

DEPARTMENT OF PUBLIC SERVICE REGULATION
BEFORE THE PUBLIC SERVICE COMMISSION
OF THE STATE OF MONTANA

IN THE MATTER OF the Application of) REGULATORY DIVISION
Montana-Dakota Utilities Co., a Division of)
MDU Resources Group, Inc., for Authority to) DOCKET NO. D2015.6.51
Establish Increased Rates for Electric Service in)
the State of Montana)
)

STIPULATION AND SETTLEMENT AGREEMENT

Montana-Dakota Utilities Co., a Division of MDU Resources Group, Inc. (“Montana-Dakota”), the Montana Consumer Counsel (“MCC”), and the Large Customer Group (“LCG”) (collectively the “Parties”) have agreed to enter into the following Stipulation and Settlement agreement (“Stipulation”) to resolve all of the issues raised by the Parties to Docket No. D2015.6.51.

BACKGROUND

1. On June 25, 2015, Montana-Dakota filed an application with the Montana Public Service Commission (“Commission”) seeking approval of increased electricity rates for service to its Montana customers. In its application Montana-Dakota sought a rate increase which, if granted in its entirety, would raise an additional \$11,755,752 in annual revenue. Due to adjustments occurring through the exchange of testimony and discovery process of this matter Montana-Dakota revised the revenue requirement. As a result of those adjustments, in the absence of settlement, at hearing Montana Dakota would have requested the Commission grant a rate increase of \$9,774,133 (*See* MDU Response to DR PSC-133). Montana-Dakota also sought additional affirmative relief, such as

the establishment of a demand charge for residential net metering customers, and Transmission and Environmental Cost Recovery Riders.

2. The MCC and the LCG intervened in the docket and opposed the magnitude of the rate increase requested by Montana-Dakota, the manner in which Montana-Dakota proposed to allocate its revenue deficiency between customer classes, the manner in which Montana-Dakota proposed to set rates, and the establishment of the Transmission and Environmental Cost Recovery Riders. The MCC and LCG also raised other issues regarding Montana-Dakota's application.

3. The Alliance for Solar Choice ("TASC") also intervened in the docket. However, pursuant to the November 18, 2015, Stipulation to Narrow Scope of Rate Filing to Withdraw Proposed Demand Charge for Residential Net Metering Customers, TASC agreed not to file testimony or object to any settlement, unless it includes a charge specific to customers with behind the meter generation.

4. The pre-filed testimony of the MCC expert witnesses was filed in this docket on November 20, 2015. In that testimony, the MCC recommends an authorized overall rate increase that does not exceed \$3,767,053. Due to adjustments occurring through the exchange of testimony and discovery process in this matter, MCC's witnesses recognized a revised revenue requirement of \$4,210,077. (*See* MCC Response to DR MDU-005). The MCC also proposed an alternative allocation of the revenue deficiency between customer classes and raised various other issues.

5. The pre-filed testimony of LCG expert witnesses was also filed in this docket on November 20, 2015. In that testimony, the LCG concedes that Montana-Dakota has a revenue deficiency in the rates it is currently authorized to charge its Montana Customers for electric service, but recommends an authorized overall rate increase of only \$2,437,539. The LCG also proposed an

alternative allocation of the revenue deficiency between customer classes and raised various other issues.

6. On January 11, 2016, the Commission issued Order 7433d denying Montana-Dakota's request for interim rates during the pendency of this proceeding.

7. The revenue requirement presented by Montana-Dakota in this case included an overall rate of return of 7.588%, using Montana-Dakota's actual capital structure and a cost of equity of 10%. The LCG recommended an overall rate of return of 7.053%, with a cost of equity of 9.35%. The revenue requirement presented by the MCC recommended an overall rate of return of 6.85%, with a cost of equity of 8.5%.

STIPULATION AND SETTLEMENT AGREEMENT

8. To establish just and reasonable rates for Montana-Dakota's customers and reach a fair and equitable resolution of the issues raised in this proceeding the Parties stipulate and agree as follows:

A. Montana-Dakota should be authorized, on a final basis, to an overall rate increase of \$7.4 million, for electric service in Montana, phased-in as follows:

i. For service rendered on or after April 1, 2016, an overall rate increase of \$3 million allocated among customer classes as set forth in Appendix 1, under the rate schedules set forth in Appendix 2.

ii. For service rendered on or after April 1, 2017, a further overall rate increase of \$4.4 million as adjusted pursuant to 8.B below, allocated among customer classes as set forth in Appendix 1, under the rate schedules to be filed by Montana-Dakota pursuant to 8.B.

B. The further \$4.4 million overall rate increase in 8.A.ii will be modified to reflect the difference between Montana-Dakota's actual 2015 net transmission service expense of \$1,268,269 and its actual 2016 net transmission service expense. The actual 2016 net transmission service expense shall be calculated under the same methodology as the 2015 expense as identified in Attachment A to MDU's response to LCG-098. The difference between the 2015 and 2016 net transmission service expense will be added to or subtracted from \$4.4 million to arrive at the adjusted increase for 8.A.ii, except that the maximum modification (positive or negative) under this paragraph shall be \$338,143. Montana-Dakota will file in this docket D2015.6.51, updated rate schedules reflecting the increased rates no later than February 15, 2017. The Parties agree that any adjustment to the \$4.4 million overall rate increase pursuant to this paragraph should be spread to Montana-Dakota's customer classes on a pro rata basis proportionate with the spread of the \$4.4 million overall rate increase set forth in Appendix 1.

C. The cost of all of the proposed plant additions are included in these rates, but the Parties have not agreed to the specific level of costs included or the appropriate methodology for calculating level of costs—*i.e.*, average vs. year-end or post-test year basis.

D. Montana-Dakota should be authorized to discontinue the collection of decommissioning costs for its existing power production facilities and amortize the over-recovered balance of \$6,712,194 over 5 years.

E. Montana-Dakota should be authorized to recover \$399,742 in deferred Commission and MCC taxes for October 2010 through March 2015 over 3 years (from April 1, 2016, through March 31, 2019) through a percentage fee on gross operating revenues.

F. For purposes of settlement, Montana-Dakota withdraws its Environmental and Transmission Cost Recovery Riders and associated proposals.

G. The Base Fuel rate for Montana-Dakota's Fuel and Purchased Power Cost Tracking Adjustment of Rate 35 and Rate 58 (the "F&PP Tracker") shall be set to the following:

Primary (Rate 58) \$0.02453

Secondary (Rate 58) \$0.02516

Rate 35 \$0.02347

The off-system sales margins will be set to zero effective April 1, 2016. The Base Fuel costs above include reagent costs and, effective April 1, 2016, Montana-Dakota may track and recover through its F&PP Tracker variations between actual costs for reagents recorded in Account No. 502 and the level of reagent costs included in Base Fuel costs. The forward or projected component of the F&PP Tracking Adjustment for Schedule 35 shall be set at \$0.0 on April 1, 2016, while retaining the Unreflected Adjustment of (\$0.00384) and shall be adjusted accordingly.

H. Montana-Dakota proposed certain changes to its depreciation rates. MCC expert witness Jacob Pous also proposed certain changes to Montana-Dakota's depreciation rates. To the extent Mr. Pous did not specifically challenge a depreciation rate proposed by Montana-Dakota the Parties agree the proposed rate should be adopted. To the extent Mr. Pous recommended a different depreciation rate than was proposed by Montana-Dakota, the Parties agree the depreciation rates recommended by MCC expert witness Jacob Pous should be adopted.

I. Montana-Dakota will not file for another base rate increase before April 1, 2017.

J. The allocation of rate increases for each class is set forth in Appendix 1. For the Residential and Small Commercial classes there should be no increase to customer charges. Otherwise, increases shall be applied to existing rate elements pro rata. For all other rate classes, increases shall be applied to existing rate elements pro rata.

9. Montana-Dakota filed Applications for authority to implement a fuel and purchased power cost tracking adjustments under Rate 58 in Docket Nos. D2012.6.69, D2013.6.49, D2014.6.54, and D2015.6.49. The Commission has issued Interim Rate Orders 7220, 7284, 7352, and 7419, respectively in these dockets to implement the rate changes for the scheduled adjustment periods. However, the Commission has not issued final orders. The parties agree that the Commission should issue final rate orders for these pending fuel and purchased power cost tracking adjustments under Rate 58.

10. The Commission, following hearing, should issue a final order finding that the Stipulation is in the public interest, and approving, adopting, and implementing the terms of this Stipulation, authorizing as final rates effective for service rendered on and after April 1, 2016, the tariffs set forth in Appendix 2 (which are submitted here as illustrative and subject to verification by the Commission); and authorizing implementation of final rates effective for service on and after April 1, 2017, consistent with section 8.A.ii of this Stipulation, and ordering tariffs consistent with those approved rates be filed no later than February 15, 2017, and finalizing the interim fuel and purchased power cost tracking adjustments pending in Docket Nos. D2012.6.69, D2013.6.49, D2014.6.54, and D2015.6.49.

11. The Parties present this Stipulation to the Commission as a reasonable settlement of the issues raised in this docket. No party's position in this docket is accepted by the Parties by virtue of their entry into this Stipulation, nor does it indicate their acceptance, agreement, or concession to any rate making principle, cost of service determination, or legal principle embodied or arguably embodied, in this Stipulation.

12. The Parties stipulate to the admission into the evidentiary record all of the pre-filed testimony and exhibits of the witnesses for the Parties to support the reasonableness of the Stipulation and will refrain from cross-examining the witnesses of the other Parties. The Parties agree to each call one or more witnesses at hearing to support this Stipulation.

13. The various provisions of this Stipulation are inseparable from the whole of the agreement between the Parties. The reasonableness of the proposed settlement set forth in this Stipulation is dependent upon its adoption, in its entirety, by the Commission. If the Commission decides not to adopt the proposed settlement set forth in this Stipulation in its entirety, then the entire Stipulation is null and void, no party to the Stipulation is bound by any provision of it, and it shall have no force or effect whatsoever.

February 8th, 2016.

CROWLEY FLECK PLLP

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Attorneys for Montana-Dakota Utilities Co.

February 8th, 2016.

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February 8th, 2016.

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Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of Montana Electric Rate Schedule

Volume No. 4
5th Revised Sheet No. 3
Canceling 4th Revised Sheet No. 3

RESIDENTIAL ELECTRIC SERVICE Rate 10

Page 1 of 2

AVAILABILITY:

In all communities served for single-phase residential electric service for domestic purposes only.

RATE:

Basic Service Charge:	\$0.18 per day
Energy Charge:	
October – May	4.816 <u>7.167</u> ¢ per Kwh
June – September	6.813 <u>5.067</u> ¢ per Kwh
Base Fuel and Purchased Power:	2.084 <u>2.516</u> ¢ per Kwh

MINIMUM BILL:

Basic Service Charge.

PAYMENT:

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

ADJUSTMENT CLAUSES:

Bills are subject to the following adjustments as provided in the referenced rates, or any amendments or alterations thereto:

- Electric Universal System Benefits Charge Rate 55
- Fuel and Purchased Power Cost Tracking Adjustment Rate 58

GENERAL TERMS AND CONDITIONS:

1. Low-Income Discount: Customers qualifying for and receiving energy assistance through the Low Income Energy Assistance Program (LIEAP) administered by the State of Montana Department of Public Health and Human Services (DPHHS) shall obtain a discount from the amount billed under this rate schedule. The applicable discount, as set forth below, will be administered

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Regulatory Affairs Manager

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Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of Montana Electric Rate Schedule

Volume No. 4
3rd Revised Sheet No. 3.1
Canceling 2nd Revised Sheet No. 3.1

RESIDENTIAL ELECTRIC SERVICE Rate 10

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based upon the percentage of poverty guidelines established by DPHHS and information supplied to the Company by DPHHS at the time the customer qualifies for LIEAP.

<u>% Of Federal Poverty</u>	<u>Discount Rate</u>
0-60%	30%
61%-90%	25%
91%-maximum allowed	20%

- The foregoing schedule is subject to Rates 100-131 and any amendments or alterations thereto or additional rules and regulations promulgated by the Company under the laws of the state.

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Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.
400 N 4th Street
Bismarck, ND 58501

State of Montana Electric Rate Schedule

Volume No. 4
1st Revised Sheet No. 4
Canceling Original Sheet No. 4

OPTIONAL RESIDENTIAL ELECTRIC THERMAL ENERGY STORAGE SERVICE Rate 13

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AVAILABILITY:

In all communities served for single-phase residential electric for customers operating Company approved thermal energy storage facilities for the purpose of utilizing off-peak electric energy for space conditioning purposes where electric space heating is the primary heating source. Service under this rate is not available when another energy source provided by the Company is utilized as a back-up heating source.

RATE:

Basic Service Charge: \$0.28 per day

Off-Peak Energy Charge:

For all energy used during the designated hours of 10:00 p.m. to 8:00 a.m. local time.

October – May ~~2.316~~ 2.567¢ per Kwh

On-Peak Energy Charge:

For all energy not covered by the Off-Peak rating period:

October – May ~~4.816~~ 5.067¢ per Kwh

June – September ~~6.813~~ 7.167¢ per Kwh

Base Fuel and Purchased Power: ~~2.084~~ 5.16¢ per Kwh

MINIMUM BILL:

Basic Service Charge.

PAYMENT:

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

ADJUSTMENT CLAUSES:

Bills are subject to the following adjustments as provided in the referenced rates, or any amendments or alterations thereto:

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State of Montana Electric Rate Schedule

Volume No. 4
Original Sheet No. 4.1

OPTIONAL RESIDENTIAL ELECTRIC THERMAL ENERGY STORAGE SERVICE Rate 13

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- Electric Universal System Benefits Charge Rate 55
- Fuel and Purchased Power Cost Tracking Adjustment Rate 58

General Terms and Conditions:

1. Low-Income Discount: Customers qualifying for and receiving energy assistance through the Low Income Energy Assistance Program (LIEAP) administered by the State of Montana Department of Public Health and Human Services (DPHHS) shall obtain a discount from the amount billed under this rate schedule. The applicable discount, as set forth below, will be administered based upon the percentage of poverty guidelines established by DPHHS and information supplied to the Company by DPHHS at the time the customer qualifies for LIEAP.

<u>% Of Federal Poverty</u>	<u>Discount Rate</u>
0-60%	30%
61%-90%	25%
91%-maximum allowed	20%

2. Thermal storage space heating facilities can include the thermal storage device(s), air-source heat pumps, and associated air handling units.
3. Unless approved by the Company the maximum thermal storage facilities that may be connected under this rate schedule is 50 Kw.
4. The foregoing schedule is subject to Rates 100-131 and any amendments or alterations thereto or additional rules and regulations promulgated by the Company under the laws of the state.

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Montana-Dakota Utilities Co.

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400 N 4th Street
Bismarck, ND 58501

State of Montana Electric Rate Schedule

Volume No. 4
5th Revised Sheet No. 7
Canceling 4th Revised Sheet No. 7

OPTIONAL TIME-OF-DAY RESIDENTIAL ELECTRIC SERVICE Rate 16

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AVAILABILITY:

In all communities served for single-phase residential electric service. The customer's wiring must be arranged so that all service can be measured through one meter.

RATE:

Basic Service Charge:	\$0.35 per day
On-Peak Energy:	For all Kwh's used during peak hours designated as 12 p.m. to 8 p.m. local time, Monday through Friday.
	October – May 4.715 <u>4.960</u> ¢ per Kwh
	June – September 7.715 <u>8.116</u> ¢ per Kwh
Off-Peak Energy:	4.500 <u>4.734</u> ¢ per Kwh for all energy not covered by the On-Peak rating period.
Base Fuel and Purchased Power:	2.084 <u>2.516</u> ¢ per Kwh

MINIMUM BILL:

Basic Service Charge.

PAYMENT:

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

ADJUSTMENT CLAUSES:

Bills are subject to the following adjustments as provided in the referenced rates, or any amendments or alterations thereto:

- Electric Universal System Benefits Charge Rate 55
- Fuel and Purchased Power Cost Tracking Adjustment Rate 58

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Montana-Dakota Utilities Co.

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400 N 4th Street
Bismarck, ND 58501

State of Montana Electric Rate Schedule

Volume No. 4
3rd Revised Sheet No. 7.1
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OPTIONAL TIME-OF-DAY RESIDENTIAL ELECTRIC SERVICE Rate 16

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GENERAL TERMS AND CONDITIONS:

- Customer agrees to contract for service under the Optional Time-of-Day Residential Electric Service rate for a minimum period of one year. At the end of a one-year period, customer shall have the option of remaining under the Optional Time-of-Day Residential Electric Service rate or of returning to the regular Residential Electric Service rate.
- Low-Income Discount: Customers qualifying for and receiving energy assistance through the Low Income Energy Assistance Program (LIEAP) administered by the State of Montana Department of Public Health and Human Services (DPHHS) shall obtain a discount from the amount billed under this rate schedule. The applicable discount, as set forth below, will be administered based upon information supplied to the Company by DPHHS at the time the customer qualifies for LIEAP.

<u>% Of Federal Poverty</u>	<u>Discount Rate</u>
0-60%	30%
61%-90%	25%
91%-maximum allowed	20%

- The foregoing schedule is subject to Rates 100-131 and any amendments or alterations thereto or additional rules and regulations promulgated by the Company under the laws of the state.

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Montana-Dakota Utilities Co.

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400 N 4th Street
Bismarck, ND 58501

State of Montana Electric Rate Schedule

Volume No. 4
5th Revised Sheet No. 10
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SMALL GENERAL ELECTRIC SERVICE Rate 20

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AVAILABILITY:

In all communities served for all types of general electric service with billing demands of 50 Kilowatts or less except outside lighting, standby, resale or other customers covered by special contracts or rate schedules applicable to specific services. The customer's wiring must be arranged so that all service can be measured through one meter. If the customer does not connect his wiring into a single system, each meter shall constitute a separate billing unit.

RATE:

Basic Service Charge:	\$0.54 per day
Primary Service:	
Demand Charge October – May:	
First 10 Kw or less of billing demand	No Charge
Over 10 Kw per month of billing demand	\$8.00 <u>8.81</u> per Kw
Demand Charge June – September:	
First 10 Kw or less of billing demand	No Charge
Over 10 Kw per month of billing demand	\$8.75 <u>9.63</u> per Kw
Energy Charge:	
October – May	2.477 <u>2.727</u> ¢ per Kwh
June – September	4.357 <u>4.797</u> ¢ per Kwh
Base Fuel and Purchased Power:	2.057 <u>2.453</u> ¢ per Kwh
Secondary Service:	
Demand Charge October – May:	
First 10 Kw or less of billing demand	No Charge
Over 10 Kw per month of billing demand	\$8.55 <u>9.41</u> per Kw
Demand Charge June – September:	
First 10 Kw or less of billing demand	No Charge
Over 10 Kw per month of billing demand	\$9.35 <u>10.29</u> per Kw

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Montana-Dakota Utilities Co.

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State of Montana Electric Rate Schedule

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SMALL GENERAL ELECTRIC SERVICE Rate 20

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Energy Charge:

October – May ~~2.577~~2.837¢ per Kwh
June – September ~~4.457~~4.907¢ per Kwh

Base Fuel and Purchased Power: ~~2.084~~2.516¢ per Kwh

MINIMUM BILL:

Basic Service Charge.

PAYMENT:

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

ADJUSTMENT CLAUSES:

Bills are subject to the following adjustments as provided in the referenced rates, or any amendments or alterations thereto:

- Electric Universal System Benefits Charge Rate 55
- Fuel and Purchased Power Cost Tracking Adjustment Rate 58

DETERMINATION OF BILLING DEMAND:

The demand in kilowatts for billing purposes shall be the maximum 15 minute measured demand in the current month. Demands will be determined to the nearest one-tenth kilowatt.

POWER FACTOR CLAUSE:

The Company reserves the right to require the customer to install adequate equipment so that at all times it can operate its facilities to maintain a power factor between 90% lagging and 90% leading. If the customer operates outside this range, the maximum 15 minute integrated reactive kilovolt amperes in excess of 50% of the maximum 15 minute integrated kilowatt demand for the same month will be billed at \$3.35 per Kvar of such excess demand.

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Montana-Dakota Utilities Co.

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Bismarck, ND 58501

State of Montana Electric Rate Schedule

Volume No. 4
2nd Revised Sheet No. 10.2
Canceling 1st Revised Sheet No. 10.2

SMALL GENERAL ELECTRIC SERVICE Rate 20

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GENERAL TERMS AND CONDITIONS:

1. Customer or their architects, contractors and electricians should consult with the Company before proceeding to design or erect installations in which there will be a substantial electric load, to make sure their equipment will meet requirements and receive adequate service.
2. The primary service rate is applicable to customers that own their own transformers, related equipment, and distribution facilities downstream of the meter, satisfactory to the Company so customer can receive service and be metered at primary voltages of 2,400 volts or greater.
3. The foregoing schedule is subject to Rates 100-131 and any amendments or alterations thereto or additional rules and regulations promulgated by the Company under the laws of the state.

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State of Montana Electric Rate Schedule

Volume No. 4
5th Revised Sheet No. 15
Canceling 4th Revised Sheet No. 15

IRRIGATION POWER SERVICE Rate 25

Page 1 of 2

AVAILABILITY:

For irrigation power service.

RATE:

Basic Service Charge:	\$0. 53 <u>58</u> per day
Demand Charge:	
October – May	\$ 12.50 <u>1.64</u> per Kw
June – September	\$ 3.20 <u>3.49</u> per Kw
Energy Charge:	1.93 <u>2.113</u> ¢ per Kwh
Base Fuel and Purchased Power:	2.08 <u>2.516</u> ¢ per Kwh

MINIMUM BILL:

Basic Service Charge.

PAYMENT:

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

ADJUSTMENT CLAUSES:

Bills are subject to the following adjustments as provided in the referenced rates, or any amendments or alterations thereto:

- Electric Universal System Benefits Charge Rate 55
- Fuel and Purchased Power Cost Tracking Adjustment Rate 58

DETERMINATION OF BILLING DEMAND:

The demand in kilowatts for billing purposes shall be the maximum 15 minute measured demand in the current month. Demands will be determined to the nearest one-tenth kilowatt. Customers whose loads have rapidly fluctuating and/or intermittent demand characteristics shall be subject to special rules and regulations.

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Regulatory Affairs Manager

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Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of Montana Electric Rate Schedule

Volume No. 4
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IRRIGATION POWER SERVICE Rate 25

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POWER FACTOR CLAUSE:

The Company reserves the right to require the customer to install adequate equipment so that at all times it can operate its facilities to maintain a power factor between 90% lagging and 90% leading. If the customer operates outside this range, the maximum 15 minute integrated reactive kilovolt amperes in excess of 50% of the maximum 15 minute integrated kilowatt demand for the same month will be billed at \$3.35 per Kvar of such excess demand.

GENERAL TERMS AND CONDITIONS:

The foregoing schedule is subject to Rates 100-131 and any amendments or alterations thereto or additional rules and regulations promulgated by the Company under the laws of the state.

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Regulatory Affairs Manager

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State of Montana Electric Rate Schedule

Volume No. 4
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OPTIONAL TIME-OF-DAY SMALL GENERAL ELECTRIC SERVICE RATE 26

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AVAILABILITY:

In all communities served for all types of general electric service with billing demands of 50 Kilowatts or less except outside lighting, standby, resale, or other customers covered by special contracts or rate schedules applicable to specific services. The customer's wiring must be arranged so that all service can be measured through one meter.

RATE:

Basic Service Charge:	\$26.50 per month
Primary Service:	
On-Peak Demand Charge:	
First 10 Kw or less of billing demand:	No Charge
Over 10 Kw per month of billing demand:	
October – May	\$ 8.50 <u>9.36</u> per Kw
June – September	\$ 10.60 <u>11.67</u> per Kw
Energy Charge October – May:	
On-Peak	4.39 <u>4.834</u> ¢ per Kwh
Off-Peak	2.39 <u>2.632</u> ¢ per Kwh
Energy Charge June – September:	
On-Peak	5.39 <u>5.935</u> ¢ per Kwh
Off-Peak	2.39 <u>2.632</u> ¢ per Kwh
Base Fuel and Purchased Power:	2.05 <u>2.453</u> ¢ per Kwh
Secondary Service:	
On-Peak Demand Charge:	
First 10 Kw or less of billing demand:	No Charge
Over 10 Kw per month of billing demand:	
October – May	\$ 8.75 <u>9.63</u> per Kw
June – September	\$ 10.85 <u>11.94</u> per Kw

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By: Tamie A. Aberle
Regulatory Affairs Manager

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Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of Montana Electric Rate Schedule

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OPTIONAL TIME-OF-DAY SMALL GENERAL ELECTRIC SERVICE RATE 26

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Energy Charge October – May:

On-Peak ~~4.49~~4.944¢ per Kwh

Off-Peak ~~2.49~~2.742¢ per Kwh

Energy Charge June – September:

On-Peak ~~5.49~~6.045¢ per Kwh

Off-Peak ~~2.49~~2.742¢ per Kwh

Base Fuel and Purchased Power: ~~2.08~~482.516¢ per Kwh

On-Peak is defined as 12 p.m. to 8 p.m. local time, Monday through Friday.

Off-Peak is defined as all hours not covered by the on-peak period.

MINIMUM BILL:

Basic Service Charge.

PAYMENT:

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

ADJUSTMENT CLAUSES:

Bills are subject to the following adjustments as provided in the referenced rates, or any amendments or alterations thereto:

- Electric Universal System Benefits Charge Rate 55
- Fuel and Purchased Power Cost Tracking Adjustment Rate 58

DETERMINATION OF ON-PEAK BILLING DEMAND:

The demand in kilowatts for billing purposes shall be the maximum 15 minute measured demand for the on-peak period in the current month. Demands will be determined to the nearest one-tenth kilowatt.

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POWER FACTOR CLAUSE:

The Company reserves the right to require the customer to install adequate equipment so that at all times it can operate its facilities to maintain a power factor between 90% lagging and 90% leading. If the customer operates outside this range, the maximum 15 minute integrated reactive kilovolt amperes in excess of 50% of the maximum 15 minute integrated kilowatt demand for the same month will be billed at \$3.35 per Kvar of such excess demand.

GENERAL TERMS AND CONDITIONS:

1. Customers or their architects, contractors and electricians should consult with the Company before proceeding to design or erect installations in which there will be a substantial electric load, to make sure their equipment will meet requirements and receive adequate service.
2. The primary service rate is applicable to customers that own their own transformers, related equipment, and distribution facilities downstream of the meter, satisfactory to the Company so customer can receive service and be metered at primary voltages of 2,400 volts or greater.
3. Customer agrees to contract for service under the Optional Time-of-Day Small General Electric Service rate for a minimum period of one year. At the end of a one-year period, customer shall have the option of remaining under the Optional Time-of-Day Small General Electric Service rate or of returning to the regular Small General Electric Service rate.
4. The foregoing schedule is subject to Rates 100-131 and any amendments or alterations thereto or additional rules and regulations promulgated by the Company under the laws of the state.

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LARGE GENERAL ELECTRIC SERVICE Rate 30

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AVAILABILITY:

In all communities served for all types of general electric service exceeding 50 Kilowatts of billing demand except outside lighting, standby, resale or other customers covered by special contracts or rate schedules applicable to specific services. The customer's wiring must be arranged so that all service can be measured through one meter. If the customer does not connect his wiring into a single system, each meter shall constitute a separate billing unit.

RATE:

Primary Service:

Basic Service Charge: ~~\$185.00~~213.51 per month

Demand Charge:

October – May ~~\$8.33~~9.61 per Kw

June – September ~~\$9.33~~10.77 per Kw

Energy Charge:

~~4.633~~1.885¢ per Kwh

Base Fuel and Purchased Power: ~~2.057~~2.453¢ per Kwh

Secondary Service:

Basic Service Charge: ~~\$70.00~~80.36 per month

Demand Charge:

October – May ~~\$8.56~~9.83 per Kw

June – September ~~\$9.59~~11.01 per Kw

Energy Charge:

~~4.650~~1.894¢ per Kwh

Base Fuel and Purchased Power: ~~2.084~~2.516¢ per Kwh

MINIMUM BILL:

Basic Service Charge plus Demand Charge.

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PAYMENT:

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

ADJUSTMENT CLAUSES:

Bills are subject to the following adjustments as provided in the referenced rates, or any amendments or alterations thereto:

- Electric Universal System Benefits Charge Rate 55
- Fuel and Purchased Power Cost Tracking Adjustment Rate 58

DETERMINATION OF BILLING DEMAND:

The demand in kilowatts for billing purposes shall be the greater of the maximum 15 minute measured demand in the current month or 50 Kw. Demands will be determined to the nearest one-tenth kilowatt. Customers whose loads have rapidly fluctuating and/or intermittent demand characteristics shall be subject to special rules and regulations.

POWER FACTOR CLAUSE:

The Company reserves the right to require the customer to install adequate equipment so that at all times it can operate its facilities to maintain a power factor between 90% lagging and 90% leading. If the customer operates outside this range, the maximum 15 minute integrated reactive kilovolt amperes in excess of 50% of the maximum 15 minute integrated kilowatt demand for the same month will be billed at \$3.35 per Kvar of such excess demand.

GENERAL TERMS AND CONDITIONS:

1. Customers or their architects, contractors and electricians should consult with the Company before proceeding to design or erect installations in which there will be a substantial electric load, to make sure their equipment will meet requirements and receive adequate service.
2. The primary service rate is applicable to customers that own their own transformers, related equipment, and distribution facilities downstream of the

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meter, satisfactory to the Company so customer can receive service and be metered at primary voltages of 2,400 volts or greater.

3. The foregoing schedule is subject to Rates 100-131 and any amendments or alterations thereto or additional rules and regulations promulgated by the Company under the laws of the state.

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OPTIONAL TIME-OF-DAY LARGE GENERAL ELECTRIC SERVICE Rate 31

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AVAILABILITY:

In all communities served for all types of demand metered general electric service exceeding 50 Kilowatts of billing demand except outside lighting, standby, resale, or other customers covered by special contracts or rate schedules applicable to specific services. The customer's wiring must be arranged so that all service can be measured through one meter.

RATE:

Basic Service Charge: ~~\$82.00~~93.56 per month

Primary Service:

On-Peak Demand Charge:

October – May \$ ~~5.45~~6.22 per Kw

June – September ~~\$13.00~~14.83 per Kw

Energy Charge October – May:

On-Peak ~~3.54~~24.041¢ per Kwh

Off-Peak ~~1.54~~21.759¢ per Kwh

Energy Charge June – September:

On-Peak ~~4.54~~25.182¢ per Kwh

Off-Peak ~~1.54~~21.759¢ per Kwh

Base Fuel and Purchased Power:

~~2.05~~72.453¢ per Kwh

Secondary Service:

On-Peak Demand Charge:

October – May \$ ~~6.05~~96.85 per Kw

June – September ~~\$13.50~~15.40 per Kw

Energy Charge October – May:

On-Peak ~~3.55~~94.061¢ per Kwh

Off-Peak ~~1.55~~91.779¢ per Kwh

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Energy Charge June – September:

On-Peak ~~4.559~~5.202¢ per Kwh

Off-Peak ~~1.559~~1.779¢ per Kwh

Base Fuel and Purchased Power: ~~2.084~~2.516¢ per Kwh

On-Peak is defined as 12 p.m. to 8 p.m. local time, Monday through Friday.

Off-Peak is defined as all hours not covered by the on-peak period.

MINIMUM BILL:

Basic Service Charge.

PAYMENT:

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

ADJUSTMENT CLAUSES:

Bills are subject to the following adjustments as provided in the referenced rates, or any amendments or alterations thereto:

- Electric Universal System Benefits Charge Rate 55
- Fuel and Purchased Power Cost Tracking Adjustment Rate 58

DETERMINATION OF ON-PEAK BILLING DEMAND:

The demand in kilowatts for billing purposes shall be the maximum 15 minute measured demand for the on-peak period in the current month. Demands will be determined to the nearest one-tenth kilowatt. Customers whose loads have rapidly fluctuating and/or intermittent demand characteristics shall be subject to special rules and regulations.

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POWER FACTOR CLAUSE:

The Company reserves the right to require the customer to install adequate equipment so that at all times it can operate its facilities to maintain a power factor between 90% lagging and 90% leading. If the customer operates outside this range, the maximum 15 minute integrated reactive kilovolt amperes in excess of 50% of the maximum 15 minute integrated kilowatt demand for the same month will be billed at \$3.35 per Kvar of such excess demand.

GENERAL TERMS AND CONDITIONS:

1. Customers or their architects, contractors and electricians should consult with the Company before proceeding to design or erect installations in which there will be a substantial electric load, to make sure their equipment will meet requirements and receive adequate service.
2. Customer agrees to contract for service under the Optional Time-of-Day Large General Electric Service rate for a minimum period of one year. At the end of a one-year period, customer shall have the option of remaining under the Optional Time-of-Day Large General Electric Service rate or of returning to the regular Large General Electric Service rate.
3. The primary service rate is applicable to customers that own their own transformers, related equipment, and distribution facilities downstream of the meter, satisfactory to the Company so customer can receive service and be metered at primary voltages of 2,400 volts or greater.
4. The foregoing schedule is subject to Rates 100-131 and any amendments or alterations thereto or additional rules and regulations promulgated by the Company under the laws of the state.

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GENERAL ELECTRIC SPACE HEATING SERVICE Rate 32

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AVAILABILITY:

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

RATE:

Basic Service Charge: ~~\$15.00~~17.36 per month

Primary Service:

Demand Charge:

October – May ~~\$1.50~~1.74 per Kw

June – September ~~\$9.33~~10.80 per Kw

Energy Charge: ~~1.633~~1.890¢ per Kwh

Base Fuel and Purchased Power: ~~2.057~~2.453¢ per Kwh

Secondary Service:

Demand Charge:

October – May ~~\$1.75~~2.03 per Kw

June – September ~~\$9.59~~11.10 per Kw

Energy Charge: ~~1.650~~1.910¢ per Kwh

Base Fuel and Purchased Power: ~~2.084~~2.516¢ per Kwh

MINIMUM BILL:

Basic Service Charge.

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PAYMENT:

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

ADJUSTMENT CLAUSES:

Bills are subject to the following adjustments as provided in the referenced rates, or any amendments or alterations thereto:

- Electric Universal System Benefits Charge Rate 55
- Fuel and Purchased Power Cost Tracking Adjustment Rate 58

DETERMINATION OF BILLING DEMAND:

The demand in kilowatts for billing purposes shall be the maximum 15 minute measured demand in the current month. Demands will be determined to the nearest one-tenth kilowatt. Customers whose loads have rapidly fluctuating and/or intermittent demand characteristics shall be subject to special rules and regulations.

POWER FACTOR CLAUSE:

The Company reserves the right to require the customer to install adequate equipment so that at all times it can operate its facilities to maintain a power factor between 90% lagging and 90% leading. If the customer operates outside this range, the maximum 15 minute integrated reactive kilovolt amperes in excess of 50% of the maximum 15 minute integrated kilowatt demand for the same month will be billed at \$3.35 per Kvar of such excess demand.

GENERAL TERMS AND CONDITIONS:

1. Customers or their architects, contractors and electricians should consult with the Company before proceeding to design or erect installations in which there will be a substantial electric load, to make sure their equipment will meet requirements and receive adequate service.

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2. Primary service rate is applicable to customers that own their own transformers, related equipment and distribution facilities downstream of the meter, satisfactory to the Company so customer can receive service and be metered at primary voltages of 2,400 volts or greater.
3. The foregoing schedule is subject to Rates 100-131 and any amendments or alterations thereto or additional rules and regulations promulgated by the Company under the laws of the state.

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Canceling 4th Revised Sheet No. 23

CONTRACT SERVICE Rate 35

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AVAILABILITY:

For the Denbury Onshore LLC accounts designated in the Electric Service Agreement dated January 22, 1998, and October 28, 1998.

RATE:

Basic Service Charge: ~~\$80.00~~\$84.94 per month

Demand Charge:

October – May ~~\$5.30~~\$5.63 per Kw

June – September ~~\$6.30~~\$6.69 per Kw

Energy Charge: ~~1.80~~1.915¢ per Kwh

Base Fuel and Purchased Power: ~~2.03~~2.347¢ per Kwh

MINIMUM BILL:

Basic Service Charge plus Demand Charge.

PAYMENT:

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

ADJUSTMENT CLAUSES:

Bills are subject to the following adjustments as provided in the referenced rates, or any amendments or alterations thereto:

- Electric Universal System Benefits Charge Rate 55

DETERMINATION OF BILLING DEMAND:

The demand in kilowatts for billing purposes shall be the greater of the maximum 15 minute measured demand in the current month or 50 Kw. Demands will be determined to the nearest one-tenth kilowatt.

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POWER FACTOR CLAUSE:

Montana-Dakota reserves the right to require Denbury Onshore LLC to install adequate equipment so that at all times it can operate its facilities to maintain a power factor between 90% lagging and 90% leading. If Denbury Onshore LLC operates outside this range, the maximum 15 minute integrated reactive kilovolt amperes in excess of 50% of the maximum 15 minute integrated kilowatt demand for the same month will be billed at \$3.35 per Kvar of such excess demand.

GENERAL TERMS AND CONDITIONS:

The foregoing schedule is subject to Rates 100-131 and any amendments or alterations thereto or additional rules and regulations promulgated by Montana-Dakota under the laws of the state.

FUEL AND PURCHASED POWER COST TRACKING ADJUSTMENT:

The following sets forth the procedure to be used in calculating the Electric Fuel and Purchased Power Cost (Fuel and Power Cost) Tracking Adjustment for Contact Service Rate 35. It specifies the procedure to be utilized to adjust the rates for electricity sold in order to reflect: (a) changes in Montana-Dakota's average cost of fuel and purchased power (b) amortization of the Unreflected Fuel Cost Account and (c) changes in Montana-Dakota's electric wholesale sales margins as allocated to Contract Service Rate 35.

1. EFFECTIVE DATE AND LIMITATION ON ADJUSTMENTS:

Unless otherwise ordered by the Commission, the effective date of the Fuel and Power Cost Tracking Adjustment and amortization of the Unreflected Fuel Cost Account shall be service rendered on and after January 1 each year.

2. FUEL AND POWER COST TRACKING ADJUSTMENT:

- a. The Fuel and Power Cost Tracking Adjustment shall reflect ninety (90) percent of the changes in Montana-Dakota's cost of fuel and purchased power as compared to the cost of fuel and purchased power approved in its base rates plus the annual Unreflected Fuel Cost Adjustment. The base

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CONTRACT SERVICE Rate 35

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fuel cost shall be ~~2.0322~~2.347¢ per Kwh as established in the most recent general rate case.

- b. The cost of fuel and purchased power shall be calculated separately for Rate 35, and shall be the sum of the following estimated costs for the annual period the adjustment shall be in effect, as allocated to Montana and to Contract Service Rate 35, taking into account applicable line losses:
 1. The cost of fossil and other fuels and reagents as recorded in Account Nos. 501, 502 and 547.
 2. The net cost of purchases and costs linked to the utility's load serving obligation associated with participation in wholesale electric energy and capacity markets as recorded in Account 555, less;
 3. The cost of fuel and purchased power recovered from electric wholesale sales.
- c. The cost per Kwh for the year is the sum of 2(b) above divided by projected Contract Service Rate 35 sales volumes for the period the adjustment will be in effect.
- d. The difference between the base cost of fuel and purchased power and the calculated cost in 2(b) multiplied by ninety (90) percent.
- e. Ninety (90) percent of wholesale sales margin shall be divided by the projected Contract Service Rate 35 for the period the adjustment will in effect.
- d.f. The Annual Fuel and Power Cost Tracking Adjustment shall be the sum of 2(d) and 2(e).

3. UNREFLECTED FUEL COST ADJUSTMENT:

Contract Service Rate 35 shall be subject to an Unreflected Fuel Cost Adjustment to be effective on January of each year. The Unreflected Fuel Cost Adjustment per Kwh shall reflect amortization of the applicable balance in the Unreflected Fuel

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Cost Account calculated by dividing the applicable balance by the estimated Kwh sales for the twelve months following the effective date of the adjustment.

4. UNREFLECTED FUEL COST ACCOUNT:
 - a. Items to be included in the Unreflected Fuel Cost Account are:

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1. Amounts under recovered or over recovered for fuel and purchased power each month as calculated in accordance with Subsection 4(b).
 2. Refunds received with respect to fuel and purchased power. Such refunds received shall be credited to the Unreflected Fuel Cost Account.
 3. 90 percent of the off-system sales margin amounts (over) or under the base amount established in the most recent rate case.
- b. The amount to be included in the Unreflected Fuel Cost Account in order to reflect the items specified in Subsection 4(a)(1) and (2) shall be calculated as follows:
1. Montana-Dakota shall first determine each month the unit cost for that month's fuel and purchased power.
 2. Montana-Dakota shall then subtract from each month's unit cost the cost of fuel and purchased power included in rates for that month.
 3. The resulting difference (which may be positive or negative) shall be multiplied by ninety (90) percent and by the Kwh sold during that month under Contract Service Rate 35. 90 percent of the resulting amounts shall be reflected in an Unreflected Fuel Cost Account for each rate schedule.
 4. Carrying charges or credits at a rate equal to the overall rate of return established in the most recent general rate case.
- c. Reduction of Amounts in the Unreflected Fuel Cost Account:
1. The amounts in the Unreflected Fuel Cost Account shall be decreased each month by an amount determined by multiplying the currently effective Unreflected Fuel Cost adjustment included in rates for that month (as calculated in Subsection 4) by the Kwh sold during that month under Contract Service Rate 35. The Account shall be increased in the event the adjustment is a negative amount. The amount amortized shall be applied pro rata between the Unrecovered Fuel Cost Account and the interest balance.

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5. TIME AND MANNER OF FILING:

a. Each filing by Montana-Dakota shall be made by means of a revised fuel and power cost schedule provided in Subsection 6 identifying the amount of the adjustment.

b. Each filing shall be accompanied by detailed computations which clearly show the derivation of the relevant amounts.

~~b.c.~~ Effective April 1, 2017 the unrecovered balance of Public Service Commission and Montana Consumer Counsel taxes of \$399,742 shall be recovered from all classes on a percent of revenue basis with any over or under recovery of that amount included in the Unreflected Fuel Cost Account.

6. EFFECTIVE ADJUSTMENT:

Effective Date	Current Adjustment ¢ per Kwh	Amount of Change ¢ per Kwh
1/1/2016 <u>4/1/2017</u>	(0. 384163 ¢)	(0946.094¢)

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Director - Regulatory Affairs

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INTERRUPTIBLE LARGE POWER DEMAND RESPONSE Rate 38

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AVAILABILITY:

In all communities served for power to customers having a demand of 500 Kw or more for its interruptible load available for interruption for up to 100 hours annually. Electric energy for the interruptible load shall be supplied through a separately metered circuit at the same voltage and phase utilized to serve the balance of the customer's electrical load so arranged to allow remote operation by the Company.

TYPE OF SERVICE:

Service under this rate shall be taken by the customer at whatever primary voltage is available at the point of delivery but not less than 2,400 volts. In the event that it is necessary to build a substation on the Company's transmission line to serve the customer, the cost of building the substation shall be a matter of negotiation between the Company and the customer.

RATE:

Basic Service Charge: Specified in the electric service agreement with the Company.

Demand Charge:

October – May ~~\$3.33~~ 4.61 per Kw

June – September ~~\$4.33~~ 5.77 per Kw

Energy Charge:

~~1.633~~ 1.885¢ per Kwh

Base Fuel and Purchased Power:

~~2.05~~ 2.453¢ per Kwh

MINIMUM BILL:

Basic Service Charge plus the Demand Charge (500 Kw minimum).

PAYMENT:

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

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By: Tamie A. Aberle
Regulatory Affairs Manager

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Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of Montana Electric Rate Schedule

Volume No. 4

2nd Revised Sheet No. 25.1

Canceling 1st Revised Sheet No. 25.1

INTERRUPTIBLE LARGE POWER DEMAND RESPONSE Rate 38

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ADJUSTMENT CLAUSES:

Bills are subject to the following adjustments as provided in the referenced rates, or any amendments or alterations thereto:

- Electric Universal System Benefits Charge Rate 55
- Fuel and Purchased Power Cost Tracking Adjustment Rate 58

DETERMINATION OF BILLING DEMAND:

The demand in kilowatts for billing purposes shall be the greater of the maximum 15 minute measured demand in the current month or 500 Kw. Demands will be determined to the nearest one-tenth kilowatt. Customers whose loads have rapidly fluctuating and/or intermittent demand characteristics shall be subject to special rules and regulations.

POWER FACTOR CLAUSE:

The Company reserves the right to require the customer to install adequate equipment so that at all times it can operate its facilities to maintain a power factor between 90% lagging and 90% leading. If the customer operates outside this range, the maximum 15 minute integrated reactive kilovolt amperes in excess of 50% of the maximum 15 minute integrated kilowatt demand for the same month will be billed at \$3.35 per Kvar of such excess demand.

GENERAL TERMS AND CONDITIONS:

1. The customer shall execute an electric service agreement with the Company which will include, among other provisions, a minimum term of service and monthly Base Rate payments to the Company. The monthly Base Rate payments are determined on a customer by customer basis and shall include, but are not limited to, any additional costs incurred by Company for facilities, such as substations, electric lines, meters, switching devices, and circuit breakers that are necessary to provide service under this rate.
2. All equipment associated with the interruptible load must be of such voltage and electrical characteristics that it can be separately metered and served from the circuit provided for the interruptible portion of the customer's load. If the equipment to be served is such that this is impossible, the customer must either make special arrangements with the Company or furnish the necessary

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Canceling 1st Revised Sheet No. 25.2

INTERRUPTIBLE LARGE POWER DEMAND RESPONSE Rate 38

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equipment suitable for connection and metering to the circuit for the interruptible portion of the load.

3. The customer must provide a load-break switch or circuit breaker equipped with electrical trip and close circuits allowing for remote operation of the customer's switch or circuit breaker by the Company. Customer must wire the trip and close circuits into a connection point designated by the Company to allow installation of control equipment by the Company. Customer must provide a continuous 120 volt AC power source at the connection point for operation of the Company's control system.
4. The Company may request the customer to interrupt at any time for up to 100 hours during an annual period starting with the in-service date of the contract between the Company and the customer and annually thereafter. Company shall reimburse customer for customer's fuel used when interrupted at a mutually acceptable level and price.
5. Customer will be required to interrupt service within 10 minutes of the Company's signal to interrupt service.
6. The penalty for non-performance when the Company requests the customer to interrupt will be the greater of \$10.00 per Kw applicable to the Kw demand specified in the electric service agreement with the Company or the appropriate allocation of any penalties imposed on the Company by the Midwest Reliability Organization for the period of non-performance. After a second failure to perform, within a 12-month period, the customer shall be liable for the penalty and may be moved to the otherwise applicable rate.
7. The Company shall not be liable for any loss or damage caused by or resulting from any interruption of service.
8. The foregoing schedule is subject to Rates 100-131 and any amendments or alterations thereto or additional rules and regulations promulgated by the Company under the laws of the state.

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Montana-Dakota Utilities Co.

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State of Montana Electric Rate Schedule

Volume No. 4
5th Revised Sheet No. 28
Canceling 4th Revised Sheet No. 28

MUNICIPAL LIGHTING SERVICE Rate 41

Page 1 of 2

AVAILABILITY:

For municipal lighting purposes including streets, alleys and other public grounds. Service will be provided all night, every night in the year with a minimum service requirement of 4,000 hours annually, and must be covered by written contract.

RATE:

~~5.3375~~5.815¢ per Kwh computed according to the total rated capacity of the lamps in use.

Base Fuel and Purchased Power: ~~2.084~~2.516¢ per Kwh

MINIMUM BILL:

As provided by contract.

PAYMENT:

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

ADJUSTMENT CLAUSES:

Bills are subject to the following adjustments as provided in the referenced rates, or any amendments or alterations thereto:

- Electric Universal System Benefits Charge Rate 55
- Fuel and Purchased Power Cost Tracking Adjustment Rate 58

GENERAL TERMS AND CONDITIONS:

1. The Company will maintain the facilities and change the light bulbs when notified by the municipality that they are burned out except when the facilities are damaged or destroyed by vandalism, malicious mischief by third parties, or willful negligence on the part of employees of the municipality. In case of vandalism, malicious mischief, or willful negligence the Company will charge the municipality for the cost of repair and replacement.

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MUNICIPAL LIGHTING SERVICE Rate 41

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2. The rate charged to municipally-owned street lighting systems shall be the above tariffed rate less 0.872¢ per Kwh.
3. In municipally-owned street lighting systems, an additional charge will be made to cover lamp replacements, materials and labor whenever such services are supplied by the Company.
4. When service is not metered, the bill shall be computed on an annual basis, utilizing the minimum service requirement of 4,000 hours annually, and one-twelfth shall be payable each month.
5. The foregoing schedule is subject to Rates 100-131 and any amendments or alterations thereto or additional rules and regulations promulgated by the Company under the laws of the state.

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State of Montana Electric Rate Schedule

Volume No. 4
5th Revised Sheet No. 34
Canceling 4th Revised Sheet No. 34

MUNICIPAL PUMPING SERVICE Rate 48

Page 1 of 2

AVAILABILITY:

For municipal pumping purposes provided the municipality uses electricity exclusively for all its pumping requirements and purchases all such electricity from the Company. The municipality must sign a contract for a minimum period of one year.

RATE:

Basic Service Charge: ~~\$21.50~~24.76 per month

Demand Charge:

Connected loads of 10 Kw or less will be billed based on connected load. Connected loads in excess of 10 Kw will be billed based upon the greater of the highest 15 minute interval demand as registered upon a demand meter in the current month or 10 Kw.

October – May ~~\$2.70~~3.11 per Kw

June – September ~~\$4.30~~4.95 per Kw

Energy Charge: ~~1.95~~2.247¢ per Kwh

Base Fuel and Purchased Power: ~~2.08~~2.516¢ per Kwh

MINIMUM BILL:

Basic Service Charge plus Demand Charge.

PAYMENT:

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

ADJUSTMENT CLAUSES:

Bills are subject to the following adjustments as provided in the referenced rates, or any amendments or alterations thereto:

- Electric Universal System Benefits Charge Rate 55
- Fuel and Purchased Power Cost Tracking Adjustment Rate 58

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MUNICIPAL PUMPING SERVICE Rate 48

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POWER FACTOR CLAUSE:

The Company reserves the right to require the customer to install adequate equipment so that at all times it can operate its facilities to maintain a power factor between 90% lagging and 90% leading. If the customer operates outside this range, the maximum 15 minute integrated reactive kilovolt amperes in excess of 50% of the maximum 15 minute integrated kilowatt demand for the same month will be billed at \$3.35 per Kvar of such excess demand.

GENERAL TERMS AND CONDITIONS:

The foregoing schedule is subject to Rates 100-131 and any amendments or alterations thereto or additional rules and regulations promulgated by the Company under the laws of the state.

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Volume No. 4
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Canceling 4th Revised Sheet No. 38

OUTDOOR LIGHTING SERVICE Rate 52

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AVAILABILITY:

For all outdoor lighting including flood lights, billboard lighting, Christmas lights and metallic vapor yard light units in all communities served. Lighting equipment may be Company-owned or customer-owned.

RATE:

~~8.665~~9.341¢ per Kwh computed according to the total rated capacity of the units in use.

Base Fuel and Purchased Power: ~~2.084~~2.516¢ per Kwh

PAYMENT:

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

ADJUSTMENT CLAUSES:

Bills are subject to the following adjustments as provided in the referenced rates, or any amendments or alterations thereto:

- Electric Universal System Benefits Charge Rate 55
- Fuel and Purchased Power Cost Tracking Adjustment Rate 58

GENERAL TERMS AND CONDITIONS:

1. Applicable to Company-owned Facilities:
 - a. The Company will install, own and operate the flood light(s), and yard light(s) including a suitable reflector, bracket for mounting and automatic device to control operating hours set to operate from dusk to dawn.
 - b. The light may be mounted on existing poles owned or controlled by the Company. The Company will furnish a 35 foot pole(s) for flood lights and a 30 foot pole(s) for yard light(s) at the customers request at a separate rental rate if a special setting is required. If the customer chooses, the light may be installed on a pole owned by the customer or other mounting point suitable for installation of the light. The conductors will be extended

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OUTDOOR LIGHTING SERVICE Rate 52

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100 feet per unit, free of charge, but the customer shall pay for the extra cost of extensions of more than 100 feet per unit.

- c. To the rate stated herein, bulb replacement and ownership costs for the units shall be added. The customer should consult with the Company for such costs.
 - d. The Company will maintain the facilities and change the light bulbs when notified by the customer that they are burned out except when the facilities are damaged or destroyed by vandalism, malicious mischief by third parties, or willful negligence on the part of customer. In case of vandalism, malicious mischief, or willful negligence, the Company will charge the customer for the cost of repair and replacement.
2. When service is not metered, the bill shall be computed on an annual basis, utilizing the minimum service requirement of 4,000 hours annually, and one-twelfth shall be payable each month. Christmas lighting will be billed for the months in service.

Metallic vapor ratings in lumens shall be converted to watts on the basis of the published ratings currently issued by the General Electric Company and the Westinghouse Electric Corporation.

3. The foregoing schedule is subject to Rates 100-131 and any amendments or alterations thereto or additional rules and regulations promulgated by the Company under the laws of the state.

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Volume No. 4
2nd Revised Sheet No. 43
Canceling 1st Revised Sheet No. 43

FUEL AND PURCHASED POWER COST TRACKING ADJUSTMENT Rate 58

Page 1 of 5

1. APPLICABILITY:

This rate schedule sets forth the procedure to be used in calculating the Electric Fuel and Purchased Power Cost (Fuel and Power Cost) Tracking Adjustment. It specifies the procedure to be utilized to adjust the rates for electricity sold under Montana-Dakota's rate schedules in the state of Montana, excluding Contract Service Rate 35, in order to reflect: (a) changes in Montana-Dakota's average cost of fuel and purchased power (b) amortization of the Unreflected Fuel Cost Account. And (c) changes in Montana-Dakota's electric wholesale sales margins as allocated to its Montana electric jurisdiction excluding Contract Service Rate 35.

2. EFFECTIVE DATE AND LIMITATION ON ADJUSTMENTS:

- a. Unless otherwise ordered by the Commission, the effective dates of the Fuel and Power Cost tracking adjustment shall be service rendered on and after the first day of each month. The effective date of the adjustment for amortization of the Unreflected Fuel Cost Account shall be July 1 of each year.
- b. Montana-Dakota shall file an adjustment to reflect changes in its average cost of electric supply only when the amount of change in such adjustment is at least .001 cents per Kwh. The tracking adjustment to be effective July 1 shall be filed each year, regardless of the amount of the change.

3. MINIMUM FILING REQUIREMENTS:

Montana-Dakota's filing to implement the Fuel and Power Cost Tracking Adjustment effective July 1 of each year shall include the following:

- a. Fuel and purchased power costs by month by supply source, with annual totals;
- b. Generation and purchases (Mwh) by month by supply source, with annual totals;

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FUEL AND PURCHASED POWER COST TRACKING ADJUSTMENT Rate 58

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- c. Total Montana-Dakota sales by major customer class by month with annual totals and;
- d. Montana-Dakota sales by major customer class by jurisdiction by month, with annual totals.

4. FUEL AND POWER COST TRACKING ADJUSTMENT:

- a. The monthly Fuel and Power Cost Tracking Adjustment shall be calculated separately for primary voltage and secondary service customers and shall reflect ninety (90) percent of the changes in Montana-Dakota's cost of fuel and purchased power as compared to the cost of fuel and purchased power approved in its base rates plus the annual Unreflected Fuel Cost Adjustment. The base fuel cost shall be ~~2.057516~~¢ per Kwh for primary service and ~~2.084453~~¢ per Kwh for secondary service as established in the most recent general rate case.
- b. The cost of fuel and purchased power shall be calculated separately for primary service customers and secondary service customers, and shall be the sum of the following costs for the most recent four month period, as allocated to Montana and to the primary and secondary customer classes:
 - 1. The cost of fossil and other fuels and regents as recorded in Account Nos. 501, 502 and 547.
 - 2. The net cost of purchases and costs linked to the utility's load serving obligation associated with participation in wholesale electric energy and capacity markets as recorded in Account 555.
 - 3. Less the cost of fuel and purchased power recovered from electric wholesale sales.

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c. The cost per Kwh for the month is the sum of 4(b) above divided by retail sales volumes for the most recent four month period for the primary and secondary service classes excluding Contract Service Rate 35.

d. The difference between the base cost of fuel and purchased power and the calculated cost in 4(c) is multiplied by ninety (90) percent.

e. Ninety (90) percent of wholesales margin shall be divided by retail sales volumes for the most recent four month period for primary and secondary service classes excluding Contract Service Rate 35

d.f. The Fuel and Power Cost Tracking Adjustment for the month shall be the sum of 4(d) and 4(e).

The applicable Fuel and Power Cost Tracking Adjustment shall be applied to each of Montana-Dakota's rate schedules except Contract Service Rate 35, recognizing differences among customer classes consistent with the cost of fuel and purchased power included in the applicable class sales rate.

5. UNREFLECTED FUEL COST ADJUSTMENT:

All sales rate schedules shall be subject to an Unreflected Fuel Cost Adjustment to be effective on July 1 of each year. The Unreflected Fuel Cost Adjustment per Kwh shall reflect amortization of the applicable balance in the Unreflected Fuel Cost Account calculated by dividing the applicable balance by the estimated Kwh sales for the twelve months following the effective date of the adjustment.

6. UNREFLECTED FUEL COST ACCOUNT:

- a. Items to be included in the applicable Unreflected Fuel Cost Account, are:
- (1) Amounts under recovered or over recovered for fuel and purchased power, as calculated in accordance with Subsection 6(b) each month.
 - (2) Refunds received with respect to fuel and purchased power. Such refunds received shall be credited to the Unreflected Fuel Cost Account.

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FUEL AND PURCHASED POWER COST TRACKING ADJUSTMENT Rate 58

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~~(3) — Ninety (90) percent of the difference above or below the off-system sales margin base established in the most recent rate case each month, as allocated to Montana excluding Contract Service Rate 35.~~

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1st Revised Sheet No. 43.3
Canceling Original Sheet No. 43.3

FUEL AND PURCHASED POWER COST TRACKING ADJUSTMENT Rate 58

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- b. The amount to be included in the Unreflected Fuel Cost Account in order to reflect the items specified in Subsection 6(a) (1) and (2) shall be calculated as follows:
- (1) Montana-Dakota shall first determine each month the unit cost for that month's fuel and purchased power.
 - (2) Montana-Dakota shall then subtract from each month's unit cost the cost of fuel and purchased power included in rates for that month.
 - (3) The resulting difference (which may be positive or negative) shall be multiplied by ninety (90) percent and by the Kwh sold during that month under each applicable rate schedule. ~~The resulting amounts shall be reflected in an Unreflected Fuel Cost Account for each applicable rate schedule.~~
 - (4) Ninety (90) percent of wholesale sales margin shall be calculated on a per unit basis as a credit.
 - (5) The sum of 6(b)(3) and 6(b)(4) shall be reflected in an Unreflected Fuel Cost Account for each applicable rate schedule.
- c. Reduction of Amounts in the Unreflected Fuel Cost Account:
- (1) The amounts in the Unreflected Fuel Cost Account shall be decreased each month by an amount determined by multiplying the currently effective Unreflected Fuel Cost adjustment included in rates for that month (as calculated in Subsection 6) by the Kwh sold during that month under each applicable rate schedule. The Account shall be increased in the event the adjustment is a negative amount.

7. TIME AND MANNER OF FILING:

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- a. Each filing by Montana-Dakota shall be made by means of a revised fuel and power cost schedule provided in Subsection 8 identifying the amount of the adjustment.
- b. Each filing shall be accompanied by detailed computations which clearly show the derivation of the relevant amounts.

c. Effective April 1, 2017 the unrecovered balance of Public Service Commission and Montana Consumer Counsel taxes of \$399,742 shall be recovered from all classes on a percent of revenue basis with any over or under recovery of that amount included in the Unreflected Fuel Cost Account.

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Canceling 91st Revised Sheet No. 43.4

FUEL AND PURCHASED POWER COST TRACKING ADJUSTMENT Rate 58

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8. FUEL AND POWER COST ADJUSTMENT :

	Primary	Secondary
Base Fuel	2.057516¢	2.084453¢
Fuel and Power Cost Adjustment	0.330	0.380
Total FPPA per Kwh	2.387¢	-2.464¢

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GENERAL PROVISIONS Rate 100

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I. PURPOSE:

These rules are intended to define good practice which can normally be expected, but are not intended to exclude other accepted standards and practices not covered herein. They are intended to ensure adequate service to the public and protect the Company from unreasonable demands.

The Company undertakes to furnish service subject to the rules and regulations of the Public Service Commission of Montana (Commission) and as supplemented by these general provisions, as now in effect or as may hereafter be lawfully established, and in accepting service from the Company, each customer agrees to comply with and be bound by said rules and regulations and the applicable rate schedules. Also refer to Electric Service Rules & Regulations Rate 110.

II. DEFINITIONS:

The following terms used in this tariff shall have the following meanings, unless otherwise indicated:

APPLICANT – A customer requesting Company to provide service.

COMMISSION – Public Service Commission of the State of Montana.

COMPANY – Montana-Dakota Utilities Co.

CUSTOMER – Any individual, partnership, corporation, firm or other organization, or government agency supplied with service by Company at one location and at one point of delivery unless otherwise expressed in these rules or in a rate schedule.

RATE – Shall mean and include every compensation, charge, fare, toll, rental, and classification, or any of them, demanded, observed, charged or collected by the Company for any service, product, or commodity, offered by the Company to

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the public, and any rules, regulations, practices or contracts affecting any such compensation, charge, fare, toll, rental or classification.

III. GENERAL TERMS AND CONDITIONS:

1. RULES FOR APPLICATION OF ELECTRIC SERVICE:

- i. Residential Electric Service is available to any residential customer for domestic purposes only. All normal sized equipment used for domestic lighting, heating, cooking, and power, and used strictly for household purposes, may be supplied through one meter.
 - a. Residential service is defined as service for domestic general household purposes in space occupied as living quarters, designed for occupancy by one family. Typical service would include the following: separately metered units, such as single private residences, single apartments, mobile homes and sorority and fraternity houses (this is not an all-inclusive list). In addition, auxiliary buildings and water well pumps on the same premise as the living quarters, used for single family residential purposes, may be served on the residential rate- ~~Where~~ where premise is defined as a contiguous parcel of land undivided by a dedicated street, alley, highway, or other public thoroughfare or railway.
 - b. Motors and other equipment which interfere with service to neighboring customers, all motors larger than 5 horsepower, and temporary or seasonal loads totaling more than 25 kilowatts (Kw) will not be permitted on the Residential Electric Service Rate without prior Company approval.
 - c. Only single phase service is available under the Residential Electric Service Rate.

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Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

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- ii. Three phase service shall be served under the appropriate General Electric Service Rate.
- iii. General Electric Service is defined as service provided to nonresidential services, such as a business enterprise in space occupied and operated for nonresidential purposes. Typical service would include: stores, offices, shops, restaurants, boarding houses, hotels, service garages, wholesale houses, filling stations, barber shops, beauty ~~parlors~~ salons, apartment houses with master metering exemptions, common areas of shopping malls or apartments (such as halls or basements), churches, elevators, schools and facilities located away from the home site (this is not an all-inclusive list).
- iv. If separate metering is not practical for a single unit (one premise) that is using electricity for both domestic purposes and for conducting business (or for nonresidential purposes) the customer will be billed under the predominate use policy. Under this policy, the customer's combined service is billed under the rate (Residential or General Electric Service) applicable to the type of service which constitutes 50% or more of the total connected load.
- v. Other classes of service furnished by the Company shall be defined in applicable rate schedules, or in rules and regulations pertaining thereto. Service to customers for which no specific rate schedule is applicable shall be billed on the appropriate General Electric Service Rate.

2. CONSUMER DEPOSITS:

The Company will determine whether or not a deposit shall be required of an applicant for electric service in accordance with Commission rules.

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- i. The amount of such deposit for residential service shall not exceed one-sixth of the estimated annual billings. For non-residential

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service, the amount of the deposit shall not exceed 25 percent of the estimated annual billings.

- ii. The Company shall accept in lieu of a cash deposit a contract signed by a guarantor, whereby the payment of a specified sum not to exceed an estimated one year bill, with such estimation to be made at the time the service is established. Guarantee terms and conditions will be in accordance with Commission Rules 38.5.1111 and 38.5.1112.
 - iii. Interest on deposits held shall be accrued at the rate of .5 percent per month. Interest shall be computed from the receipt of deposit to the time of refund or of termination. Interest shall be credited to the customer's account annually during the month of December.
 - iv. Deposits with interest shall be refunded to the customers at termination of service provided all billings for service have been paid. Deposits with interest will be refunded to all active customers, after the deposit has been held for twelve months, provided a prompt payment record, as defined in the Commission rules, has been established.
3. LATE PAYMENT CHARGE:
Amounts billed for energy will be considered past due if not paid by the due date shown on the bill.
- i. For residential customers, an amount equal to 1% per month will be applied to any ~~past due amount-unpaid balance existing at the second-subsequent billing date~~, provided however, that such amount shall not apply to any account where a written payment schedule has been arranged and complied with, or where the Low Income Energy Assistance Program (LIEAP) is being utilized up to the point where the funds are exhausted and the recipient has full responsibility for the account. In

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the event of a breach of a written payment arrangement, an amount equal to 1% of the total remaining unpaid balance shall apply beginning 60 days after the date of the last payment under the payment arrangement. Such amount shall also apply (where the LIEAP program was utilized) to the total remaining unpaid balance on all accounts beginning 60 days after the LIEAP program no longer applies to such account.

- ii. For nonresidential customers, an amount equal to 1% per month will be applied to any unpaid balance ~~existing at the immediate subsequent billing date not paid by the due date shown on the bill.~~
- iii. All payments received will apply to the customer's account prior to calculating the late payment charge. Those payments applied shall satisfy the oldest portion of the bill first.

4. RETURNED CHECK CHARGE:

A charge of \$20.00 will be collected by the Company for each check charged back to the Company by a bank.

5. TAX CLAUSE:

In addition to the charges provided for in the electric tariffs of the Company there shall be charged pro rata amounts which on an annual basis shall be sufficient to yield to the Company the full amount of any excise taxes, whether they be denominated as license taxes, occupation taxes, business taxes, privilege taxes, or otherwise, levied against or imposed upon the Company by any municipality or other political subdivision for the privilege of conducting its utility operations therein.

The charges to be added to the customers' service bills under this clause shall be limited to the customers within the corporate limits of the municipality or other political subdivision imposing the tax.

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6. UTILITY SERVICES PERFORMED AFTER NORMAL BUSINESS HOURS:
For service calls requested by customer for cut-ins, cut-outs, and disconnection or reconnection of ~~appliance~~ service after the Company's regular business hours and on Saturday, Sunday, or legal holidays, a charge will be made for labor at standard overtime service rates and material at retail prices.

Customers requesting service after the Company's normal business hours will be informed of the after hour service rate and encouraged to have the service performed during normal business hours.

To ensure the Company can service the customer during normal business hours, the customer's call must be received by 12:00 p.m. on a regular work day for a disconnection or reconnection of service that same day. For calls received after 12:00 p.m. on a regular work day, customers will be advised that overtime service rates will apply unless service can be scheduled for a future workday.

7. RECONNECTION FEE FOR SEASONAL CUSTOMER:
A charge ~~of \$20.00~~ will be collected for reconnecting electric service to ~~any~~ customer who requests reconnection of service, at a location where the same customer has discontinued the same service electricity at the same location during the preceding twelve month period.

Applicable Charge:

- i. Customers with non-demand meters: \$20.00
- ii. Customers with demand meters: \$40.00

8. DISCONTINUANCE OF SERVICE FOR NONPAYMENT OF BILL:
- i. All bills for services are due when rendered and will be considered delinquent if not paid by the due date shown on the bill. If any customer shall become delinquent in the payment of service bills,

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such service may be discontinued by the Company under the applicable rules of the Public Service Commission.

- ii. The Company may collect a fee of \$20.00 before restoring electric service which has been disconnected for nonpayment of service bills.

9. DISCONTINUANCE OF SERVICE FOR CAUSES OTHER THAN NONPAYMENT OF BILL:

The Company reserves the right to discontinue service for any of the following reasons:

- i. In the event of customer use of equipment in such a manner as to adversely affect the Company's equipment or service to others.

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- ii. In the event of tampering with the equipment furnished and owned by the Company.
- iii. For violation of or noncompliance with the Company's rules on file with the Commission.
- iv. For failure of the customer to fulfill the contractual obligations imposed as conditions of obtaining service.
- v. For refusal of reasonable access to property to the agent or employee of the Company for the purpose of inspecting the facilities or for testing, reading, maintaining or removing meters.

The right to discontinue service for any of the above reasons may be exercised whenever and as often as such reasons may occur, and any delay on the part of the Company in exercising such rights, or omission of any action permissible hereunder, shall not be deemed a waiver of its rights to exercise same.

Nothing in these regulations shall be construed to prevent discontinuing service without advance notice for reasons of safety, health, cooperation with civil authorities, or fraudulent use, tampering with or destroying Company facilities.

The Company may collect a reconnect fee of \$20.00 before restoring electric service, which has been disconnected for the above causes.

10. BILL DISCOUNT FOR QUALIFYING EMPLOYEES:

A bill discount may be available for residential use only in a single family unit served by Montana-Dakota Utilities Co. to qualifying employees and retirees of MDU Resources and its subsidiaries. The bill shall be computed at the applicable rate, and the amount reduced by 33 1/3%.

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11. METHOD OF COMPUTING INITIAL OR FINAL BILLS FOR ELECTRIC SERVICE FOR LESS THAN A FULL MONTHLY BILLING PERIOD:
Customer's meters are read as nearly as practicable at thirty day intervals. When service is begun or terminated at any location between regular meter reading dates, bills will be prorated on a daily basis, whenever the billing period is less than 27 calendar days or more than 35 calendar days. The minimum monthly bill, basic service charge, kilowatt hour blocks and demand charge provisions in all rate schedules will be prorated.

12. BILLING ERRORS:

Billing error means any bill issued by Company that is not designated as an estimate and that understates the amount owed by the customer. It also means the Company's failure to bill a customer, although there was energy consumption which would, under the Company's normal billing practices, be billed to the customer.

- i. When a billing error is discovered which is not the result of theft by the customer, the Company may submit a bill to the customer based on the corrected information for a period not to exceed six months from the date the billing error is discovered.
- ii. Billing errors on accounts of industrial customers are not limited to the six-month period applicable to all other customers.

13. INSTALLING TEMPORARY METERING OR SERVICE FOR ELECTRIC FACILITY:

A customer requesting temporary metering service will be charged on a time and material basis in accordance with Electric Service Rules and Regulations Rate 110.

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14. SERVICES ON CUSTOMER PREMISES – ELECTRIC NONCHARGEABLE
– UTILITY SERVICES:
- i. Fire Call
 - ii. Investigate hazardous condition on customer premises
 - iii. No lights or power investigation
 - iv. Maintenance or repair of Company-owned equipment on the customer's premise –
 - a. Meter
 - b. Overhead service line
 - c. Underground service line
 - v. Checking voltage or loads
 - vi. Locating radio, cb or television interference
 - vii. High bill complaint
 - viii. Cut-ins and cut-outs (regular work hours)
15. MODIFICATION OF RATES, RULES AND REGULATIONS:
Company reserves the right to modify any of its rates, rules, and regulations or other provisions now or hereafter in effect, in any manner permitted by law.

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MONTANA-DAKOTA UTILITIES CO.

ELECTRIC SERVICE RULES and REGULATIONS

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Section 100 - General

101. Definitions Purpose

These rules are intended to define good practice which can normally be expected, but are not intended to exclude other generally accepted standards and practices not covered herein. They are intended to ensure adequate service to the public and protect the Company from unreasonable demands.

The Company undertakes to furnish service subject to the rules and regulations of the Commission as supplemented by these general provisions, as now in effect or as may hereafter be lawfully established, and in accepting service from the Company, each customer agrees to comply with and be bound by said rules and regulations and the applicable rate schedules.

~~Company – Montana-Dakota Utilities Co.~~

~~Customer – Any individual, partnership, corporation, firm, other organization or government agency supplied with service by the Company at one location and one point of delivery unless otherwise expressly provided in these rules or in a rate schedule.~~

102. Purpose Definitions

Company – Montana-Dakota Utilities Co.

Customer – Any individual, partnership, corporation, firm, other organization or government agency supplied with service by the Company at one location and one point of delivery unless otherwise expressly provided in these rules or in a rate schedule.

~~These rules are intended to define good practice which can normally be expected, but are not intended to exclude other generally accepted standards and practices not covered herein. They are intended to ensure adequate service to the public and protect the Company from unreasonable demands.~~

~~The Company undertakes to furnish service subject to the rules and regulations of the Regulatory Commissions as supplemented by these general provisions, as now in effect~~

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~~or as may hereafter be lawfully established, and in accepting service from the Company, each customer agrees to comply with and be bound by said rules and regulations and the applicable rate schedules.~~

103. Customer Obligation

103.1 Application for Service – A customer desiring electric service must submit an application to the Company before commencing the use of the Company's service. The Company reserves the right to require a signed application or written contract for service to be furnished. All applications and contracts for service must be made in the legal name of the customer desiring the service. Any customer may be required to make a deposit as required by the Company. The Company may refuse service or terminate service to a customer who fails or refuses to furnish reasonable information requested by the Company for the establishment of a service account. Any customer who uses electric service shall be subject to the Company's rates, rules, and regulations and shall be responsible for payment of all service used.

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Subject to rates, rules and regulations, the Company will continue to supply electric service until notified by the customer to discontinue the service. The customer will be responsible for payment of all service furnished through the date of discontinuance. Any customer may be required to make a deposit.

103.2 Access to Customer's Premises – Company representatives, when properly identified, shall have access to customer's premises at all reasonable times for the purpose of reading meters, making repairs, making inspections, removing the Company's property, or for any other purpose incidental to the service. The Company will make reasonable effort to contact the customer, but the Company reserves the right to interrupt service to conduct maintenance on metering equipment, including an exchange of the meter.

103.3 Company Property – The customer shall not disconnect, change connections, make connections or otherwise interfere with Company's meters or other property or permit same to be done by other than the Company's authorized employees.

103.4 Relocated Facilities – Where Company facilities are located on or adjacent to a customer's premises where there is an encroachment(s) to electric facilities the customer shall be charged for line relocation on the basis of actual costs incurred by the Company including any required easements.

103.5 Notification of Unsafe Conditions – The customer shall immediately notify the Company of any unsafe conditions associated with the Company's electric facilities at the customer's premises.

103.6 Termination of Service – All customers are required to notify the Company, to prevent their liability for service used by succeeding tenants, when vacating their premises. Upon receipt of such notice, the Company will read the meter and further liability for service used on the part of the vacating customer will cease.

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104. Liability

104.1 Continuity of Service – The Company's electric system is unusually widespread and has many interconnections with sources of power other than its own generating stations and it is subject to exposure by storms and other factors not under its control. The Company employs the latest developments in equipment and methods of operation for the purpose of maintaining adequate service. The Company will use all reasonable care to provide continuous service but does not assume responsibility for a regular and uninterrupted supply of electric service and will not be liable for any loss, injury, death or damage resulting from or caused by the interruption of the same.

104.2 Customer's Equipment – Neither by inspection or rejection, nor in any other way does the Company give any warranty, expressed or implied, as to the adequacy, safety or other characteristics of any structures, equipment, lines, appliances or devices owned, installed or maintained by the customer, leased by the customer from third parties or used on the customer's premise. It is the obligation of the customer to consult with the Company regarding maximum available fault current and to provide such protection devices as may be necessary to safeguard the equipment and installation from interruptions, variation in voltage and frequency, single-phase energization of three-phase lines, reversal of phase rotation or other abnormal conditions. (Refer to Paragraph 710)

104.3 Company Equipment and Use of Service – The Company will not be liable for any loss, injury, death or damage resulting in any way from the supply or use of electricity or from the presence or operation of the Company's structures, equipment, lines, appliances or devices on the customer's premises, except loss, injuries, death, or damages resulting from the negligence of the Company.

104.4 Indemnification – Customer agrees to indemnify and hold Company harmless from any and all injury, death, loss or damage resulting from customer's negligent or wrongful acts under and during the term of service. Company agrees to indemnify and hold customer harmless from any and all injury, death, loss or damage resulting from Company's negligent or wrongful acts under and during the term of service.

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104.5 Force Majeure – In the event of either party being rendered wholly or in part by force majeure unable to carry out its obligations, then the obligations of the parties hereto, so far as they are affected by such force majeure, shall be suspended during the continuance of any inability so caused. Such causes or contingencies affecting the performance by either party, however, shall not relieve it of liability in the event of its concurring negligence or in the event of its failure to use due diligence to remedy the situation and remove the cause in an adequate manner and with all reasonable dispatch, nor shall such causes or contingencies affecting the performance relieve either party from its obligations to make payments of amounts then due hereunder, nor shall such causes or contingencies relieve either party of liability unless such party shall give notice and full particulars of the same in writing or by telephone to the other party as soon as possible after the occurrence relied on.

The term “force majeure” as employed herein shall include, but shall not be limited to, acts of God, strikes, lockouts or other industrial disturbances, failure to perform by any third party, which performance is necessary to the performance by either customer or Company, acts of the public enemy or terrorists, wars, blockades, insurrections, riots, epidemics, landslides, lightning, earthquakes, fires, storms, floods, washouts, arrest and restraint of rulers and peoples, civil disturbances, explosions, breakage or accident to machinery or electric lines, animal interference, sudden partial or sudden entire failure of electric transmission or supply, failure to obtain materials and supplies due to governmental regulations, and causes of like or similar kind, whether herein enumerated or not, and not within the control of the party claiming suspension, and which by the exercise of due diligence such party is unable to overcome; provided that the exercise of due diligence shall not require settlement of labor disputes against the better judgment of the party having the dispute.

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The term "force majeure" as employed herein shall also include, but shall not be limited to, inability to obtain or acquire, at reasonable cost, grants, servitudes, rights-of-way, permits, licenses, or any other authorization from third parties or agencies (private or governmental) or inability to obtain or acquire at reasonable cost necessary materials or supplies to construct, maintain, and operate any facilities required for the performance of any obligations under this agreement, when any such inability directly or indirectly contributes to or results in either party's inability to perform its obligations.

105. Electrical Codes and Ordinances

The Electric Service Rules and Regulations contained herein are supplementary to and do not intentionally conflict with nor supersede the latest edition of the National Electrical Code, the National Electrical Safety Code, nor such state and municipal laws and ordinances that may be in effect in the areas in which the Company furnishes electric service, except that where the requirements of these Electric Service Rules and Regulations exceed those of such codes, laws, and ordinances, these Electric Service Rules and Regulations shall apply. Existing installations, including maintenance replacements, that currently comply with prior revisions of these rules and regulations, need not be modified to comply with these rules except as may be required for safety reasons.

106. Wiring Adequacy

Wiring codes provide minimum requirements for safety. Installation of wiring capacity greater than minimum code requirements is recommended to bring to the customer all the benefits of electric service and to protect building investment by minimizing obsolescence resulting from an inadequate wiring system.

107. Inspection of Wiring

Where permits and inspections covering customer's wiring and installation are required by local ordinance, it is mandatory that such requirements be fulfilled before the Company will make connections to the customer's installation. In locations where such inspections are not required by law or ordinance, an affidavit by the wiring contractor stating that the wiring has been done in compliance with the National Electrical Code will be acceptable.

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108. Permits, Certificates, Affidavits

It is the responsibility of the customer to obtain all necessary permits, certificates of inspection or affidavits as required in Paragraph 107 above and to notify the Company promptly of any proposed alterations or additions to customer's load. Failure to comply with these requirements may result in delayed connection, interruption of service or damage to apparatus.

109. Consultation with the Company

109.1 The location, size and character of the customer's load and the current, voltage, frequency, phases, etc. which the Company has available at the customer's location will determine the type of service supplied to the customer.

109.2 Architects, engineers, contractors, electric dealers, wiremen and others must confer with local representatives of the Company to determine the type of service that will be available before designing or preparing specifications for new electrical installations or alterations to existing installations.

109.3 In all cases involving large installations and other cases where any doubt exists, full information as to the type of service available should be obtained from the Company.

110. Unauthorized Use of Service

110.1 Unauthorized use of service is defined as any deliberate interference that results in a loss of revenue to the Company. Violators are subject to prosecution.

110.2 Types of unauthorized use of service include, but are not limited to, the following:

- (a) Bypass around meter.
- (b) Meter reversed.
- (c) Equipment connected ahead of meter.
- (d) Tampering with meter that affects the accurate registration of electric usage.
- (e) Electricity being used after service has been discontinued by the Company.

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110.3 In the event that there has been unauthorized use of service, customer shall be charged for:

- (a) All costs associated with investigation or surveillance;
- (b) Estimated charge for non-metered electricity;
- (c) All time to correct situation;
- (d) Any damage to Company property.

110.4 A customer's service disconnected for unauthorized use of service shall be reconnected after the customer has furnished satisfactory evidence of compliance with Company's rules and conditions of service, and paid any charges which are due, including:

- (a) All delinquent bills, if any;
- (b) The amount of any Company revenue loss attributable to said tampering;
- (c) Expenses incurred by the Company in replacing or repairing the meter or other equipment, costs incurred in the preparation of the bill, plus costs as outlined in Paragraph 110.3;
- (d) Applicable reconnection fee;
- (e) A cash deposit, the amount of which will not exceed the maximum amount determined in accordance with rules of the ~~applicable-Regulatory~~ Commission.

111. Unauthorized Attachments to Poles

111.1 The unauthorized attachment of any flags, banners, signs, clotheslines, antennas, etc. to Company poles is prohibited. The use of poles for placards or other advertising matter is forbidden. The Company will remove such unauthorized attachments without notice and may prosecute any such trespassers.

111.2 Customers are cautioned to locate antennas so that they are beyond falling distance from the Company's lines, either transmission or distribution. Antennas and lead-ins shall be located a safe distance from and shall never cross over or under the Company's lines or contact the Company's poles. The Company disclaims

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all responsibility where such equipment contacts the Company's lines, poles or equipment.

Section 200 - USE OF ELECTRIC SERVICE

201. Rate Schedules

Electric service will be billed under the rate schedule that applies to the class of service used. Rate schedules applicable to various classes of service may be obtained from the Company upon request.

202. Resale of Energy

The Company will not supply energy for resale except as expressly covered by special contract or where such provision is a part of the rate schedule.

203. Temporary Service

Temporary service is any service for construction work, carnivals, gravel pits, occasional lighting, etc., which is not expected to continue in use for a period long enough to justify the construction cost necessary for extending service. When temporary service is desired the customer shall, in addition to paying the scheduled rates, make deposit in advance in the amount of the Company's estimated cost of installing and furnishing such temporary service facilities together with the cost of disconnecting and removing same and the estimated billing to the customer for electric service. Final billing will reflect credit for the salvage value of materials used in providing the temporary service. Any deficiency in such advance payment shall be paid by the customer upon presentation of a bill by the Company. Any amount deposited in excess of final billing by the Company will be refunded to the customer.

204. Standby Service

Where electric service is supplied as standby to a customer's generating facilities or vice versa, the customer shall provide and install at the customer's expense a suitable double-throw switch or other device which will completely isolate the customer's power facilities from the Company's system. The service entrance shall be installed so that the phase conductors will be totally isolated from the customer's wiring before the standby unit is put into operation.

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205. Parallel Service

Parallel operation of the customer's generating equipment with the Company's system shall be permitted to the extent provided in other approved rates.

206. Transformer Installations on the Customer's Premises

206.1 The Company will supply transformers to be installed on the customer's premises when requested by the customer and in accordance with the following paragraphs.

206.2 The customer shall agree to indemnify and **savehold** the Company harmless from any loss, damage, expense or liability, incurred or arising from, or out of the installation, operation, maintenance, repair or removal of its transformers, cables, conductors, apparatus and all other Company property, material or equipment placed on the customer's premises.

206.3 Company's power or distribution transformers will not be installed in the customer's building.

206.4 The Company will furnish, own and maintain conventional oil filled transformers at no cost to the customer. However, where dry type transformers, transformers containing a nonflammable insulating coolant or oil filled transformers of special voltage or design are required they shall be owned, installed and maintained by the customer at the customer's expense.

206.5 Padmount transformers may be installed on customer's premises. The customer shall furnish a suitable concrete pad, conduit, ground rod and service conductors as noted in Figure 5. Where the customer has more than four parallel conductors, a cable junction enclosure and conduit to the transformer location may be required. The customer shall consult with the Company to determine when a cable junction enclosure is required.

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206.6 Where the transformer is installed adjacent to an asphalt or concrete driveway, parking lot, or walkway, the customer shall provide conduit from the transformer location to a point beyond the driveway, parking lot, or walkway to accommodate the Company's primary voltage cable. The customer shall provide barriers and clear zones to protect transformer from damage and to allow proper cooling and access to conductor compartments. The customer shall consult with the Company to determine the proper size conduit and protective barriers.

206.7 Refer to Figure 5 for additional information on transformer location.

207. Overhead to Underground Primary Conversion

When requested by property owners, underground distribution and services will be provided to replace existing overhead distribution to a group of owners cooperating with one another, providing:

- (a) There exists a sufficient number (25) of homes on contiguous lots that are available for the conversion. At the Company's option, smaller groups could be acceptable.
- (b) The terrain and other soil conditions are suitable for installation of underground facilities.
- (c) Easements will be granted at no cost to the Company, wherever installed facilities are on private land.
- (d) The customer, at customer's expense, must adapt the customer's electrical facilities to accept an underground service.
- (e) The customer, or group of customers, provide payment for the cost of removal of overhead facilities and total installed cost, multiplied by the fractional life remaining, less the salvage value of the removed equipment. The customers may also be required to reimburse the Company for other reasonable and prudent costs in excess of the Company's standard installation that results from the installation of the requested underground distribution.

Section 300 - ELECTRIC SERVICE AVAILABLE

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301. Frequency

All service supplied by the Company is alternating current at a nominal frequency of 60 Hertz.

302. Secondary Voltages (See also Section 400.)

302.1 In general, the following classes of service are normally supplied:

<u>Phase</u>	<u>Wires</u>	<u>Nominal Voltage</u>	<u>Nominal Service</u>
1	3	120/240	Single Phase Lighting & Power
3	4 Delta	120/240	Combined Light & Power *
3	4 Wye	208 Grd Y/120	Combined Light & Power
3	4 Wye	480 Grd Y/277	Combined Light & Power **
3	4 Delta	240/480	Combined Light & Power *

*Overhead Primary (Only allowed by special request – see Section 302.3)

**Underground Primary

Note: The Company follows the provisions of ANSI C84.1; latest revision, Electric Power Systems and Equipment – Voltage Ratings (60 Hertz)

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302.2 Only one class of service voltage is provided to a single customer location.

302.3 Service at other voltages may be made available for approved loads upon special application to the Company. Supplying such service may require special construction and equipment by the customer and the Company. The details of such construction and equipment are subject to negotiation between the Company and the customer before service is supplied.

302.4 As the voltage and number of phases which will be supplied depend upon the character of the load, its size, and location, it is necessary that the customer consult with the Company regarding the type of service which will be furnished before proceeding with the purchase of equipment or the installation of wiring. (Refer to Paragraph 109)

302.5 The customer's wiring for single phase installations shall be such that the difference in loads on each side of the supply neutral shall not exceed 10% of the total load.

302.6 For three phase grounded wye installations, the load shall be balanced so that the difference in loads on the separate phases shall not exceed 10% of the total load.

303. Primary Voltages (See also Section 500.)

Service may be made available at primary voltage of 2400 volts or higher. The available primary voltage is dependent upon the local primary voltage.

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Section 400 - SECONDARY VOLTAGE SERVICE (Under 600 Volts)

401. Secondary Voltage Service Connections

The location of the service connection is subject to approval by the Company. The Company will cooperate with the customer to the fullest extent practicable in determining such location. Once established, any change by the customer may result in billing to the customer for any additional work or materials required by the Company.

402. Service Connections and Disconnections

All connections or disconnections of overhead or underground services, regardless of the voltage, will be made by the Company at the point where the Company's facilities join those of the customer. No customer or agent of the customer will be authorized to make such connections or disconnections. (Refer to Paragraphs 103.1, 107 and 108.)

403. Number of Service Drops

In general, one service drop will be installed for each customer location. Exceptions will be made in special cases where it is mutually advantageous to the customer and the Company.

404. Services in Raceways

Where services are installed in raceways, the installations must comply with the requirements of the latest edition of the National Electrical Code. In addition, metered conductors shall not be installed in the same raceway as unmetered service conductors.

405. Service Entrance Requirements

405.1 The Company recommends that the service entrance for single family residences be not less than 100 ampere. The service entrance shall be sized and installed in accordance with provisions of the National Electrical Code, state code, and local ordinances. Bare neutral wire shall not be installed in ~~metallic~~ conduit due to the possibility of radio interference.

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405.2 Ample length of service entrance conductor shall be left protruding from the service head and at padmount equipment facilities to allow for proper connection to the service drop for overhead installations and to padmount equipment terminals.

405.3 When entrances are parallel in two or more conduits, all phases shall be run in each conduit and all wires shall be of the same length.

406. Identification of Conductors

406.1 For purposes of identification, the neutral wire of each single phase entrance shall be clearly marked at the service outlet as well as at the meter location.

406.2 Where 4-wire, three phase service entrances are installed, the neutral conductor and the "wild" phase conductor (nominal 208 volts to ground) shall each be clearly marked at the service outlet, at the meter and at service equipment.

407. Overhead Service Drops

407.1 The service entrance shall preferably be through the eave and be located so the overhead service drop will be as short as practical and maintain all clearance requirements. (Refer to Figure 1 and Paragraph 407.4).

407.2 In cases where proper clearances cannot be maintained by attaching the service drop directly to the building, the customer shall install and maintain a supporting structure of sufficient mechanical strength to support the wires and of sufficient height to provide the necessary clearances.

407.3 The customer shall furnish and install the necessary facilities for firmly mounting a Company supplied service drop attachment.

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407.4 Service drop conductors shall not be readily accessible and when not in excess of 750 volts, shall conform to the following general requirements. (refer to the National Electrical Safety Code for possible exceptions.):

Clearance over roof – Multiplex service drop conductors shall have the following minimum clearance over a roof:

10.0 feet - from the highest point of roofs or balconies over which they pass with the following exceptions:

Exception 1: The clearance ~~shall~~ may be maintained at not be less than 3.0 feet above roof or balcony not readily accessible.

Exception 2: Where a roof or a balcony is not readily accessible, and a service drop passes over a roof to terminate at a (through-the-roof) raceway or approved support located not more than 4.0 feet, measured horizontally from the edge of the roof, the clearance above the roof shall be maintained at not less than 1.5 feet for a horizontal distance of 6.0 feet from the raceway or support, and shall be maintained at not less than 3.0 feet for the remainder of the horizontal distance that the cable or conductor passes over the roof.

Note: A roof or balcony is considered readily accessible to a person, on foot, who neither exerts extraordinary physical effort nor employs special tools or devices to gain entry.

Clearance from ground – Multiplex service drop conductors shall have the following minimum clearance from ground:

18.0 feet - over roads, streets and other areas subject to truck traffic. Trucks are defined as any vehicle exceeding 8 feet in height.

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- 18.0 feet - over driveways, parking lots and alleys. This clearance may be reduced to the following values:
- (1) 17 feet - where multiplex service drops cross over or run along alleys, driveways, or parking lots.
 - (2) ~~17 feet~~ If the height of attachment to a building or other installations does not permit these requirements:
 - (a) 14 feet - over residential driveways for multiplex service drops limited to 150 volts to ground.
 - (b) 10 feet - over residential driveways for drip loops of service drops limited to 150 volts to ground.

- 14.0 feet - over spaces or ways accessible to pedestrians or restricted traffic only. This clearance may be reduced to the following values:
- (1) If the height of attachment to a building or other installations does not permit these requirements:
 - (a) 12 feet - for multiplex service drops limited to 150 volts to ground.
 - (b) 10 feet - for drip loops of service drops limited to 150 volts to ground.

- 24.5 feet - over swimming pools, or within 10 feet, measured horizontally, of the pool edge. In addition, there must be 16.5 feet clearance measured in any direction from every point on a diving platform or tower.

The vertical clearance is derived using the latest edition of the National Electrical Safety Code rule and, where necessary, adding 2 feet for vertical movement safety factor adopted by Company.

408. Secondary Voltage Underground Service

408.1 Where the customer desires an underground service, the customer must furnish and install conduit from the line side of the meter socket to a point a minimum of 18 inches below grade. (Refer to Figure 1.) The customer shall also provide necessary conduit for services under any asphalt or concrete driveway, walkway, parking lot, or other areas where it is impractical to excavate.

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408.2 If a customer requests to convert from an overhead service to an underground service, the customer must provide all necessary changes to the service entrance, including relocation, and the conduit described in 408.1 above. The customer must also provide a Company approved trench ready to accept the underground service conductors including back filling, surface restoration and any future settlement or erosion. If the customer requests the Company to provide this work, the Company will charge the customer for this service. In addition, if the service length is less than 150 feet, a fee equal to the Company's labor and equipment costs to convert the average 100 feet service line will be charged. If the service length is greater than 150 feet the customer will pay a fee equivalent to the Company's -actual labor and equipment costs for the conversion.

409. Mobile Home Service

The customer shall install and maintain the metering pedestal or meter socket and meter mounting device. The customer, as the term is used in this section, is considered to be the mobile home court owner for installations in approved mobile home courts and the mobile home owner for installations on a private lot.

Section 500 - PRIMARY VOLTAGE SERVICE (2400 Volts or More)

501. General

The Company offers electric service at primary voltages of 2400 volts or higher. A customer desiring to take service at primary voltage shall furnish and own ~~the all electrical~~ equipment from the point of delivery and shall consult the Company to assist in determining the size, type and arrangement of service entrance equipment and conductor specifications required for the customer's particular needs.

502. Service Entrance Equipment

The service entrance equipment shall perform the following functions:

- a. Isolate the load from the supply circuit by visible means.
- b. Automatically break the circuit in the event of overload.
- c. Permit manual opening of the circuit at full load.

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503. Overcurrent Protection

The need for overcurrent protective coordination requires consultation with the Company. Overcurrent protective devices may be as follows:

- a. Fuses
- b. Automatic trip circuit breakers

The overcurrent protective device must have an interrupting rating, at circuit voltage, equal to or exceeding the maximum short circuit current available at the location where service is taken.

504. Disconnecting Means

504.1 The disconnect switch shall provide visible evidence that the circuit to which it is applied is open or disconnected. It shall be located on the supply side of the circuit.

504.2 Where fuses are used, the disconnect switch shall be a gang operated load break switch.

504.3 Where automatic circuit breakers are used as circuit protective equipment, the disconnect switch can be non-load break.

505. Load Balance

Loads on the three phases shall be balanced as closely as possible. The maximum unbalance permitted between individual phase loads is 10% of the total three phase load.

Section 600 – METERING

601. General

The Company will install the necessary meters to measure the electrical energy delivered under each account for a particular class of service.

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602. Meter Installations

602.1 The Company will furnish all meters required for billing purposes. It shall be the customer's responsibility to furnish, install and maintain the meter mounting device. The customer will utilize Company approved specifications for electric meter sockets from a Company approved list of manufacturers and models as posted on the Company's website. Company approved specifications for electric meter sockets and metering transformer enclosures are listed below:

Self-Contained Meter Sockets – Single Phase, Three Phase and Multiple Position Type

1. U.L. approved, ringless style.
2. 100 ampere minimum for overhead service installations.
3. 150 ampere minimum for underground service installations.
4. Stud connectors are required for all sockets rate 320 amps or greater.
5. For sockets rated below 320 amps, stud connectors are recommended. Only Company specified meter sockets are approved with lay-in connectors.
46. Equipped with a fifth terminal in the nine o'clock position where network metering is required.
57. A lever by-pass feature ~~is~~ required for all commercial and industrial installations. Upon review by Company, an exemption may be provided.
68. A lever by-pass feature is recommended for all residential installations.

Metering Transformer Rated Meter Socket

1. U.L. approved, ringless style with a one piece cover.
2. Minimum size must provide space for test switch installation, and phase shifting transformer where required.
3. Socket must have six terminals for single phase and 13 terminals for all other configurations. Customer must provide hub closing plate.
4. Automatic by-pass feature is not acceptable.
5. Consult with Company prior to purchasing any instrument rated socket.

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Metering Transformer Enclosure (Secondary Service)

1. Recommend a durable, weather-resistant finish and weatherproof seal.
2. Must be provided with hinge-type cover and provisions to attach locking or sealing device.
3. Minimum size 10" x 24" x 30" with suitable mounting brackets for current and voltage transformers. For 480 volt service, enclosures must be sized to include room to mount voltage transformers or a separate weatherproof enclosure may be provided by the customer to mount voltage transformers.
4. Consult with Company prior to purchasing any metering transformer enclosure.

602.2 Self-contained rated meter sockets shall, ~~where possible,~~ be placed outdoors.

602.3 On instrument rated meter sockets, the Company will furnish and install the metering transformers. ~~Where practical, s~~Such meter sockets shall be arranged for outdoor metering. (Refer to Figures 2 and 3.)

602.4 Where a secondary metering transformer enclosure is required, the customer shall furnish and install an enclosure. Such enclosures shall contain only the service entrance conductors and metering transformers. The metering transformers shall be installed on the line side of the customer's disconnecting device. Suitable lugs, connectors, etc. for connecting metering transformers to service mains shall be provided by the customer. (Refer to Paragraph 602.1)

602.5 For installations having switchboards, the metering transformers may be mounted in the switchboard bus, provided they are accessible for changing and testing. Metering transformers shall be mounted on the source side of the main switch.

602.6 Meters and test switches may be mounted on a suitable unhinged panel adjacent to the metering transformer enclosure.

602.7 No device other than a Company-owned or Company-approved device shall be placed into the meter socket.

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603. Meter-Switch-Fuse Wiring Sequence

For all secondary voltage metering installations the meter, entrance switch and main line fuse or breaker shall be installed in the order named with respect to power flow.

All circuits downstream from the meter shall have proper overcurrent protection devices. A customer-owned ~~main service switch~~ non fused rated disconnect shall be installed on the source side of all 480 volt, self-contained meters. This switch shall be located no closer than three feet either left or right of the meter socket, and the switch cover is sealed by the Company.

604. Meter Locations

604.1 Each meter shall be located outdoors in a place of convenient access where it will not create a hazard. The location shall be agreed upon by the customer's ~~representative~~ and the Company. (Refer to Figure 1-)

604.2 Meters shall be located so that there is not less than 3 feet of unobstructed space, from the ground up, in front of the meter so that the center line of the meter is not less than 4 feet nor more than 5 feet above the floor, ground, or permanent platform from which the reading will be taken. On group installations, the minimum height is 2 feet – 6 inches and the maximum is 6 feet. The minimum center spacing between meter sockets shall be 7 ½ inches horizontally and 8 ½ inches vertically.

604.3 Meter sockets shall be permanently mounted on secure structures such as houses, buildings, poles, etc. All required conduit will be provided by customer. (Refer to Figures 1, 2, and 3)

604.4 Enclosures shall not be placed over the meter socket unless approved by the Company.

605. Outdoor Metering

~~Outdoor meters shall be permanently mounted on secure structures such as houses, buildings, poles, etc. Enclosures shall not be placed over the meter~~

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~~socket unless approved by the Company. All required conduit will be provided by the customer. (Refer to Figures 1, 2, and 3.)~~

606.—Indoor Metering

Meters shall be located outdoors as noted in Paragraph 604.1. However, depending on the circumstance and after consulting with the Company, locating the meters indoors may be approved on a case by case basis. Where approved, indoor meters for multiple dwellings, large office buildings, etc. shall be grouped and located as near the service entrance location as practicable.

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6076. Wiring Diagrams

Typical wiring diagrams for various types of self-contained meters are shown on Figure 4. These are subject to change from time to time with advancement in available metering equipment.

6087. Labeling

Where two or more meter mounting devices are installed at one location, each shall be labeled so that it may be identified as to the customer served. Electrical contractors are requested and cautioned to check and identify wiring circuits carefully to avoid metering errors due to incorrect circuitry. Permanent (mechanically fastened) engraved plates shall be placed on the exterior of the meter base on a non-removal panel.

6098. Seals

All meters and all points of access to customer wiring on the source side of the meter will be sealed by the Company. All cabinets and switch boxes, either inside or outside of the building, which contain unmetered wires shall have provisions made for sealing before service will be supplied.

Section 700 - UTILIZATION EQUIPMENT

701. Interfering Loads

Whenever a customer's utilization equipment has characteristics which cause undue interference with the Company's service to other customers, the customer shall provide, at the customer's expense, the necessary equipment to prevent or eliminate such interference. The Company may install and maintain at the customer's expense the necessary equipment to eliminate such interference if it deems it advisable. When a customer's equipment or method of operation causes such interference and the customer does not correct the condition after being so requested by the Company, the Company reserves the right to discontinue the electric service, following written notification of its intent to do so; and service will not be re-established until the conditions complained of have been corrected.

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702. Voltage Flicker and Harmonics

702.1 The Company uses the latest revision of the IEEE Standard 141 as the guideline for the maximum allowable voltage flicker that can be caused by a customer's load as measured at the point of metering. This guideline refers to the momentary dip in voltage that may result from the customer's operation of switches, starting of motors, etc.

702.2 Customer's electric load shall comply with the recommendations within Section 10 of the latest revision of the IEEE Standard 519 "Recommended Practices & Requirements for Harmonic Control in Electric Power Systems" at the point of metering connection.

703. Power Factor

Whenever the customer's utilization equipment is of such characteristics as to produce a low power factor, the Company reserves the right to require the customer to raise such power factor, at the customer's expense, or to pay additional charges as provided in certain of the Company's rates on file with the ~~Regulatory Commission of the state wherein the customer is located.~~

704. X-Ray Equipment

At the option of the Company, x-ray equipment may be separately metered and/or supplied from separate transformers.

705. Electric Welders

Electric welding apparatus shall require special arrangements with the Company to determine its ability to serve before installation is made. (Refer to Paragraph 703.)

706. Electric Motors

706.1 Motors are normally designed to operate at their rated voltage, plus or minus 10%; thus a 220 volt motor should operate satisfactorily at 208 volts or 240 volts.

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706.2 To assure adequate safety to personnel and equipment, the customer shall provide and maintain protective devices in each phase to protect all motors against overloading, short circuits, ground faults and low voltage, and to protect all three-phase motors against single-phasing and phase reversal.

706.3 Motors for use at 120 volts single-phase are limited to locked rotor currents of 25 amperes if started more than 4 times per hour, and 50 amperes if started less frequently.

Motors for use at 208 or 240 volts single-phase will generally be limited to 3 h.p. and a maximum of 4 starts per hour. The Company must be consulted for single-phase motors above 3 h.p. Compensating starting equipment may be required to limit the starting current and when required, shall be furnished by the customer. (Refer to Paragraph 702)

706.4 The size of three-phase motors permitted will depend upon the effect starting the motor has upon the customer's system and the Company's other customers in the area. This effect will depend upon the magnitude of the starting current and the frequency of starting. (Refer to Paragraph 702)

When necessary, the customer will be required to reduce the amount of starting current to an acceptable level by installing suitable motor-starting equipment or by using motors designed for smaller starting currents.

706.5 When more than one motor can start simultaneously, the sum of the maximum starting currents of those motors starting simultaneously and also the sum of their horsepower rating shall be furnished to the Company to determine when reduced voltage starting may be required.

707. Flashing Display Signs

The Company reserves the right to refuse service for "flashing" display signs or display lighting where such service would interfere with voltage regulation of the secondary system.

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708. Fluorescent and Gaseous Tube Lighting

High power factor ballasts or transformers must be used for fluorescent, sodium vapor, neon or other gaseous tube lighting equipment. It is required that such equipment operate at a power factor of not less than 90% lagging.

709. Electric Heat Equipment

A customer planning to install resistance type heating, heat pump, electric furnace, electrode boiler, etc. shall consult with the Company, before purchasing the equipment, so that operational modes of this equipment are determined to be acceptable for connection to the Company's distribution system. It is important that consultation is obtained prior to installation of this equipment so the Company can provide adequate capacity to efficiently serve the customer's requirements.

710. Computers and Electronic Equipment

Computers and other sensitive electronic equipment which require high grade, uninterrupted power may, on occasion, experience problems when connected directly to the Company's distribution system. The customer should contact their equipment supplier or consultant to ascertain the need for lightning arresters, surge suppressors, isolation transformers, and standby or uninterruptible power supplies. (Refer to Paragraph 104.2)

711. Carrier Equipment

The customer shall not impose, or cause to be imposed, any electric signal of any frequency or magnitude upon the Company's distribution system.

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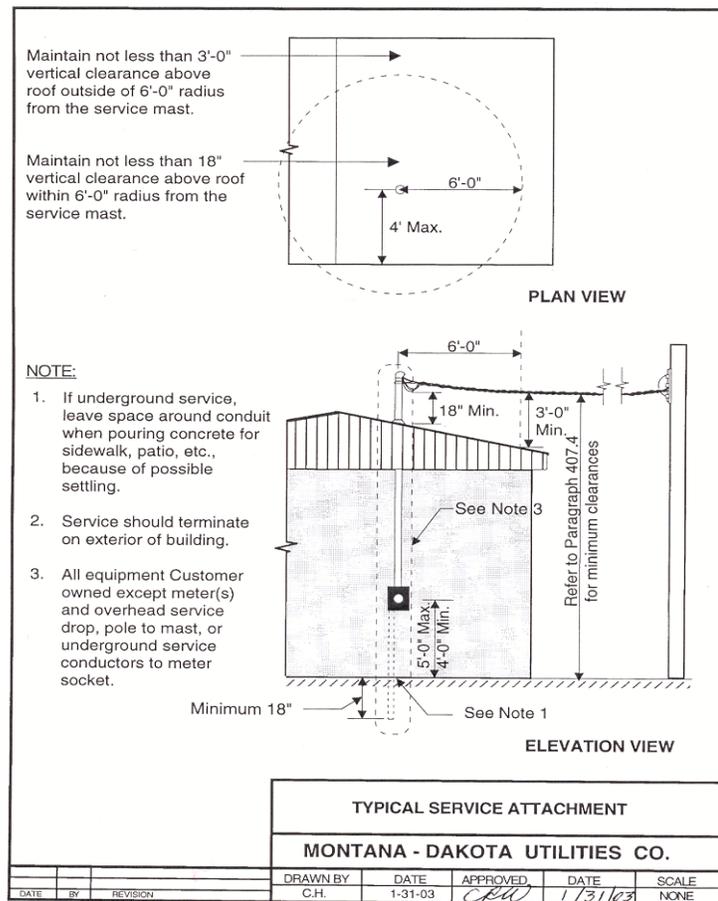


FIGURE 1

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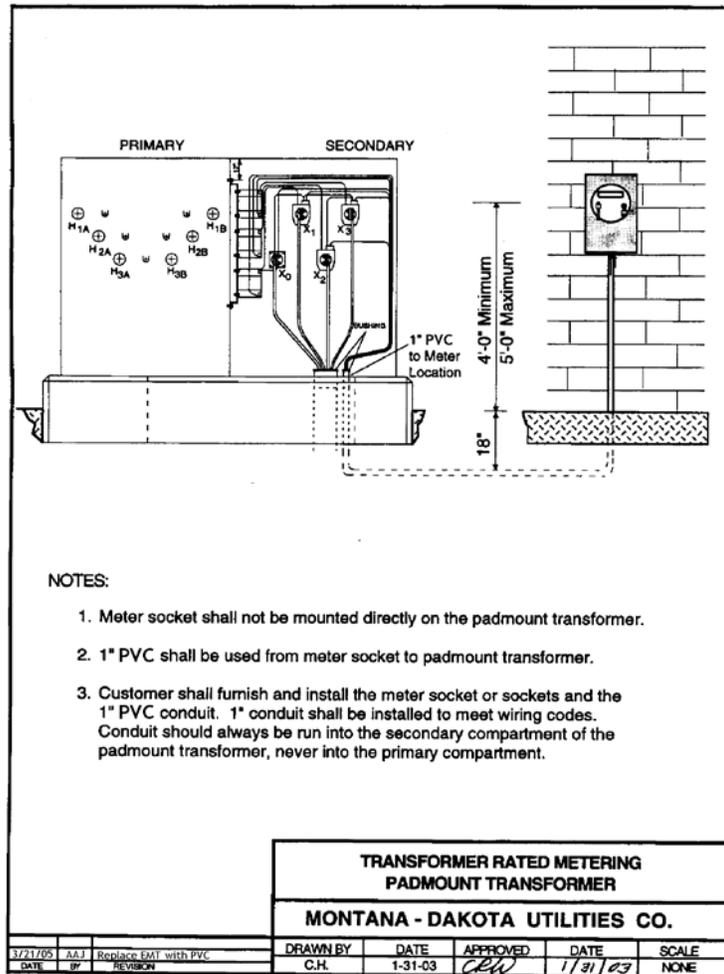


FIGURE 2

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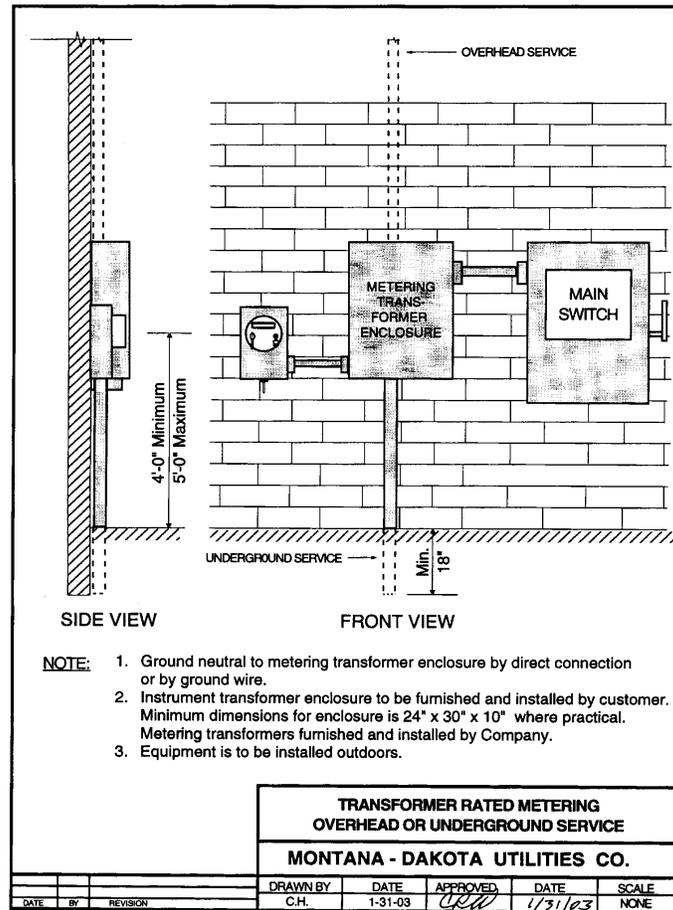


FIGURE 3

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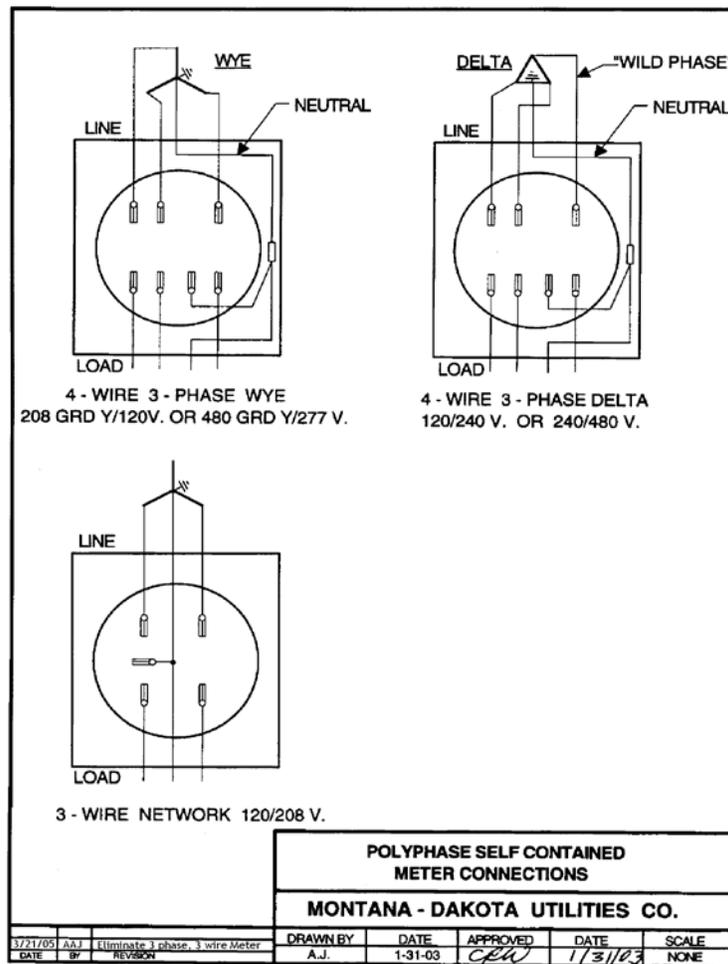


FIGURE 4

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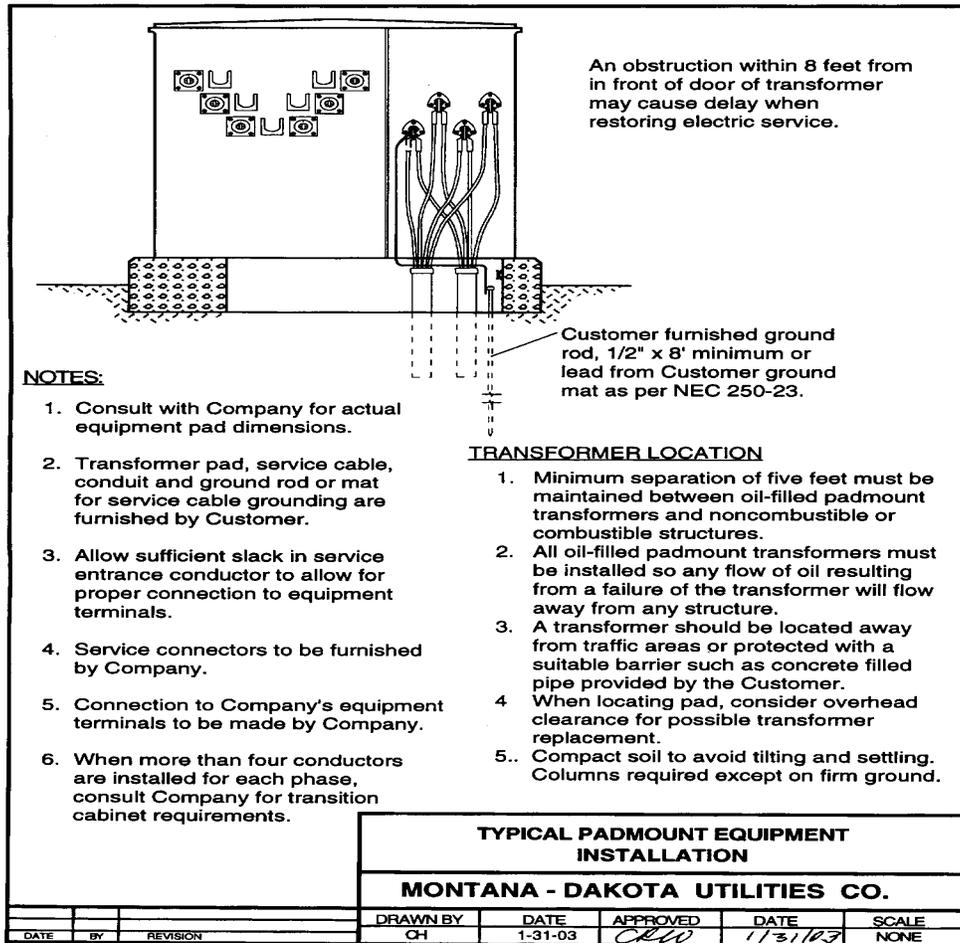


FIGURE 5

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RESIDENTIAL ELECTRIC SERVICE Rate 10

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AVAILABILITY:

In all communities served for single-phase residential electric service for domestic purposes only.

RATE:

Basic Service Charge: \$0.18 per day

Energy Charge:

October – May 7.167¢ per Kwh

June – September 5.067¢ per Kwh

Base Fuel and Purchased Power: 2.516¢ per Kwh

MINIMUM BILL:

Basic Service Charge.

PAYMENT:

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

ADJUSTMENT CLAUSES:

Bills are subject to the following adjustments as provided in the referenced rates, or any amendments or alterations thereto:

- Electric Universal System Benefits Charge Rate 55
- Fuel and Purchased Power Cost Tracking Adjustment Rate 58

GENERAL TERMS AND CONDITIONS:

1. Low-Income Discount: Customers qualifying for and receiving energy assistance through the Low Income Energy Assistance Program (LIEAP) administered by the State of Montana Department of Public Health and Human Services (DPHHS) shall obtain a discount from the amount billed under this rate schedule. The applicable discount, as set forth below, will be administered

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based upon the percentage of poverty guidelines established by DPHHS and information supplied to the Company by DPHHS at the time the customer qualifies for LIEAP.

<u>% Of Federal Poverty</u>	<u>Discount Rate</u>
0-60%	30%
61%-90%	25%
91%-maximum allowed	20%

- The foregoing schedule is subject to Rates 100-131 and any amendments or alterations thereto or additional rules and regulations promulgated by the Company under the laws of the state.

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OPTIONAL RESIDENTIAL ELECTRIC THERMAL ENERGY STORAGE SERVICE Rate 13

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AVAILABILITY:

In all communities served for single-phase residential electric for customers operating Company approved thermal energy storage facilities for the purpose of utilizing off-peak electric energy for space conditioning purposes where electric space heating is the primary heating source. Service under this rate is not available when another energy source provided by the Company is utilized as a back-up heating source.

RATE:

Basic Service Charge: \$0.28 per day

Off-Peak Energy Charge:

For all energy used during the designated hours of 10:00 p.m. to 8:00 a.m. local time.

October – May 2.567¢ per Kwh

On-Peak Energy Charge:

For all energy not covered by the Off-Peak rating period:

October – May 5.067¢ per Kwh

June – September 7.167¢ per Kwh

Base Fuel and Purchased Power: 2.516¢ per Kwh

MINIMUM BILL:

Basic Service Charge.

PAYMENT:

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

ADJUSTMENT CLAUSES:

Bills are subject to the following adjustments as provided in the referenced rates, or any amendments or alterations thereto:

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- Electric Universal System Benefits Charge Rate 55
- Fuel and Purchased Power Cost Tracking Adjustment Rate 58

General Terms and Conditions:

1. Low-Income Discount: Customers qualifying for and receiving energy assistance through the Low Income Energy Assistance Program (LIEAP) administered by the State of Montana Department of Public Health and Human Services (DPHHS) shall obtain a discount from the amount billed under this rate schedule. The applicable discount, as set forth below, will be administered based upon the percentage of poverty guidelines established by DPHHS and information supplied to the Company by DPHHS at the time the customer qualifies for LIEAP.

<u>% Of Federal Poverty</u>	<u>Discount Rate</u>
0-60%	30%
61%-90%	25%
91%-maximum allowed	20%

2. Thermal storage space heating facilities can include the thermal storage device(s), air-source heat pumps, and associated air handling units.
3. Unless approved by the Company the maximum thermal storage facilities that may be connected under this rate schedule is 50 Kw.
4. The foregoing schedule is subject to Rates 100-131 and any amendments or alterations thereto or additional rules and regulations promulgated by the Company under the laws of the state.

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OPTIONAL TIME-OF-DAY RESIDENTIAL ELECTRIC SERVICE Rate 16

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AVAILABILITY:

In all communities served for single-phase residential electric service. The customer's wiring must be arranged so that all service can be measured through one meter.

RATE:

Basic Service Charge:	\$0.35 per day
On-Peak Energy:	For all Kwh's used during peak hours designated as 12 p.m. to 8 p.m. local time, Monday through Friday.
	October – May 4.960¢ per Kwh
	June – September 8.116¢ per Kwh
Off-Peak Energy:	4.734¢ per Kwh for all energy not covered by the On-Peak rating period.
Base Fuel and Purchased Power:	2.516¢ per Kwh

MINIMUM BILL:

Basic Service Charge.

PAYMENT:

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

ADJUSTMENT CLAUSES:

Bills are subject to the following adjustments as provided in the referenced rates, or any amendments or alterations thereto:

- Electric Universal System Benefits Charge Rate 55
- Fuel and Purchased Power Cost Tracking Adjustment Rate 58

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GENERAL TERMS AND CONDITIONS:

- Customer agrees to contract for service under the Optional Time-of-Day Residential Electric Service rate for a minimum period of one year. At the end of a one-year period, customer shall have the option of remaining under the Optional Time-of-Day Residential Electric Service rate or of returning to the regular Residential Electric Service rate.
- Low-Income Discount: Customers qualifying for and receiving energy assistance through the Low Income Energy Assistance Program (LIEAP) administered by the State of Montana Department of Public Health and Human Services (DPHHS) shall obtain a discount from the amount billed under this rate schedule. The applicable discount, as set forth below, will be administered based upon information supplied to the Company by DPHHS at the time the customer qualifies for LIEAP.

<u>% Of Federal Poverty</u>	<u>Discount Rate</u>
0-60%	30%
61%-90%	25%
91%-maximum allowed	20%

- The foregoing schedule is subject to Rates 100-131 and any amendments or alterations thereto or additional rules and regulations promulgated by the Company under the laws of the state.

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By: Tamie A. Aberle
Regulatory Affairs Manager

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Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of Montana Electric Rate Schedule

Volume No. 4
6th Revised Sheet No. 10
Canceling 5th Revised Sheet No. 10

SMALL GENERAL ELECTRIC SERVICE Rate 20

Page 1 of 3

AVAILABILITY:

In all communities served for all types of general electric service with billing demands of 50 Kilowatts or less except outside lighting, standby, resale or other customers covered by special contracts or rate schedules applicable to specific services. The customer's wiring must be arranged so that all service can be measured through one meter. If the customer does not connect his wiring into a single system, each meter shall constitute a separate billing unit.

RATE:

Basic Service Charge:	\$0.54 per day
Primary Service:	
Demand Charge October – May:	
First 10 Kw or less of billing demand	No Charge
Over 10 Kw per month of billing demand	\$8.81per Kw
Demand Charge June – September:	
First 10 Kw or less of billing demand	No Charge
Over 10 Kw per month of billing demand	\$9.63per Kw
Energy Charge:	
October – May	2.727¢ per Kwh
June – September	4.797¢ per Kwh
Base Fuel and Purchased Power:	2.453¢ per Kwh
Secondary Service:	
Demand Charge October – May:	
First 10 Kw or less of billing demand	No Charge
Over 10 Kw per month of billing demand	\$9.41per Kw
Demand Charge June – September:	
First 10 Kw or less of billing demand	No Charge
Over 10 Kw per month of billing demand	\$10.29 per Kw

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By: Tamie A. Aberle
Director – Regulatory Affairs

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Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of Montana Electric Rate Schedule

Volume No. 4
6th Revised Sheet No. 10.1
Canceling 5th Revised Sheet No. 10.1

SMALL GENERAL ELECTRIC SERVICE Rate 20

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Energy Charge:	
October – May	2.837¢ per Kwh
June – September	4.907¢ per Kwh

Base Fuel and Purchased Power:	2.516¢ per Kwh
--------------------------------	----------------

MINIMUM BILL:

Basic Service Charge.

PAYMENT:

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

ADJUSTMENT CLAUSES:

Bills are subject to the following adjustments as provided in the referenced rates, or any amendments or alterations thereto:

- Electric Universal System Benefits Charge Rate 55
- Fuel and Purchased Power Cost Tracking Adjustment Rate 58

DETERMINATION OF BILLING DEMAND:

The demand in kilowatts for billing purposes shall be the maximum 15 minute measured demand in the current month. Demands will be determined to the nearest one-tenth kilowatt.

POWER FACTOR CLAUSE:

The Company reserves the right to require the customer to install adequate equipment so that at all times it can operate its facilities to maintain a power factor between 90% lagging and 90% leading. If the customer operates outside this range, the maximum 15 minute integrated reactive kilovolt amperes in excess of 50% of the maximum 15 minute integrated kilowatt demand for the same month will be billed at \$3.35 per Kvar of such excess demand.

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By: Tamie A. Aberle
Director – Regulatory Affairs

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Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of Montana Electric Rate Schedule

Volume No. 4
2nd Revised Sheet No. 10.2
Canceling 1st Revised Sheet No. 10.2

SMALL GENERAL ELECTRIC SERVICE Rate 20

Page 3 of 3

GENERAL TERMS AND CONDITIONS:

1. Customer or their architects, contractors and electricians should consult with the Company before proceeding to design or erect installations in which there will be a substantial electric load, to make sure their equipment will meet requirements and receive adequate service.
2. The primary service rate is applicable to customers that own their own transformers, related equipment, and distribution facilities downstream of the meter, satisfactory to the Company so customer can receive service and be metered at primary voltages of 2,400 volts or greater.
3. The foregoing schedule is subject to Rates 100-131 and any amendments or alterations thereto or additional rules and regulations promulgated by the Company under the laws of the state.

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Regulatory Affairs Manager

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Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of Montana Electric Rate Schedule

Volume No. 4
6th Revised Sheet No. 15
Canceling 5th Revised Sheet No. 15

IRRIGATION POWER SERVICE Rate 25

Page 1 of 2

AVAILABILITY:

For irrigation power service.

RATE:

Basic Service Charge:	\$0.58 per day
Demand Charge:	
October – May	\$1.64 per Kw
June – September	\$3.49 per Kw
Energy Charge:	2.113¢ per Kwh
Base Fuel and Purchased Power:	2.516¢ per Kwh

MINIMUM BILL:

Basic Service Charge.

PAYMENT:

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

ADJUSTMENT CLAUSES:

Bills are subject to the following adjustments as provided in the referenced rates, or any amendments or alterations thereto:

- Electric Universal System Benefits Charge Rate 55
- Fuel and Purchased Power Cost Tracking Adjustment Rate 58

DETERMINATION OF BILLING DEMAND:

The demand in kilowatts for billing purposes shall be the maximum 15 minute measured demand in the current month. Demands will be determined to the nearest one-tenth kilowatt. Customers whose loads have rapidly fluctuating and/or intermittent demand characteristics shall be subject to special rules and regulations.

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Director – Regulatory Affairs

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Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of Montana Electric Rate Schedule

Volume No. 4
1st Revised Sheet No. 15.1
Canceling Original Sheet No. 15.1

IRRIGATION POWER SERVICE Rate 25

Page 2 of 2

POWER FACTOR CLAUSE:

The Company reserves the right to require the customer to install adequate equipment so that at all times it can operate its facilities to maintain a power factor between 90% lagging and 90% leading. If the customer operates outside this range, the maximum 15 minute integrated reactive kilovolt amperes in excess of 50% of the maximum 15 minute integrated kilowatt demand for the same month will be billed at \$3.35 per Kvar of such excess demand.

GENERAL TERMS AND CONDITIONS:

The foregoing schedule is subject to Rates 100-131 and any amendments or alterations thereto or additional rules and regulations promulgated by the Company under the laws of the state.

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Regulatory Affairs Manager

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Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of Montana Electric Rate Schedule

Volume No. 4
6th Revised Sheet No. 16
Canceling 5th Revised Sheet No. 16

OPTIONAL TIME-OF-DAY SMALL GENERAL ELECTRIC SERVICE RATE 26

Page 1 of 3

AVAILABILITY:

In all communities served for all types of general electric service with billing demands of 50 Kilowatts or less except outside lighting, standby, resale, or other customers covered by special contracts or rate schedules applicable to specific services. The customer's wiring must be arranged so that all service can be measured through one meter.

RATE:

Basic Service Charge: \$26.50 per month

Primary Service:

On-Peak Demand Charge:

First 10 Kw or less of billing demand: No Charge

Over 10 Kw per month of billing demand:

October – May \$ 9.36 per Kw

June – September \$11.67 per Kw

Energy Charge October – May:

On-Peak 4.834¢ per Kwh

Off-Peak 2.632¢ per Kwh

Energy Charge June – September:

On-Peak 5.935¢ per Kwh

Off-Peak 2.632¢ per Kwh

Base Fuel and Purchased Power: 2.453¢ per Kwh

Secondary Service:

On-Peak Demand Charge:

First 10 Kw or less of billing demand: No Charge

Over 10 Kw per month of billing demand:

October – May \$ 9.63 per Kw

June – September \$11.94 per Kw

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Director – Regulatory Affairs

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Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.
400 N 4th Street
Bismarck, ND 58501

State of Montana Electric Rate Schedule

Volume No. 4
6th Revised Sheet No. 16.1
Canceling 5th Revised Sheet No. 16.1

OPTIONAL TIME-OF-DAY SMALL GENERAL ELECTRIC SERVICE RATE 26

Page 2 of 3

Energy Charge October – May:

On-Peak	4.944¢ per Kwh
Off-Peak	2.742¢ per Kwh

Energy Charge June – September:

On-Peak	6.045¢ per Kwh
Off-Peak	2.742¢ per Kwh

Base Fuel and Purchased Power: 2.516¢ per Kwh

On-Peak is defined as 12 p.m. to 8 p.m. local time, Monday through Friday.

Off-Peak is defined as all hours not covered by the on-peak period.

MINIMUM BILL:

Basic Service Charge.

PAYMENT:

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

ADJUSTMENT CLAUSES:

Bills are subject to the following adjustments as provided in the referenced rates, or any amendments or alterations thereto:

- Electric Universal System Benefits Charge Rate 55
- Fuel and Purchased Power Cost Tracking Adjustment Rate 58

DETERMINATION OF ON-PEAK BILLING DEMAND:

The demand in kilowatts for billing purposes shall be the maximum 15 minute measured demand for the on-peak period in the current month. Demands will be determined to the nearest one-tenth kilowatt.

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Director – Regulatory Affairs

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Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.
400 N 4th Street
Bismarck, ND 58501

State of Montana Electric Rate Schedule

Volume No. 4
2nd Revised Sheet No. 16.2
Canceling 1st Revised Sheet No. 16.2

OPTIONAL TIME-OF-DAY SMALL GENERAL ELECTRIC SERVICE RATE 26

Page 3 of 3

POWER FACTOR CLAUSE:

The Company reserves the right to require the customer to install adequate equipment so that at all times it can operate its facilities to maintain a power factor between 90% lagging and 90% leading. If the customer operates outside this range, the maximum 15 minute integrated reactive kilovolt amperes in excess of 50% of the maximum 15 minute integrated kilowatt demand for the same month will be billed at \$3.35 per Kvar of such excess demand.

GENERAL TERMS AND CONDITIONS:

1. Customers or their architects, contractors and electricians should consult with the Company before proceeding to design or erect installations in which there will be a substantial electric load, to make sure their equipment will meet requirements and receive adequate service.
2. The primary service rate is applicable to customers that own their own transformers, related equipment, and distribution facilities downstream of the meter, satisfactory to the Company so customer can receive service and be metered at primary voltages of 2,400 volts or greater.
3. Customer agrees to contract for service under the Optional Time-of-Day Small General Electric Service rate for a minimum period of one year. At the end of a one-year period, customer shall have the option of remaining under the Optional Time-of-Day Small General Electric Service rate or of returning to the regular Small General Electric Service rate.
4. The foregoing schedule is subject to Rates 100-131 and any amendments or alterations thereto or additional rules and regulations promulgated by the Company under the laws of the state.

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Regulatory Affairs Manager

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Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.
400 N 4th Street
Bismarck, ND 58501

State of Montana Electric Rate Schedule

Volume No. 4
6th Revised Sheet No. 18
Canceling 5th Revised Sheet No. 18

LARGE GENERAL ELECTRIC SERVICE Rate 30

Page 1 of 3

AVAILABILITY:

In all communities served for all types of general electric service exceeding 50 Kilowatts of billing demand except outside lighting, standby, resale or other customers covered by special contracts or rate schedules applicable to specific services. The customer's wiring must be arranged so that all service can be measured through one meter. If the customer does not connect his wiring into a single system, each meter shall constitute a separate billing unit.

RATE:

Primary Service:

Basic Service Charge: \$213.51 per month

Demand Charge:

October – May \$9.61 per Kw

June – September \$10.77 per Kw

Energy Charge: 1.885¢ per Kwh

Base Fuel and Purchased Power: 2.453¢ per Kwh

Secondary Service:

Basic Service Charge: \$80.36 per month

Demand Charge:

October – May \$9.83 per Kw

June – September \$11.01 per Kw

Energy Charge: 1.894¢ per Kwh

Base Fuel and Purchased Power: 2.516¢ per Kwh

MINIMUM BILL:

Basic Service Charge plus Demand Charge.

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Director – Regulatory Affairs

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Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of Montana Electric Rate Schedule

Volume No. 4
2nd Revised Sheet No. 18.1
Canceling 1st Revised Sheet No. 18.1

LARGE GENERAL ELECTRIC SERVICE Rate 30

Page 2 of 3

PAYMENT:

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

ADJUSTMENT CLAUSES:

Bills are subject to the following adjustments as provided in the referenced rates, or any amendments or alterations thereto:

- Electric Universal System Benefits Charge Rate 55
- Fuel and Purchased Power Cost Tracking Adjustment Rate 58

DETERMINATION OF BILLING DEMAND:

The demand in kilowatts for billing purposes shall be the greater of the maximum 15 minute measured demand in the current month or 50 Kw. Demands will be determined to the nearest one-tenth kilowatt. Customers whose loads have rapidly fluctuating and/or intermittent demand characteristics shall be subject to special rules and regulations.

POWER FACTOR CLAUSE:

The Company reserves the right to require the customer to install adequate equipment so that at all times it can operate its facilities to maintain a power factor between 90% lagging and 90% leading. If the customer operates outside this range, the maximum 15 minute integrated reactive kilovolt amperes in excess of 50% of the maximum 15 minute integrated kilowatt demand for the same month will be billed at \$3.35 per Kvar of such excess demand.

GENERAL TERMS AND CONDITIONS:

1. Customers or their architects, contractors and electricians should consult with the Company before proceeding to design or erect installations in which there will be a substantial electric load, to make sure their equipment will meet requirements and receive adequate service.
2. The primary service rate is applicable to customers that own their own transformers, related equipment, and distribution facilities downstream of the

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Regulatory Affairs Manager

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Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of Montana Electric Rate Schedule

Volume No. 4

2nd Revised Sheet No. 18.2

Canceling 1st Revised Sheet No. 18.2

LARGE GENERAL ELECTRIC SERVICE Rate 30

Page 3 of 3

meter, satisfactory to the Company so customer can receive service and be metered at primary voltages of 2,400 volts or greater.

3. The foregoing schedule is subject to Rates 100-131 and any amendments or alterations thereto or additional rules and regulations promulgated by the Company under the laws of the state.

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Regulatory Affairs Manager

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Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of Montana Electric Rate Schedule

Volume No. 4
6th Revised Sheet No. 19
Canceling 5th Revised Sheet No. 19

OPTIONAL TIME-OF-DAY LARGE GENERAL ELECTRIC SERVICE Rate 31

Page 1 of 3

AVAILABILITY:

In all communities served for all types of demand metered general electric service exceeding 50 Kilowatts of billing demand except outside lighting, standby, resale, or other customers covered by special contracts or rate schedules applicable to specific services. The customer's wiring must be arranged so that all service can be measured through one meter.

RATE:

Basic Service Charge: \$93.56 per month

Primary Service:

On-Peak Demand Charge:

October – May \$ 6.22 per Kw

June – September \$.14.83 per Kw

Energy Charge October – May:

On-Peak 4.041¢ per Kwh

Off-Peak 1.759¢ per Kwh

Energy Charge June – September:

On-Peak 5.182¢ per Kwh

Off-Peak 1.759¢ per Kwh

Base Fuel and Purchased Power: .2.453¢ per Kwh

Secondary Service:

On-Peak Demand Charge:

October – May \$ 6.85 per Kw

June – September \$15.40 per Kw

Energy Charge October – May:

On-Peak 4.061¢ per Kwh

Off-Peak 1.779¢ per Kwh

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Director – Regulatory Affairs

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Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of Montana Electric Rate Schedule

Volume No. 4

3rd Revised Sheet No. 19.1

Canceling 2nd Revised Sheet No. 19.1

OPTIONAL TIME-OF-DAY LARGE GENERAL ELECTRIC SERVICE Rate 31

Page 2 of 3

Energy Charge June – September:

On-Peak 5.202¢ per Kwh

Off-Peak 1.779¢ per Kwh

Base Fuel and Purchased Power: 2.516¢ per Kwh

On-Peak is defined as 12 p.m. to 8 p.m. local time, Monday through Friday.

Off-Peak is defined as all hours not covered by the on-peak period.

MINIMUM BILL:

Basic Service Charge.

PAYMENT:

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

ADJUSTMENT CLAUSES:

Bills are subject to the following adjustments as provided in the referenced rates, or any amendments or alterations thereto:

- Electric Universal System Benefits Charge Rate 55
- Fuel and Purchased Power Cost Tracking Adjustment Rate 58

DETERMINATION OF ON-PEAK BILLING DEMAND:

The demand in kilowatts for billing purposes shall be the maximum 15 minute measured demand for the on-peak period in the current month. Demands will be determined to the nearest one-tenth kilowatt. Customers whose loads have rapidly fluctuating and/or intermittent demand characteristics shall be subject to special rules and regulations.

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Director – Regulatory Affairs

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Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.
400 N 4th Street
Bismarck, ND 58501

**State of Montana
Electric Rate Schedule**

Volume No. 3
2nd Revised Sheet No. 19.2
Canceling 1st Revised Sheet No. 19.2

**OPTIONAL TIME-OF-DAY LARGE GENERAL ELECTRIC
SERVICE Rate 31**

POWER FACTOR CLAUSE:

The Company reserves the right to require the customer to install adequate equipment so that at all times it can operate its facilities to maintain a power factor between 90% lagging and 90% leading. If the customer operates outside this range, the maximum 15 minute integrated reactive kilovolt amperes in excess of 50% of the maximum 15 minute integrated kilowatt demand for the same month will be billed at \$3.35 per Kvar of such excess demand.

GENERAL TERMS AND CONDITIONS:

1. Customers or their architects, contractors and electricians should consult with the Company before proceeding to design or erect installations in which there will be a substantial electric load, to make sure their equipment will meet requirements and receive adequate service.
2. Customer agrees to contract for service under the Optional Time-of-Day Large General Electric Service rate for a minimum period of one year. At the end of a one-year period, customer shall have the option of remaining under the Optional Time-of-Day Large General Electric Service rate or of returning to the regular Large General Electric Service rate.
3. The primary service rate is applicable to customers that own their own transformers, related equipment, and distribution facilities downstream of the meter, satisfactory to the Company so customer can receive service and be metered at primary voltages of 2,400 volts or greater.
4. The foregoing schedule is subject to Rates 100-131 and any amendments or alterations thereto or additional rules and regulations promulgated by the Company under the laws of the state.

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Regulatory Affairs Manager

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Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of Montana Electric Rate Schedule

Volume 4
1st Revised Sheet No. 20
Canceling Original Sheet No. 20

GENERAL ELECTRIC SPACE HEATING SERVICE Rate 32

Page 1 of 3

AVAILABILITY:

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

RATE:

Basic Service Charge: \$17.36 per month

Primary Service:

Demand Charge:

October – May \$1.74 per Kw

June – September \$10.80 per Kw

Energy Charge: 1.890¢ per Kwh

Base Fuel and Purchased Power: 2.453¢ per Kwh

Secondary Service:

Demand Charge:

October – May \$2.03 per Kw

June – September \$11.10 per Kw

Energy Charge: 1.910¢ per Kwh

Base Fuel and Purchased Power: 2.516¢ per Kwh

MINIMUM BILL:

Basic Service Charge.

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Director – Regulatory Affairs

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Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of Montana Electric Rate Schedule

Volume 4
Original Sheet No. 20.1

GENERAL ELECTRIC SPACE HEATING SERVICE Rate 32

Page 2 of 3

PAYMENT:

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

ADJUSTMENT CLAUSES:

Bills are subject to the following adjustments as provided in the referenced rates, or any amendments or alterations thereto:

- Electric Universal System Benefits Charge Rate 55
- Fuel and Purchased Power Cost Tracking Adjustment Rate 58

DETERMINATION OF BILLING DEMAND:

The demand in kilowatts for billing purposes shall be the maximum 15 minute measured demand in the current month. Demands will be determined to the nearest one-tenth kilowatt. Customers whose loads have rapidly fluctuating and/or intermittent demand characteristics shall be subject to special rules and regulations.

POWER FACTOR CLAUSE:

The Company reserves the right to require the customer to install adequate equipment so that at all times it can operate its facilities to maintain a power factor between 90% lagging and 90% leading. If the customer operates outside this range, the maximum 15 minute integrated reactive kilovolt amperes in excess of 50% of the maximum 15 minute integrated kilowatt demand for the same month will be billed at \$3.35 per Kvar of such excess demand.

GENERAL TERMS AND CONDITIONS:

1. Customers or their architects, contractors and electricians should consult with the Company before proceeding to design or erect installations in which there will be a substantial electric load, to make sure their equipment will meet requirements and receive adequate service.

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Montana-Dakota Utilities Co.

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400 N 4th Street
Bismarck, ND 58501

State of Montana Electric Rate Schedule

Volume 4
Original Sheet No. 20.2

GENERAL ELECTRIC SPACE HEATING SERVICE Rate 32

Page 3 of 3

2. Primary service rate is applicable to customers that own their own transformers, related equipment and distribution facilities downstream of the meter, satisfactory to the Company so customer can receive service and be metered at primary voltages of 2,400 volts or greater.
3. The foregoing schedule is subject to Rates 100-131 and any amendments or alterations thereto or additional rules and regulations promulgated by the Company under the laws of the state.

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Montana-Dakota Utilities Co.

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400 N 4th Street
Bismarck, ND 58501

State of Montana Electric Rate Schedule

Volume No. 4
6th Revised Sheet No. 23
Canceling 5th Revised Sheet No. 23

CONTRACT SERVICE Rate 35

Page 1 of 5

AVAILABILITY:

For the Denbury Onshore LLC accounts designated in the Electric Service Agreement dated January 22, 1998, and October 28, 1998.

RATE:

Basic Service Charge:	\$84.94 per month
Demand Charge:	
October – May	\$5.63 per Kw
June – September	\$6.69 per Kw
Energy Charge:	1.915¢ per Kwh
Base Fuel and Purchased Power:	2.347¢ per Kwh

MINIMUM BILL:

Basic Service Charge plus Demand Charge.

PAYMENT:

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

ADJUSTMENT CLAUSES:

Bills are subject to the following adjustments as provided in the referenced rates, or any amendments or alterations thereto:

- Electric Universal System Benefits Charge Rate 55

DETERMINATION OF BILLING DEMAND:

The demand in kilowatts for billing purposes shall be the greater of the maximum 15 minute measured demand in the current month or 50 Kw. Demands will be determined to the nearest one-tenth kilowatt.

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Director – Regulatory Affairs

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Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of Montana Electric Rate Schedule

Volume No. 4
2nd Revised Sheet No. 23.1
Canceling 1st Revised Sheet No. 23.1

CONTRACT SERVICE Rate 35

Page 2 of 5

POWER FACTOR CLAUSE:

Montana-Dakota reserves the right to require Denbury Onshore LLC to install adequate equipment so that at all times it can operate its facilities to maintain a power factor between 90% lagging and 90% leading. If Denbury Onshore LLC operates outside this range, the maximum 15 minute integrated reactive kilovolt amperes in excess of 50% of the maximum 15 minute integrated kilowatt demand for the same month will be billed at \$3.35 per Kvar of such excess demand.

GENERAL TERMS AND CONDITIONS:

The foregoing schedule is subject to Rates 100-131 and any amendments or alterations thereto or additional rules and regulations promulgated by Montana-Dakota under the laws of the state.

FUEL AND PURCHASED POWER COST TRACKING ADJUSTMENT:

The following sets forth the procedure to be used in calculating the Electric Fuel and Purchased Power Cost (Fuel and Power Cost) Tracking Adjustment for Contract Service Rate 35. It specifies the procedure to be utilized to adjust the rates for electricity sold in order to reflect: (a) changes in Montana-Dakota's average cost of fuel and purchased power (b) amortization of the Unreflected Fuel Cost Account and (c) changes in Montana-Dakota's electric wholesale sales margins as allocated to Contract Service Rate 35.

1. EFFECTIVE DATE AND LIMITATION ON ADJUSTMENTS:

Unless otherwise ordered by the Commission, the effective date of the Fuel and Power Cost Tracking Adjustment and amortization of the Unreflected Fuel Cost Account shall be service rendered on and after January 1 each year.

2. FUEL AND POWER COST TRACKING ADJUSTMENT:

- a. The Fuel and Power Cost Tracking Adjustment shall reflect ninety (90) percent of the changes in Montana-Dakota's cost of fuel and purchased power as compared to the cost of fuel and purchased power approved in its base rates plus the annual Unreflected Fuel Cost Adjustment. The base

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A Division of MDU Resources Group, Inc.
400 N 4th Street
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State of Montana Electric Rate Schedule

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2nd Revised Sheet No. 23.2
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CONTRACT SERVICE Rate 35

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fuel cost shall be 2.347¢ per Kwh as established in the most recent general rate case.

- b. The cost of fuel and purchased power shall be calculated separately for Rate 35, and shall be the sum of the following estimated costs for the annual period the adjustment shall be in effect, as allocated to Montana and to Contract Service Rate 35, taking into account applicable line losses:
 - 1. The cost of fossil and other fuels and reagents as recorded in Account Nos. 501, 502 and 547.
 - 2. The net cost of purchases and costs linked to the utility's load serving obligation associated with participation in wholesale electric energy and capacity markets as recorded in Account 555, less;
 - 3. The cost of fuel and purchased power recovered from electric wholesale sales.
- c. The cost per Kwh for the year is the sum of 2(b) above divided by projected Contract Service Rate 35 sales volumes for the period the adjustment will be in effect.
- d. The difference between the base cost of fuel and purchased power and the calculated cost in 2(b) multiplied by ninety (90) percent.
- e. Ninety (90) percent of wholesale sales margin shall be divided by the projected Contract Service Rate 35 for the period the adjustment will in effect.
- f. The Annual Fuel and Power Cost Tracking Adjustment shall be the sum of 2(d) and 2(e).

3. UNREFLECTED FUEL COST ADJUSTMENT:

Contract Service Rate 35 shall be subject to an Unreflected Fuel Cost Adjustment to be effective on January of each year. The Unreflected Fuel Cost Adjustment per Kwh shall reflect amortization of the applicable balance in the Unreflected Fuel

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CONTRACT SERVICE Rate 35

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Cost Account calculated by dividing the applicable balance by the estimated Kwh sales for the twelve months following the effective date of the adjustment.

4. UNREFLECTED FUEL COST ACCOUNT:

- a. Items to be included in the Unreflected Fuel Cost Account are:
 - 1. Amounts under recovered or over recovered for fuel and purchased power each month as calculated in accordance with Subsection 4(b).
 - 2. Refunds received with respect to fuel and purchased power. Such refunds received shall be credited to the Unreflected Fuel Cost Account.
 - 3. 90 percent of the off-system sales margin amounts (over) or under the base amount established in the most recent rate case.
- b. The amount to be included in the Unreflected Fuel Cost Account in order to reflect the items specified in Subsection 4(a)(1) and (2) shall be calculated as follows:
 - 1. Montana-Dakota shall first determine each month the unit cost for that month's fuel and purchased power.
 - 2. Montana-Dakota shall then subtract from each month's unit cost the cost of fuel and purchased power included in rates for that month.
 - 3. The resulting difference (which may be positive or negative) shall be multiplied by ninety (90) percent and by the Kwh sold during that month under Contract Service Rate 35. 90 percent of the resulting amounts shall be reflected in an Unreflected Fuel Cost Account for each rate schedule.
 - 4. Carrying charges or credits at a rate equal to the overall rate of return established in the most recent general rate case.
- c. Reduction of Amounts in the Unreflected Fuel Cost Account:
 - 1. The amounts in the Unreflected Fuel Cost Account shall be decreased each month by an amount determined by multiplying the currently effective Unreflected Fuel Cost adjustment included in rates for that

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CONTRACT SERVICE Rate 35

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month (as calculated in Subsection 4) by the Kwh sold during that month under Contract Service Rate 35. The Account shall be increased in the event the adjustment is a negative amount. The amount amortized shall be applied pro rata between the Unrecovered Fuel Cost Account and the interest balance.

5. TIME AND MANNER OF FILING:

- a. Each filing by Montana-Dakota shall be made by means of a revised fuel and power cost schedule provided in Subsection 6 identifying the amount of the adjustment.
- b. Each filing shall be accompanied by detailed computations which clearly show the derivation of the relevant amounts.
- c. Effective April 1, 2017 the unrecovered balance of Public Service Commission and Montana Consumer Counsel taxes of \$399,742 shall be recovered from all classes on a percent of revenue basis with any over or under recovery of that amount included in the Unreflected Fuel Cost Account.

6. EFFECTIVE ADJUSTMENT:

Effective Date	Current Adjustment ¢ per Kwh	Amount of Change ¢ per Kwh
4/1/2017	(0.384¢)	0.094¢

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INTERRUPTIBLE LARGE POWER DEMAND RESPONSE Rate 38

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AVAILABILITY:

In all communities served for power to customers having a demand of 500 Kw or more for its interruptible load available for interruption for up to 100 hours annually. Electric energy for the interruptible load shall be supplied through a separately metered circuit at the same voltage and phase utilized to serve the balance of the customer's electrical load so arranged to allow remote operation by the Company.

TYPE OF SERVICE:

Service under this rate shall be taken by the customer at whatever primary voltage is available at the point of delivery but not less than 2,400 volts. In the event that it is necessary to build a substation on the Company's transmission line to serve the customer, the cost of building the substation shall be a matter of negotiation between the Company and the customer.

RATE:

Basic Service Charge: Specified in the electric service agreement with the Company.

Demand Charge:

October – May	\$4.61 per Kw
June – September	\$5.77 per Kw

Energy Charge: 1.885¢ per Kwh

Base Fuel and Purchased Power: 2.453¢ per Kwh

MINIMUM BILL:

Basic Service Charge plus the Demand Charge (500 Kw minimum).

PAYMENT:

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

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INTERRUPTIBLE LARGE POWER DEMAND RESPONSE Rate 38

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ADJUSTMENT CLAUSES:

Bills are subject to the following adjustments as provided in the referenced rates, or any amendments or alterations thereto:

- Electric Universal System Benefits Charge Rate 55
- Fuel and Purchased Power Cost Tracking Adjustment Rate 58

DETERMINATION OF BILLING DEMAND:

The demand in kilowatts for billing purposes shall be the greater of the maximum 15 minute measured demand in the current month or 500 Kw. Demands will be determined to the nearest one-tenth kilowatt. Customers whose loads have rapidly fluctuating and/or intermittent demand characteristics shall be subject to special rules and regulations.

POWER FACTOR CLAUSE:

The Company reserves the right to require the customer to install adequate equipment so that at all times it can operate its facilities to maintain a power factor between 90% lagging and 90% leading. If the customer operates outside this range, the maximum 15 minute integrated reactive kilovolt amperes in excess of 50% of the maximum 15 minute integrated kilowatt demand for the same month will be billed at \$3.35 per Kvar of such excess demand.

GENERAL TERMS AND CONDITIONS:

1. The customer shall execute an electric service agreement with the Company which will include, among other provisions, a minimum term of service and monthly Base Rate payments to the Company. The monthly Base Rate payments are determined on a customer by customer basis and shall include, but are not limited to, any additional costs incurred by Company for facilities, such as substations, electric lines, meters, switching devices, and circuit breakers that are necessary to provide service under this rate.
2. All equipment associated with the interruptible load must be of such voltage and electrical characteristics that it can be separately metered and served from the circuit provided for the interruptible portion of the customer's load. If the equipment to be served is such that this is impossible, the customer must either make special arrangements with the Company or furnish the necessary

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INTERRUPTIBLE LARGE POWER DEMAND RESPONSE Rate 38

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equipment suitable for connection and metering to the circuit for the interruptible portion of the load.

3. The customer must provide a load-break switch or circuit breaker equipped with electrical trip and close circuits allowing for remote operation of the customer's switch or circuit breaker by the Company. Customer must wire the trip and close circuits into a connection point designated by the Company to allow installation of control equipment by the Company. Customer must provide a continuous 120 volt AC power source at the connection point for operation of the Company's control system.
4. The Company may request the customer to interrupt at any time for up to 100 hours during an annual period starting with the in-service date of the contract between the Company and the customer and annually thereafter. Company shall reimburse customer for customer's fuel used when interrupted at a mutually acceptable level and price.
5. Customer will be required to interrupt service within 10 minutes of the Company's signal to interrupt service.
6. The penalty for non-performance when the Company requests the customer to interrupt will be the greater of \$10.00 per Kw applicable to the Kw demand specified in the electric service agreement with the Company or the appropriate allocation of any penalties imposed on the Company by the Midwest Reliability Organization for the period of non-performance. After a second failure to perform, within a 12-month period, the customer shall be liable for the penalty and may be moved to the otherwise applicable rate.
7. The Company shall not be liable for any loss or damage caused by or resulting from any interruption of service.
8. The foregoing schedule is subject to Rates 100-131 and any amendments or alterations thereto or additional rules and regulations promulgated by the Company under the laws of the state.

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Canceling 5th Revised Sheet No. 28

MUNICIPAL LIGHTING SERVICE Rate 41

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AVAILABILITY:

For municipal lighting purposes including streets, alleys and other public grounds. Service will be provided all night, every night in the year with a minimum service requirement of 4,000 hours annually, and must be covered by written contract.

RATE:

5.815¢ per Kwh computed according to the total rated capacity of the lamps in use.

Base Fuel and Purchased Power: 2.516¢ per Kwh

MINIMUM BILL:

As provided by contract.

PAYMENT:

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

ADJUSTMENT CLAUSES:

Bills are subject to the following adjustments as provided in the referenced rates, or any amendments or alterations thereto:

- Electric Universal System Benefits Charge Rate 55
- Fuel and Purchased Power Cost Tracking Adjustment Rate 58

GENERAL TERMS AND CONDITIONS:

1. The Company will maintain the facilities and change the light bulbs when notified by the municipality that they are burned out except when the facilities are damaged or destroyed by vandalism, malicious mischief by third parties, or willful negligence on the part of employees of the municipality. In case of vandalism, malicious mischief, or willful negligence the Company will charge the municipality for the cost of repair and replacement.

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2. The rate charged to municipally-owned street lighting systems shall be the above tariffed rate less 0.872¢ per Kwh.
3. In municipally-owned street lighting systems, an additional charge will be made to cover lamp replacements, materials and labor whenever such services are supplied by the Company.
4. When service is not metered, the bill shall be computed on an annual basis, utilizing the minimum service requirement of 4,000 hours annually, and one-twelfth shall be payable each month.
5. The foregoing schedule is subject to Rates 100-131 and any amendments or alterations thereto or additional rules and regulations promulgated by the Company under the laws of the state.

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Volume No. 4
6th Revised Sheet No. 34
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MUNICIPAL PUMPING SERVICE Rate 48

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AVAILABILITY:

For municipal pumping purposes provided the municipality uses electricity exclusively for all its pumping requirements and purchases all such electricity from the Company. The municipality must sign a contract for a minimum period of one year.

RATE:

Basic Service Charge: \$24.76 per month

Demand Charge:

Connected loads of 10 Kw or less will be billed based on connected load.

Connected loads in excess of 10 Kw will be billed based upon the greater of the highest 15 minute interval demand as registered upon a demand meter in the current month or 10 Kw.

October – May \$3.11 per Kw

June – September \$4.95 per Kw

Energy Charge: 2.247¢ per Kwh

Base Fuel and Purchased Power: 2.516¢ per Kwh

MINIMUM BILL:

Basic Service Charge plus Demand Charge.

PAYMENT:

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

ADJUSTMENT CLAUSES:

Bills are subject to the following adjustments as provided in the referenced rates, or any amendments or alterations thereto:

- Electric Universal System Benefits Charge Rate 55
- Fuel and Purchased Power Cost Tracking Adjustment Rate 58

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MUNICIPAL PUMPING SERVICE Rate 48

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POWER FACTOR CLAUSE:

The Company reserves the right to require the customer to install adequate equipment so that at all times it can operate its facilities to maintain a power factor between 90% lagging and 90% leading. If the customer operates outside this range, the maximum 15 minute integrated reactive kilovolt amperes in excess of 50% of the maximum 15 minute integrated kilowatt demand for the same month will be billed at \$3.35 per Kvar of such excess demand.

GENERAL TERMS AND CONDITIONS:

The foregoing schedule is subject to Rates 100-131 and any amendments or alterations thereto or additional rules and regulations promulgated by the Company under the laws of the state.

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Volume No. 4
6th Revised Sheet No. 38
Canceling 5th Revised Sheet No. 38

OUTDOOR LIGHTING SERVICE Rate 52

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AVAILABILITY:

For all outdoor lighting including flood lights, billboard lighting, Christmas lights and metallic vapor yard light units in all communities served. Lighting equipment may be Company-owned or customer-owned.

RATE:

9.341¢ per Kwh computed according to the total rated capacity of the units in use.

Base Fuel and Purchased Power: 2.516¢ per Kwh

PAYMENT:

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

ADJUSTMENT CLAUSES:

Bills are subject to the following adjustments as provided in the referenced rates, or any amendments or alterations thereto:

- Electric Universal System Benefits Charge Rate 55
- Fuel and Purchased Power Cost Tracking Adjustment Rate 58

GENERAL TERMS AND CONDITIONS:

1. Applicable to Company-owned Facilities:
 - a. The Company will install, own and operate the flood light(s), and yard light(s) including a suitable reflector, bracket for mounting and automatic device to control operating hours set to operate from dusk to dawn.
 - b. The light may be mounted on existing poles owned or controlled by the Company. The Company will furnish a 35 foot pole(s) for flood lights and a 30 foot pole(s) for yard light(s) at the customers request at a separate rental rate if a special setting is required. If the customer chooses, the light may be installed on a pole owned by the customer or other mounting point suitable for installation of the light. The conductors will be extended

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OUTDOOR LIGHTING SERVICE Rate 52

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100 feet per unit, free of charge, but the customer shall pay for the extra cost of extensions of more than 100 feet per unit.

- c. To the rate stated herein, bulb replacement and ownership costs for the units shall be added. The customer should consult with the Company for such costs.
 - d. The Company will maintain the facilities and change the light bulbs when notified by the customer that they are burned out except when the facilities are damaged or destroyed by vandalism, malicious mischief by third parties, or willful negligence on the part of customer. In case of vandalism, malicious mischief, or willful negligence, the Company will charge the customer for the cost of repair and replacement.
2. When service is not metered, the bill shall be computed on an annual basis, utilizing the minimum service requirement of 4,000 hours annually, and one-twelfth shall be payable each month. Christmas lighting will be billed for the months in service.

Metallic vapor ratings in lumens shall be converted to watts on the basis of the published ratings currently issued by the General Electric Company and the Westinghouse Electric Corporation.

3. The foregoing schedule is subject to Rates 100-131 and any amendments or alterations thereto or additional rules and regulations promulgated by the Company under the laws of the state.

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Canceling 2nd Revised Sheet No. 43

FUEL AND PURCHASED POWER COST TRACKING ADJUSTMENT Rate 58

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1. APPLICABILITY:

This rate schedule sets forth the procedure to be used in calculating the Electric Fuel and Purchased Power Cost (Fuel and Power Cost) Tracking Adjustment. It specifies the procedure to be utilized to adjust the rates for electricity sold under Montana-Dakota's rate schedules in the state of Montana, excluding Contract Service Rate 35, in order to reflect: (a) changes in Montana-Dakota's average cost of fuel and purchased power (b) amortization of the Unreflected Fuel Cost Account. And (c) changes in Montana-Dakota's electric wholesale sales margins as allocated to its Montana electric jurisdiction excluding Contract Service Rate 35.

2. EFFECTIVE DATE AND LIMITATION ON ADJUSTMENTS:

- a. Unless otherwise ordered by the Commission, the effective dates of the Fuel and Power Cost tracking adjustment shall be service rendered on and after the first day of each month. The effective date of the adjustment for amortization of the Unreflected Fuel Cost Account shall be July 1 of each year.
- b. Montana-Dakota shall file an adjustment to reflect changes in its average cost of electric supply only when the amount of change in such adjustment is at least .001 cents per Kwh. The tracking adjustment to be effective July 1 shall be filed each year, regardless of the amount of the change.

3. MINIMUM FILING REQUIREMENTS:

Montana-Dakota's filing to implement the Fuel and Power Cost Tracking Adjustment effective July 1 of each year shall include the following:

- a. Fuel and purchased power costs by month by supply source, with annual totals;
- b. Generation and purchases (Mwh) by month by supply source, with annual totals;

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FUEL AND PURCHASED POWER COST TRACKING ADJUSTMENT Rate 58

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- c. Total Montana-Dakota sales by major customer class by month with annual totals and;
- d. Montana-Dakota sales by major customer class by jurisdiction by month, with annual totals.

4. FUEL AND POWER COST TRACKING ADJUSTMENT:

- a. The monthly Fuel and Power Cost Tracking Adjustment shall be calculated separately for primary voltage and secondary service customers and shall reflect ninety (90) percent of the changes in Montana-Dakota's cost of fuel and purchased power as compared to the cost of fuel and purchased power approved in its base rates plus the annual Unreflected Fuel Cost Adjustment. The base fuel cost shall be 2.516¢ per Kwh for primary service and 2.453¢ per Kwh for secondary service as established in the most recent general rate case.
- b. The cost of fuel and purchased power shall be calculated separately for primary service customers and secondary service customers, and shall be the sum of the following costs for the most recent four month period, as allocated to Montana and to the primary and secondary customer classes:
 - 1. The cost of fossil and other fuels and regents as recorded in Account Nos. 501, 502 and 547.
 - 2. The net cost of purchases and costs linked to the utility's load serving obligation associated with participation in wholesale electric energy and capacity markets as recorded in Account 555.
 - 3. Less the cost of fuel and purchased power recovered from electric wholesale sales.

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FUEL AND PURCHASED POWER COST TRACKING ADJUSTMENT Rate 58

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- c. The cost per Kwh for the month is the sum of 4(b) above divided by retail sales volumes for the most recent four month period for the primary and secondary service classes excluding Contract Service Rate 35.
- d. The difference between the base cost of fuel and purchased power and the calculated cost in 4(c) is multiplied by ninety (90) percent.
- e. Ninety (90) percent of wholesales margin shall be divided by retail sales volumes for the most recent four month period for primary and secondary service classes excluding Contract Service Rate 35
- f. The Fuel and Power Cost Tracking Adjustment for the month shall be the sum of 4(d) and 4(e).

The applicable Fuel and Power Cost Tracking Adjustment shall be applied to each of Montana-Dakota’s rate schedules except Contract Service Rate 35, recognizing differences among customer classes consistent with the cost of fuel and purchased power included in the applicable class sales rate.

5. UNREFLECTED FUEL COST ADJUSTMENT:

All sales rate schedules shall be subject to an Unreflected Fuel Cost Adjustment to be effective on July 1 of each year. The Unreflected Fuel Cost Adjustment per Kwh shall reflect amortization of the applicable balance in the Unreflected Fuel Cost Account calculated by dividing the applicable balance by the estimated Kwh sales for the twelve months following the effective date of the adjustment.

6. UNREFLECTED FUEL COST ACCOUNT:

- a. Items to be included in the applicable Unreflected Fuel Cost Account, are:
 - (1) Amounts under recovered or over recovered for fuel and purchased power, as calculated in accordance with Subsection 6(b) each month.
 - (2) Refunds received with respect to fuel and purchased power. Such refunds received shall be credited to the Unreflected Fuel Cost Account.

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FUEL AND PURCHASED POWER COST TRACKING ADJUSTMENT Rate 58

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- b. The amount to be included in the Unreflected Fuel Cost Account in order to reflect the items specified in Subsection 6(a) (1) and (2) shall be calculated as follows:
- (1) Montana-Dakota shall first determine each month the unit cost for that month's fuel and purchased power.
 - (2) Montana-Dakota shall then subtract from each month's unit cost the cost of fuel and purchased power included in rates for that month.
 - (3) The resulting difference (which may be positive or negative) shall be multiplied by ninety (90) percent and by the Kwh sold during that month under each applicable rate schedule.
 - (4) Ninety (90) percent of wholesale sales margin shall be calculated on a per unit basis as a credit.
 - (5) The sum of 6(b)(3) and 6(b)(4) shall be reflected in an Unreflected Fuel Cost Account for each applicable rate schedule.
- c. Reduction of Amounts in the Unreflected Fuel Cost Account:
- (1) The amounts in the Unreflected Fuel Cost Account shall be decreased each month by an amount determined by multiplying the currently effective Unreflected Fuel Cost adjustment included in rates for that month (as calculated in Subsection 6) by the Kwh sold during that month under each applicable rate schedule. The Account shall be increased in the event the adjustment is a negative amount.

7. TIME AND MANNER OF FILING:

- a. Each filing by Montana-Dakota shall be made by means of a revised fuel and power cost schedule provided in Subsection 8 identifying the amount of the adjustment.

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FUEL AND PURCHASED POWER COST TRACKING ADJUSTMENT Rate 58

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- b. Each filing shall be accompanied by detailed computations which clearly show the derivation of the relevant amounts.
- c. Effective April 1, 2017 the unrecovered balance of Public Service Commission and Montana Consumer Counsel taxes of \$399,742 shall be recovered from all classes on a percent of revenue basis with any over or under recovery of that amount included in the Unreflected Fuel Cost Account.

8. FUEL AND POWER COST ADJUSTMENT :

	<u>Primary</u>	<u>Secondary</u>
Base Fuel	2.516¢	2.453¢
Fuel and Power Cost Adjustment		
Total FPPA per Kwh		

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Director - Regulatory Affairs

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Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of Montana Electric Rate Schedule

Volume No. 4
1st Revised Sheet No. 52
Canceling Original Sheet No. 52

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I. PURPOSE:

These rules are intended to define good practice which can normally be expected, but are not intended to exclude other accepted standards and practices not covered herein. They are intended to ensure adequate service to the public and protect the Company from unreasonable demands.

The Company undertakes to furnish service subject to the rules and regulations of the Public Service Commission of Montana (Commission) and as supplemented by these general provisions, as now in effect or as may hereafter be lawfully established, and in accepting service from the Company, each customer agrees to comply with and be bound by said rules and regulations and the applicable rate schedules. Also refer to Electric Service Rules & Regulations Rate 110.

II. DEFINITIONS:

The following terms used in this tariff shall have the following meanings, unless otherwise indicated:

APPLICANT – A customer requesting Company to provide service.

COMMISSION – Public Service Commission of the State of Montana.

COMPANY – Montana-Dakota Utilities Co.

CUSTOMER – Any individual, partnership, corporation, firm or other organization, or government agency supplied with service by Company at one location and at one point of delivery unless otherwise expressed in these rules or in a rate schedule.

RATE – Shall mean and include every compensation, charge, fare, toll, rental, and classification, or any of them, demanded, observed, charged or collected by the Company for any service, product, or commodity, offered by the Company to

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Docket No. D2010.8.82
Order No. 7115d

Effective with service rendered on and
after September 1, 2011



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the public, and any rules, regulations, practices or contracts affecting any such compensation, charge, fare, toll, rental or classification.

III. GENERAL TERMS AND CONDITIONS:

1. RULES FOR APPLICATION OF ELECTRIC SERVICE:

- i. Residential Electric Service is available to any residential customer for domestic purposes only. All normal sized equipment used for domestic lighting, heating, cooking, and power, and used strictly for household purposes, may be supplied through one meter.
 - a. Residential service is defined as service for domestic general household purposes in space occupied as living quarters, designed for occupancy by one family. Typical service would include the following: separately metered units, such as single private residences, single apartments, mobile homes and sorority and fraternity houses (this is not an all-inclusive list). In addition, auxiliary buildings and water well pumps on the same premise as the living quarters, used for single family residential purposes, may be served on the residential rate where premise is defined as a contiguous parcel of land undivided by a dedicated street, alley, highway, or other public thoroughfare or railway.
 - b. Motors and other equipment which interfere with service to neighboring customers, all motors larger than 5 horsepower, and temporary or seasonal loads totaling more than 25 kilowatts (Kw) will not be permitted on the Residential Electric Service Rate without prior Company approval.
 - c. Only single phase service is available under the Residential Electric Service Rate.

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- ii. Three phase service shall be served under the appropriate General Electric Service Rate.
- iii. General Electric Service is defined as service provided to nonresidential services, such as a business enterprise in space occupied and operated for nonresidential purposes. Typical service would include: stores, offices, shops, restaurants, boarding houses, hotels, service garages, wholesale houses, filling stations, barber shops, beauty salons, apartment houses with master metering exemptions, common areas of shopping malls or apartments (such as halls or basements), churches, elevators, schools and facilities located away from the home site (this is not an all-inclusive list).
- iv. If separate metering is not practical for a single unit (one premise) that is using electricity for both domestic purposes and for conducting business (or for nonresidential purposes) the customer will be billed under the predominate use policy. Under this policy, the customer's combined service is billed under the rate (Residential or General Electric Service) applicable to the type of service which constitutes 50% or more of the total connected load.
- v. Other classes of service furnished by the Company shall be defined in applicable rate schedules, or in rules and regulations pertaining thereto. Service to customers for which no specific rate schedule is applicable shall be billed on the appropriate General Electric Service Rate.

2. CONSUMER DEPOSITS:

The Company will determine whether or not a deposit shall be required of an applicant for electric service in accordance with Commission rules.

- i. The amount of such deposit for residential service shall not exceed one-sixth of the estimated annual billings. For non-residential

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service, the amount of the deposit shall not exceed 25 percent of the estimated annual billings.

- ii. The Company shall accept in lieu of a cash deposit a contract signed by a guarantor, whereby the payment of a specified sum not to exceed an estimated one year bill, with such estimation to be made at the time the service is established. Guarantee terms and conditions will be in accordance with Commission Rules 38.5.1111 and 38.5.1112.
 - iii. Interest on deposits held shall be accrued at the rate of .5 percent per month. Interest shall be computed from the receipt of deposit to the time of refund or of termination. Interest shall be credited to the customer's account annually during the month of December.
 - iv. Deposits with interest shall be refunded to the customers at termination of service provided all billings for service have been paid. Deposits with interest will be refunded to all active customers, after the deposit has been held for twelve months, provided a prompt payment record, as defined in the Commission rules, has been established.
3. LATE PAYMENT CHARGE:
Amounts billed for energy will be considered past due if not paid by the due date shown on the bill.
- i. For residential customers, an amount equal to 1% per month will be applied to any past due amount, provided however, that such amount shall not apply to any account where a written payment schedule has been arranged and complied with, or where the Low Income Energy Assistance Program (LIEAP) is being utilized up to the point where the funds are exhausted and the recipient has full responsibility for the account. In the event of a breach of a written payment

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arrangement, an amount equal to 1% of the total remaining unpaid balance shall apply beginning 60 days after the date of the last payment under the payment arrangement. Such amount shall also apply (where the LIEAP program was utilized) to the total remaining unpaid balance on all accounts beginning 60 days after the LIEAP program no longer applies to such account.

- ii. For nonresidential customers, an amount equal to 1% per month will be applied to any unpaid balance not paid by the due date shown on the bill.
- iii. All payments received will apply to the customer's account prior to calculating the late payment charge. Those payments applied shall satisfy the oldest portion of the bill first.

4. RETURNED CHECK CHARGE:

A charge of \$20.00 will be collected by the Company for each check charged back to the Company by a bank.

5. TAX CLAUSE:

In addition to the charges provided for in the electric tariffs of the Company there shall be charged pro rata amounts which on an annual basis shall be sufficient to yield to the Company the full amount of any excise taxes, whether they be denominated as license taxes, occupation taxes, business taxes, privilege taxes, or otherwise, levied against or imposed upon the Company by any municipality or other political subdivision for the privilege of conducting its utility operations therein.

The charges to be added to the customers' service bills under this clause shall be limited to the customers within the corporate limits of the municipality or other political subdivision imposing the tax.

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6. UTILITY SERVICES PERFORMED AFTER NORMAL BUSINESS HOURS:
For service calls requested by customer for cut-ins, cut-outs, and disconnection or reconnection of service after the Company's regular business hours and on Saturday, Sunday, or legal holidays, a charge will be made for labor at standard overtime service rates and material at retail prices.

Customers requesting service after the Company's normal business hours will be informed of the after hour service rate and encouraged to have the service performed during normal business hours.

To ensure the Company can service the customer during normal business hours, the customer's call must be received by 12:00 p.m. on a regular work day for a disconnection or reconnection of service that same day. For calls received after 12:00 p.m. on a regular work day, customers will be advised that overtime service rates will apply unless service can be scheduled for a future workday.

7. RECONNECTION FEE FOR SEASONAL CUSTOMER:
A charge will be collected for reconnecting electric service to a customer who requests reconnection of service, at a location where the same customer discontinued the same service during the preceding twelve month period.

Applicable Charge:

- i. Customers with non-demand meters: \$20.00
- ii. Customers with demand meters: \$40.00

8. DISCONTINUANCE OF SERVICE FOR NONPAYMENT OF BILL:
i. All bills for services are due when rendered and will be considered delinquent if not paid by the due date shown on the bill. If any customer shall become delinquent in the payment of service bills, such service may be discontinued by the Company under the applicable rules of the Public Service Commission.

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- ii. The Company may collect a fee of \$20.00 before restoring electric service which has been disconnected for nonpayment of service bills.

9. DISCONTINUANCE OF SERVICE FOR CAUSES OTHER THAN NONPAYMENT OF BILL:

The Company reserves the right to discontinue service for any of the following reasons:

- i. In the event of customer use of equipment in such a manner as to adversely affect the Company's equipment or service to others.
- ii. In the event of tampering with the equipment furnished and owned by the Company.
- iii. For violation of or noncompliance with the Company's rules on file with the Commission.
- iv. For failure of the customer to fulfill the contractual obligations imposed as conditions of obtaining service.
- v. For refusal of reasonable access to property to the agent or employee of the Company for the purpose of inspecting the facilities or for testing, reading, maintaining or removing meters.

The right to discontinue service for any of the above reasons may be exercised whenever and as often as such reasons may occur, and any delay on the part of the Company in exercising such rights, or omission of any action permissible hereunder, shall not be deemed a waiver of its rights to exercise same.

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Nothing in these regulations shall be construed to prevent discontinuing service without advance notice for reasons of safety, health, cooperation with civil authorities, or fraudulent use, tampering with or destroying Company facilities.

The Company may collect a reconnect fee of \$20.00 before restoring electric service, which has been disconnected for the above causes.

10. BILL DISCOUNT FOR QUALIFYING EMPLOYEES:

A bill discount may be available for residential use only in a single family unit served by Montana-Dakota Utilities Co. to qualifying employees and retirees of MDU Resources and its subsidiaries. The bill shall be computed at the applicable rate, and the amount reduced by 33 1/3%.

11. METHOD OF COMPUTING INITIAL OR FINAL BILLS FOR ELECTRIC SERVICE FOR LESS THAN A FULL MONTHLY BILLING PERIOD:

Customer's meters are read as nearly as practicable at thirty day intervals. When service is begun or terminated at any location between regular meter reading dates, bills will be prorated on a daily basis, whenever the billing period is less than 27 calendar days or more than 35 calendar days. The minimum monthly bill, basic service charge, kilowatt hour blocks and demand charge provisions in all rate schedules will be prorated.

12. BILLING ERRORS:

Billing error means any bill issued by Company that is not designated as an estimate and that understates the amount owed by the customer. It also means the Company's failure to bill a customer, although there was energy consumption which would, under the Company's normal billing practices, be billed to the customer.

- i. When a billing error is discovered which is not the result of theft by the customer, the Company may submit a bill to the customer based on the corrected information for a period not to exceed six months from the date the billing error is discovered.

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- ii. Billing errors on accounts of industrial customers are not limited to the six-month period applicable to all other customers.

13. INSTALLING TEMPORARY METERING OR SERVICE FOR ELECTRIC FACILITY:

A customer requesting temporary metering service will be charged on a time and material basis in accordance with Electric Service Rules and Regulations Rate 110.

14. SERVICES ON CUSTOMER PREMISES – ELECTRIC NONCHARGEABLE – UTILITY SERVICES:

- i. Fire Call
- ii. Investigate hazardous condition on customer premises
- iii. No lights or power investigation
- iv. Maintenance or repair of Company-owned equipment on the customer's premise –
 - a. Meter
 - b. Overhead service line
 - c. Underground service line
- v. Checking voltage or loads
- vi. Locating radio, cb or television interference
- vii. High bill complaint
- viii. Cut-ins and cut-outs (regular work hours)

15. MODIFICATION OF RATES, RULES AND REGULATIONS:

Company reserves the right to modify any of its rates, rules, and regulations or other provisions now or hereafter in effect, in any manner permitted by law.

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ELECTRIC SERVICE RULES and REGULATIONS

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Section 100 - General

101. Purpose

These rules are intended to define good practice which can normally be expected, but are not intended to exclude other generally accepted standards and practices not covered herein. They are intended to ensure adequate service to the public and protect the Company from unreasonable demands.

The Company undertakes to furnish service subject to the rules and regulations of the Commission as supplemented by these general provisions, as now in effect or as may hereafter be lawfully established, and in accepting service from the Company, each customer agrees to comply with and be bound by said rules and regulations and the applicable rate schedules.

102. Definitions

Company – Montana-Dakota Utilities Co.

Customer – Any individual, partnership, corporation, firm, other organization or government agency supplied with service by the Company at one location and one point of delivery unless otherwise expressly provided in these rules or in a rate schedule.

103. Customer Obligation

103.1 Application for Service – A customer desiring electric service must submit an application to the Company before commencing the use of the Company's service. The Company reserves the right to require a signed application or written contract for service to be furnished. All applications and contracts for service must be made in the legal name of the customer desiring the service. Any customer may be required to make a deposit as required by the Company. The Company may refuse service or terminate service to a customer who fails or refuses to furnish reasonable information requested by the Company for the establishment of a service account. Any customer who uses electric service shall be subject to the Company's rates, rules, and regulations and shall be responsible for payment of all service used.

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Subject to rates, rules and regulations, the Company will continue to supply electric service until notified by the customer to discontinue the service. The customer will be responsible for payment of all service furnished through the date of discontinuance. Any customer may be required to make a deposit.

103.2 Access to Customer's Premises – Company representatives, when properly identified, shall have access to customer's premises at all reasonable times for the purpose of reading meters, making repairs, making inspections, removing the Company's property, or for any other purpose incidental to the service. The Company will make reasonable effort to contact the customer, but the Company reserves the right to interrupt service to conduct maintenance on metering equipment, including an exchange of the meter.

103.3 Company Property – The customer shall not disconnect, change connections, make connections or otherwise interfere with Company's meters or other property or permit same to be done by other than the Company's authorized employees.

103.4 Relocated Facilities – Where Company facilities are located on or adjacent to a customer's premises where there is an encroachment(s) to electric facilities the customer shall be charged for line relocation on the basis of actual costs incurred by the Company including any required easements.

103.5 Notification of Unsafe Conditions – The customer shall immediately notify the Company of any unsafe conditions associated with the Company's electric facilities at the customer's premises.

103.6 Termination of Service – All customers are required to notify the Company, to prevent their liability for service used by succeeding tenants, when vacating their premises. Upon receipt of such notice, the Company will read the meter and further liability for service used on the part of the vacating customer will cease.

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104. Liability

104.1 Continuity of Service – The Company's electric system is unusually widespread and has many interconnections with sources of power other than its own generating stations and it is subject to exposure by storms and other factors not under its control. The Company employs the latest developments in equipment and methods of operation for the purpose of maintaining adequate service. The Company will use all reasonable care to provide continuous service but does not assume responsibility for a regular and uninterrupted supply of electric service and will not be liable for any loss, injury, death or damage resulting from or caused by the interruption of the same.

104.2 Customer's Equipment – Neither by inspection or rejection, nor in any other way does the Company give any warranty, expressed or implied, as to the adequacy, safety or other characteristics of any structures, equipment, lines, appliances or devices owned, installed or maintained by the customer, leased by the customer from third parties or used on the customer's premise. It is the obligation of the customer to consult with the Company regarding maximum available fault current and to provide such protection devices as may be necessary to safeguard the equipment and installation from interruptions, variation in voltage and frequency, single-phase energization of three-phase lines, reversal of phase rotation or other abnormal conditions. (Refer to Paragraph 710)

104.3 Company Equipment and Use of Service – The Company will not be liable for any loss, injury, death or damage resulting in any way from the supply or use of electricity or from the presence or operation of the Company's structures, equipment, lines, appliances or devices on the customer's premises, except loss, injuries, death, or damages resulting from the negligence of the Company.

104.4 Indemnification – Customer agrees to indemnify and hold Company harmless from any and all injury, death, loss or damage resulting from customer's negligent or wrongful acts under and during the term of service. Company agrees to indemnify and hold customer harmless from any and all injury, death, loss or damage resulting from Company's negligent or wrongful acts under and during the term of service.

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104.5 Force Majeure – In the event of either party being rendered wholly or in part by force majeure unable to carry out its obligations, then the obligations of the parties hereto, so far as they are affected by such force majeure, shall be suspended during the continuance of any inability so caused. Such causes or contingencies affecting the performance by either party, however, shall not relieve it of liability in the event of its concurring negligence or in the event of its failure to use due diligence to remedy the situation and remove the cause in an adequate manner and with all reasonable dispatch, nor shall such causes or contingencies affecting the performance relieve either party from its obligations to make payments of amounts then due hereunder, nor shall such causes or contingencies relieve either party of liability unless such party shall give notice and full particulars of the same in writing or by telephone to the other party as soon as possible after the occurrence relied on.

The term “force majeure” as employed herein shall include, but shall not be limited to, acts of God, strikes, lockouts or other industrial disturbances, failure to perform by any third party, which performance is necessary to the performance by either customer or Company, acts of the public enemy or terrorists, wars, blockades, insurrections, riots, epidemics, landslides, lightning, earthquakes, fires, storms, floods, washouts, arrest and restraint of rulers and peoples, civil disturbances, explosions, breakage or accident to machinery or electric lines, animal interference, sudden partial or sudden entire failure of electric transmission or supply, failure to obtain materials and supplies due to governmental regulations, and causes of like or similar kind, whether herein enumerated or not, and not within the control of the party claiming suspension, and which by the exercise of due diligence such party is unable to overcome; provided that the exercise of due diligence shall not require settlement of labor disputes against the better judgment of the party having the dispute.

The term “force majeure” as employed herein shall also include, but shall not be limited to, inability to obtain or acquire, at reasonable cost, grants, servitudes, rights-of-way, permits, licenses, or any other authorization from third parties or agencies (private or governmental) or inability to obtain or acquire at reasonable cost necessary materials or supplies to construct, maintain, and operate any facilities required for the performance of

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any obligations under this agreement, when any such inability directly or indirectly contributes to or results in either party's inability to perform its obligations.

105. Electrical Codes and Ordinances

The Electric Service Rules and Regulations contained herein are supplementary to and do not intentionally conflict with nor supersede the latest edition of the National Electrical Code, the National Electrical Safety Code, nor such state and municipal laws and ordinances that may be in effect in the areas in which the Company furnishes electric service, except that where the requirements of these Electric Service Rules and Regulations exceed those of such codes, laws, and ordinances, these Electric Service Rules and Regulations shall apply. Existing installations, including maintenance replacements, that currently comply with prior revisions of these rules and regulations, need not be modified to comply with these rules except as may be required for safety reasons.

106. Wiring Adequacy

Wiring codes provide minimum requirements for safety. Installation of wiring capacity greater than minimum code requirements is recommended to bring to the customer all the benefits of electric service and to protect building investment by minimizing obsolescence resulting from an inadequate wiring system.

107. Inspection of Wiring

Where permits and inspections covering customer's wiring and installation are required by local ordinance, it is mandatory that such requirements be fulfilled before the Company will make connections to the customer's installation. In locations where such inspections are not required by law or ordinance, an affidavit by the wiring contractor stating that the wiring has been done in compliance with the National Electrical Code will be acceptable.

108. Permits, Certificates, Affidavits

It is the responsibility of the customer to obtain all necessary permits, certificates of inspection or affidavits as required in Paragraph 107 above and to notify the Company

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promptly of any proposed alterations or additions to customer's load. Failure to comply with these requirements may result in delayed connection, interruption of service or damage to apparatus.

109. Consultation with the Company

109.1 The location, size and character of the customer's load and the current, voltage, frequency, phases, etc. which the Company has available at the customer's location will determine the type of service supplied to the customer.

109.2 Architects, engineers, contractors, electric dealers, wiremen and others must confer with local representatives of the Company to determine the type of service that will be available before designing or preparing specifications for new electrical installations or alterations to existing installations.

109.3 In all cases involving large installations and other cases where any doubt exists, full information as to the type of service available should be obtained from the Company.

110. Unauthorized Use of Service

110.1 Unauthorized use of service is defined as any deliberate interference that results in a loss of revenue to the Company. Violators are subject to prosecution.

110.2 Types of unauthorized use of service include, but are not limited to, the following:

- (a) Bypass around meter.
- (b) Meter reversed.
- (c) Equipment connected ahead of meter.
- (d) Tampering with meter that affects the accurate registration of electric usage.
- (e) Electricity being used after service has been discontinued by the Company.

110.3 In the event that there has been unauthorized use of service, customer shall be charged for:

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- (a) All costs associated with investigation or surveillance;
- (b) Estimated charge for non-metered electricity;
- (c) All time to correct situation;
- (d) Any damage to Company property.

110.4 A customer's service disconnected for unauthorized use of service shall be reconnected after the customer has furnished satisfactory evidence of compliance with Company's rules and conditions of service, and paid any charges which are due, including:

- (a) All delinquent bills, if any;
- (b) The amount of any Company revenue loss attributable to said tampering;
- (c) Expenses incurred by the Company in replacing or repairing the meter or other equipment, costs incurred in the preparation of the bill, plus costs as outlined in Paragraph 110.3;
- (d) Applicable reconnection fee;
- (e) A cash deposit, the amount of which will not exceed the maximum amount determined in accordance with rules of the Commission.

111. Unauthorized Attachments to Poles

111.1 The unauthorized attachment of any flags, banners, signs, clotheslines, antennas, etc. to Company poles is prohibited. The use of poles for placards or other advertising matter is forbidden. The Company will remove such unauthorized attachments without notice and may prosecute any such trespassers.

111.2 Customers are cautioned to locate antennas so that they are beyond falling distance from the Company's lines, either transmission or distribution. Antennas and lead-ins shall be located a safe distance from and shall never cross over or under the Company's lines or contact the Company's poles. The Company disclaims all responsibility where such equipment contacts the Company's lines, poles or equipment.

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Section 200 - USE OF ELECTRIC SERVICE

201. Rate Schedules

Electric service will be billed under the rate schedule that applies to the class of service used. Rate schedules applicable to various classes of service may be obtained from the Company upon request.

202. Resale of Energy

The Company will not supply energy for resale except as expressly covered by special contract or where such provision is a part of the rate schedule.

203. Temporary Service

Temporary service is any service for construction work, carnivals, gravel pits, occasional lighting, etc., which is not expected to continue in use for a period long enough to justify the construction cost necessary for extending service. When temporary service is desired the customer shall, in addition to paying the scheduled rates, make deposit in advance in the amount of the Company's estimated cost of installing and furnishing such temporary service facilities together with the cost of disconnecting and removing same and the estimated billing to the customer for electric service. Final billing will reflect credit for the salvage value of materials used in providing the temporary service. Any deficiency in such advance payment shall be paid by the customer upon presentation of a bill by the Company. Any amount deposited in excess of final billing by the Company will be refunded to the customer.

204. Standby Service

Where electric service is supplied as standby to a customer's generating facilities or vice versa, the customer shall provide and install at the customer's expense a suitable double-throw switch or other device which will completely isolate the customer's power facilities from the Company's system. The service entrance shall be installed so that the phase conductors will be totally isolated from the customer's wiring before the standby unit is put into operation.

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205. Parallel Service

Parallel operation of the customer's generating equipment with the Company's system shall be permitted to the extent provided in other approved rates.

206. Transformer Installations on the Customer's Premises

206.1 The Company will supply transformers to be installed on the customer's premises when requested by the customer and in accordance with the following paragraphs.

206.2 The customer shall agree to indemnify and hold the Company harmless from any loss, damage, expense or liability, incurred or arising from, or out of the installation, operation, maintenance, repair or removal of its transformers, cables, conductors, apparatus and all other Company property, material or equipment placed on the customer's premises.

206.3 Company's power or distribution transformers will not be installed in the customer's building.

206.4 The Company will furnish, own and maintain conventional oil filled transformers at no cost to the customer. However, where dry type transformers, transformers containing a nonflammable insulating coolant or oil filled transformers of special voltage or design are required they shall be owned, installed and maintained by the customer at the customer's expense.

206.5 Padmount transformers may be installed on customer's premises. The customer shall furnish a suitable concrete pad, conduit, ground rod and service conductors as noted in Figure 5. Where the customer has more than four parallel conductors, a cable junction enclosure and conduit to the transformer location may be required. The customer shall consult with the Company to determine when a cable junction enclosure is required.

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206.6 Where the transformer is installed adjacent to an asphalt or concrete driveway, parking lot, or walkway, the customer shall provide conduit from the transformer location to a point beyond the driveway, parking lot, or walkway to accommodate the Company's primary voltage cable. The customer shall provide barriers and clear zones to protect transformer from damage and to allow proper cooling and access to conductor compartments. The customer shall consult with the Company to determine the proper size conduit and protective barriers.

206.7 Refer to Figure 5 for additional information on transformer location.

207. Overhead to Underground Primary Conversion

When requested by property owners, underground distribution and services will be provided to replace existing overhead distribution to a group of owners cooperating with one another, providing:

- (a) There exists a sufficient number (25) of homes on contiguous lots that are available for the conversion. At the Company's option, smaller groups could be acceptable.
- (b) The terrain and other soil conditions are suitable for installation of underground facilities.
- (c) Easements will be granted at no cost to the Company, wherever installed facilities are on private land.
- (d) The customer, at customer's expense, must adapt the customer's electrical facilities to accept an underground service.
- (e) The customer, or group of customers, provide payment for the cost of removal of overhead facilities and total installed cost, multiplied by the fractional life remaining, less the salvage value of the removed equipment. The customers may also be required to reimburse the Company for other reasonable and prudent costs in excess of the Company's standard installation that results from the installation of the requested underground distribution.

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Section 300 - ELECTRIC SERVICE AVAILABLE

301. Frequency

All service supplied by the Company is alternating current at a nominal frequency of 60 Hertz.

302. Secondary Voltages (See also Section 400.)

302.1 In general, the following classes of service are normally supplied:

<u>Phase</u>	<u>Wires</u>	<u>Nominal Voltage</u>	<u>Nominal Service</u>
1	3	120/240	Single Phase Lighting & Power
3	4 Delta	120/240	Combined Light & Power *
3	4 Wye	208 Grd Y/120	Combined Light & Power
3	4 Wye	480 Grd Y/277	Combined Light & Power **
3	4 Delta	240/480	Combined Light & Power *

*Overhead Primary (Only allowed by special request – see Section 302.3)

**Underground Primary

Note: The Company follows the provisions of ANSI C84.1; latest revision, Electric Power Systems and Equipment – Voltage Ratings (60 Hertz)

302.2 Only one class of service voltage is provided to a single customer location.

302.3 Service at other voltages may be made available for approved loads upon special application to the Company. Supplying such service may require special construction and equipment by the customer and the Company. The details of such construction and equipment are subject to negotiation between the Company and the customer before service is supplied.

302.4 As the voltage and number of phases which will be supplied depend upon the character of the load, its size, and location, it is necessary that the customer consult with

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the Company regarding the type of service which will be furnished before proceeding with the purchase of equipment or the installation of wiring. (Refer to Paragraph 109)

302.5 The customer's wiring for single phase installations shall be such that the difference in loads on each side of the supply neutral shall not exceed 10% of the total load.

302.6 For three phase grounded wye installations, the load shall be balanced so that the difference in loads on the separate phases shall not exceed 10% of the total load.

303. Primary Voltages (See also Section 500)

Service may be made available at primary voltage of 2400 volts or higher. The available primary voltage is dependent upon the local primary voltage.

Section 400 - SECONDARY VOLTAGE SERVICE (Under 600 Volts)

401. Secondary Voltage Service Connections

The location of the service connection is subject to approval by the Company. The Company will cooperate with the customer to the fullest extent practicable in determining such location. Once established, any change by the customer may result in billing to the customer for any additional work or materials required by the Company.

402. Service Connections and Disconnections

All connections or disconnections of overhead or underground services, regardless of the voltage, will be made by the Company at the point where the Company's facilities join those of the customer. No customer or agent of the customer will be authorized to make such connections or disconnections. (Refer to Paragraphs 103.1, 107 and 108.)

403. Number of Service Drops

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In general, one service drop will be installed for each customer location. Exceptions will be made in special cases where it is mutually advantageous to the customer and the Company.

404. Services in Raceways

Where services are installed in raceways, the installations must comply with the requirements of the latest edition of the National Electrical Code. In addition, metered conductors shall not be installed in the same raceway as unmetered service conductors.

405. Service Entrance Requirements

405.1 The Company recommends that the service entrance for single family residences be not less than 100 ampere. The service entrance shall be sized and installed in accordance with provisions of the National Electrical Code, state code, and local ordinances. Bare neutral wire shall not be installed in conduit due to the possibility of radio interference.

405.2 Ample length of service entrance conductor shall be left protruding from the service head and at padmount equipment facilities to allow for proper connection to the service drop for overhead installations and to padmount equipment terminals.

405.3 When entrances are parallel in two or more conduits, all phases shall be run in each conduit and all wires shall be of the same length.

406. Identification of Conductors

406.1 For purposes of identification, the neutral wire of each single phase entrance shall be clearly marked at the service outlet as well as at the meter location.

406.2 Where 4-wire, three phase service entrances are installed, the neutral conductor and the "wild" phase conductor (nominal 208 volts to ground) shall each be clearly marked at the service outlet, at the meter and at service equipment.

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407. Overhead Service Drops

407.1 The service entrance shall preferably be through the eave and be located so the overhead service drop will be as short as practical and maintain all clearance requirements. (Refer to Figure 1 and Paragraph 407.4)

407.2 In cases where proper clearances cannot be maintained by attaching the service drop directly to the building, the customer shall install and maintain a supporting structure of sufficient mechanical strength to support the wires and of sufficient height to provide the necessary clearances.

407.3 The customer shall furnish and install the necessary facilities for firmly mounting a Company supplied service drop attachment.

407.4 Service drop conductors shall not be readily accessible and when not in excess of 750 volts, shall conform to the following general requirements. (refer to the National Electrical Safety Code for possible exceptions.):

Clearance over roof – Multiplex service drop conductors shall have the following minimum clearance over a roof:

10.0 feet - from the highest point of roofs or balconies over which they pass with the following exceptions:

Exception 1: The clearance may not be less than 3.0 feet above roof or balcony not readily accessible.

Exception 2: Where a roof or a balcony is not readily accessible, and a service drop passes over a roof to terminate at a (through-the-roof) raceway or approved support located not more than 4.0 feet, measured horizontally from the edge of the roof, the clearance above the roof shall be maintained at not less than 1.5 feet for a horizontal distance of 6.0

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feet from the raceway or support, and shall be maintained at not less than 3.0 feet for the remainder of the horizontal distance that the cable or conductor passes over the roof.

Note: A roof or balcony is considered readily accessible to a person, on foot, who neither exerts extraordinary physical effort nor employs special tools or devices to gain entry.

Clearance from ground – Multiplex service drop conductors shall have the following minimum clearance from ground:

18.0 feet - over roads, streets and other areas subject to truck traffic. Trucks are defined as any vehicle exceeding 8 feet in height.

18.0 feet - over driveways, parking lots and alleys. This clearance may be reduced to the following values:

- (1) 17 feet - where multiplex service drops cross over or run along alleys, driveways, or parking lots.
- (2) If the height of attachment to a building or other installations does not permit these requirements:
 - (a) 14 feet - over residential driveways for multiplex service drops limited to 150 volts to ground.
 - (b) 10 feet - over residential driveways for drip loops of service drops limited to 150 volts to ground.

14.0 feet - over spaces or ways accessible to pedestrians or restricted traffic only. This clearance may be reduced to the following values:

- (1) If the height of attachment to a building or other installations does not permit these requirements:
 - (a) 12 feet - for multiplex service drops limited to 150 volts to ground.
 - (b) 10 feet - for drip loops of service drops limited to 150 volts to ground.

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24.5 feet - over swimming pools, or within 10 feet, measured horizontally, of the pool edge. In addition, there must be 16.5 feet clearance measured in any direction from every point on a diving platform or tower.

The vertical clearance is derived using the latest edition of the National Electrical Safety Code rule and, where necessary, adding 2 feet for vertical movement safety factor adopted by Company.

408. Secondary Voltage Underground Service

408.1 Where the customer desires an underground service, the customer must furnish and install conduit from the line side of the meter socket to a point a minimum of 18 inches below grade. (Refer to Figure 1.) The customer shall also provide necessary conduit for services under any asphalt or concrete driveway, walkway, parking lot, or other areas where it is impractical to excavate.

408.2 If a customer requests to convert from an overhead service to an underground service, the customer must provide all necessary changes to the service entrance, including relocation, and the conduit described in 408.1 above. The customer must also provide a Company approved trench ready to accept the underground service conductors including back filling, surface restoration and any future settlement or erosion. If the customer requests the Company to provide this work, the Company will charge the customer for this service. In addition, if the service length is less than 150feet, a fee equal to the Company's labor and equipment costs to convert the average 100 feet service line will be charged. If the service length is greater than 150 feet the customer will pay a fee equivalent to the Company's actual labor and equipment costs for the conversion.

409. Mobile Home Service

The customer shall install and maintain the metering pedestal or meter socket and meter mounting device. The customer, as the term is used in this section, is considered to be

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the mobile home court owner for installations in approved mobile home courts and the mobile home owner for installations on a private lot.

Section 500 - PRIMARY VOLTAGE SERVICE (2400 Volts or More)

501. General

The Company offers electric service at primary voltages of 2400 volts or higher. A customer desiring to take service at primary voltage shall furnish and own the equipment from the point of delivery and shall consult the Company to assist in determining the size, type and arrangement of service entrance equipment and conductor specifications required for the customer's particular needs.

502. Service Entrance Equipment

The service entrance equipment shall perform the following functions:

- a. Isolate the load from the supply circuit by visible means.
- b. Automatically break the circuit in the event of overload.
- c. Permit manual opening of the circuit at full load.

503. Overcurrent Protection

The need for overcurrent protective coordination requires consultation with the Company. Overcurrent protective devices may be as follows:

- a. Fuses
- b. Automatic trip circuit breakers

The overcurrent protective device must have an interrupting rating, at circuit voltage, equal to or exceeding the maximum short circuit current available at the location where service is taken.

504. Disconnecting Means

504.1 The disconnect switch shall provide visible evidence that the circuit to which it is applied is open or disconnected. It shall be located on the supply side of the circuit.

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504.2 Where fuses are used, the disconnect switch shall be a gang operated load break switch.

504.3 Where automatic circuit breakers are used as circuit protective equipment, the disconnect switch can be non-load break.

505. Load Balance

Loads on the three phases shall be balanced as closely as possible. The maximum unbalance permitted between individual phase loads is 10% of the total three phase load.

Section 600 – METERING

601. General

The Company will install the necessary meters to measure the electrical energy delivered under each account for a particular class of service.

602. Meter Installations

602.1 The Company will furnish all meters required for billing purposes. It shall be the customer's responsibility to furnish, install and maintain the meter mounting device. The customer will utilize meter sockets from a Company approved list of manufacturers and models as posted on the Company's website. Company approved specifications for electric meter sockets and metering transformer enclosures are listed below:

Self-Contained Meter Sockets – Single Phase, Three Phase and Multiple Position Type

1. U.L. approved, ringless style.
2. 100 ampere minimum for overhead service installations.
3. 150 ampere minimum for underground service installations.
4. Stud connectors are required for all sockets rate 320 amps or greater.
5. For sockets rated below 320 amps, stud connectors are recommended.
Only Company specified meter sockets are approved with lay-in connectors.
6. Equipped with a fifth terminal in the nine o'clock position where network metering is required.

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7. A lever by-pass feature is required for all commercial and industrial installations. Upon review by Company, an exemption may be provided.
8. A lever by-pass feature is recommended for all residential installations

Metering Transformer Rated Meter Socket

1. U.L. approved, ringless style with a one piece cover.
2. Minimum size must provide space for test switch installation.
3. Socket must have six terminals for single phase and 13 terminals for all other configurations. Customer must provide hub closing plate.
4. Automatic by-pass feature is not acceptable.

Metering Transformer Enclosure (Secondary Service)

1. Recommend a durable, weather-resistant finish and weatherproof seal.
2. Must be provided with hinge-type cover and provisions to attach locking or sealing device.
3. Minimum size 10" x 24" x 30" with suitable mounting brackets for current and voltage transformers. For 480 volt service, enclosures must be sized to include room to mount voltage transformers or a separate weatherproof enclosure may be provided by the customer to mount voltage transformers.
4. Consult with Company prior to purchasing any metering transformer enclosure.

602.2 Self-contained rated meter sockets shall be placed outdoors.

602.3 On instrument rated meter sockets, the Company will furnish and install the metering transformers. Such meter sockets shall be arranged for outdoor metering. (Refer to Figures 2 and 3)

602.4 Where a secondary metering transformer enclosure is required, the customer shall furnish and install an enclosure. Such enclosures shall contain only the service entrance conductors and metering transformers. The metering transformers shall be installed on the line side of the customer's disconnecting device. Suitable lugs,

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connectors, etc. for connecting metering transformers to service mains shall be provided by the customer. (Refer to Paragraph 602.1)

602.5 For installations having switchboards, the metering transformers may be mounted in the switchboard bus, provided they are accessible for changing and testing. Metering transformers shall be mounted on the source side of the main switch.

602.6 Meters and test switches may be mounted on a suitable unhinged panel adjacent to the metering transformer enclosure.

602.7 No device other than a Company-owned or Company-approved device shall be placed into the meter socket.

603. Meter-Switch-Fuse Wiring Sequence

For all secondary voltage metering installations the meter, entrance switch and main line fuse or breaker shall be installed in the order named with respect to power flow.

All circuits downstream from the meter shall have proper overcurrent protection devices. A customer-owned non fused rated disconnect shall be installed on the source side of all 480 volt, self-contained meters. This switch shall be located no closer than three feet either left or right of the meter socket, and the switch cover is sealed by the Company.

604. Meter Locations

604.1 Each meter shall be located outdoors in a place of convenient access where it will not create a hazard. The location shall be agreed upon by the customer and the Company. (Refer to Figure 1)

604.2 Meters shall be located so that there is not less than 3 feet of unobstructed space, from the ground up, in front of the meter so that the center line of the meter is not less than 4 feet nor more than 5 feet above the floor, ground, or permanent platform from which the reading will be taken. On group installations, the minimum height is 2 feet – 6 inches and the maximum is 6 feet. The minimum center spacing between meter sockets shall be 7 ½ inches horizontally and 8 ½ inches vertically.

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A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of Montana Electric Rate Schedule

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ELECTRIC SERVICE RULES AND REGULATIONS Rate 110

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604.3 Meter sockets shall be permanently mounted on secure structures such as houses, buildings, poles, etc. All required conduit will be provided by customer. (Refer to Figures 1, 2, and 3)

604.4 Enclosures shall not be placed over the meter socket unless approved by the Company.

605. Indoor Metering

Meters shall be located outdoors as noted in Paragraph 604.1. However, depending on the circumstance and after consulting with the Company, locating the meters indoors may be approved on a case by case basis. Where approved, indoor meters for multiple dwellings, large office buildings, etc. shall be grouped and located as near the service entrance location as practicable.

606. Wiring Diagrams

Typical wiring diagrams for various types of self-contained meters are shown on Figure 4. These are subject to change from time to time with advancement in available metering equipment.

607. Labeling

Where two or more meter mounting devices are installed at one location, each shall be labeled so that it may be identified as to the customer served. Electrical contractors are requested and cautioned to check and identify wiring circuits carefully to avoid metering errors due to incorrect circuitry. Permanent (mechanically fastened) engraved plates shall be placed on the exterior of the meter base on a non-removal panel.

608. Seals

All meters and all points of access to customer wiring on the source side of the meter will be sealed by the Company. All cabinets and switch boxes, either inside or outside of the building, which contain unmetered wires shall have provisions made for sealing before service will be supplied.

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Section 700 - UTILIZATION EQUIPMENT

701. Interfering Loads

Whenever a customer's utilization equipment has characteristics which cause undue interference with the Company's service to other customers, the customer shall provide, at the customer's expense, the necessary equipment to prevent or eliminate such interference. The Company may install and maintain at the customer's expense the necessary equipment to eliminate such interference if it deems it advisable. When a customer's equipment or method of operation causes such interference and the customer does not correct the condition after being so requested by the Company, the Company reserves the right to discontinue the electric service, following written notification of its intent to do so; and service will not be re-established until the conditions complained of have been corrected.

702. Voltage Flicker and Harmonics

702.1 The Company uses the latest revision of the IEEE Standard 141 as the guideline for the maximum allowable voltage flicker that can be caused by a customer's load as measured at the point of metering. This guideline refers to the momentary dip in voltage that may result from the customer's operation of switches, starting of motors, etc.

702.2 Customer's electric load shall comply with the recommendations within Section 10 of the latest revision of the IEEE Standard 519 "Recommended Practices & Requirements for Harmonic Control in Electric Power Systems" at the point of metering connection.

703. Power Factor

Whenever the customer's utilization equipment is of such characteristics as to produce a low power factor, the Company reserves the right to require the customer to raise such power factor, at the customer's expense, or to pay additional charges as provided in certain of the Company's rates on file with the Commission.

704. X-Ray Equipment

At the option of the Company, x-ray equipment may be separately metered and/or supplied from separate transformers.

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705. Electric Welders

Electric welding apparatus shall require special arrangements with the Company to determine its ability to serve before installation is made. (Refer to Paragraph 703.)

706. Electric Motors

706.1 Motors are normally designed to operate at their rated voltage, plus or minus 10%; thus a 220 volt motor should operate satisfactorily at 208 volts or 240 volts.

706.2 To assure adequate safety to personnel and equipment, the customer shall provide and maintain protective devices in each phase to protect all motors against overloading, short circuits, ground faults and low voltage, and to protect all three-phase motors against single-phasing and phase reversal.

706.3 Motors for use at 120 volts single-phase are limited to locked rotor currents of 25 amperes if started more than 4 times per hour, and 50 amperes if started less frequently.

Motors for use at 208 or 240 volts single-phase will generally be limited to 3 h.p. and a maximum of 4 starts per hour. The Company must be consulted for single-phase motors above 3 h.p. Compensating starting equipment may be required to limit the starting current and when required, shall be furnished by the customer. (Refer to Paragraph 702)

706.4 The size of three-phase motors permitted will depend upon the effect starting the motor has upon the customer's system and the Company's other customers in the area. This effect will depend upon the magnitude of the starting current and the frequency of starting. (Refer to Paragraph 702)

When necessary, the customer will be required to reduce the amount of starting current to an acceptable level by installing suitable motor-starting equipment or by using motors designed for smaller starting currents.

706.5 When more than one motor can start simultaneously, the sum of the maximum starting currents of those motors starting simultaneously and also the sum of their horsepower rating shall be furnished to the Company to determine when reduced voltage starting may be required.

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707. Flashing Display Signs

The Company reserves the right to refuse service for "flashing" display signs or display lighting where such service would interfere with voltage regulation of the secondary system.

708. Fluorescent and Gaseous Tube Lighting

High power factor ballasts or transformers must be used for fluorescent, sodium vapor, neon or other gaseous tube lighting equipment. It is required that such equipment operate at a power factor of not less than 90% lagging.

709. Electric Heat Equipment

A customer planning to install resistance type heating, heat pump, electric furnace, electrode boiler, etc. shall consult with the Company, before purchasing the equipment, so that operational modes of this equipment are determined to be acceptable for connection to the Company's distribution system. It is important that consultation is obtained prior to installation of this equipment so the Company can provide adequate capacity to efficiently serve the customer's requirements.

710. Computers and Electronic Equipment

Computers and other sensitive electronic equipment which require high grade, uninterrupted power may, on occasion, experience problems when connected directly to the Company's distribution system. The customer should contact their equipment supplier or consultant to ascertain the need for lightning arresters, surge suppressors, isolation transformers, and standby or uninterruptible power supplies. (Refer to Paragraph 104.2)

711. Carrier Equipment

The customer shall not impose, or cause to be imposed, any electric signal of any frequency or magnitude upon the Company's distribution system.

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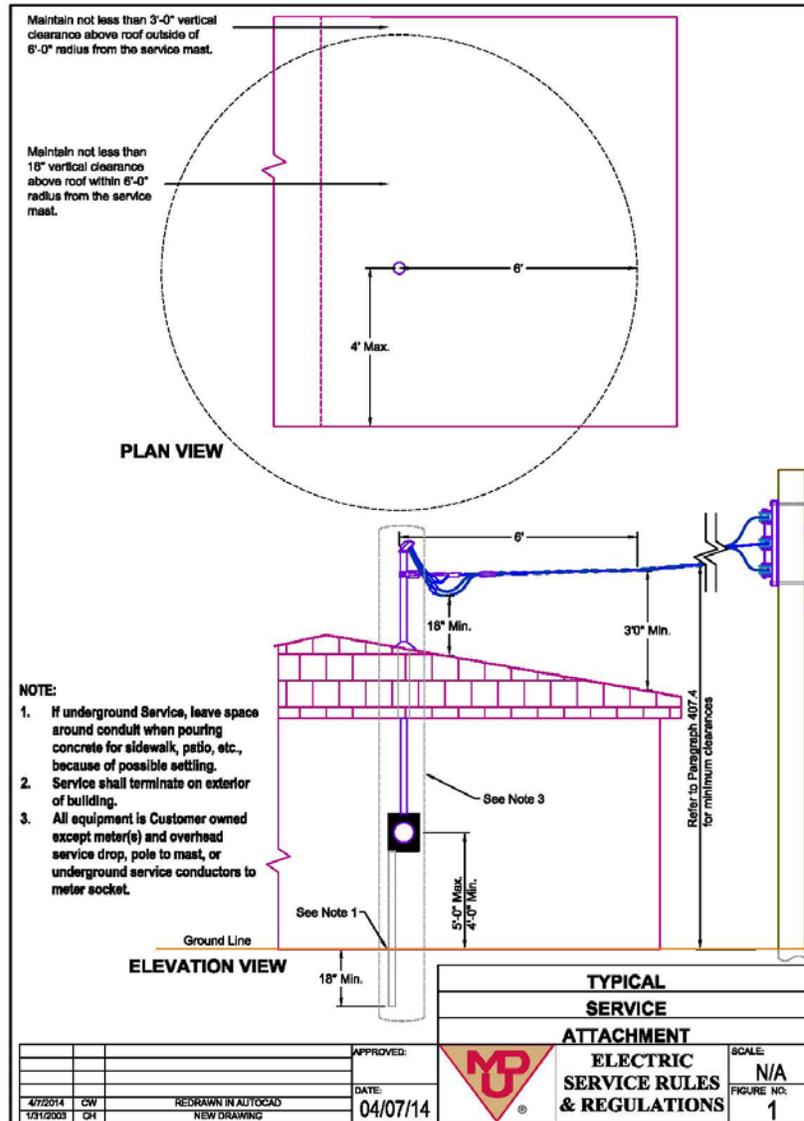
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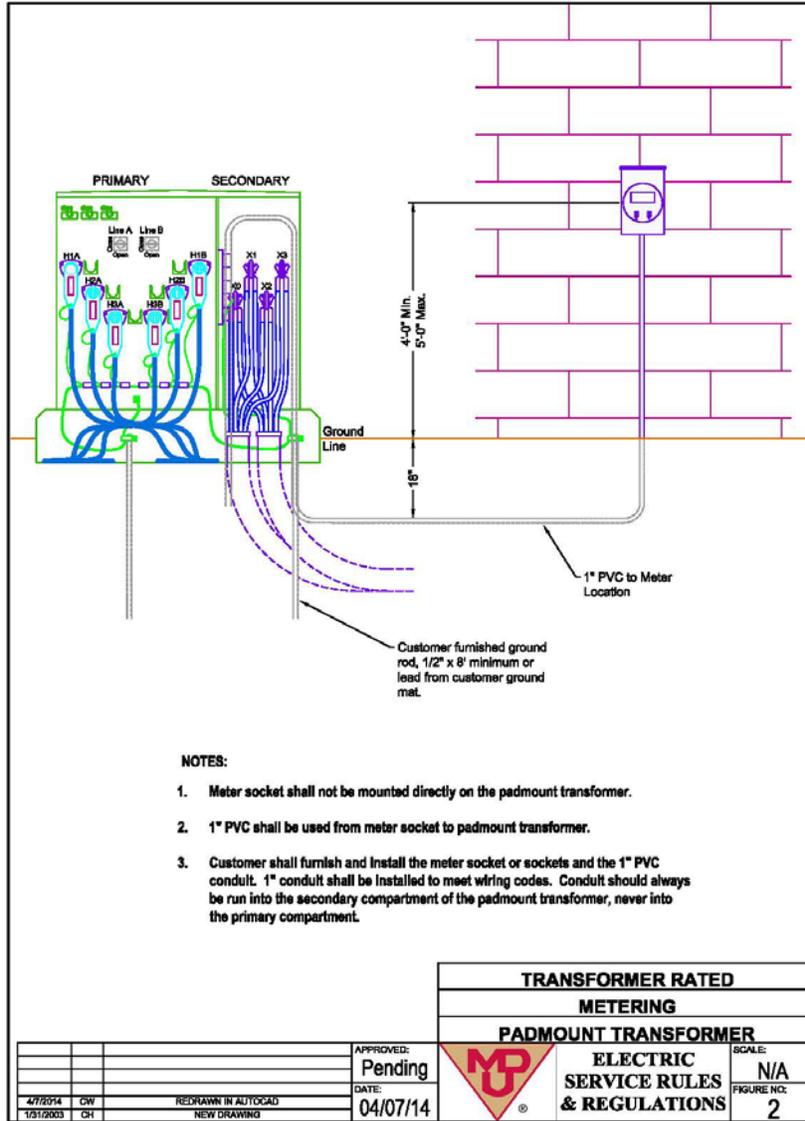
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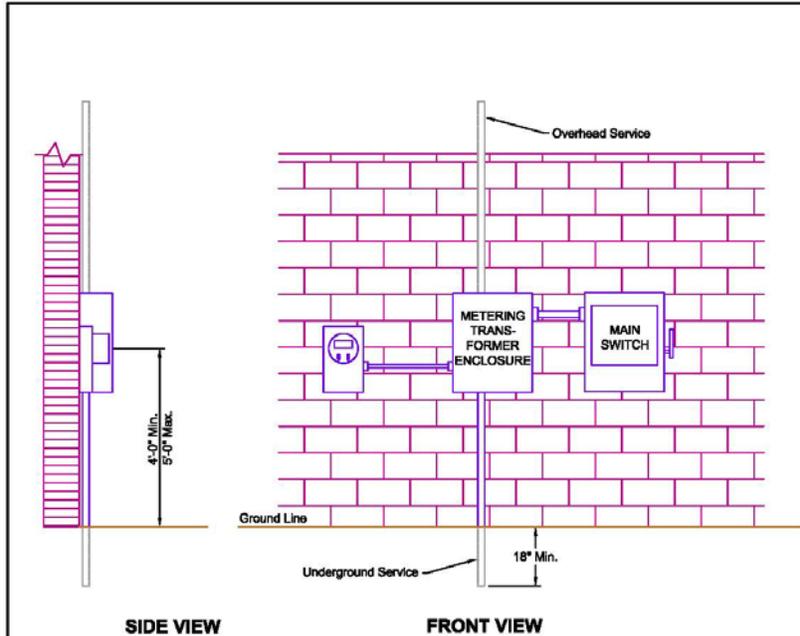
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NOTE:

1. Ground neutral to metering transformer enclosure by direct connection or by ground wire.
2. Instrument transformer enclosure to be furnished and installed by customer. Minimum dimensions for enclosure is 24" x 30" x 10" where practical. Metering transformers furnished and installed by Company.
3. Equipment is to be installed outdoors.

				TRANSFORMER RATED METERING	
				OVERHEAD OR	
				UNDERGROUND SERVICE	
					ELECTRIC
					SERVICE RULES
				& REGULATIONS	
				APPROVED:	SCALE:
				DATE:	N/A
				04/07/14	FIGURE NO.:
				3	

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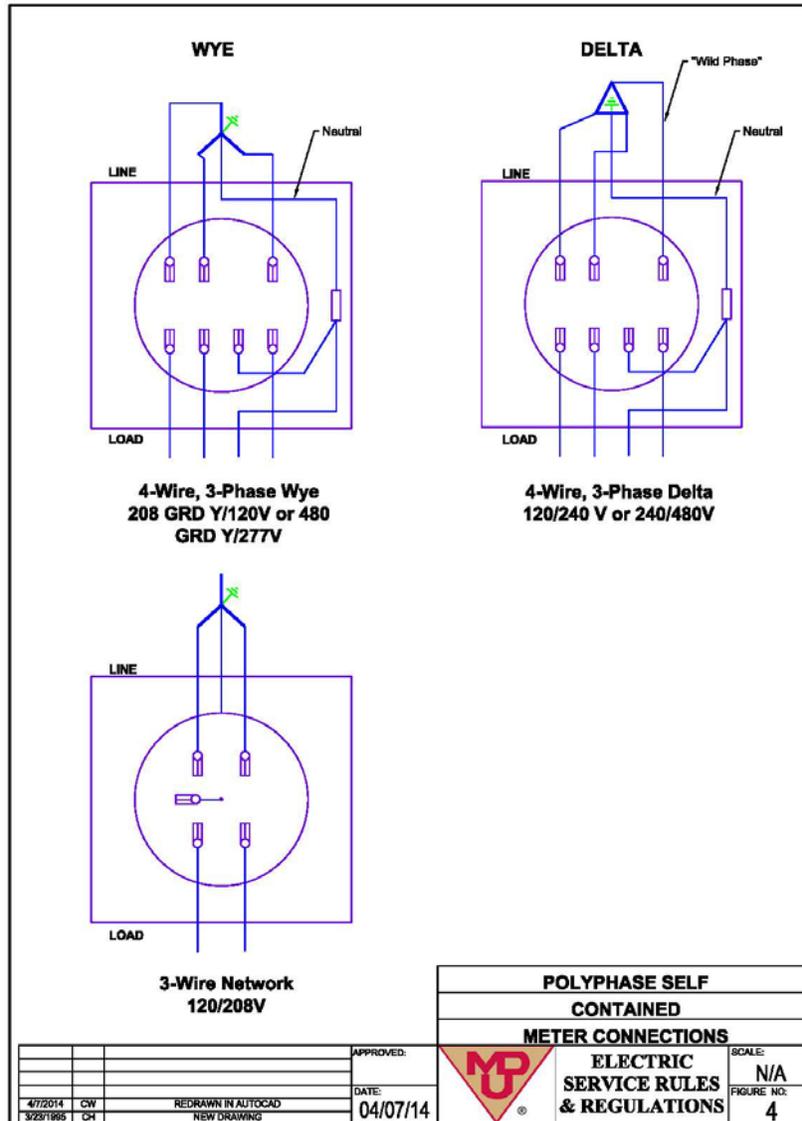
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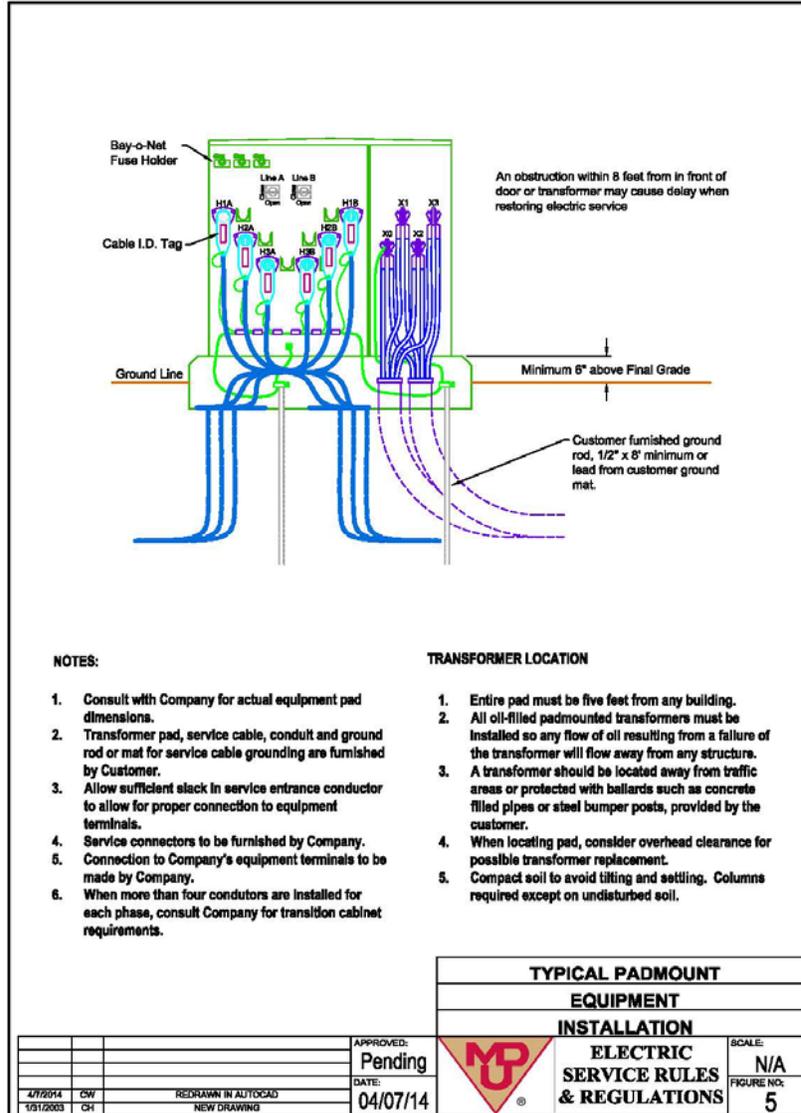
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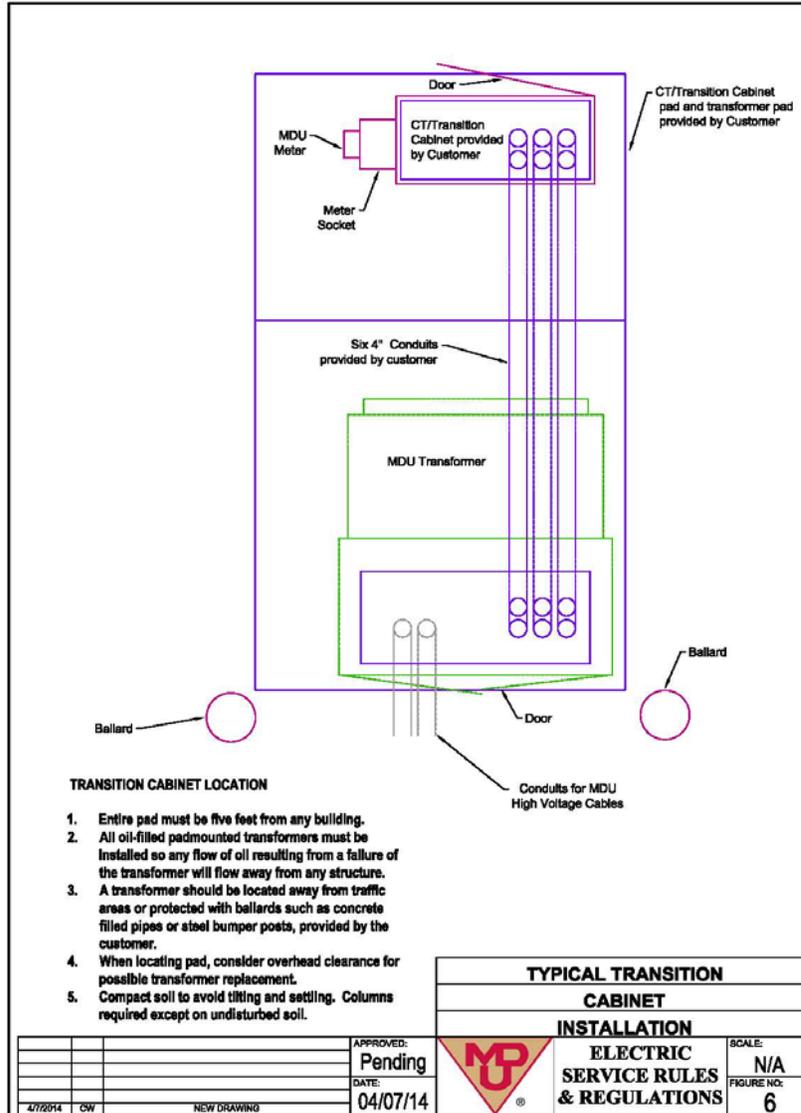
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**MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - MONTANA**

**Allocation of Revenues
Pro Forma 2015 -Settlement**

Billing Determinants and Revenues

Rate Class	Bill Determinants	Kwh	KW	Base Rate	Energy	Demand	Fuel Rev	Current Total Rev
Residential Service - Rate 10	20,064	195,240,541		\$1,318,205	\$10,592,715		\$4,994,253	\$16,905,173
Small General Service								
Rate 20	5,751	128,469,924	318,648.9	1,133,523	4,063,542	1,799,422	3,286,254	10,282,741
Rate 25	113	2,885,435	17,888.3	21,860	55,891	50,709	73,809	202,269
Total Small General	5,864	131,355,359	336,537.2	1,155,383	4,119,433	1,850,131	3,360,063	10,485,010
Large General Service								
Rate 30 Primary	14	46,454,293	103,140.3	31,080	758,598	886,224	1,185,049	2,860,951
Rate 30 Secondary	262	169,343,176	422,658.4	220,080	2,794,163	3,761,400	4,331,798	11,107,441
Total Rate 30	276	215,797,469	525,798.7	251,160	3,552,761	4,647,624	5,516,847	13,968,392
Rate 31 Primary	2	15,225,600	44,486.7	1,968	317,219	352,075	388,405	1,059,667
Rate 31 Secondary	7	610,460	4,099.3	6,888	13,960	27,787	15,616	64,251
Total Rate 31	9	15,836,060	48,586.0	8,856	331,179	379,862	404,021	1,123,918
Rate 32 Secondary	9	1,048,759	5,900.0	1,620	17,305	17,012	26,827	62,764
Rate 35	12	228,554,425	362,722.9	11,520	4,123,122	2,040,602	5,519,589	11,694,833
Total Large General	306	461,236,713	943,007.6	273,156	8,024,367	7,085,100	11,467,284	26,849,907
Municipal Lighting - Rate 41	97	6,898,236			361,615		176,456	538,071
Municipal Pumping - Rate 48	111	7,341,210	31,456.4	28,638	143,227	103,656	187,788	463,309
Outdoor Lighting Service - Rate 52	1,764	3,237,499			280,529		82,815	363,344
Total Montana Electric	28,206	805,309,558	1,311,001.2	\$2,775,382	\$23,521,886	\$9,038,887	\$20,268,659	\$55,604,814

Rate Class	Phase 1				Phase 2 1/				Total	% Incr
	Allocated Revenues	% Incr	Rate Design Results		Allocated Revenues	% Incr	Rate Design Results			
			\$	%			\$	%		
Residential Service - Rate 10	551,128	3.26%	\$551,427	3.26%	\$990,643	5.67%	\$990,009	5.67%	\$1,541,436	9.12%
Small General Service										
Rate 20	591,630	5.75%	591,054	5.75%	944,984	8.69%	944,417	8.69%	1,535,471	14.93%
Rate 25	11,671	5.77%	11,752	5.81%	18,589	8.69%	18,685	8.73%	30,437	15.05%
Total Small General	603,301	5.75%	602,806	5.75%	963,573	8.69%	963,102	8.69%	1,565,908	14.93%
Large General Service										
Rate 30 Primary	258,287	9.03%	258,205	9.03%	270,417	8.67%	270,463	8.67%	528,668	18.48%
Rate 30 Secondary	1,002,781	9.03%	1,003,434	9.03%	1,049,875	8.67%	1,052,050	8.69%	2,055,484	18.51%
Total Rate 30	1,261,068	9.03%	1,261,639	9.03%	1,320,292	8.67%	1,322,513	8.68%	2,584,152	18.50%
Rate 31 Primary										
Rate 31 Secondary										
Total Rate 31	101,490	9.03%	101,457	9.03%	106,233	8.67%	106,085	8.66%	207,542	18.47%
Rate 32 Secondary	5,666	9.03%	5,682	9.05%	5,932	8.67%	5,933	8.67%	11,615	18.51%
Rate 35	381,265	3.26%	381,196	3.26%	887,909	7.35%	887,007	7.35%	1,268,203	10.84%
Total Large General	1,749,489	6.52%	1,749,974	6.52%	2,320,366	8.11%	2,321,538	8.12%	4,071,512	15.16%
Municipal Lighting - Rate 41	32,385	6.02%	32,385	6.02%	49,449	8.67%	49,456	8.67%	81,841	15.21%
Municipal Pumping - Rate 48	41,828	9.03%	41,778	9.02%	42,578	8.43%	42,541	8.42%	84,319	18.20%
Outdoor Lighting Service - Rate 52	21,869	6.02%	21,886	6.02%	33,391	8.67%	33,378	8.66%	55,264	15.21%
Total Montana Electric	\$3,000,000	5.40%	\$3,000,256	5.40%	\$4,400,000	7.51%	\$4,400,024	7.51%	\$7,400,280	13.31%

1/ Subject to adjustment for actual 2016 transmission expenses subject to stipulation parameters.

**MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - MONTANA
Summary of Proposed Charges - Phase 1**

Rate Class	Base Rate	Energy Charges		Base Fuel	Total Energy		Demand Charges			
		Summer	Winter		Summer	Winter	0-10 Kw		> 10 Kw	
							Summer	Winter	Summer	Winter
Residential										
Rate 10	\$0.18	\$0.07167	\$0.05067	\$0.02516	\$0.09683	\$0.07583				
TOD Rate 16	0.35									
Off Peak		0.04734	0.04734	0.02516	0.07250	0.07250				
On Peak		0.08116	0.04960	0.02516	0.10632	0.07476				
Small General Service										
Rate 20 Primary Service	0.54	0.04797	0.02727	0.02453	0.07250	0.05180	0.00	0.00	9.63	8.81
Rate 20 Secondary Service	0.54	0.04907	0.02837	0.02516	0.07423	0.05353	0.00	0.00	10.29	9.41
Irrigation Rate 25	0.58	0.02113	0.02113	0.02516	0.04629	0.04629	3.49	1.64	3.49	1.64
TOD Rate 26 -Primary	26.50									
Off Peak		0.02632	0.02632	0.02453	0.05085	0.05085	0.00	0.00	0.00	0.00
On Peak		0.05935	0.04834	0.02453	0.08388	0.07287	0.00	0.00	11.67	9.36
TOD Rate 26 -Secondary	26.50									
Off Peak		0.02742	0.02742	0.02516	0.05258	0.05258	0.00	0.00	0.00	0.00
On Peak		0.06045	0.04944	0.02516	0.08561	0.07460	0.00	0.00	11.94	9.63
Large General Service										
Rate 30 Primary Service	213.51	0.01885	0.01885	0.02453	0.04338	0.04338	10.77	9.61	10.77	9.61
Rate 30 Secondary Service	80.36	0.01894	0.01894	0.02516	0.04410	0.04410	11.01	9.83	11.01	9.83
TOD Rate 31										
Primary Service	93.56									
Off Peak		0.01759	0.01759	0.02453	0.04212	0.04212	0.00	0.00	0.00	0.00
On Peak		0.05182	0.04041	0.02453	0.07635	0.06494	14.83	6.22	14.83	6.22
Secondary Service	93.56									
Off Peak		0.01779	0.01779	0.02516	0.04295	0.04295	0.00	0.00	0.00	0.00
On Peak		0.05202	0.04061	0.02516	0.07718	0.06577	15.40	6.85	15.40	6.85
Space Heating Rate 32										
Primary	17.36	0.01890	0.01890	0.02453	0.04343	0.04343	10.80	1.74	10.80	1.74
Secondary	17.36	0.01910	0.01910	0.02516	0.04426	0.04426	11.10	2.03	11.10	2.03
Contract Services Rate 35	84.94	0.01915	0.01915	0.02347	0.04262	0.04262	6.69	5.63	6.69	5.63
Demand Resp Rate 38	Contract	0.01885	0.01885	0.02453	0.04338	0.04338	5.77	4.61	5.77	4.61
Municipal Lighting										
Rate 41 Company Owned		0.05815	0.05815	0.02516	0.08331	0.08331				
Rate 41 Muncipal Owned		0.04943	0.04943	0.02516	0.07459	0.07459				
Municipal Pumping										
Rate 48	24.76	0.02247	0.02247	0.02516	0.04763	0.04763	4.95	3.11	4.95	3.11
Outdoor Lighting										
Rate 52		0.09341	0.09341	0.02516	0.11857	0.11857				

**MONTANA-DAKOTA UTILITIES CO
ELECTRIC UTILITY - MONTANA**

**Derivation of Rate and Reconciliation
Residential Electric Service Rate 10
Pro Forma 2015 -Settlement**

Residential Service	Billing Determinants	Pro Forma @ Current Rates		Proposed Rates - Phase 1		Proposed Rates - Phase 2 1/	
		Rate	Revenue	Rate	Revenue	Rate	Revenue
Basic Service Charge	20,064	\$0.18 per day	\$1,318,205	\$0.18 per day	\$1,318,205	\$0.18 per day	\$1,318,205
Energy							
Summer	59,585,924	\$0.06813 per Kwh	\$4,059,589	\$0.07167 per Kwh	\$4,270,523	\$0.07804 per Kwh	\$4,650,086
Winter	135,654,617	\$0.04816 per Kwh	\$6,533,126	\$0.05067 per Kwh	\$6,873,619	\$0.05517 per Kwh	\$7,484,065
	195,240,541		10,592,715		11,144,142		12,134,151
Base Fuel	195,240,541	\$0.02516 per Kwh	4,912,252	\$0.02516 per Kwh	4,912,252	\$0.02516 per Kwh	4,912,252
Total Rate 10			<u>\$16,823,172</u>		<u>\$17,374,599</u>		<u>\$18,364,608</u>
Total Revenues Per Design					\$17,374,599		\$18,364,608
Target Revenues					17,374,300		18,364,943
Difference					<u>\$299</u>		<u>(\$335)</u>

Derivation of Rate:

	Phase 1	Phase 2
Pro Forma Revenues Non-Fuel Revenues	\$11,910,920	12,462,048
Pro Forma Revenue Increase	551,128	990,643
Total Revenue Requirement	<u>\$12,462,048</u>	<u>13,452,691</u>
% Increase Excluding Basic Service Charge	5.2030%	8.8890%

1/ Subject to adjustment for actual 2016 transmission expenses subject to stipulation parameters.

**MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - MONTANA**

**Derivation of Rate and Reconciliation
Residential Electric TOD Service Rate 16
Pro Forma 2015 -Settlement**

Based on a Sample of Rate 10 Billing Units

Residential Service	Billing Determinants	Pro Forma @ Current Rates		Proposed Phase 1 Rates		Proposed Rates - Phase 2 1/	
		Rate	Revenue	Rate	Revenue	Rate	Revenue
Basic Service Charge	286	\$0.35 per day	\$36,537	\$0.35 per day	\$36,537	\$0.35 per day	\$36,537
Energy							
Summer							
On-Peak Kwh	507,507	\$0.07715 per Kwh	\$39,154	\$0.08116 per Kwh	\$41,189	\$0.08837 per Kwh	\$44,848
Off Peak Kwh	655,646	\$0.04500 per Kwh	\$29,504	\$0.04734 per Kwh	\$31,038	\$0.05155 per Kwh	\$33,799
Subtotal	1,163,153						
Winter							
On-Peak Kwh	775,025	\$0.04715 per Kwh	\$36,542	\$0.04960 per Kwh	\$38,441	\$0.05401 per Kwh	\$41,859
Off Peak Kwh	1,400,956	\$0.04500 per Kwh	\$63,043	\$0.04734 per Kwh	\$66,321	\$0.05155 per Kwh	\$72,219
Subtotal	2,175,981						
Base Fuel	3,339,134	\$0.02516 per Kwh	84,013	\$0.02516 per Kwh	84,013	\$0.02516 per Kwh	84,013
Total Rate 16 Revenues			<u>\$288,793</u>		<u>\$297,539</u>		<u>\$313,275</u>

Derivation of Rate:

Increase in Rate 10 Non-Fuel Revenue excluding Basic Service Charge applied to Rate 16 Rate Components

1/ Subject to adjustment for actual 2016 transmission expenses subject to stipulation parameters.

**MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - MONTANA**

**Derivation of Rate and Reconciliation
Small General Electric Service Rate 20
Pro Forma 2015 -Settlement**

Small General Service	Billing	Pro Forma @ Current Rates		Proposed Rates - Phase 1		Proposed Rates - Phase 2 1/	
	Determinants	Rate	Revenue	Rate	Revenue	Rate	Revenue
Basic Service Charge							
Primary	5	\$0.54 per day	\$986	\$0.54 per day	\$986	\$0.54 per day	\$986
Secondary	5,746	0.54 per day	1,132,537	\$0.54 per day	1,132,537	\$0.54 per day	1,132,537
Total Base Rate	5,751		\$1,133,523		\$1,133,523		\$1,133,523
Energy							
Primary							
Summer	28,603	\$0.04357 per Kwh	1,246	0.04797 per Kwh	1,372	0.05499 per Kwh	1,573
Winter	65,415	\$0.02477 per Kwh	1,620	0.02727 per Kwh	1,784	0.03126 per Kwh	2,045
Subtotal	94,018		2,866		3,156		3,618
Secondary							
Summer	40,022,849	\$0.04457 per Kwh	1,783,818	0.04907 per Kwh	1,963,921	0.05625 per Kwh	2,251,285
Winter	88,353,057	\$0.02577 per Kwh	2,276,858	0.02837 per Kwh	2,506,576	0.03252 per Kwh	2,873,241
Subtotal	128,375,906		4,060,676		4,470,497		5,124,526
Total Energy	128,469,924		4,063,542		4,473,653		5,128,144
Demand							
Primary Service - Summer							
1st 10 Kw	58.4	\$0.00 per Kw	0	\$0.00 per Kw	0	0.00 per Kw	0
Over 10 Kw	13.6	\$8.75 per Kw	119	9.63 per Kw	131	11.04 per Kw	150
Primary Service - Winter							
1st 10 Kw	136.8	\$0.00 per Kw	0	0.00 per Kw	0	0.00 per Kw	0
Over 10 Kw	26.1	\$8.00 per Kw	209	8.81 per Kw	230	10.10 per Kw	264
Subtotal	234.9		328		361		414
Secondary Service - Summer							
1st 10 Kw	98,483.9	\$0.00 per Kw	0	\$0.00 per Kw	0	0.00 per Kw	0
Over 10 Kw	110,662.6	\$9.35 per Kw	1,034,695	10.29 per Kw	1,138,718	11.80 per Kw	1,305,427
Secondary Service - Winter							
1st 10 Kw	19,864.2	\$0.00 per Kw	0	0.00 per Kw	0	0.00 per Kw	0

**MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - MONTANA**

**Derivation of Rate and Reconciliation
Small General Electric Service Rate 20
Pro Forma 2015 -Settlement**

Small General Service	Billing Determinants	Pro Forma @ Current Rates		Proposed Rates - Phase 1		Proposed Rates - Phase 2 1/	
		Rate	Revenue	Rate	Revenue	Rate	Revenue
Over 10 Kw	89,403.4	\$8.55 per Kw	764,399	9.41 per Kw	841,286	10.79 per Kw	964,450
Subtotal	318,414.0		1,799,094		1,980,004		2,269,877
Total Demand	318,648.9		1,799,422		1,980,365		2,270,291
Base Fuel							
Primary Service	94,018	\$0.02453 per Kwh	2,306	\$0.02453 per Kwh	2,306	\$0.02453 per Kwh	2,306
Secondary Service	128,375,906	\$0.02516 per Kwh	3,229,938	\$0.02516 per Kwh	3,229,938	\$0.02516 per Kwh	3,229,938
Total Base Fuel			3,232,244		3,232,244		3,232,244
Total Rate 20 Revenues			<u>\$10,228,731</u>		<u>\$10,819,785</u>		<u>\$11,764,202</u>
Total Revenues Per Design					\$10,819,785		\$11,764,202
Target Revenues					10,820,361		11,765,345
Difference					<u>(\$576)</u>		<u>(\$1,143)</u>

Derivation of Rate:

	Phase 1	Phase 2
Pro Forma Revenues Non-Fuel Revenues	\$6,996,487	\$7,588,117
Pro Forma Revenue Increase	591,630	944,984
Total Revenue Requirement	\$7,588,117	\$8,533,101

% Increase Excluding Basic Service Charge 10.0910% 14.6400%

1/ Subject to adjustment for actual 2016 transmission expenses subject to stipulation parameters.

**MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - MONTANA**

**Derivation of Rate and Reconciliation
Irrigation Power Service Rate 25
Pro Forma 2015 -Settlement**

Irrigation Power Service	Billing Determinants	Pro Forma @ Current Rates		Proposed Rates - Phase 1		Proposed Rates - Phase 2 1/	
		Rate	Revenue	Rate	Revenue	Rate	Revenue
Basic Service Charge	113	\$0.53 per day	\$21,860	\$0.58 per day	\$23,922	\$0.66 per day	\$27,222
Energy	2,885,435	\$0.01937 per Kwh	55,891	\$0.02113 per Kwh	60,969	\$0.02393 per Kwh	69,048
Demand							
Summer	14,045.3	\$3.20 per KW	44,945	\$3.49 per KW	49,018	\$3.95 per KW	55,479
Winter	3,843.0	1.50 per KW	5,764	1.64 per KW	6,303	1.86 per KW	7,148
Total Demand	17,888.3		50,709		55,321		62,627
Base Fuel	2,885,435	\$0.02516 per Kwh	\$72,598	\$0.02516 per Kwh	\$72,598	\$0.02516 per Kwh	\$72,598
Total Revenue			<u>\$201,058</u>		<u>\$212,810</u>		<u>\$231,495</u>
Total Revenues Per Design					\$212,810		\$231,495
Target Revenues					212,729		231,318
Difference					<u>\$81</u>		<u>\$177</u>

Derivation of Rate:

	Phase 1	Phase 2
Pro Forma Revenues Non-Fuel Revenues	\$128,460	\$140,131
Pro Forma Revenue Increase	11,671	18,589
Total Revenue Requirement	\$140,131	\$158,720
% Increase Excluding Fuel	9.085%	13.265%

1/ Subject to adjustment for actual 2016 transmission expenses subject to stipulation parameters.

**MONTANA-DAKOTA UTILITIES CO
ELECTRIC UTILITY - MONTANA**

**Small General Time-of-Day Electric Service Rate 26
Pro Forma 2015 -Settlement**

Based on Sample of Rate 20 Billing Units

Small General TOD Service (Rate 26)	Billing Determinants	Pro Forma @ Current Rates		Proposed Phase 1 Rates		Proposed Rates - Phase 2 1/		
		Rate	Revenue	Rate	Revenue	Rate	Revenue	
Basic Service Charge								
Primary Service	5	\$26.50 per month	\$1,590	\$26.50 per month	\$1,590	\$26.50 per month	\$1,590	
Secondary Service	188	26.50 per month	59,784	26.50 per month	59,784	26.50 per month	59,784	
Total Base Rate	193		61,374		61,374		61,374	
Energy								
Summer Primary Service								
Off-Peak	15,182	\$0.02391 per Kwh	363	\$0.02632 per Kwh	400	\$0.03017 per Kwh	458	
On-Peak	13,421	0.05391 per Kwh	724	\$0.05935 per Kwh	797	\$0.06804 per Kwh	913	
Total Summer	28,603		1,087		1,197		1,371	
Winter Primary Service								
Off-Peak	38,559	\$0.02391 per Kwh	922	\$0.02632 per Kwh	1,015	\$0.03017 per Kwh	1,163	
On-Peak	26,856	0.04391 per Kwh	1,179	\$0.04834 per Kwh	1,298	\$0.05542 per Kwh	1,488	
Total Winter	65,415		2,101		2,313		2,651	
Summer Secondary Service								
Off-Peak	2,819,029	\$0.02491 per Kwh	70,222	\$0.02742 per Kwh	77,298	\$0.03143 per Kwh	88,602	
On-Peak	2,491,891	0.05491 per Kwh	136,830	\$0.06045 per Kwh	150,635	\$0.06930 per Kwh	172,688	
Total Summer	5,310,920		207,052		227,933		261,290	
Winter Secondary Service								
Off-Peak	5,696,467	\$0.02491 per Kwh	141,899	\$0.02742 per Kwh	156,197	\$0.03143 per Kwh	179,040	
On-Peak	3,967,588	0.04491 per Kwh	178,184	\$0.04944 per Kwh	196,158	\$0.05668 per Kwh	224,883	
Total Winter	9,664,055		320,083		352,355		403,923	
Total Energy	15,068,993		530,323		583,798		669,235	
Demand								
Summer Primary Service								
Off-Peak Over 10 Kw		\$0.00 per KW	0	\$0.00 per KW	0	\$0.00 per KW	0	
On-Peak Over 10 Kw	13.6	10.60 per KW	144	11.67 per KW	159	13.38 per KW	182	
Total Summer Demand	13.6		144		159		182	
Winter Primary Service								
Off-Peak Over 10 Kw		\$0.00 per KW	0	\$0.00 per KW	0	\$0.00 per KW	0	
On-Peak Over 10 Kw	26.1	8.50 per KW	222	9.36 per KW	244	10.73 per KW	280	
	26.1		222		244		280	

**MONTANA-DAKOTA UTILITIES CO
ELECTRIC UTILITY - MONTANA**

**Small General Time-of-Day Electric Service Rate 26
Pro Forma 2015 -Settlement**

Small General TOD Service (Rate 26)	Billing Determinants	Based on Sample of Rate 20 Billing Units					
		Pro Forma @ Current Rates		Proposed Phase 1 Rates		Proposed Rates - Phase 2 1/	
		Rate	Revenue	Rate	Revenue	Rate	Revenue
Summer Secondary Service							
Off-Peak Over 10 Kw		\$0.00 per KW	0	\$0.00 per KW	0	\$0.00 per KW	0
On-Peak Over 10 Kw	6,392.0	10.85 per KW	69,353	11.94 per KW	76,320	13.69 per KW	87,506
Total Summer Demand	6,392.0		69,353		76,320		87,506
Winter Secondary Service							
Off-Peak Over 10 Kw		\$0.00 per KW	0	\$0.00 per KW	0	\$0.00 per KW	0
On-Peak Over 10 Kw	3,282.0	8.75 per KW	28,718	9.63 per KW	31,606	11.04 per KW	36,233
	3,282.0		28,718		31,606		36,233
Total Demand	9,713.7		98,437		108,329		124,201
Base Fuel							
Primary	94,018	\$0.02453 per Kwh	2,306	\$0.02453 per Kwh	2,306	\$0.02453 per Kwh	2,306
Secondary	14,974,975	\$0.02516 per Kwh	376,770	\$0.02516 per Kwh	376,770	\$0.02516 per Kwh	376,770
Total Base Fuel			379,076		379,076		379,076
Total Rate 26 Revenue			\$1,069,210		\$1,132,577		\$1,233,886

Derivation of Rate:

Increase in Rate 20 Non-Fuel Revenue excluding Basic Service Charge applied to Rate 26 Rate Components
1/ Subject to adjustment for actual 2016 transmission expenses subject to stipulation parameters.

**MONTANA-DAKOTA UTILITIES CO
ELECTRIC UTILITY - MONTANA**

**Derivation of Rate and Reconciliation
Large General Electric Service Rate 30
Pro Forma 2015 -Settlement**

Large General Service 30	Billing Determinants	Pro Forma @ Current Rates		Proposed Rates - Phase 1		Proposed Rates - Phase 2 1/		
		Rate	Revenue	Rate	Revenue	Rate	Revenue	
Basic Service Charge								
Primary Service Rate 30	14	\$185.00 per month	\$31,080	\$213.51 per month	\$35,870	\$243.36 per month	\$40,884	
Secondary Service Rate 30	262	70.00 per month	220,080	80.36 per month	252,652	91.21 per month	286,764	
Total Base Rate	276		251,160		288,522		327,648	
Energy								
Primary Service - Summer	11,642,019	\$0.01633 per Kwh	190,114	\$0.01885 per Kwh	219,452	\$0.02149 per Kwh	250,187	
Primary Service - Winter	34,812,274	0.01633 per Kwh	568,484	\$0.01885 per Kwh	656,211	\$0.02149 per Kwh	748,116	
Secondary Service - Summer	55,783,551	\$0.01650 per Kwh	920,429	\$0.01894 per Kwh	1,056,540	\$0.02150 per Kwh	1,199,346	
Secondary Service - Winter	113,559,625	0.01650 per Kwh	1,873,734	\$0.01894 per Kwh	2,150,819	\$0.02150 per Kwh	2,441,532	
Subtotal	169,343,176		2,794,163		3,207,359		3,640,878	
Total Energy	215,797,469		3,552,761		4,083,022		4,639,181	
Demand								
Primary Service - Summer	27,064.7	\$9.33 per Kw	252,514	\$10.77 per Kw	291,487	\$12.28 per Kw	332,355	
Primary Service - Winter	76,075.6	8.33 per Kw	633,710	9.61 per Kw	731,087	10.95 per Kw	833,028	
Subtotal	103,140.3		886,224		1,022,574		1,165,383	
Secondary Service - Summer	139,266.2	\$9.59 per Kw	1,335,563	\$11.01 per Kw	1,533,321	\$12.50 per Kw	1,740,828	
Secondary Service - Winter	283,392.2	8.56 per Kw	2,425,837	9.83 per Kw	2,785,745	11.16 per Kw	3,162,657	
Subtotal	422,658.4		3,761,400		4,319,066		4,903,485	
Total Demand	525,798.7		4,647,624		5,341,640		6,068,868	
Base Fuel								
Primary Service- Rate 30	46,454,293	\$0.02453 per Kwh	1,139,524	\$0.02453 per Kwh	1,139,524	\$0.02453 per Kwh	1,139,524	
Secondary Service- Rate 30	169,343,176	0.02516 per Kwh	4,260,674	0.02516 per Kwh	4,260,674	0.02516 per Kwh	4,260,674	
Total Base Fuel	215,797,469		5,400,198		5,400,198		5,400,198	
Total Rate 30 Revenue			<u>\$13,851,743</u>		<u>\$15,113,382</u>		<u>\$16,435,895</u>	
Primary Revenues Per Design					\$3,073,631		\$3,344,094	
Primary Target Revenues					3,073,713		3,344,130	
Difference					<u>(\$82)</u>		<u>(\$36)</u>	
Secondary Revenues Per Design					\$12,039,751		\$13,091,801	
Secondary Target Revenues					12,039,098		13,088,973	
Difference					<u>\$653</u>		<u>\$2,828</u>	
Derivation of Rate:								
Primary		Phase 1	Phase 2	Secondary	Phase 1	Phase 2		
Pro Forma Revenues Non-Fuel Revenues		\$1,675,902	\$1,934,189	Pro Forma Revenues Non-Fuel Revenues	\$6,775,643	\$7,778,424		
Pro Forma Revenue Increase		258,287	270,417	Pro Forma Revenue Increase	1,002,781	1,049,875		
Total Revenue Requirement		\$1,934,189	\$2,204,606	Total Revenue Requirement	\$7,778,424	\$8,828,299		
% Increase Excluding Fuel		15.412%	13.981%	% Increase Excluding Fuel	14.800%	13.497%		

1/ Subject to adjustment for actual 2016 transmission expenses subject to stipulation parameters.

**MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - MONTANA**

**Derivation of Rate and Reconciliation
Large General Time-of-Day Electric Service Rate 31
Pro Forma 2015 -Settlement**

Large General TOD Service (Rate 31)	Billing Determinants	Pro Forma @ Current Rates		Proposed Rates - Phase 1		Proposed Rates - Phase 2 1/	
		Rate	Revenue	Rate	Revenue	Rate	Revenue
Basic Service Charge							
Primary Service	2	\$82.00 per month	\$1,968	\$93.56 per month	\$2,245	\$105.66 per month	\$2,536
Secondary Service	7	82.00 per month	6,888	93.56 per month	7,859	105.66 per month	8,875
Total Base Rate	9		8,856		10,104		11,411
Energy							
Summer Primary Service							
Off-Peak	4,014,400	\$0.01542 per Kwh	61,902	\$0.01759 per Kwh	70,613	\$0.01986 per Kwh	79,726
On-Peak	1,200,800	0.04542 per Kwh	54,540	\$0.05182 per Kwh	62,225	\$0.05852 per Kwh	70,271
Total Summer	5,215,200		116,442		132,838		149,997
Winter Primary Service							
Off-Peak	7,689,600	\$0.01542 per Kwh	118,574	\$0.01759 per Kwh	135,260	\$0.01986 per Kwh	152,715
On-Peak	2,320,800	0.03542 per Kwh	82,203	\$0.04041 per Kwh	93,784	\$0.04564 per Kwh	105,921
Total Winter	10,010,400		200,777		229,044		258,636
Summer Secondary Service							
Off-Peak	75,031	\$0.01559 per Kwh	1,170	\$0.01779 per Kwh	1,335	\$0.02009 per Kwh	1,507
On-Peak	23,784	0.04559 per Kwh	1,084	\$0.05202 per Kwh	1,237	\$0.05875 per Kwh	1,397
Total Summer	98,815		2,254		2,572		2,904
Winter Secondary Service							
Off-Peak	325,153	\$0.01559 per Kwh	5,069	\$0.01779 per Kwh	5,784	\$0.02009 per Kwh	6,532
On-Peak	186,492	0.03559 per Kwh	6,637	\$0.04061 per Kwh	7,573	\$0.04586 per Kwh	8,553
Total Winter	511,645		11,706		13,357		15,085
Total Energy	15,836,060		331,179		377,811		426,622
Demand							
Summer Primary Service							
Off-Peak	14,714.0	\$0.00 per KW	0	\$0.00 per KW	0	\$0.00 per KW	0
On-Peak	14,519.5	13.00 per KW	188,754	14.83 per KW	215,324	16.75 per KW	243,202
Total Summer Deman	29,233.5		188,754		215,324		243,202
Winter Primary Service							
Off-Peak	30,555.2	\$0.00 per KW	0	\$0.00 per KW	0	\$0.00 per KW	0
On-Peak	29,967.2	5.45 per KW	163,321	6.22 per KW	186,396	7.02 per KW	210,370
	60,522.4		163,321		186,396		210,370
Summer Secondary Service							
Off-Peak	575.6	\$0.00 per KW	0	\$0.00 per KW	0	\$0.00 per KW	0
On-Peak	425.5	13.50 per KW	5,744	15.40 per KW	6,553	17.39 per KW	7,399
Total Summer Deman	1,001.1		5,744		6,553		7,399

**MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - MONTANA**

**Derivation of Rate and Reconciliation
Large General Time-of-Day Electric Service Rate 31
Pro Forma 2015 -Settlement**

Large General TOD Service (Rate 31)	Billing Determinants	Pro Forma @ Current Rates		Proposed Rates - Phase 1		Proposed Rates - Phase 2 1/	
		Rate	Revenue	Rate	Revenue	Rate	Revenue
Winter Secondary Service							
Off-Peak	3,901.4	\$0.00 per KW	0	\$0.00 per KW	0	\$0.00 per KW	0
On-Peak	3,673.8	6.00 per KW	22,043	6.85 per KW	25,166	7.74 per KW	28,435
	<u>7,575.2</u>		<u>22,043</u>		<u>25,166</u>		<u>28,435</u>
Total Demand	98,332.2		379,862		433,439		489,406
Base Fuel							
Primary	15,225,600	\$0.02453 per Kwh	373,484	\$0.02453 per Kwh	373,484	\$0.02453 per Kwh	373,484
Secondary	610,460	\$0.02516 per Kwh	15,359	\$0.02516 per Kwh	15,359	\$0.02516 per Kwh	15,359
Total Base Fuel			<u>388,843</u>		<u>388,843</u>		<u>388,843</u>
 Total Rate 31 Revenue			<u>\$1,108,740</u>		<u>\$1,210,197</u>		<u>\$1,316,282</u>
 Total Revenues Per Design					\$1,210,197		\$1,316,282
Target Revenues					<u>1,210,230</u>		<u>1,316,463</u>
Difference					<u>(\$33)</u>		<u>(\$181)</u>

Derivation of Rate:

	Phase 1	Phase 2
Pro Forma Revenues Non-Fuel Revenues	\$719,897	\$821,387
Pro Forma Revenue Increase	101,490	106,233
Total Revenue Requirement	<u>\$821,387</u>	<u>\$927,620</u>
 % Increase Excluding Fuel	14.098%	12.933%

1/ Subject to adjustment for actual 2016 transmission expenses subject to stipulation parameters.

MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - MONTANA
Derivation of Rate and Reconciliation
General Electric Space Heating Service Rate 32
Pro Forma 2015 -Settlement

Space Heating Service Rate 32	Billing Determinants	Pro Forma @ Current Rates		Proposed Rates - Phase 1		Proposed Rates - Phase 2 1/		
		Rate	Revenue	Rate	Revenue	Rate	Revenue	
Basic Service Charge								
Primary Service Rate 32	0	\$15.00 per month	\$0	\$17.36 per month	\$0	\$19.84 per month	\$0	
Secondary Service Rate 32	9	15.00 per month	1,620	17.36 per month	1,875	19.84 per month	2,143	
Total Base Rate	9		1,620		1,875		2,143	
Energy								
Primary Service	0	\$0.01633 per Kwh	0	\$0.01890 per Kwh	0	\$0.02159 per Kwh	0	
Secondary Service	1,048,759	\$0.01650 per Kwh	17,305	\$0.01910 per Kwh	20,031	\$0.02182 per Kwh	22,884	
Subtotal	1,048,759		17,305		20,031		22,884	
Total Energy	1,048,759		17,305		20,031		22,884	
Demand								
Primary Service - Summer	0.0	\$9.33 per Kw	0	\$10.80 per Kw	0	\$12.34 per Kw	0	
Primary Service - Winter	0.0	1.50 per Kw	0	1.74 per Kw	0	1.99 per Kw	0	
Subtotal	0.0		0		0		0	
Secondary Service - Summer	853.0	\$9.59 per Kw	8,180	\$11.10 per Kw	9,468	\$12.68 per Kw	10,816	
Secondary Service - Winter	5,047.0	1.75 per Kw	8,832	2.03 per Kw	10,245	2.32 per Kw	11,709	
Subtotal	5,900.0		17,012		19,713		22,525	
Total Demand	5,900.0		17,012		19,713		22,525	
Base Fuel								
Primary Service	0	\$0.02453 per Kwh	0	\$0.02453 per Kwh	0	\$0.02453 per Kwh	0	
Secondary Service	1,048,759	\$0.02516 per Kwh	26,387	\$0.02516 per Kwh	26,387	\$0.02516 per Kwh	26,387	
Total Base Fuel	1,048,759		26,387		26,387		26,387	
Total Rate 32 Revenue			<u>\$62,324</u>		<u>\$68,006</u>		<u>\$73,939</u>	
Total Revenues Per Design					\$68,006		\$73,939	
Target Revenues					67,990		73,922	
Difference					\$16		\$17	

Derivation of Rate:

	Phase 1	Phase 2
Pro Forma Revenues Non-Fuel Revenues	\$35,937	\$41,603
Pro Forma Revenue Increase	5,666	5,932
Total Revenue Requirement	<u>\$41,603</u>	<u>\$47,535</u>
% Increase Excluding Fuel	15.766%	14.259%

1/ Subject to adjustment for actual 2016 transmission expenses subject to stipulation parameters.

**MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - MONTANA**

**Contract Service Rate 35
Pro Forma 2015 -Settlement**

Contract Service	Billing Determinants	Pro Forma @ Current Rates		Proposed Rates - Phase 1		Proposed Rates - Phase 2 1/	
		Rate	Revenue	Rate	Revenue	Rate	Revenue
Basic Service Charge	12	\$80.00 per month	\$11,520	\$84.94 per month	\$12,231	\$96.44 per month	\$13,887
Energy	228,554,425	\$0.01804 per Kwh	4,123,122	\$0.01915 per Kwh	4,376,817	\$0.02174 per Kwh	4,968,773
Demand							
Summer	118,171.3	\$6.30 per Kw	744,479	\$6.69 per Kw	790,566	\$7.60 per Kw	898,102
Winter	244,551.6	\$5.30 per Kw	1,296,123	\$5.63 per Kw	1,376,826	\$6.39 per Kw	1,562,685
Subtotal	362,722.9		2,040,602		2,167,392		2,460,787
Base Fuel	228,554,425	\$0.02347 per Kwh	5,364,172	\$0.02347 per Kwh	5,364,172	\$0.02347 per Kwh	5,364,172
Total Rate 35 Revenue			<u>\$11,539,416</u>		<u>\$11,920,612</u>		<u>\$12,807,619</u>
Total Revenues Per Design					\$11,920,612		\$12,807,619
Target Revenues					11,920,681		12,808,590
Difference					<u>(\$69)</u>		<u>(\$971)</u>

Derivation of Rate:

	Phase 1	Phase 2
Pro Forma Revenues Non-Fuel Revenues	\$6,175,244	\$6,556,509
Pro Forma Revenue Increase	381,265	887,909
Total Revenue Requirement	\$6,556,509	\$7,444,418
% Increase Excluding Fuel	6.174%	13.542%

1/ Subject to adjustment for actual 2016 transmission expenses subject to stipulation parameters.

**MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - MONTANA**

**Municipal Lighting Service Rate 41
Pro Forma 2015 -Settlement**

Municipal Lighting Service	Billing Determinants	Pro Forma @ Current Rates		Proposed Rates - Phase 1		Proposed Rates - Phase 2 1/	
		Rate	Revenue	Rate	Revenue	Rate	Revenue
Basic Service Charge	0	\$0.00 per month	\$0	\$0.00 per month	\$0	\$0.00 per month	\$0
Energy							
Company-Owned	6,080,236	\$0.05337 per Kwh	324,502	\$0.05815 per Kwh	353,566	\$0.06545 per Kwh	397,951
Municipal-Owned	818,000	\$0.04537 per Kwh	37,113	\$0.04943 per Kwh	40,434	\$0.05563 per Kwh	45,505
Base Fuel	6,898,236	\$0.02516 per Kwh	173,559	\$0.02516 per Kwh	173,559	\$0.02516 per Kwh	173,559
Total Rate 41 Revenue			<u>\$535,174</u>		<u>\$567,559</u>		<u>\$617,015</u>
Total Revenues Per Design					\$567,559		\$617,015
Target Revenues					<u>567,559</u>		<u>617,008</u>
Difference					<u>\$0</u>		<u>\$7</u>

Derivation of Rate:

	<u>Phase 1</u>	<u>Phase 2</u>
Pro Forma Revenues Non-Fuel Revenues	\$361,615	\$394,000
Pro Forma Revenue Increase	<u>32,385</u>	<u>49,449</u>
Total Revenue Requirement	\$394,000	\$443,449
% Increase Excluding Fuel	8.956%	12.551%

1/ Subject to adjustment for actual 2016 transmission expenses subject to stipulation parameters.

**MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - MONTANA**

**Derivation of Rate and Reconciliation
Municipal Pumping Service Rate 48
Pro Forma 2015 -Settlement**

Municipal Pumping Service	Billing Determinants	Pro Forma @ Current Rates		Proposed Rates - Phase 1		Proposed Rates - Phase 2 1/	
		Rate	Revenue	Rate	Revenue	Rate	Revenue
Basic Service Charge	111	\$21.50 per month	\$28,638	\$24.76 per month	\$32,980	\$28.08 per month	\$37,403
Energy	7,341,210	\$0.01951 per Kwh	143,227	\$0.02247 per Kwh	164,957	\$0.02548 per Kwh	187,054
Demand							
Summer	11,702.6	\$4.30 per Kw	50,321	\$4.95 per Kw	57,928	\$5.61 per Kw	65,652
Winter	19,753.8	\$2.70 per Kw	53,335	\$3.11 per Kw	61,434	\$3.53 per Kw	69,731
Total Demand	31,456.4		103,656		119,362		135,383
Base Fuel	7,341,210	\$0.02516 per Kwh	184,705	\$0.02516 per Kwh	184,705	\$0.02516 per Kwh	184,705
Total Rate 48 Revenue			<u>\$460,226</u>		<u>\$502,004</u>		<u>\$544,545</u>
Total Revenues Per Design					\$502,004		\$544,545
Target Revenues					502,054		544,632
Difference					<u>(\$50)</u>		<u>(\$87)</u>

Derivation of Rate:

	Phase 1	Phase 2
Pro Forma Revenues Non-Fuel Revenue	\$275,521	\$317,349
Pro Forma Revenue Increase	41,828	42,578
Total Revenue Requirement	\$317,349	\$359,927

% Increase Excluding Fuel 15.181% 13.417%

1/ Subject to adjustment for actual 2016 transmission expenses subject to stipulation parameters.

**MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - MONTANA**

**Outdoor Lighting Service Rate 52
Pro Forma 2015 -Settlement**

<u>Outdoor Lighting</u>	Billing Determinants	Pro Forma @ Current Rates		Proposed Rates - Phase 1		Proposed Rates - Phase 2 1/	
		Rate	Revenue	Rate	Revenue	Rate	Revenue
Basic Service Charge	0	\$0.00 per month	\$0	\$0.00 per month	\$0	\$0.00 per month	\$0
Energy	3,237,499	\$0.08665 per Kwh	280,529	\$0.09341 per Kwh	302,415	\$0.10372 per Kwh	335,793
Base Fuel	3,237,499	\$0.02516 per Kwh	81,455	\$0.02516 per Kwh	81,455	\$0.02516 per Kwh	81,455
Total Revenue			<u>\$361,984</u>		<u>\$383,870</u>		<u>\$417,248</u>
Total Revenues Per Design					\$383,870		\$417,248
Target Revenues					<u>383,853</u>		<u>417,244</u>
Difference					<u>\$17</u>		<u>\$4</u>

Derivation of Rate:

	Phase 1	Phase 2
Pro Forma Revenues Non-Fuel Revenues	<u>\$280,529</u>	<u>\$302,398</u>
Pro Forma Revenue Increase	<u>21,869</u>	<u>33,391</u>
Total Revenue Requirement	<u>\$302,398</u>	<u>\$335,789</u>
% Increase Excluding Fuel	7.796%	11.042%

1/ Subject to adjustment for actual 2016 transmission expenses subject to stipulation parameters.