMMON	SUB-TOTAL 1.2364.1MT	SPECIALS INTEREST	MDSE	OTHER	2007 TOTAL TAX
BIG HORN	\$0.00	\$32,665.58	\$0.00	\$0.00	\$32,665.58	\$0.00	\$0.00	\$0.00	\$32,665.58
CARBON	0.00	28,190.46	0.00	0.00	28,190.46	0.00	0.00	0.00	28,190.46
CARTER	0.00	188.93	0.00	0.00	188.93	0.00	0.00	0.00	188.93
CUSTER	417,296.06	126,574.08	0.00	20,786.51	564,656.65	0.00	0.00	550.06	565,206.71
DANIELS	56,910.80	0.00	0.00	0.00	56,910.80	0.00	0.00	0.00	56,910.80
DAWSON	809,727.07	109,445.43	0.00	81,999.41	1,001,171.91	0.00	0.00	0.00	1,001,171.91
FALLON	97,008.73	15,114.14	0.00	2,808.46	114,931.33	0.00	0.00	0.00	114,931.33
MCCONE	196.34	143.30	0.00	0.00	339.64	0.00	0.00	0.00	339.64
PHILLIPS	0.00	26,385.41	0.00	0.00	26,385.41	0.00	0.00	0.00	26,385.41
POWDER RIVER	0.00	604.45	0.00	0.00	604.45	0.00	0.00	0.00	604.45
PRAIRIE	24,947.78	8,022.03	0.00	80.56	33,050.37	0.00	0.00	0.00	33,050.37
RICHLAND	429,174.64	55,372.42	0.00	2,923.90	487,470.96	0.00	0.00	0.00	487,470.96
ROOSEVELT	200,767.52	57,173.41	0.00	15,673.48	273,614.41	0.00	0.00	0.00	273,614.41
ROSEBUD	79,171.37	20,191.21	0.00	627.79	99,990.37	0.00	0.00	0.00	99,990.37
SHERIDAN	126,083.75	0.00	0.00	0.00	126,083.75	0.00	0.00	0.00	126,083.75
STILLWATER	0.00	6,884.21	0.00	0.00	6,884.21	0.00	0.00	0.00	6,884.21
VALLEY	0.00	60,614.19	0.00	0.00	60,614.19	0.00	0.00	0.00	60,614.19
WIBAUX	28,811.04	3,962.12	0.00	24.26	32,797.42	0.00	0.00	0.00	32,797.42
YELLOWSTONE	0.00	1,077,656.86	0.00	32,401.69	1,110,058.55	0.00	0.00	0.00	1,110,058.55
SUB-TOTAL	\$2,270,095.10	\$1,629,188.23	\$0.00	\$157,326.06	\$4,056,609.39	\$0.00	\$0.00	\$550.06	\$4,057,159.45
SUNDRY:									
MRL Lease-2nd 2006	0.00	85.10	0.00	0.00	85.10	0.00	0.00	0.00	85.10
MRL Lease-1st 2007	0.00	93.39	0.00	0.00	93.39	0.00	0.00	0.00	93.39
Yellowstone - Billings	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Yellowstone - Billings	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Yellowstone - Billings	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	\$2,270,095.10	\$1,629,366.72	\$0.00	\$157,326.06	\$4,056,787.88	\$0.00	\$0.00	\$550.06	\$4,057,337.94

28

MONTANA-DAKOTA UTILITIES CO.
MONTANA PROPERTY TAXES
2007

COUNTY	2007 TAXES	2006 TAXES	INCREASE/ (DECREASE)	% INCREASE / (DECREASE)
BIG HORN	\$32,665.58	\$32,241.68	423.90	1.315%
CARBON	28,190.46	26,382.59	1,807.87	6.853%
CARTER	188.93	167.72	21.21	12.646%
CUSTER	564,656.65	552,685.65	11,971.00	2.166%
DANIELS	56,910.80	55,573.67	1,337.13	2.406%
DAWSON	1,001,171.91	1,003,763.20	(2,591.29)	-0.258%
FALLON	114,931.33	110,426.32	4,505.01	4.080%
MCCONE	339.64	315.59	24.05	7.621%
PHILLIPS	26,385.41	25,617.65	767.76	2.997%
POWDER RIVER	604.45	535.95	68.50	12.781%
PRAIRIE	33,050.37	31,023.91	2,026.46	6.532%
RICHLAND	487,470.96	532,302.25	(44,831.29)	-8.422%
ROOSEVELT	273,614.41	262,895.54	10,718.87	4.077%
ROSEBUD	99,990.37	96,550.22	3,440.15	3.563%
SHERIDAN	126,083.75	132,099.09	(6,015.34)	-4.554%
STILLWATER	6,884.21	7,090.75	(206.54)	-2.913%
VALLEY	60,614.19	53,826.39	6,787.80	12.611%
WIBAUX	32,797.42	31,626.70	1,170.72	3.702%
YELLOWSTONE	1,110,058.55	1,015,802.54	94,256.01	9.279%
	\$4,056,609.39	\$3,970,927.41	\$85,681.98	2.158%
SUNDRY:				
MRL Lease-2nd 2006	85.10	74.75	10.35	
MRL Lease-1st 2007	93.39	85.11	8.28	
Yellowstone - Billings	0.00	(17,276.51)	17,276.51	
Yellowstone - Billings	0.00	16,203.67	(16,203.67)	
Yellowstone - Billings	0.00	749.01	(749.01)	
	\$4,056,787.88	\$3,970,763.44	\$86,024.44	2.166%

MONTANA-DAKOTA UTILITIES CO.
MONTANA PROPERTY TAXES
2008

COUNTY	TOTAL 1,2364.1MT TAX	ELECTRIC PROPERTY				GAS PROPERTY				OTHER		COMMON TOTAL
		TOTAL	INTANG.	PROD.	TRANS.	DIST.	GENERAL	TOTAL	INTANG.	DIST.	GENERAL	
BIG HORN	\$40,436.90	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$39,616.39	\$0.00	\$0.00	\$0.00	\$0.00
CARBON	31,253.96	0.00	0.00	0.00	0.00	0.00	0.00	29,984.36	0.00	0.00	0.00	0.00
CARTER	228.48	0.00	0.00	0.00	0.00	0.00	0.00	228.48	0.00	0.00	0.00	0.00
CUSTER	661,393.42	0.00	0.00	54,731.98	81,126.53	336,278.48	15,276.94	150,868.88	0.00	0.00	0.00	0.00
DANIELS	67,477.81	0.00	0.00	7,431.68	0.00	54,571.03	5,475.10	0.00	0.00	0.00	0.00	0.00
DAWSON	1,181,455.92	0.00	0.00	462,283.07	177,154.14	280,500.50	37,745.02	130,580.39	0.00	0.00	0.00	0.00
FALLON	280,760.08	0.00	0.00	67,226.33	109,722.30	61,227.93	1,346.90	18,175.96	0.00	0.00	0.00	0.00
MCCONE	389.97	0.00	0.00	0.00	0.00	224.77	0.00	165.20	0.00	0.00	0.00	0.00
PHILLIPS	31,147.89	0.00	0.00	0.00	0.00	0.00	0.00	31,147.89	0.00	0.00	0.00	0.00
POWDER RIVER	552.84	0.00	0.00	0.00	0.00	0.00	0.00	552.84	0.00	0.00	0.00	0.00
PRAIRIE	41,466.31	0.00	0.00	0.00	0.00	0.00	0.00	41,466.31	0.00	0.00	0.00	0.00
RICHLAND	546,181.18	0.00	0.00	0.00	484.81	30,771.95	2.22	10,111.50	0.00	0.00	0.00	0.00
ROOSEVELT	329,551.46	0.00	0.00	290,493.66	52,103.23	130,735.99	5,143.31	64,641.61	0.00	0.00	0.00	0.00
ROSEBUD	118,427.83	0.00	0.00	0.00	47,132.74	185,975.89	10,366.52	58,121.53	0.00	0.00	0.00	0.00
SHERIDAN	155,355.84	0.00	0.00	0.00	26,373.39	64,370.41	2,601.74	24,550.23	0.00	0.00	0.00	0.00
STILLWATER	9,374.44	0.00	0.00	0.00	61,093.29	88,589.33	5,673.22	0.00	0.00	0.00	0.00	0.00
VALLEY	72,187.12	0.00	0.00	0.00	0.00	0.00	0.00	9,374.44	0.00	0.00	0.00	0.00
WIBAUX	38,648.03	0.00	0.00	0.00	16,272.98	17,294.53	178.70	72,187.12	0.00	0.00	0.00	0.00
YELLOWSTONE	1,447,553.25	0.00	0.00	0.00	0.00	0.00	0.00	1,271,132.40	0.00	0.00	0.00	0.00
SUB-TOTAL	\$5,033,852.75	\$0.00	\$874,735.04	\$578,895.09	\$1,250,541.91	\$83,809.67	\$83,196.29	\$1,928,412.80	\$0.00	\$1,845,216.51	\$83,196.29	\$317,458.22
SUNDRY:												
MRL Lease-2nd 2007	93.39	0.00	0.00	0.00	0.00	0.00	0.00	93.39	0.00	0.00	0.00	0.00
MRL Lease-1st 2008	99.93	0.00	0.00	0.00	0.00	0.00	0.00	99.93	0.00	0.00	0.00	0.00
Dawson - BN Lease	(110.47)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	(110.47)
Yellowstone - Billings	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Yellowstone - Billings	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	\$5,033,935.58	\$0.00	\$874,735.04	\$578,895.09	\$1,250,541.91	\$83,809.67	\$83,196.29	\$1,928,606.12	\$0.00	\$1,845,409.83	\$83,196.29	\$317,347.75
COMMON APPORT.												
	\$77,679.56							\$239,668.19				\$0.00
	<u>\$2,865,661.27</u>							<u>\$2,168,274.31</u>				<u>\$0.00</u>
	<u>\$5,033,935.58</u>							<u>\$2,865,661.27</u>				<u>\$0.00</u>

30

MONTANA-DAKOTA UTILITIES CO.
MONTANA PROPERTY TAXES
2008

COUNTY	TOTAL ELECTRIC	TOTAL GAS	TOTAL OTHER	TOTAL COMMON	SUB-TOTAL	SPECIALS	INTEREST	MDSE	OTHER	2008 TOTAL TAX
				1.2364.1MT						
BIG HORN	\$0.00	\$40,436.90	\$0.00	\$0.00	\$40,436.90	\$0.00	\$0.00	\$0.00	\$0.00	\$40,436.90
CARBON	0.00	31,253.96	0.00	0.00	31,253.96	0.00	0.00	0.00	0.00	31,253.96
CARTER	0.00	228.48	0.00	0.00	228.48	0.00	0.00	0.00	0.00	228.48
CUSTER	487,413.93	150,868.88	0.00	23,110.61	661,393.42	0.00	0.00	0.00	559.44	661,952.86
DANIELS	67,477.81	0.00	0.00	0.00	67,477.81	0.00	0.00	0.00	0.00	67,477.81
DAWSON	957,682.83	130,590.39	0.00	93,192.70	1,181,465.92	0.00	0.00	0.00	0.00	1,181,465.92
FALLON	239,523.46	18,175.96	0.00	3,060.66	260,760.08	0.00	0.00	0.00	0.00	260,760.08
MCCONE	224.77	165.20	0.00	0.00	389.97	0.00	0.00	0.00	0.00	389.97
PHILLIPS	0.00	31,147.89	0.00	0.00	31,147.89	0.00	0.00	0.00	0.00	31,147.89
POWDER RIVER	0.00	552.84	0.00	0.00	552.84	0.00	0.00	0.00	0.00	552.84
PRAIRIE	31,258.98	10,111.50	0.00	95.83	41,466.31	0.00	0.00	0.00	0.00	41,466.31
RICHLAND	478,477.19	64,641.61	0.00	3,062.38	546,181.18	0.00	0.00	0.00	0.00	546,181.18
ROOSEVELT	243,475.15	68,121.53	0.00	17,954.78	329,551.46	0.00	0.00	0.00	0.00	329,551.46
ROSEBUD	93,345.54	24,550.23	0.00	532.06	118,427.83	0.00	0.00	0.00	0.00	118,427.83
SHERIDAN	155,355.84	0.00	0.00	0.00	155,355.84	0.00	0.00	0.00	0.00	155,355.84
STILLWATER	0.00	9,374.44	0.00	0.00	9,374.44	0.00	0.00	0.00	0.00	9,374.44
VALLEY	0.00	72,187.12	0.00	0.00	72,187.12	0.00	0.00	0.00	0.00	72,187.12
WIBAUX	33,746.21	4,873.47	0.00	28.35	38,648.03	0.00	0.00	0.00	0.00	38,648.03
YELLOWSTONE	0.00	1,271,132.40	0.00	176,420.85	1,447,553.25	0.00	0.00	0.00	0.00	1,447,553.25
SUB-TOTAL	\$2,787,981.71	\$1,928,412.80	\$0.00	\$317,458.22	\$5,033,852.73	\$0.00	\$0.00	\$0.00	\$559.44	\$5,034,412.17
SUNDRY:										
MRL Lease-2nd 2007	0.00	93.39	0.00	0.00	93.39	0.00	0.00	0.00	0.00	93.39
MRL Lease-1st 2008	0.00	99.93	0.00	0.00	99.93	0.00	0.00	0.00	0.00	99.93
Dawson - BN Lease	0.00	0.00	0.00	(110.47)	(110.47)	0.00	0.00	0.00	0.00	(110.47)
Yellowstone - Billings	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Yellowstone - Billings	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	\$2,787,981.71	\$1,928,606.12	\$0.00	\$317,347.75	\$5,033,935.58	\$0.00	\$0.00	\$0.00	\$559.44	\$5,034,495.02

31

MONTANA-DAKOTA UTILITIES CO.
MONTANA PROPERTY TAXES
2008

COUNTY	2008 TAXES	2007 TAXES	INCREASE/ (DECREASE)	% INCREASE / (DECREASE)
BIG HORN	\$40,436.90	\$32,665.58	7,771.32	23.791%
CARBON	31,253.96	28,190.46	3,063.50	10.867%
CARTER	228.48	188.93	39.55	20.934%
CUSTER	661,393.42	564,656.65	96,736.77	17.132%
DANIELS	67,477.81	56,910.80	10,567.01	18.568%
DAWSON	1,181,465.92	1,001,171.91	180,294.01	18.008%
FALLON	260,760.08	114,931.33	145,828.75	126.883%
MCCONE	389.97	339.64	50.33	14.819%
PHILLIPS	31,147.89	26,385.41	4,762.48	18.050%
POWDER RIVER	552.84	604.45	(51.61)	-8.538%
PRAIRIE	41,466.31	33,050.37	8,415.94	25.464%
RICHLAND	546,181.18	487,470.96	58,710.22	12.044%
ROOSEVELT	329,551.46	273,614.41	55,937.05	20.444%
ROSEBUD	118,427.83	99,990.37	18,437.46	18.439%
SHERIDAN	155,355.84	126,083.75	29,272.09	23.216%
STILLWATER	9,374.44	6,884.21	2,490.23	36.173%
VALLEY	72,187.12	60,614.19	11,572.93	19.093%
WIBAUX	38,648.03	32,797.42	5,850.61	17.839%
YELLOWSTONE	1,447,553.25	1,110,058.55	337,494.70	30.403%
	\$5,033,852.73	\$4,056,609.39	\$977,243.34	24.090%
SUNDRY:				
MRL Lease-2nd 2007	93.39	85.10	8.29	
MRL Lease-1st 2008	99.93	93.39	6.54	
Dawson - BN Lease	(110.47)	0.00	(110.47)	
Yellowstone - Billings	0.00	0.00	0.00	
Yellowstone - Billings	0.00	0.00	0.00	
	\$5,033,935.58	\$4,056,787.88	\$977,147.70	24.087%

32

MONTANA-DAKOTA UTILITIES CO.
MONTANA PROPERTY TAXES
2009

COUNTY	TOTAL TAX	ELECTRIC PROPERTY				GAS PROPERTY				OTHER		COMMON TOTAL
		TOTAL	INTANG.	PROD.	TRANS.	DIST.	GENERAL	TOTAL	INTANG.	DIST.	GENERAL	
1.2364.1MT	\$40,542.16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$39,611.55	\$930.61	\$0.00	\$0.00	\$0.00
BIG HORN	33,017.58	0.00	0.00	0.00	0.00	0.00	0.00	31,847.55	1,170.03	0.00	0.00	0.00
CARBON	285.11	0.00	0.00	0.00	0.00	0.00	0.00	255.11	0.00	0.00	0.00	0.00
CARTER	653,116.34	481,743.78	0.00	51,373.51	75,056.28	341,662.02	0.00	145,866.08	4,927.64	0.00	0.00	20,778.84
CUSTER	61,286.85	877,036.13	0.00	414,641.52	158,212.41	270,735.75	33,446.45	119,987.21	5,743.00	0.00	0.00	0.00
DAWSON	1,088,933.60	248,374.94	0.00	74,504.57	109,560.81	62,988.72	1,312.84	18,917.50	304.17	0.00	0.00	86,187.26
FALLON	270,375.52	205.65	0.00	0.00	0.00	205.65	0.00	151.41	0.00	0.00	0.00	3,083.08
MCCONE	357.06	0.00	0.00	0.00	0.00	0.00	0.00	28,729.04	836.26	0.00	0.00	0.00
PHILLIPS	29,565.30	0.00	0.00	0.00	0.00	0.00	0.00	517.51	0.00	0.00	0.00	0.00
POWDER RIVER	517.51	0.00	0.00	0.00	0.00	0.00	0.00	10,404.04	2.23	0.00	0.00	91.66
PRAIRIE	42,898.00	32,402.30	0.00	0.00	452.66	31,949.64	0.00	66,526.41	1,150.55	0.00	0.00	2,662.63
RICHLAND	541,642.94	471,303.35	0.00	281,463.42	50,024.97	135,033.26	4,781.70	64,493.59	3,410.56	0.00	0.00	15,487.06
ROOSEVELT	326,343.30	242,952.09	0.00	0.00	44,169.61	188,910.50	9,871.98	25,666.87	585.71	0.00	0.00	944.38
ROSEBUD	119,108.71	92,497.46	0.00	0.00	24,302.21	65,668.59	2,526.66	10,897.38	0.00	0.00	0.00	0.00
SHERIDAN	141,051.13	141,051.13	0.00	0.00	52,098.79	84,581.72	4,370.62	71,921.60	2,411.84	0.00	0.00	0.00
STILLWATER	10,897.38	0.00	0.00	0.00	0.00	0.00	0.00	5,264.35	0.00	0.00	0.00	0.00
VALLEY	74,333.44	0.00	0.00	0.00	0.00	0.00	0.00	1,267,430.93	63,343.48	0.00	0.00	0.00
WIBAUX	40,540.46	35,247.18	0.00	0.00	16,865.18	18,202.34	179.66	0.00	0.00	0.00	0.00	28.93
YELLOWSTONE	1,500,466.81	0.00	0.00	0.00	0.00	0.00	0.00	1,330,774.41	63,343.48	0.00	0.00	169,692.40
SUB-TOTAL	\$4,975,249.20	\$2,684,100.86	\$0.00	\$821,983.02	\$537,038.23	\$1,250,215.13	\$74,864.48	\$1,992,192.10	\$84,816.08	\$0.00	\$0.00	\$298,956.24
SUNDRY:												
MRL Lease-2nd 2008	99.90	0.00	0.00	0.00	0.00	0.00	0.00	99.90	0.00	0.00	0.00	0.00
MRL Lease-1st 2009	121.48	0.00	0.00	0.00	0.00	0.00	0.00	121.48	0.00	0.00	0.00	0.00
Dawson - BN Lease	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Valley - Glasgow	(385.45)	0.00	0.00	0.00	0.00	0.00	0.00	(385.45)	0.00	0.00	0.00	0.00
Yellowstone - Billings	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	\$4,975,085.13	\$2,684,100.86	\$0.00	\$821,983.02	\$537,038.23	\$1,250,215.13	\$74,864.48	\$1,992,028.03	\$84,430.63	\$0.00	\$0.00	\$298,956.24
COMMON APPORT.	\$74,206.89	\$74,206.89						\$224,749.35	224,749.35			(288,956.24)
	\$4,975,085.13	\$2,758,307.75					\$149,071.37	\$2,216,777.38	\$309,179.98			\$0.00

33

MONTANA-DAKOTA UTILITIES CO.
MONTANA PROPERTY TAXES
2009

COUNTY	TOTAL ELECTRIC	TOTAL GAS	TOTAL OTHER	TOTAL COMMON	SUB-TOTAL	SPECIALS	INTEREST	MDSE	OTHER	2009 TOTAL TAX
					1.2364.1MT					*
BIG HORN	\$0.00	\$40,542.16	\$0.00	\$0.00	\$40,542.16	\$0.00	\$0.00	\$0.00	\$0.00	\$40,542.16
CARBON	0.00	33,017.58	0.00	0.00	33,017.58	0.00	0.00	0.00	0.00	33,017.58
CARTER	0.00	255.11	0.00	0.00	255.11	0.00	0.00	0.00	0.00	255.11
CUSTER	481,743.78	150,593.72	0.00	20,778.84	653,116.34	0.00	0.00	0.00	590.89	653,707.23
DANIELS	61,286.85	0.00	0.00	0.00	61,286.85	0.00	0.00	0.00	0.00	61,286.85
DAWSON	877,036.13	125,710.21	0.00	86,187.26	1,088,933.60	0.00	0.00	0.00	0.00	1,088,933.60
FALLON	248,374.94	18,917.50	0.00	3,083.08	270,375.52	0.00	0.00	0.00	0.00	270,375.52
MCCONE	205.65	151.41	0.00	0.00	357.06	0.00	0.00	0.00	0.00	357.06
PHILLIPS	0.00	29,565.30	0.00	0.00	29,565.30	0.00	0.00	0.00	0.00	29,565.30
POWDER RIVER	0.00	517.51	0.00	0.00	517.51	0.00	0.00	0.00	0.00	517.51
PRAIRIE	32,402.30	10,404.04	0.00	91.66	42,898.00	0.00	0.00	0.00	0.00	42,898.00
RICHLAND	471,303.35	67,676.96	0.00	2,662.63	541,642.94	0.00	0.00	0.00	0.00	541,642.94
ROOSEVELT	242,952.09	67,904.15	0.00	15,487.06	326,343.30	0.00	0.00	0.00	0.00	326,343.30
ROSEBUD	92,497.46	25,666.87	0.00	944.38	119,108.71	0.00	0.00	0.00	0.00	119,108.71
SHERIDAN	141,051.13	0.00	0.00	0.00	141,051.13	0.00	0.00	0.00	0.00	141,051.13
STILLWATER	0.00	10,897.38	0.00	0.00	10,897.38	0.00	0.00	0.00	0.00	10,897.38
VALLEY	0.00	74,333.44	0.00	0.00	74,333.44	0.00	0.00	0.00	0.00	74,333.44
WIBAUX	35,247.18	5,264.35	0.00	28.93	40,540.46	0.00	0.00	0.00	0.00	40,540.46
YELLOWSTONE	0.00	1,330,774.41	0.00	169,692.40	1,500,466.81	0.00	0.00	0.00	0.00	1,500,466.81
SUB-TOTAL	\$2,684,100.86	\$1,992,192.10	\$0.00	\$298,956.24	\$4,975,249.20	\$0.00	\$0.00	\$0.00	\$590.89	\$4,975,840.09
SUNDRY:										
MRL Lease-2nd 2008	0.00	99.90	0.00	0.00	99.90	0.00	0.00	0.00	0.00	99.90
MRL Lease-1st 2009	0.00	121.48	0.00	0.00	121.48	0.00	0.00	0.00	0.00	121.48
Dawson - BN Lease	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Valley - Glasgow	0.00	(385.45)	0.00	0.00	(385.45)	0.00	0.00	0.00	0.00	(385.45)
Yellowstone - Billings	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	\$2,684,100.86	\$1,992,028.03	\$0.00	\$298,956.24	\$4,975,085.13	\$0.00	\$0.00	\$0.00	\$590.89	\$4,975,676.02

34

MONTANA-DAKOTA UTILITIES CO.
MONTANA PROPERTY TAXES
2009

COUNTY	2009 TAXES	2008 TAXES	INCREASE/ (DECREASE)	% INCREASE / (DECREASE)
BIG HORN	\$40,542.16	\$40,436.90	105.26	0.260%
CARBON	33,017.58	31,253.96	1,763.62	5.643%
CARTER	255.11	228.48	26.63	11.655%
CUSTER	653,116.34	661,393.42	(8,277.08)	-1.251%
DANIELS	61,286.85	67,477.81	(6,190.96)	-9.175%
DAWSON	1,088,933.60	1,181,465.92	(92,532.32)	-7.832%
FALLON	270,375.52	260,760.08	9,615.44	3.687%
MCCONE	357.06	389.97	(32.91)	-8.439%
PHILLIPS	29,565.30	31,147.89	(1,582.59)	-5.081%
POWDER RIVER	517.51	552.84	(35.33)	-6.391%
PRAIRIE	42,898.00	41,466.31	1,431.69	3.453%
RICHLAND	541,642.94	546,181.18	(4,538.24)	-0.831%
ROOSEVELT	326,343.30	329,551.46	(3,208.16)	-0.973%
ROSEBUD	119,108.71	118,427.83	680.88	0.575%
SHERIDAN	141,051.13	155,355.84	(14,304.71)	-9.208%
STILLWATER	10,897.38	9,374.44	1,522.94	16.246%
VALLEY	74,333.44	72,187.12	2,146.32	2.973%
WIBAUX	40,540.46	38,648.03	1,892.43	4.897%
YELLOWSTONE	1,500,466.81	1,447,553.25	52,913.56	3.655%
	\$4,975,249.20	\$5,033,852.73	(\$58,603.53)	-1.164%
SUNDRY:				
MRL Lease-2nd 2008	99.90	93.39	6.51	
MRL Lease-1st 2009	121.48	99.93	21.55	
Dawson - BN Lease	0.00	(110.47)	110.47	
Valley - Glasgow	(385.45)	0.00	(385.45)	
Yellowstone - Billings	0.00	0.00	0.00	
	\$4,975,085.13	\$5,033,935.58	(\$58,850.45)	-1.169%

35

**MONTANA-DAKOTA UTILITIES CO.
ADVOCACY STAFF – MARC, LLC
DATA REQUEST DATED AUGUST 23, 2010
CASE NO. PU-10-124**

- NDPSC-DR-074**
- a. Please refer to Stmt N p 14-21, regarding Working Capital items; please provide explanation and documentation for including unamortized loss on debt of \$4,556,000 and prepaid insurance of \$373,000 and deferred generation cost of \$1,547,000 as part of working capital.**
 - b. Please explain why the unamortized loss was not considered part of the overall outstanding debt balance.**

Response:

- a. When Montana-Dakota reacquires or retires debt in order to reduce its debt costs, the unamortized loss is then amortized over the remaining life of the new issuance or in the case when debt is not issued, over the remaining life of the retired debt. Customers benefit through the net lower cost of debt and it is proper to include the cost of achieving the savings through the inclusion of the unamortized balance of the loss on debt in rate base. Please see Attachment A for workpapers supporting unamortized loss on debt balances.

Insurance premiums are usually paid annually and amortized over the applicable time period, resulting in a prepaid balance, which is an addition to rate base. Prepaid insurance is based on a thirteen-month average of projected balances based on current expense levels at the time of the filing. Please see Statement Workpapers, Statement N, Pages 19-32 for the support for the projected insurance expense based on current expense levels and the allocation to North Dakota (page 19) and the calculation of the prepaid balances for North Dakota electric operations (page 20). Pages 21-32 show the 2009 and 2010 insurance expense by month by policy.

The deferred generation costs are made up of the costs incurred by Montana-Dakota in its efforts to acquire generation resources. The total deferred generation costs are amortized over ten years, with the unamortized amount in rate base. Please see Attachment B Pages 1-3 for deferred generation costs.

- b. The unamortized loss on bond redemption is recorded in FERC account 1890 pursuant to FERC accounting. It is not included in the long-term debt balance as it is not a debt instrument. The bond redemption costs are included in the debt cost included in the cost of capital, as shown on Statement F, Schedule F-1.

**MONTANA-DAKOTA UTILITIES CO.
UNAMORTIZED LOSS ON DEBT
ELECTRIC UTILITY - NORTH DAKOTA
FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2009
PROJECTED 2010**

	<u>Total Company</u>	<u>North Dakota</u>
Balance at December 31, 2009	\$7,561,148	\$5,015,081
Amortization of Loss	<u>(689,776)</u>	<u>(459,510)</u>
Balance at December 31, 2010	<u>\$6,871,372</u>	<u>\$4,555,571</u>

1/ Allocated on Net Plant in Service.

	<u>Balance</u>	<u>2010 Amortization</u>
Total Company	\$10,285,123	(\$900,264)
Allocate to Electric	7,561,148	(689,776)
Allocate to North Dakota	5,015,081	(459,510)

**MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - NORTH DAKOTA
DEFERRED GENERATION COSTS
PROJECTED 2010
(000s)**

	<u>Total Company</u>	<u>North Dakota</u>
Deferred Generation Costs 1/	\$2,478	\$1,719
Amortization 2/		<u>172</u>
Balance		<u><u>\$1,547</u></u>

1/ Costs incurred in the acquisition of generation, excluding the Big Stone II costs.
2/ Amortized over ten years.

BSII	13,885
Other	<u>2,478</u>
Total	<u>16,363</u>

**MONTANA-DAKOTA UTILITIES CO.
DEFERRED GENERATION COSTS**

	<u>Total</u>	<u>Expenditures</u>	<u>AFUDC</u>
Big Stone II	\$13,885,260	\$11,883,071	\$2,002,189
LV21	2,145,942	1,769,914	376,028
Milton Young III	332,162	323,360	8,802
Total	<u>\$16,363,364</u>	<u>\$13,976,345</u>	<u>\$2,387,019</u>

Average Plant Balance

Year	Average Plant Balance (Excluding AFUDC)	Average Vision 21 Plant balance	Average Young 3 plant balance	Average Big Stone II plant balance	Vision 21 % plant balance	Young 3 % plant balance	Big Stone II % plant balance
2006	8,194,490.96	1,769,914.45	0.00	6,424,576.51	21.60%	0.00%	78.40%
2007	9,570,969.36	1,769,914.45	0.00	7,801,054.91	18.49%	0.00%	81.51%
2008	11,368,298.43	1,769,914.45	0.00	9,598,383.98	15.57%	0.00%	84.43%
2009	13,197,217.68	1,769,914.45	107,786.76	11,319,516.46	13.41%	0.82%	85.77%

Year	Total AFUDC	Vision 21 AFUDC	Young 3 AFUDC	Big Stone II AFUDC
2006	72,907.03	15,747.07	0.00	57,159.96
2007	795,278.54	147,067.13	0.00	648,211.41
2008	441,196.07	68,689.20	0.00	372,506.87
2009	1,077,637.01	144,524.81	8,801.48	924,310.73
Total	2,387,018.65	376,028.20	8,801.48	2,002,188.97

AFUDC Last booked 10/31/2009
 Plant additions in Nov 09
 Plant additions in Dec 09

326325.79
 20965.75

**MONTANA-DAKOTA UTILITIES CO.
ADVOCACY STAFF – MARC, LLC
DATA REQUEST DATED AUGUST 23, 2010
CASE NO. PU-10-124**

NDPSC-DR-075 Please refer to response number NDPSC-DR-040A attachment A, page 1 of 1. Why ADIT for 2009 and 2010 balances remain constant even though wind plants are added in 2010 June?

Response:

Upon review of the accumulated deferred income taxes (ADITs), it was discovered that the ADITs associated with the 2010 wind generation additions were calculated with an incorrect tax and book depreciation rate. Please see Attachment A for the initial calculation and the revised calculation reflecting the corrected tax depreciation rates.

MONTANA-DAKOTA UTILITIES CO.
 ACCUMULATED DEFERRED INCOME TAXES
 ELECTRIC UTILITY - NORTH DAKOTA
 PROJECTED 2010
 (000s)

	North Dakota Plant	Tax 1/ Depr. Rate	1st year Tax Depr.	Book Depr. Rate	1st year Book Depr.	Book/Tax Difference	Deferred Inc. Tax
<u>Included in Filing</u>							
Wind Generation	\$47,796	1.28%	\$612	2.20%	\$526	\$86	\$34
<u>As revised</u>							
Wind Generation	47,796	20.00%	9,559	5.00%	1,195	8,364	3,275
Additional Accumulated Def. Income Taxes							<u>\$3,241</u>
Accumulated DITs as filed	\$49,973						
Adjustment	3,241						
Revised Acc. DITs	<u>\$53,214</u>						

**MONTANA-DAKOTA UTILITIES CO.
ADVOCACY STAFF – MARC, LLC
DATA REQUEST DATED AUGUST 26, 2010
CASE NO. PU-10-124**

NDPSC-DR-079 What is the total cost of fuel and purchased power for 2009 and projected 2010 for MDU-North Dakota Electric excluding Wind production? Please show a schedule of calculation.

Response:

Please see Statement Workpapers, Statement M, page 1.

**MONTANA-DAKOTA UTILITIES CO.
ADVOCACY STAFF – MARC, LLC
DATA REQUEST DATED AUGUST 26, 2010
CASE NO. PU-10-124**

NDPSC-DR-080 What is the average kwh cost of fuel and purchased power for 2009 and projected 2010 for MDU-North Dakota Electric excluding Wind production? Please show a schedule of calculation.

Response:

Please see Statement Workpapers, Statement M, page 1.

**MONTANA-DAKOTA UTILITIES CO.
ADVOCACY STAFF – MARC, LLC
DATA REQUEST DATED AUGUST 26, 2010
CASE NO. PU-10-124**

NDPSC-DR-081 What was the total generated and purchased KW and Kwh, excluding Wind Power, for 2009 and projected 2010 for MDU-North Dakota Electric? Please show schedule by month.

Response:

Please see Attachment A for the amounts allocated to North Dakota. Attachment B provides the total integrated system amounts based on the models provided in Response No. 54.

**MONTANA-DAKOTA UTILITIES CO.
FUEL AND PURCHASED POWER
ELECTRIC UTILITY - NORTH DAKOTA
TWELVE MONTHS ENDING DECEMBER 31, 2009
PROJECTED 2010**

	2009			January			February			March		
	Kwh	Fuel Costs	Total	Kwh	Fuel Costs	Total	Kwh	Fuel Costs	Total	Kwh	Fuel Costs	Total
Steam Generation	1,381,616,539	\$25,263,047		135,172,309	\$2,412,992		133,415,771	\$2,440,885		111,857,914	\$2,081,227	
Gas Turbines	1,197,645	232,913		5,317	35,812		34,921	12,185		204,669	21,721	
Diamond Willow	44,034,075	0		6,321,110	0		3,147,935	0		3,957,899	0	
Ormat	6,681,608	44,098		0	0		0	0		0	0	
Purchases	258,164,723	5,817,028		21,570,749	940,768		5,136,977	120,839		36,643,666	565,568	
Total	1,691,694,590	\$31,357,086		163,069,485	\$3,389,572		141,735,604	\$2,573,909		152,664,148	\$2,668,516	
Sales for Resale	59,059,856	\$1,063,437		1,809,721	\$41,643		2,981,780	\$55,063		1,466,040	\$26,910	
Total Generation/Purchases	1,632,634,734	\$30,293,649		161,259,764	\$3,347,929		138,753,824	\$2,518,846		151,198,108	\$2,641,606	
Excluding Diamond Willow	1,647,660,515	\$31,357,086		156,748,375	\$3,389,572		138,587,669	\$2,573,909		148,706,249	\$2,668,516	
Projected 2010 With Wind												
Steam Generation	1,523,456,100	\$29,234,291		137,239,529	\$2,633,182		128,479,559	\$2,466,418		127,571,117	\$2,458,632	
Gas Turbines	5,645,314	560,636		454,221	43,475		324,443	31,795		324,443	28,551	
Diamond Willow	64,564,224	0		5,904,869	0		5,061,316	0		5,904,869	0	
Cedar Hills	41,982,967	0		3,828,431	0		3,309,322	0		3,828,431	0	
Ormat	19,855,931	133,021		1,687,105	11,031		1,557,328	11,031		1,687,105	11,031	
Purchases	160,015,451	4,082,796		11,485,294	419,830		9,798,189	356,888		6,618,644	155,733	
Total	1,815,519,987	\$34,010,744		160,599,449	\$3,107,518		148,530,157	\$2,866,132		145,934,609	\$2,653,947	
Sales for Resale	106,871,634	\$2,657,192		9,668,411	\$378,301		4,282,652	\$156,382		7,397,308	\$185,582	
Total Generation/Purchases	1,708,648,353	31,353,552		150,931,038	2,729,217		144,247,505	2,709,750		138,537,301	2,468,365	
Projected 2010 Without Any Wind												
Steam Generation	1,561,935,080	\$29,944,822		139,380,855	\$2,675,360		131,269,771	\$2,524,818		124,780,905	\$2,369,085	
Gas Turbines	6,618,641	641,749		519,109	49,315		519,109	49,964		519,109	51,262	
Ormat	19,855,930	130,425		1,687,105	11,031		1,557,328	10,382		1,687,105	11,031	
Purchases	163,843,881	4,017,257		13,237,288	415,936		13,367,065	418,532		14,859,505	297,839	
Total	1,752,253,532	\$34,734,253		154,824,357	\$3,151,642		146,713,273	\$3,003,696		141,846,624	\$2,729,217	
Sales for Resale	43,280,741	\$1,035,624		3,893,320	\$93,440		2,400,881	\$57,751		3,309,322	\$79,164	
Total Generation/Purchases	1,708,972,791	\$33,698,629		150,931,037	\$3,058,202		144,312,392	\$2,945,945		138,537,302	\$2,650,053	

**MONTANA-DAKOTA UTILITIES CO.
FUEL AND PURCHASED POWER
ELECTRIC UTILITY - NORTH DAKOTA
TWELVE MONTHS ENDING DECEMBER 31, 2009
PROJECTED 2010**

	April		May		June	
	Kwh	Fuel Costs	Kwh	Fuel Costs	Kwh	Fuel Costs
2009						
Steam Generation	73,370,030	\$1,419,601	95,149,599	\$1,776,415	109,437,667	\$1,981,501
Gas Turbines	228,128	42,222	468,604	50,520	(25,897)	3,925
Diamond Willow	3,699,056	0	3,691,380	0	2,463,002	0
Ormat	0	0	0	0	0	0
Purchases	45,193,527	866,317	23,824,396	402,114	21,551,973	451,509
Total	<u>122,490,741</u>	<u>\$2,328,140</u>	<u>123,133,979</u>	<u>\$2,229,049</u>	<u>133,426,745</u>	<u>\$2,436,935</u>
Sales for Resale	15,966	\$271	7,267,945	\$121,643	7,581,129	\$128,457
Total Generation/Purchases	<u>122,474,775</u>	<u>\$2,327,869</u>	<u>115,866,034</u>	<u>\$2,107,406</u>	<u>125,845,616</u>	<u>\$2,308,478</u>
Excluding Diamond Willow	<u>118,791,685</u>	<u>\$2,328,140</u>	<u>119,442,599</u>	<u>\$2,229,049</u>	<u>130,963,743</u>	<u>\$2,436,935</u>
<u>Projected 2010 With Wind</u>						
Steam Generation	125,235,125	\$2,383,361	105,898,303	\$1,970,020	118,876,036	\$2,329,503
Gas Turbines	324,443	32,444	454,221	41,529	454,221	55,804
Diamond Willow	6,099,535	0	5,775,091	0	4,282,652	0
Cedar Hills	3,958,209	0	3,763,543	0	2,790,213	0
Ormat	1,557,328	11,031	1,687,105	11,031	1,622,217	11,031
Purchases	5,320,871	126,533	17,065,719	389,981	22,062,146	473,687
Total	<u>142,495,511</u>	<u>\$2,553,369</u>	<u>134,643,982</u>	<u>\$2,412,561</u>	<u>150,087,485</u>	<u>\$2,870,025</u>
Sales for Resale	11,290,628	\$249,172	5,839,980	\$113,555	18,363,492	\$377,003
Total Generation/Purchases	<u>131,204,883</u>	<u>2,304,197</u>	<u>128,804,002</u>	<u>2,299,006</u>	<u>131,723,993</u>	<u>2,493,022</u>
<u>Projected 2010 Without Any Wind</u>						
Steam Generation	124,261,795	\$2,373,627	113,360,500	\$2,153,006	121,276,917	\$2,365,192
Gas Turbines	519,109	53,209	519,109	47,369	713,775	66,835
Ormat	1,557,328	10,382	1,687,105	11,031	1,622,217	11,031
Purchases	9,019,525	186,230	15,897,723	318,603	14,340,395	308,870
Total	<u>135,357,757</u>	<u>\$2,623,448</u>	<u>131,464,437</u>	<u>\$2,530,009</u>	<u>137,953,304</u>	<u>\$2,751,928</u>
Sales for Resale	4,152,875	\$99,929	2,660,435	\$63,591	6,034,646	\$144,702
Total Generation/Purchases	<u>131,204,882</u>	<u>\$2,523,519</u>	<u>128,804,002</u>	<u>\$2,466,418</u>	<u>131,918,658</u>	<u>\$2,607,226</u>

MONTANA-DAKOTA UTILITY CO.
FUEL AND PURCHASED POWER
ELECTRIC UTILITY - NORTH DAKOTA
TWELVE MONTHS ENDING DECEMBER 31, 2009
PROJECTED 2010

	July		August		September	
	Kwh	Fuel Costs	Kwh	Fuel Costs	Kwh	Fuel Costs
2009						
Steam Generation	103,683,324	\$1,938,441	112,594,230	\$1,980,129	109,237,405	\$1,933,060
Gas Turbines	17,305	5,317	2,110	4,016	133,453	18,905
Diamond Willow	2,403,674	0	3,100,772	0	3,302,824	0
Ormat	1,124,978	7,426	170,648	1,126	764,893	5,048
Purchases	32,505,207	652,527	23,552,797	399,314	20,411,566	355,529
Total	139,734,488	\$2,603,711	139,420,557	\$2,384,585	133,850,141	\$2,312,542
Sales for Resale	1,301,863	\$21,697	2,259,348	\$38,759	4,029,287	\$71,447
Total Generation/Purchases	138,432,625	\$2,582,014	137,161,209	\$2,345,826	129,820,854	\$2,241,095
Excluding Diamond Willow	137,330,814	\$2,603,711	136,319,785	\$2,384,585	130,547,317	\$2,312,542
Projected 2010 With Wind						
Steam Generation	126,922,231	\$2,467,716	130,815,551	\$2,517,031	130,491,107	\$2,498,863
Gas Turbines	908,441	85,004	648,887	61,644	583,998	55,155
Diamond Willow	3,763,543	0	4,087,986	0	4,087,986	0
Cedar Hills	2,465,769	0	2,660,435	0	2,660,435	0
Ormat	1,687,105	11,031	1,687,105	11,031	1,622,217	11,031
Purchases	28,810,568	618,389	20,375,041	436,052	7,072,865	176,497
Total	164,557,657	\$3,182,140	160,275,005	\$3,025,758	146,518,608	\$2,741,546
Sales for Resale	5,126,205	\$99,929	10,511,964	\$220,621	7,656,863	\$155,084
Total Generation/Purchases	159,431,452	3,082,211	149,763,041	2,805,137	138,861,745	2,586,462
Projected 2010 Without Any Wind						
Steam Generation	141,132,849	\$2,708,453	135,552,423	\$2,598,142	131,529,326	\$2,520,276
Gas Turbines	713,775	69,431	583,998	55,804	583,998	57,102
Ormat	1,687,105	11,031	1,687,105	11,031	1,687,105	11,031
Purchases	18,623,047	401,661	16,092,389	344,559	7,721,751	197,262
Total	162,156,776	\$3,190,576	153,915,915	\$3,009,536	141,522,180	\$2,785,671
Sales for Resale	2,790,213	\$66,186	4,087,986	\$98,631	2,595,547	\$62,293
Total Generation/Purchases	159,366,563	\$3,124,390	149,827,929	\$2,910,905	138,926,633	\$2,723,378

MONTANA-DAKOTA UTILITIES
FUEL AND PURCHASED POWER
ELECTRIC UTILITY - NORTH DAKOTA
TWELVE MONTHS ENDING DECEMBER 31, 2009
PROJECTED 2010

	October			November			December		
	Kwh	Fuel Costs		Kwh	Fuel Costs		Kwh	Fuel Costs	
2009									
Steam Generation	137,522,705	\$2,557,516		120,301,732	\$2,131,889		139,873,853	\$2,609,391	
Gas Turbines	(84,200)	5,847		249,194	21,160		(35,959)	11,283	
Diamond Willow	3,577,994	0		3,910,345	0		4,458,084	0	
Ormat	1,882,513	12,424		1,630,286	10,760		1,108,290	7,314	
Purchases	(72,873)	132,642		4,566,492	93,871		23,280,246	836,030	
Total	142,826,139	\$2,708,429		130,658,049	\$2,257,680		168,684,514	\$3,464,018	
Sales for Resale	18,030,084	\$320,402		9,226,359	\$175,649		3,090,334	\$61,496	
Total Generation/Purchases	124,796,055	\$2,388,027		121,431,690	\$2,082,031		165,594,180	\$3,402,522	
Excluding Diamond Willow	139,248,145	\$2,708,429		126,747,704	\$2,257,680		164,226,430	\$3,464,018	
Projected 2010 With Wind									
Steam Generation	124,521,350	\$2,358,054		130,685,773	\$2,506,000		136,720,419	\$2,645,511	
Gas Turbines	324,443	40,880		389,332	40,880		454,221	43,475	
Diamond Willow	4,607,095	0		7,332,419	0		7,656,863	0	
Cedar Hills	2,984,879	0		4,736,873	0		4,996,427	0	
Ormat	1,687,105	11,031		1,622,217	11,031		1,751,994	11,680	
Purchases	10,317,298	240,737		6,553,755	156,382		14,535,061	532,087	
Total	144,442,170	\$2,650,702		151,320,369	\$2,714,293		166,114,985	\$3,232,753	
Sales for Resale	11,744,849	\$293,946		7,656,863	\$173,253		7,332,419	\$254,364	
Total Generation/Purchases	132,697,321	2,356,756		143,663,506	2,541,040		158,782,566	2,978,389	
Projected 2010 Without Any Wind									
Steam Generation	124,456,461	\$2,361,299		135,357,757	\$2,598,142		139,575,521	\$2,697,422	
Gas Turbines	324,443	29,849		519,109	52,560		583,998	59,049	
Ormat	1,687,105	11,031		1,622,217	11,031		1,687,105	10,382	
Purchases	11,225,739	279,021		10,252,409	248,524		19,207,045	600,220	
Total	137,693,748	\$2,681,200		147,751,492	\$2,910,257		161,053,669	\$3,367,073	
Sales for Resale	4,996,427	\$120,044		4,023,097	\$97,333		2,335,992	\$52,560	
Total Generation/Purchases	132,697,321	\$2,561,156		143,728,395	\$2,812,924		158,717,677	\$3,314,513	

**MONTANA-DAKOTA UTILITIES CO.
FUEL AND PURCHASED POWER
ELECTRIC UTILITY - INTEGRATED SYSTEM
TWELVE MONTHS ENDING DECEMBER 31, 2009
PROJECTED 2010**

	Total		January		February		March	
	Kwh	Fuel Costs	Kwh	Fuel Costs	Kwh	Fuel Costs	Kwh	Fuel Costs
2009	2,123,862,265	\$38,835,111	207,790,916	\$3,709,324	205,090,713	\$3,752,201	171,951,331	\$3,199,325
Steam Generation	1,841,056	358,041	8,173	55,051	53,682	18,731	314,624	33,390
Gas Turbines	67,690,500	0	9,717,000	0	4,839,100	0	6,084,200	0
Diamond Willow	10,271,169	67,790	0	0	0	0	0	0
Ormat	396,858,534	8,942,111	33,159,200	1,446,177	7,896,715	185,757	56,329,740	869,408
Purchases	2,600,523,524	\$48,203,053	250,675,289	\$5,210,552	217,880,210	\$3,956,689	234,679,895	\$4,102,123
Total	90,788,576	\$1,634,749	2,781,957	\$64,015	4,583,681	\$84,645	2,253,640	\$41,367
Sales for Resale	2,509,734,948	\$46,568,304	247,893,332	\$5,146,537	213,296,529	\$3,872,044	232,426,255	\$4,060,756
Total Generation/Purchases	2,532,833,024	\$48,203,053	240,958,289	\$5,210,552	213,041,110	\$3,956,689	228,595,695	\$4,102,123
Excluding Diamond Willow	2,347,800,000	\$45,053,000	211,500,000	\$4,058,000	198,000,000	\$3,801,000	196,600,000	\$3,789,000
Projected 2010 With Wind	8,700,000	864,000	700,000	67,000	500,000	49,000	500,000	44,000
Steam Generation	99,500,000	0	9,100,000	0	7,800,000	0	9,100,000	0
Gas Turbines	64,700,000	0	5,900,000	0	5,100,000	0	5,900,000	0
Diamond Willow	30,600,000	205,000	2,600,000	17,000	2,400,000	17,000	2,600,000	17,000
Cedar Hills	246,600,000	6,292,000	17,700,000	647,000	15,100,000	550,000	10,200,000	240,000
Ormat	2,797,900,000	\$52,414,000	247,500,000	\$4,789,000	228,900,000	\$4,417,000	224,900,000	\$4,090,000
Purchases	164,700,000	\$4,095,000	14,900,000	\$583,000	6,600,000	\$241,000	11,400,000	\$286,000
Total	2,633,200,000	48,319,000	232,600,000	4,206,000	222,300,000	4,176,000	213,500,000	3,804,000
Sales for Resale	2,407,100,000	\$46,148,000	214,800,000	\$4,123,000	202,300,000	\$3,891,000	192,300,000	\$3,651,000
Projected 2010 Without Any Wind	10,200,000	989,000	800,000	76,000	800,000	77,000	800,000	79,000
Steam Generation	30,600,000	201,000	2,600,000	17,000	2,400,000	16,000	2,600,000	17,000
Gas Turbines	252,500,000	6,191,000	20,400,000	641,000	20,600,000	645,000	22,900,000	459,000
Ormat	2,700,400,000	\$53,529,000	238,600,000	\$4,857,000	226,100,000	\$4,629,000	218,600,000	\$4,206,000
Purchases	66,700,000	\$1,596,000	6,000,000	\$144,000	3,700,000	\$89,000	5,100,000	\$122,000
Total	2,633,700,000	\$51,933,000	232,600,000	\$4,713,000	222,400,000	\$4,540,000	213,500,000	\$4,084,000
Sales for Resale								
Total Generation/Purchases								

MONTANA-DAKOTA UTILITIES CO.
 FUEL AND PURCHASED POWER
 ELECTRIC UTILITY - INTEGRATED SYSTEM
 TWELVE MONTHS ENDING DECEMBER 31, 2009
 PROJECTED 2010

2009	April		May		June	
	Kwh	Fuel Costs	Kwh	Fuel Costs	Kwh	Fuel Costs
Steam Generation	112,786,604	\$2,182,253	146,266,809	\$2,730,758	168,230,855	\$3,046,022
Gas Turbines	350,685	64,905	720,352	77,661	(39,810)	6,033
Diamond Willow	5,686,300	0	5,674,500	0	3,786,200	0
Ormat	0	0	0	0	0	0
Purchases	69,472,842	1,331,729	36,623,574	618,142	33,130,338	694,073
Total	188,296,431	\$3,578,887	189,285,235	\$3,426,561	205,107,583	\$3,746,128
Sales for Resale	24,543	\$417	11,172,502	\$186,993	11,653,938	\$197,468
Total Generation/Purchases	188,271,888	\$3,578,470	178,112,733	\$3,239,568	193,453,645	\$3,548,660
Excluding Diamond Willow	182,610,131	\$3,578,887	183,610,735	\$3,426,561	201,321,383	\$3,746,128
Projected 2010 With Wind						
Steam Generation	193,000,000	\$3,673,000	163,200,000	\$3,036,000	183,200,000	\$3,590,000
Gas Turbines	500,000	50,000	700,000	64,000	700,000	86,000
Diamond Willow	9,400,000	0	8,900,000	0	6,600,000	0
Cedar Hills	6,100,000	0	5,800,000	0	4,300,000	0
Ormat	2,400,000	17,000	2,600,000	17,000	2,500,000	17,000
Purchases	8,200,000	195,000	26,300,000	601,000	34,000,000	730,000
Total	219,600,000	\$3,935,000	207,500,000	\$3,718,000	231,300,000	\$4,423,000
Sales for Resale	17,400,000	\$384,000	9,000,000	\$175,000	28,300,000	\$581,000
Total Generation/Purchases	202,200,000	3,551,000	198,500,000	3,543,000	203,000,000	3,842,000
Projected 2010 Without Any Wind						
Steam Generation	191,500,000	\$3,658,000	174,700,000	\$3,318,000	186,900,000	\$3,645,000
Gas Turbines	800,000	82,000	800,000	73,000	1,100,000	103,000
Ormat	2,400,000	16,000	2,600,000	17,000	2,500,000	17,000
Purchases	13,900,000	287,000	24,500,000	491,000	22,100,000	476,000
Total	208,600,000	\$4,043,000	202,600,000	\$3,899,000	212,600,000	\$4,241,000
Sales for Resale	6,400,000	\$154,000	4,100,000	\$98,000	9,300,000	\$223,000
Total Generation/Purchases	202,200,000	\$3,889,000	198,500,000	\$3,801,000	203,300,000	\$4,018,000

**MONTANA-DAKOTA UTILITIES CO.
FUEL AND PURCHASED POWER
ELECTRIC UTILITY - INTEGRATED SYSTEM
TWELVE MONTHS ENDING DECEMBER 31, 2009
PROJECTED 2010**

	July		August		September	
	Kwh	Fuel Costs	Kwh	Fuel Costs	Kwh	Fuel Costs
2009						
Steam Generation	159,385,107	\$2,979,829	173,083,218	\$3,043,913	167,923,007	\$2,971,558
Gas Turbines	26,602	8,173	3,243	6,174	205,148	29,062
Diamond Willow	3,695,000	0	4,766,600	0	5,077,200	0
Ormat	1,729,350	11,416	262,325	1,731	1,175,817	7,760
Purchases	49,967,976	1,003,084	36,206,064	613,838	31,377,269	546,530
Total	214,804,035	\$4,002,502	214,321,450	\$3,665,656	205,758,441	\$3,554,910
Sales for Resale	2,001,263	\$33,354	3,473,138	\$59,581	6,193,941	\$109,831
Total Generation/Purchases	212,802,772	\$3,969,148	210,848,312	\$3,606,075	199,564,500	\$3,445,079
Excluding Diamond Willow	211,109,035	\$4,002,502	209,554,850	\$3,665,656	200,681,241	\$3,554,910
Projected 2010 With Wind						
Steam Generation	195,600,000	\$3,803,000	201,600,000	\$3,879,000	201,100,000	\$3,851,000
Gas Turbines	1,400,000	131,000	1,000,000	95,000	900,000	85,000
Diamond Willow	5,800,000	0	6,300,000	0	6,300,000	0
Cedar Hills	3,800,000	0	4,100,000	0	4,100,000	0
Ormat	2,600,000	17,000	2,600,000	17,000	2,500,000	17,000
Purchases	44,400,000	953,000	31,400,000	672,000	10,900,000	272,000
Total	253,600,000	\$4,904,000	247,000,000	\$4,663,000	225,800,000	\$4,225,000
Sales for Resale	7,900,000	\$154,000	16,200,000	\$340,000	11,800,000	\$239,000
Total Generation/Purchases	245,700,000	4,750,000	230,800,000	4,323,000	214,000,000	3,986,000
Projected 2010 Without Any Wind						
Steam Generation	217,500,000	\$4,174,000	208,900,000	\$4,004,000	202,700,000	\$3,884,000
Gas Turbines	1,100,000	107,000	900,000	86,000	900,000	88,000
Ormat	2,600,000	17,000	2,600,000	17,000	2,600,000	17,000
Purchases	28,700,000	619,000	24,800,000	531,000	11,900,000	304,000
Total	249,900,000	\$4,917,000	237,200,000	\$4,638,000	218,100,000	\$4,293,000
Sales for Resale	4,300,000	\$102,000	6,300,000	\$152,000	4,000,000	\$96,000
Total Generation/Purchases	245,600,000	\$4,815,000	230,900,000	\$4,486,000	214,100,000	\$4,197,000

MONTANA-DAKOTA UTILITIES CO.
 FUEL AND PURCHASED POWER
 ELECTRIC UTILITY - INTEGRATED SYSTEM
 TWELVE MONTHS ENDING DECEMBER 31, 2009
 PROJECTED 2010

	October		November		December	
	Kwh	Fuel Costs	Kwh	Fuel Costs	Kwh	Fuel Costs
2009						
Steam Generation	211,404,015	\$3,931,490	184,931,420	\$3,277,204	215,018,270	\$4,011,234
Gas Turbines	(129,435)	8,988	383,069	32,528	(55,277)	17,345
Diamond Willow	5,500,200	0	6,011,100	0	6,853,100	0
Ormat	2,893,856	19,099	2,506,124	16,540	1,703,697	11,244
Purchases	(112,023)	203,902	7,019,748	144,301	35,787,091	1,285,170
Total	219,556,613	\$4,163,479	200,851,461	\$3,470,573	259,306,881	\$5,324,993
Sales for Resale	27,716,384	\$492,532	14,183,035	\$270,013	4,750,554	\$94,533
Total Generation/Purchases	191,840,229	\$3,670,947	186,668,426	\$3,200,560	254,556,327	\$5,230,460
Excluding Diamond Willow	214,056,413	\$4,163,479	194,840,361	\$3,470,573	252,453,781	\$5,324,993
Projected 2010 With Wind						
Steam Generation	191,900,000	\$3,634,000	201,400,000	\$3,862,000	210,700,000	\$4,077,000
Gas Turbines	500,000	63,000	600,000	63,000	700,000	67,000
Diamond Willow	7,100,000	0	11,300,000	0	11,800,000	0
Cedar Hills	4,600,000	0	7,300,000	0	7,700,000	0
Ormat	2,600,000	17,000	2,500,000	17,000	2,700,000	18,000
Purchases	15,900,000	371,000	10,100,000	241,000	22,400,000	820,000
Total	222,600,000	\$4,085,000	233,200,000	\$4,183,000	256,000,000	\$4,982,000
Sales for Resale	18,100,000	\$453,000	11,800,000	\$267,000	11,300,000	\$392,000
Total Generation/Purchases	204,500,000	3,632,000	221,400,000	3,916,000	244,700,000	4,590,000
Projected 2010 Without Any Wind						
Steam Generation	191,800,000	\$3,639,000	208,600,000	\$4,004,000	215,100,000	\$4,157,000
Gas Turbines	500,000	46,000	800,000	81,000	900,000	91,000
Ormat	2,600,000	17,000	2,500,000	17,000	2,600,000	16,000
Purchases	17,300,000	430,000	15,800,000	383,000	29,600,000	925,000
Total	212,200,000	\$4,132,000	227,700,000	\$4,485,000	248,200,000	\$5,189,000
Sales for Resale	7,700,000	\$185,000	6,200,000	\$150,000	3,600,000	\$81,000
Total Generation/Purchases	204,500,000	\$3,947,000	221,500,000	\$4,335,000	244,600,000	\$5,108,000

**MONTANA-DAKOTA UTILITIES CO.
ADVOCACY STAFF – MARC, LLC
DATA REQUEST DATED AUGUST 26, 2010
CASE NO. PU-10-124**

NDPSC-DR-082

- a. What was the total (KW if included any) and Kwh, for Wind Power for 2009 and projected 2010 for MDU-North Dakota Electric? Please show schedule by month and by Plant.**
- b. What is the associated cost included in the MDU-North Dakota jurisdictional fuel cost? Please show schedule by month and by Plant.**
- c. Please provide a detailed Schedule of all Wind Power related Investments, Expenses, ADIT, Tax impact items, and any other Revenue Requirement components included in the current MDU-North Dakota Electric Operations' Rate Case Filings. (THIS WAS PREVIOUSLY REQUESTED ON JULY 15, DURING MARC STAFF'S ON-SITE VISIT AT MDU OFFICES.)**

Response:

- a. Please see Response No. NDPSC-DR-081.
- b. Please see Response No. NDPSC-DR-081.
- c. Please see Attachment A for the revenue requirement associated with wind installed in 2010.

**MONTANA-DAKOTA UTILITIES CO.
INCOME STATEMENT
ELECTRIC UTILITY - NORTH DAKOTA
TWELVE MONTHS ENDED DECEMBER 31, 2009
PROJECTED 2010**

	<u>New Wind</u>
Operating Revenues	
Sales	(\$1,567)
Sales for Resale	0
Other	0
Total Revenues	<u>(1,567)</u>
 Operating Expenses	
Operation and Maintenance	
Cost of Fuel & Purchase Power	(1,567)
Other O&M	473
Total O&M	<u>(1,094)</u>
Depreciation and Amortization	2,421
Taxes Other Than Income	79
Current Income Taxes	(3,035)
Deferred Income Taxes	0
Total Expenses	<u>(1,629)</u>
 Operating Income	<u><u>\$62</u></u>

**MONTANA-DAKOTA UTILITIES CO.
RATE BASE
ELECTRIC UTILITY - NORTH DAKOTA
PROJECTED 2010**

	<u>New Wind</u>
Electric Plant in Service	\$47,907
Accumulated Reserve for Depreciation	<u>2,471</u>
Net Electric Plant in Service	\$45,436
CWIP in Service Pending Reclassification	
Total Electric Plant in Service	<u>\$45,436</u>
Total Before Deductions	\$45,436
Deductions	
Accumulated Deferred Income Taxes	\$766
Accumulated Investment Tax Credits	
Customer Advances	
Total Deductions	<u>\$766</u>
Total Rate Base	<u><u>\$44,670</u></u>

1/ Includes CWIP in Service by function.

**MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - NORTH DAKOTA
CALCULATION INCOME TAXES
PROJECTED 2010**

	<u>New Wind</u>
Operating Revenues	
Sales Revenues	(\$1,567)
Sales for Resale	..
Other Revenues	..
Total Operating Revenues	<u>(1,567)</u>
Operating Expenses	
Operation and Maintenance	
Cost of Fuel & Purchased Power	(1,567)
Other O&M	473
Total O&M	<u>(1,094)</u>
Depreciation and Amortization Expense	2,421
Taxes other Than Income	79
Total Operating Expenses	<u>1,406</u>
Gross Adjustments to Operating Income	(2,973)
Deductions and Adjustments to Book Income:	
Interest 1/	1,327
Total Adjustments to Taxable Income	<u>1,327</u>
Taxable Income	(4,300)
Federal & State Income Taxes	(1,684)
Production Tax Credit 2/	(1,763)
Full Normalization	
Total Income Taxes	<u><u>(\$3,447)</u></u>

1/ Page 5.

2/ Page 6.

**MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY -NORTH DAKOTA
INTEREST EXPENSE
PROJECTED 2010**

	<u>Wind</u>
Rate Base 1/	\$44,670
Weighted Cost of Debt	2.970%
Interest Expense	<u><u>\$1,327</u></u>

1/ Page 2.

**MONTANA-DAKOTA UTILITIES CO.
PRODUCTION TAX CREDIT
ELECTRIC UTILITY - NORTH DAKOTA
PROJECTED 2010
(000s)**

	Projected 2010 1/
Cedar Hills MWh Production	<u>64,700,000</u>
Diamond Willow MWh production	<u>64,700,000</u>
Total	<u>129,400,000</u>
Less Production Tax Credit	(0.021)
Total Production Tax Credit	<u>(2,717,400)</u>
North Dakota	<u><u>(\$1,763,285)</u></u>

1/ Allocated on demand and energy factor.

**MONTANA-DAKOTA UTILITIES CO.
UTILITY CAPITAL STRUCTURE
TWELVE MONTHS ENDING DECEMBER 31, 2009
PROJECTED**

	<u>Balance</u>	<u>Ratio</u>	<u>Cost</u>	<u>Required Return</u>
<u>Per Books</u>				
Long Term Debt	\$280,502,591	45.662%	6.845%	3.126%
Short Term Debt 1/	1,880,548	0.306%	11.590%	0.035%
Preferred Stock	15,600,000	2.540%	4.594%	0.117%
Common Equity	316,314,714	51.492%	11.500%	5.922%
Total	<u>\$614,297,853</u>	<u>100.000%</u>		<u>9.200%</u>

<u>2010</u>				
Long Term Debt	\$280,502,591	42.232%	6.845%	2.891%
Short Term Debt 1/	20,829,409	3.136%	2.535%	0.079%
Preferred Stock	15,500,000	2.333%	4.590%	0.107%
Common Equity	347,368,141	52.299%	10.750%	5.622%
Total	<u>\$664,200,141</u>	<u>100.000%</u>		<u>8.699%</u>

1/ Reflects average monthly balance.

**MONTANA-DAKOTA UTILITIES CO.
ADVOCACY STAFF – MARC, LLC
DATA REQUEST DATED SEPTEMBER 28, 2010
CASE NO. PU-10-124**

NDPSC-DR-91

Please provide the actual **amount (dollars)** included as ND jurisdictional in the current rate case filing for

- (A) Advalorem Taxes paid for each of the wind projects, including Diamond Willow 19.5 MW plus 9.5 MW and Cedar Hills 19.5 MW.
- (B) Additionally, please provide the actual ND jurisdictional **amount** included in the current rate case filing for O&M expenses by each Wind Energy Projects, including Diamond Willow 19.5 MW plus 9.5 MW and Cedar Hills 19.5 MW. Please specify by **amount** if the total O&M includes any related Advalorem Taxes.

Response:

- A) Please see Attachment A for the ad valorem taxes included in the projected taxes other than income for wind generation. The ad valorem taxes for the Diamond Willow expansion and Cedar Hills are included in Statement M, page 39. The ad valorem taxes for all other plant, including the 19.5 MW of Diamond Willow, was calculated by applying the ratio of 2009 ad valorem taxes to 2009 year end plant by function to the projected plant. The overall rate of 0.3041 percent, a composite of all production plant, was applied to all production plant. Attachment A shows the Diamond Willow portion of the 2010 projection.
- B) The Diamond Willow expansion and Cedar Hills were completed and commenced commercial operation in June 2010 and there were no actual expenses in 2009. The projected expenses are shown in Statement M, page 13.

Montana-Dakota projected O&M expenses by resource, i.e. labor and benefits, and did not project the expenses for the 19.5 MW of Diamond Willow separately. For the purposes of providing this response, the Company performed a calculation based on O&M recorded in 2009 for the 19.5 MW Diamond Willow location. Please see Attachment B for the 2009 O&M for Diamond Willow, as allocated to North Dakota and projected for 2010. Ad valorem taxes are recorded in taxes other than income and are not recorded in O&M expense.

**MONTANA-DAKOTA UTILITIES CO.
AD VALOREM TAXES - WIND GENERATION
NORTH DAKOTA
PROJECTED 2010
(000s)**

19.5 MW Diamond Willow	\$52	1/
Diamond Willow Expansion	34	2/
Cedar Hills	48	2/

1/ Response No. 73, Attachment A, page 33, Fallon County production taxes of \$74,504 times the Integrated Peak Demand factor of 69.322544%. There were no projected changes to the investment in Diamond Willow in 2010 and no projected changes in the tax rate.

2/ Statement M, page 39, Statement M workpapers pages 138-140.

**MONTANA-DAKOTA UTILITIES CO.
19.5 MW DIAMOND WILLOW O&M EXPENSE
NORTH DAKOTA
2009 - PROJECTED 2010**

	2009		Projected 2010
	Total Company	North Dakota 1/	North Dakota (000s)
Labor	\$190,832	\$132,290	\$133 2/
Benefits			
Medical/Dental	20,643	14,310	14 3/
Pension	6,122	4,244	1 4/
Post Retirement	4,396	3,047	2 5/
401-K	5,381	3,730	7 6/
Workers Comp.	3,102	2,150	0 7/
Total Benefits	39,644	27,481	24
Subcontract Labor	47,558	32,968	33 8/
Materials	21,280	14,752	15 8/
Vehicles & Work Equipment	15,454	10,713	8 9/
Company Consumption			
Electric	213	148	0 10/
Gas	141	98	0 10/
Total Company consumption	354	246	0
Postage	126	87	0 11/
All Other	93,887	65,085	66 12/
	<u>\$409,135</u>	<u>\$283,622</u>	<u>\$279</u>

1/ Allocated on Integrated Peak demand #15. 69.322544%

2/ Increase of 0.32 percent from Statement M, page 11.

3/ Decrease of 1.05 percent from Statement M, page 12.

4/ Decrease of 71.65 percent from Statement M, page 12.

5/ Decrease of 41.33 percent from Statement M, page 12.

6/ Increase of 95.67 percent from Statement M, page 12.

7/ Based on ratio of workers compensation to projected labor of 0.3142 percent.

8/ Projected to remain flat.

9/ A 25.58 percent decrease based on production expense from Statement M, page 17.

10/ Electric is an increase of 2.81 percent and gas is a decrease of 0.58 percent from Statement M, page 18.

11/ Decrease of 0.97 percent from Statement M, page 19.

12/ Increase of 2.11 percent from Statement M, page 28.

**MONTANA-DAKOTA UTILITIES CO.
ADVOCACY STAFF – MARC, LLC
DATA REQUEST FROM ON-SITE CONFERENCE
SEPTEMBER 7, 2010
CASE NO. PU-10-124**

2. **RE: DR 54 – Wind generation savings**
Provide the excel spreadsheet supporting the savings calculation and explain the derivation of the 7.536 percent WACC.

Response:

Please see the enclosed disk for the Excel spreadsheet for Response No. 54, Attachment A. The 7.536 percent WACC represents the net cost of capital, adjusted to reflect that interest expense is tax deductible, as shown below.

**Montana-Dakota Utilities Co.
Calculation of Weighted Average Cost of Capital (WACC)**

Projected 2010	Balance	Ratio	Cost	Return	Net of Tax
Long Term Debt	\$280,502,591	42.232%	6.845%	2.891%	1.759%
Short Term Debt	\$20,829,409	3.136%	2.535%	0.079%	0.048%
Preferred Stock	\$15,500,000	2.334%	4.590%	0.107%	0.107%
Common Equity	\$347,368,141	52.299%	10.750%	5.622%	5.622%
Total	\$664,200,141	100.000%		8.699%	7.536%
Average Tax Rate =		39.16%	WACC* =	<u>7.536%</u>	

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SEPTEMBER 7, 2010
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3. Provide the total wind investment in Diamond Willow I (reference \$39 million in testimony).

The total investment in Diamond Willow I is:

<u>Function</u>	<u>Amount</u>
Transmission (Substation and Line)	\$2,579,793.09
Generation (Wind Turbines)	<u>36,700,959.42</u>
Total	<u>\$39,280,752.51</u>