



UTILITIES CO.

A Division of MDU Resources Group, Inc.

400 North Fourth Street

Bismarck, ND 58501

(701) 222-7900

June 26, 2017

Executive Secretary
North Dakota Public Service Commission
State Capitol
Bismarck, ND 58505-0480

Re: Case No. PU-16-666
Electric Rate Increase
Compliance Tariffs

Montana-Dakota Utilities Co. (Montana-Dakota), a Division of MDU Resources Group, Inc., herewith submits an original and seven copies of revised electric service tariff sheets and supporting work papers in compliance with the Order issued by the North Dakota Public Service Commission on June 16, 2017 in the above referenced case (Commission Order).

The rates set forth on the revised tariff sheets provided in Exhibit A will result in an increase in annual revenues of \$7,498,360. Recovery of the true-up adjustment account balances are also reflected in the applicable rider adjustments as authorized by the Commission. The Transmission, Generation and Environmental true-up balances reflect a 24-month recovery with the Renewable true-up balance amortized over 12 months. The Environmental true-up adjustment of \$0.00072 per Kwh has been added to the Fuel and Purchased Power Adjustment as the projects currently recovered through the Environmental Rider have been moved into base retail rates and the Environmental Rider will be set to zero until such time future projects are authorized to be recovered through this mechanism.

The revised tariffs reflect the following provisions as set forth in the Settlement and the Commission's Order:

- The Basic Service Charges and Demand Charges are reflected on the compliance tariffs as proposed by the Company, with the exception of the following:
 - The Residential Basic Service Charge was set at \$0.46 per day pursuant to Paragraph 12 of the Settlement Agreement
 - The Basic Service Charge for Primary Service under the General Service Time of Day Rate 31 was left at \$97.00 in accordance with Paragraph 11 of the Settlement Agreement.
 - The proposed Off-Peak Demand Charge under the General Service Time of Day Rate 31 schedule was eliminated. The Company increased the on-peak

demand charges to reflect a demand charge higher than the General Service Rate 30 schedule in order to influence customers to move load to off-peak hours in order to pay less under the time of day schedule than would otherwise be paid under General Service Rate 30.

- The current language on the Firm Service Economic Development Rate 34 that allows the Commission to review agreements under this tariff remains in place.
- The “Time and Manner of the Filing” section on each of the rider schedules was eliminated. The Company agrees to file its annual rider updates such that the Commission has a 90-day review period.
- The Base Fuel and Purchased Power line currently shown on each rate schedule has been removed.
- The Fuel and Purchased Power Adjustment clause (Rate 58) has been revised, as described below, to reflect the terms of the Settlement Agreement:
 - Reagent and sand costs recorded under Account 502 have been included.
 - The base fuel amount has been eliminated and the July 2017 Fuel and Purchased Power Adjustment has been restated as provided in Exhibit B.
 - The current fuel and purchased power costs are no longer stated on the Rate 58 schedule. A link to the Company’s web site has been included to provide the current fuel and purchased power costs along with a comparison to the prior month. The link will be available upon implementation of the rates upon consultation with Commission Staff regarding placement of the information. The message to be included is shown on Exhibit C.
 - As noted above, the recovery of the Environmental true-up balance is included with the monthly Fuel and Purchased Power cost adjustment and is shown separately on the Billing Adjustment Summary sheet provided in Exhibit B.
- The Company will develop a communication plan regarding consumer deposit information, in conjunction with Commission Staff, to be presented on the Company’s website.
- The following changes are included in General Provisions Rate 100:
 - The Returned Check Charge has been changed to \$40.00 per occurrence.
 - The Reconnection Charge for seasonal customers has been differentiated between customers with a demand meter installed and customers that do not have a demand meter.
 - The provision related to the employee bill discount has been clarified to include qualifying retirees only.

- Clarifying changes to the Electric Service Rules and Regulations Rate 110 as originally proposed.

Montana-Dakota requests that the following tariff sheets provided as Exhibit A be approved effective with service rendered on and after July 10, 2017.

Title	Tariff Designation
Table of Contents	5 th Revised Sheet No. 1 6 th Revised Sheet No. 1.1
Residential Electric Service Rate 10	8 th Revised Sheet No. 3
Reserved for Future Use	1 st Revised Sheet No. 3.1
Optional Residential Thermal Energy Storage Rate 13	2 nd Revised Sheet No. 4
Optional Time-Of-Day Residential Service Rate 16	10 th Revised Sheet No. 7
Small General Electric Service Rate 20	8 th Revised Sheet No. 10 3 rd Revised Sheet No. 10.1
Irrigation Power Service Rate 25	4 th Revised Sheet No. 14 7 th Revised Sheet No. 14.1
Optional Time-of-Day Small General Electric Service Rate 26	10 th Revised Sheet No. 15
General Electric Service Rate 30	4 th Revised Sheet No. 18 7 th Revised Sheet No. 18.1
Reserved for Future Use	1 st Revised Sheet No. 18.2
Optional Time-of-Day General Electric Service Rate 31	6 th Revised Sheet No. 19 10 th Revised Sheet No. 19.1 4 th Revised Sheet No. 19.2
General Electric Space Heating Service Rate 32	5 th Revised Sheet No. 20 9 th Revised Sheet No. 20.1 2 nd Revised Sheet No. 20.2
Firm Service Economic Development Rate 34	3 rd Revised Sheet No. 22
Interruptible Large Power Demand Response Rate 38	4 th Revised Sheet No. 23 7 th Revised Sheet Nos. 23.1

	5 th Revised Sheet No. 23.2
Small Municipal Electric Service Rate 40	4 th Revised Sheet No. 25 8 th Revised Sheet No. 25.1 5 th Revised Sheet No. 25.2
Municipal Lighting Service Rate 41	7 th Revised Sheet No. 26 4 th Revised Sheet No. 26.1
Municipal Pumping Service Rate 48	4 th Revised Sheet No. 32 8 th Revised Sheet No. 32.1
Reserved for Future Use	2 nd Revised Sheet No. 32.2
Outdoor Lighting Service Rate 52	8 th Revised Sheet No. 36 3 rd Revised Sheet No. 36.1
Reserved for Future Use	1 st Revised Sheet No. 36.2
Renewable Resource Cost Adjustment Rate 55	1 st Revised Sheet No. 39
Reserved for Future Use	1 st Revised Sheet No. 39.1
Generation Resource Recovery Rider Rate 56	2 nd Revised Sheet No. 40 3 rd Revised Sheet No. 40.1
Environmental Cost Recovery Rider Rate 57	4 th Revised Sheet No. 41
Reserved for Future Use	5 th Revised Sheet No. 41.1
Fuel Clause Rate 58	6 th Revised Sheet No. 42 5 th Revised Sheet Nos. 42.1 63 rd Revised Sheet No. 42.2
Transmission Cost Adjustment Rate 59	1 st Revised Sheet No. 43 5 th Revised Sheet No. 43.1
Occasional Power Purchase Rate 95 Non-Time Differentiated	17 th Revised Sheet No. 44
Parallel Generation Peaking Facility Purchase Rate 96 Time Differentiated	17 th Revised Sheet No. 45
General Provisions Rate 100	2 nd Revised Sheet No. 49

1st Revised Sheet Nos. 49.4 – 49.7
2nd Revised Sheet No. 49.8

Electric Service Rules and Regulations Rate 110

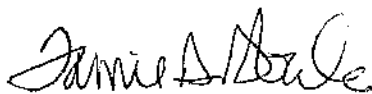
2nd Revised Sheet Nos. 58 – 58.19
3rd Revised Sheet No. 58.20
2nd Revised Sheet Nos. 58.21 – 58.30
Original Sheet No. 58.31

The workpapers underlying the derivation of the proposed rates are provided as Exhibit D.

Please contact me at 701.222.7856 if you have any questions regarding the compliance filing.

Please acknowledge receipt by stamping or initialing the duplicate copy of this letter attached hereto.

Sincerely,



Tamie A. Aberle
Director of Regulatory Affairs

Cc: Service List

CERTIFICATE OF SERVICE

Montana-Dakota Utilities Co., a)
Division of MDU Resources Group,) Case No. PU-16-666
Inc. Electric Rate Increase)
Application)

Caitlin Straabe certifies that on the 26th day of June, 2017 she filed an original and seven copies of Montana-Dakota Utilities Co.'s Compliance Filing with the North Dakota Public Service Commission and served an electronic copy to the following individuals:

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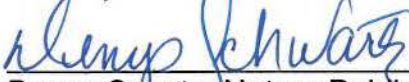
Jerry Lein
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Caitlin Straabe

Subscribed and sworn to before me this 26th day of June, 2017.


Denys Swartz, Notary Public
Burleigh County, North Dakota
My Commission Expires: 12/31/2018

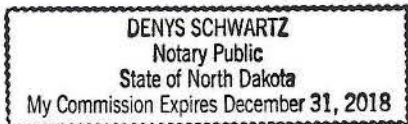


Exhibit A

Exhibit A



Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of North Dakota Electric Rate Schedule

NDPSC Volume 4
5th Revised Sheet No. 1
Canceling 4th Revised Sheet No. 1

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State of North Dakota Electric Rate Schedule

NDPSC Volume 4
6th Revised Sheet No. 1.1
Canceling 5th Revised Sheet No. 1.1

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400 N 4th Street
Bismarck, ND 58501

State of North Dakota Electric Rate Schedule

NDPSC Volume 4
8th Revised Sheet No. 3
Canceling 7th Revised Sheet No. 3

RESIDENTIAL ELECTRIC SERVICE Rate 10

Page 1 of 1

Availability:

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

Rate:

Basic Service Charge:	\$0.46 per day
Energy Charge:	
October – May:	
First 750 Kwh per month	6.133¢ per Kwh
Over 750 Kwh per month	3.133¢ per Kwh
June – September:	6.133¢ per Kwh

Minimum Bill:

Basic Service Charge.

Payment:

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

Adjustment Clauses:

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

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

General Terms and Conditions:

The foregoing schedule is subject to Rates 100-112 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 North Dakota Electric Rate Schedule

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Canceling Original Sheet No. 3.1

Reserved for Future Use

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Montana-Dakota Utilities Co.

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400 N 4th Street
Bismarck, ND 58501

State of North Dakota Electric Rate Schedule

NDPSC Volume 4

2nd Revised Sheet No. 4

Canceling 1st Revised Sheet No. 4

OPTIONAL RESIDENTIAL ELECTRIC THERMAL ENERGY STORAGE SERVICE Rate 13

Page 1 of 2

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: \$0.75 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: 1.100¢ per Kwh

On-Peak Energy Charge:

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

October – May:

First 750 Kwh per month 6.577¢ per Kwh

Over 750 Kwh per month 3.577¢ per Kwh

June – September: 6.577¢ 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.

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State of North Dakota Electric Rate Schedule

NDPSC Volume 4
10th Revised Sheet No. 7
Canceling 9th Revised Sheet No. 7

OPTIONAL TIME-OF-DAY RESIDENTIAL ELECTRIC SERVICE Rate 16

Page 1 of 2

Availability:

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

Rate:

Basic Service Charge: \$0.75 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 6.110¢ per Kwh

June – September 7.610¢ per Kwh

Off-Peak Energy:

For all energy not covered by the On-Peak rating period.

October – May 3.110¢ per Kwh

June – September 4.610¢ per Kwh

Minimum Bill:

Basic Service Charge.

Payment:

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

Adjustment Clauses:

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

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State of North Dakota Electric Rate Schedule

NDPSC Volume 4
8th Revised Sheet No. 10
Canceling 7th Revised Sheet No. 10

SMALL GENERAL ELECTRIC SERVICE Rate 20

Page 1 of 2

Availability:

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

Rate:

Basic Service Charge: \$0.84 per day

Energy Charge:

October – May:

First 750 Kwh per month 6.520¢ per Kwh

Over 750 Kwh per month 3.520¢ per Kwh

June – September: 6.520¢ per Kwh

Minimum Bill:

Basic Service Charge.

Payment:

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

Adjustment Clauses:

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

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

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Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of North Dakota Electric Rate Schedule

NDPSC Volume 4

3rd Revised Sheet No. 10.1

Canceling 2nd Revised Sheet No. 10.1

SMALL GENERAL ELECTRIC SERVICE Rate 20

Page 2 of 2

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 may take service under this rate provided customer's monthly Kwh will not exceed 4,000 Kwh per month for four consecutive months or connected load will not exceed 20 Kw.
3. Non-metered services. At the Company's discretion, the installation of a meter on a customer's service may not be warranted. In the absence of measuring a customer's use, customers will be billed a predetermined energy use amount each month based on the operating characteristics of the equipment being served, such as Wi-Fi equipment served on Company-owned poles.
4. The foregoing schedule is subject to Rates 100-112 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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Case No.: PU-16-666



Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of North Dakota Electric Rate Schedule

NDPSC Volume 4
4th Revised Sheet No. 14
Canceling 3rd Revised Sheet No. 14

IRRIGATION POWER SERVICE Rate 25

Page 1 of 2

Availability:

For irrigation power service.

Rate:

Basic Service Charge: \$1.50 per day

Demand Charge:

October – May \$1.25 per Kw

June – September \$5.00 per Kw

Energy Charge: 0.255¢ 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.

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.

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

Case No.: PU-16-666



Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of North Dakota Electric Rate Schedule

NDPSC Volume 4

7th Revised Sheet No. 14.1

Canceling 6th Revised Sheet No. 14.1

IRRIGATION POWER SERVICE Rate 25

Page 2 of 2

Adjustment Clauses:

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

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

General Terms and Conditions:

The foregoing schedule is subject to Rates 100-112 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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Bismarck, ND 58501

State of North Dakota Electric Rate Schedule

NDPSC Volume 4
10th Revised Sheet No. 15
Canceling 9th Revised Sheet No. 15

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

Page 1 of 2

Availability:

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

Rate:

Basic Service Charge: \$1.00 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 5.193¢ per Kwh
June – September 6.693¢ per Kwh

Off-Peak Energy:

For all energy not covered by the On-Peak rating period.

October – May 2.693¢ per Kwh
June – September 4.193¢ 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.

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400 N 4th Street
Bismarck, ND 58501

State of North Dakota Electric Rate Schedule

NDPSC Volume 4
4th Revised Sheet No. 18
Canceling 3rd Revised Sheet No. 18

GENERAL ELECTRIC SERVICE Rate 30

Page 1 of 2

Availability:

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

Rate:

Primary Service:

Basic Service Charge: \$100.00 per month

Demand Charge:

October – May \$11.00 per Kw

June – September \$14.00 per Kw

Energy Charge: 1.751¢ per Kwh

Secondary Service:

Basic Service Charge: \$56.00 per month

Demand Charge:

October – May \$ 9.50 per Kw

June – September \$12.50 per Kw

Energy Charge: 2.751¢ 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.

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Bismarck, ND 58501

State of North Dakota Electric Rate Schedule

NDPSC Volume 4

7th Revised Sheet No. 18.1

Canceling 6th Revised Sheet No. 18.1

GENERAL ELECTRIC SERVICE Rate 30

Page 2 of 2

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.

Adjustment Clauses:

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

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

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. 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 100-112 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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400 N 4th Street
Bismarck, ND 58501

State of North Dakota Electric Rate Schedule

NDPSC Volume 4
1st Revised Sheet No. 18.2
Canceling Original Sheet No. 18.2

Reserved for Future Use

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A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of North Dakota Electric Rate Schedule

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

OPTIONAL TIME-OF-DAY GENERAL ELECTRIC SERVICE Rate 31

Page 1 of 3

Availability:

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

Rate:

Primary Service:

Basic Service Charge: \$97.00 per month

On-Peak Demand:

October - May \$12.25 per Kw

June - September \$15.25 per Kw

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. 1.929¢ per Kwh

Off-Peak Energy:

For all energy not covered by the On-Peak rating period. 1.679¢ per Kwh

Secondary Service:

Basic Service Charge: \$72.00 per month

On-Peak Demand:

October - May \$10.75 per Kw

June - September \$14.75 per Kw

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Case No.: PU-16-666



Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of North Dakota Electric Rate Schedule

NDPSC Volume 4

10th Revised Sheet No. 19.1

Canceling 9th Revised Sheet No. 19.1

OPTIONAL TIME-OF-DAY GENERAL ELECTRIC SERVICE Rate 31

Page 2 of 3

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. 2.929¢ per Kwh

Off-Peak Energy:

For all energy not covered by
the On-Peak rating period. 2.679¢ per Kwh

Minimum Bill:

Basic Service Charge.

Payment:

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

Adjustment Clauses:

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

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

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 defined as 12:00
p.m. to 8:00 p.m. local time, Monday through Friday. 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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NDPSC Volume 4

4th Revised Sheet No. 19.2

Canceling 3rd Revised Sheet No. 19.2

OPTIONAL TIME-OF-DAY GENERAL ELECTRIC SERVICE Rate 31

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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.

Contract Terms:

Customer agrees to contract for service under the Optional Time-of-Day 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 General Electric Service rate or returning to the regular General Electric Service rate.

General Terms and Conditions:

1. Customers and 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. 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 100-112 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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NDPSC Volume 4
5th Revised Sheet No. 20
Canceling 4th Revised Sheet No. 20

GENERAL ELECTRIC SPACE HEATING SERVICE Rate 32

Page 1 of 3

Availability:

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

Rate:

Basic Service Charge: \$21.00 per month

Primary Service:

Demand Charge:

October – May \$ 1.00 per Kw

June – September \$14.00 per Kw

Energy Charge: 1.751¢ per Kwh

Secondary Service:

Demand Charge:

October – May \$ 1.00 per Kw

June – September \$12.50 per Kw

Energy Charge: 2.751¢ 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.

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NDPSC Volume 4

9th Revised Sheet No. 20.1

Canceling 8th Revised Sheet No. 20.1

GENERAL ELECTRIC SPACE HEATING SERVICE Rate 32

Page 2 of 3

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.

Adjustment Clauses:

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

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

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. 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.

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2nd Revised Sheet No. 20.2

Canceling 1st Revised Sheet No. 20.2

GENERAL ELECTRIC SPACE HEATING SERVICE Rate 32

Page 3 of 3

- The foregoing schedule is subject to Rates 100-112 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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NDPSC Volume 4

3rd Revised Sheet No. 22

Canceling 2nd Revised Sheet No. 22

FIRM SERVICE ECONOMIC DEVELOPMENT Rate 34

Page 1 of 3

Availability:

In all communities served for all types of general electric service which meets one of the following qualifications:

1. New Customers - An applicant with total expected demand of 200 Kw per month and usage of 750,000 Kwh per year is eligible for service under this rate if it can meet any one of the following requirements: (i) its activities are largely or entirely different than that of the previous customer; (ii) that non-seasonal business has not been conducted at the premise for at least three billing periods prior to the application; (iii) that seasonal business has not been conducted at the premise for at least thirteen billing periods prior to the application; or (iv) the facility is newly constructed.
2. Existing Customers and Existing In-state Customers of Competing Suppliers - An existing customer, or an existing in-state customer of a competing supplier with increased demand of 200 Kw per month and increased usage of 750,000 Kwh per year is eligible for service under this rate. Only the expanded portion of the facility will be eligible for the negotiated rate. In addition, the new load must be supplied from a separately metered circuit with separate metering equipment to be installed at the customer's expense. Average usage at the original facility must be at least as great as that which occurred in the previous 12 month period.

Rate:

Basic Service Charge: \$100.00 per month

Demand Charge: To Be Negotiated

Energy Charge: Otherwise applicable energy charge for General Service Rate 30.

Contracts shall be filed with and approved by the North Dakota Public Service Commission.

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State of North Dakota Electric Rate Schedule

NDPSC Volume 4

4th Revised Sheet No. 23

Canceling 3rd Revised Sheet No. 23

INTERRUPTIBLE LARGE POWER DEMAND RESPONSE

Rate 38

Page 1 of 4

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	\$ 8.00 per Kw
June – September	\$11.00 per Kw
Energy Charge:	1.574¢ 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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Montana-Dakota Utilities Co.

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State of North Dakota Electric Rate Schedule

NDPSC Volume 4

7th Revised Sheet No. 23.1

Canceling 6th Revised Sheet No. 23.1

INTERRUPTIBLE LARGE POWER DEMAND RESPONSE

Rate 38

Page 2 of 4

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.

Adjustment Clauses:

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

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

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 Basic Service Charge payments to the Company. The monthly Basic Service Charge 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.

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5th Revised Sheet No. 23.2

Canceling 4th Revised Sheet No. 23.2

INTERRUPTIBLE LARGE POWER DEMAND RESPONSE

Rate 38

Page 3 of 4

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 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 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.

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NDPSC Volume 4
4th Revised Sheet No. 25
Canceling 3rd Revised Sheet No. 25

SMALL MUNICIPAL ELECTRIC SERVICE Rate 40 (CLOSED)

Page 1 of 3

Availability:

For all lighting and power requirements with billing demands of 50 kilowatts or less for public buildings or locations supported by public tax levies, and for which the city is liable for payment, in all municipalities served where the Company is operating under a municipal franchise or permit, and the municipality has a standard contract for operation of a street lighting system and/or a municipal pumping system with the Company.

This rate is restricted to small municipal electric service customers who were served under this rate prior to January 27, 1987. Any new small municipal general electric service customer may take service under another applicable rate.

Rate:

Non-Demand:

Basic Service Charge: \$0.84 per day

Energy Charge:

October – May:

First 750 Kwh per month 3.930¢ per Kwh

Over 750 Kwh per month 2.830¢ per Kwh

June – September: 3.930¢ per Kwh

Demand:

Basic Service Charge: \$1.00 per day

Demand Charge:

October – May:

10 Kw or less No Charge

Over 10 Kw \$ 8.25 per Kw

June – September: \$11.25 per Kw

Energy Charge: 1.930¢ per Kwh

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400 N 4th Street
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State of North Dakota Electric Rate Schedule

NDPSC Volume 4

8th Revised Sheet No. 25.1

Canceling 7th Revised Sheet No. 25.1

SMALL MUNICIPAL ELECTRIC SERVICE Rate 40 (CLOSED)

Page 2 of 3

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.

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.

Adjustment Clauses:

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

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

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NDPSC Volume 4

5th Revised Sheet No. 25.2

Canceling 4th Revised Sheet No. 25.2

SMALL MUNICIPAL ELECTRIC SERVICE Rate 40 (CLOSED)

Page 3 of 3

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 may take service under the non-demand rate provided customer's monthly Kwh will not exceed 4,000 Kwh per month for four consecutive months or connected load will not exceed 20 Kw.
3. Customers not qualifying for the non-demand rate shall be served under the demand rate.
4. The foregoing schedule is subject to Rates 100-112 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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7th Revised Sheet No. 26
Canceling 6th Revised Sheet No. 26

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:

Primary Service:
Energy Charge: 5.510¢ per Kwh

Secondary Service:
Energy Charge: 6.010¢ per Kwh

Discount: For contracts of ten years or more 10%

Kwh shall be computed according to the total rated capacity of lamps in use.

Minimum Bill:

As provided in 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 or any amendments or alterations thereto:

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

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4th Revised Sheet No. 26.1

Canceling 3rd Revised Sheet No. 26.1

MUNICIPAL LIGHTING SERVICE Rate 41

Page 2 of 2

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.
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. 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 100-112 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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400 N 4th Street
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NDPSC Volume 4
4th Revised Sheet No. 32
Canceling 3rd Revised Sheet No. 32

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:

Primary Service:

Basic Service Charge: \$80.00 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: \$6.00 per Kw
June – September: \$9.00 per Kw

Energy Charge: 2.163¢ per Kwh

Secondary Service:

Basic Service Charge: \$45.00 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: \$6.00 per Kw
June – September: \$9.00 per Kw

Energy Charge: 2.263¢ per Kwh

Discount: For contracts of ten years or more 10%

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8th Revised Sheet No. 32.1

Canceling 7th Revised Sheet No. 32.1

MUNICIPAL PUMPING SERVICE Rate 48

Page 2 of 2

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.

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.

Adjustment Clauses:

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

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

General Terms and Conditions:

1. 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.
2. The foregoing schedule is subject to Rates 100-112 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
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NDPSC Volume 4
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Canceling 7th Revised Sheet No. 36

OUTDOOR LIGHTING SERVICE Rate 52

Page 1 of 2

Availability:

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

Rate:

Primary Service:

Energy Charge: 6.819¢ per Kwh

Secondary Service:

Energy Charge: 7.225¢ per Kwh

Kwh shall be computed according to the total rated capacity of the units in use.

Payment:

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

Adjustment Clauses:

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

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

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.

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3rd Revised Sheet No. 36.1

Canceling 2nd Revised Sheet No. 36.1

OUTDOOR LIGHTING SERVICE Rate 52

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- 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 customer's 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 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 the customer. In case of vandalism, malicious mischief, or willful negligence, the Company will charge the customer for the cost of repair and replacement.
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. 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.

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.

4. The foregoing schedule is subject to Rates 100-112 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.

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Renewable Resource Cost Adjustment Rate 55

Page 1 of 1

1. **Applicability:**

This rate schedule represents a Renewable Resource Cost Adjustment (RRCA) and specifies the procedure to be utilized to recover the jurisdictional costs associated with renewable generation resource modifications or additions approved by the Commission, but not recovered through retail rates. Costs to be recovered may include operation and maintenance expenditures, depreciation, taxes, and a current return on the project costs.

2. **Renewable Resource Cost Adjustment:**

- a. An adjustment per Kwh will be calculated using the projected capital costs and related expenses, along with the forecasted Kwh sales, to determine a North Dakota jurisdictional revenue requirement to be recovered through the RRCA rates. The return component of the revenue requirement calculation will include the return on equity established in the Company's most recent rate case.
- b. The RRCA is applicable to all retail customers for electric energy sold, except those served under special contracts, and are allocated amongst the rate classes based on the Company's Demand/Energy Factor No. 3 established in the Company's most recent general rate case.
- c. The RRCA will be adjusted annually (or other period authorized by the Commission) to reflect the Company's most recent projected capital costs and related expenses for projects determined to be recoverable under this schedule.
- d. A true-up will reflect any over or under collection of revenue under the RRCA based on actual expenditures from the preceding twelve month recovery period plus carrying charges or credits accrued at a rate equal to the three-month Treasury Bill rate as published monthly by the Federal Reserve Board.

3. **Renewable Resource Cost Adjustment:**

Residential & Small General	0.642¢ per Kwh
Large General	0.620¢ per Kwh
Lighting	0.557¢ per Kwh

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2nd Revised Sheet No. 40
Canceling 1st Revised Sheet No. 40

Generation Resource Recovery Rider Rate 56

Page 1 of 2

Applicability:

This rate schedule represents a Generation Resource Recovery Rider (GRRR) and specifies the procedure to be utilized to recover the jurisdictional costs associated with generation resource additions approved by the Commission but not recovered through retail rates. Costs to be recovered may include operations and maintenance expenditures, depreciation, taxes, and a current return on the project costs during construction. Costs being recovered under this tariff are currently not included in the rates established at the time of the Company's last general rate case.

1. Generation Resource Recovery Rider:

- a. The North Dakota jurisdictional GRRR revenue requirement will be allocated to the customer classes based on the Company's Demand Factor No. 2 established in the Company's most recent general rate case. The adjustment applied to the Residential and Small General Service Classes will be calculated based on the customer class revenue requirement and the forecasted Kwh for the forecasted period. The adjustment applied to the Large General Service Class will be calculated based on the customer class revenue requirement and the forecasted demand for the forecasted period and expressed as a KW charge. The return component of the revenue requirement calculation will include the authorized return on equity specified in Case No. PU-16-666.
- b. The GRRR is applicable to all retail customers for electric energy sold, except those served under lighting schedules and special contracts, and are allocated amongst the rate classes based on the applicable demand factor.
- c. The GRRR will be adjusted annually (or other period authorized by the Commission) to reflect the Company's most recent projected capital costs and related expenses for projects determined to be recoverable under this schedule.
- d. A true-up will reflect any over or under collection of revenue under the GRRR based on actual expenditures from the preceding twelve month recovery period plus carrying charges or credits accrued at a rate equal to the three-month Treasury Bill rate as published monthly by the Federal Reserve Board.

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3rd Revised Sheet No. 40.1

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Generation Resource Recovery Rider Rate 56

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2. Generation Resource Recovery Rider:

Residential & Small General	0.284¢ per Kwh
Large General	82.212¢ per KW
General Space Heating Rate 32	44.987¢ per KW
Lighting	0.110¢ per Kwh

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4th Revised Sheet No. 41
Canceling 3rd Revised Sheet No. 41

Environmental Cost Recovery Rider Rate 57

Page 1 of 1

1. **Applicability:**

This rate schedule represents an Environmental Cost Recovery Rider (ECRR) and specifies the procedure to be utilized to recover the jurisdictional costs to be incurred by the Company in complying with federal and state environmental mandates determined to be eligible for recovery under NDCC 49-05-04.2. Costs to be recovered may include capital expenditures, depreciation, taxes, and a current return on the project costs during construction. Costs being recovered under this tariff are currently not included in the rates established at the time of the Company's last general rate case.

2. **Environmental Cost Recovery Rider:**

- a. An adjustment per Kwh will be calculated using the projected capital costs and related expenses, along with the forecasted Kwh sales, to determine a North Dakota jurisdictional revenue requirement to be recovered through the ECRR. The return component of the revenue requirement calculation will include the authorized return on equity specified in Case No. PU-16-666.
- b. The ECRR is applicable to all retail customers for electric energy sold, except those served under special contracts, and are allocated amongst the rate classes based on the Company's Demand Factor No. 2 established in the Company's most recent general rate case.
- c. The ECRR will be adjusted annually (or other period authorized by the Commission) to reflect the Company's most recent projected capital costs and related expenses for projects determined to be eligible under NDCC 49-05-04.2.
- d. A true-up will reflect any over or under collection of revenue under the ECRR based on actual expenditures from the preceding twelve month recovery period plus carrying charges or credits accrued at a rate equal to the three-month Treasury Bill rate as published monthly by the Federal Reserve Board.

3. **Environmental Cost Recovery Rider:**

Residential and Small General	0.000¢ per Kwh
Large General	0.000¢ per Kwh
Lighting	0.000¢ per Kwh

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6th Revised Sheet No. 42

Canceling 5th Revised Sheet No. 42

FUEL AND PURCHASED POWER ADJUSTMENT Rate 58

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1. Applicability:

This rate schedule sets forth the procedure to be used in calculating the Fuel and Purchased Power Adjustment (FPPA). It specifies the procedure to be utilized to adjust the rates for electricity sold under Montana-Dakota's rate schedules in order to reflect: (a) changes in Montana-Dakota's average cost of fuel and purchased power as allocated to North Dakota; and (b) amortization of the Deferred Fuel Cost Account.

2. Effective Date and Limitation on Adjustments:

- a. Unless otherwise ordered by the Commission, the effective dates of the Fuel and Purchased Power Adjustment shall be service rendered on and after the first day of each month. The effective date of the adjustment for amortization of the Deferred Fuel Cost Account shall be April 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 adjustment to be effective April 1 shall be filed each year, regardless of the amount of the change.

3. Fuel and Purchased Power Adjustment:

- a. The monthly Fuel and Purchased Power Adjustment shall be calculated separately for primary service and secondary service customers and shall reflect the changes in Montana-Dakota's cost of fuel and purchased power as compared to the cost of fuel and purchased power from the prior period plus the annual Surcharge Adjustment.
- 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 North Dakota and to the primary and secondary customer classes:
 1. The cost of fossil and other fuels and reagents, including sand, recorded in Account Nos. 501, 502 and 547.

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FUEL AND PURCHASED POWER ADJUSTMENT Rate 58

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2. Natural gas and pipeline reservation charges recorded in Account No. 547
 3. The net cost of purchases and costs linked to the utility's load serving obligation associated with participation in the wholesale electric energy markets as recorded in Account No. 555
 4. Capacity purchases as recorded in Account No. 555.
 5. Regional Market Administration expenses recorded in Account No. 575.
 6. Less 100 percent of the wholesale sales revenue.
 7. Less the revenue from the sales of Renewable Energy Credits (RECs).
- c. The cost per Kwh for the month is the sum of 3(b) above divided by retail sales volumes for the most recent four month period for the primary and secondary service classes.

4. Surcharge Adjustment:

All sales rate schedules shall be subject to a Surcharge Adjustment to be effective on April 1 each year. The Surcharge Adjustment per Kwh sold shall reflect the amortization of the applicable balance in the Deferred 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.

- a. The balance in the Deferred Fuel Cost Account (Account 182.3) includes:
1. The current month over or under recovery, determined as follows:
 - i. Montana-Dakota shall determine each month the cost for that month's fuel and purchased power.
 - ii. Montana-Dakota shall subtract from the month's cost the cost reflected in rates for that month.

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63rd Revised Sheet No. 42.2

Canceling 62nd Revised Sheet No. 42.2

FUEL AND PURCHASED POWER ADJUSTMENT Rate 58

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- iii. The resulting difference (positive or negative) shall be included that month under each rate schedule.
2. Refunds from supplier(s) and market operators with respect to fuel and purchased power costs.
3. Carrying charges or credits at a rate equal to the three-month Treasury Bill rate as published monthly by the Federal Reserve Board.
4. The balance in the Deferred Fuel Cost Account shall be decreased each month by the amount of the Surcharge Adjustment multiplied by the Kwh sales for the month.
5. **Manner of Filing:**

The Company shall file a monthly statement showing the calculation of the Fuel and Purchased Power Adjustment with the Commission prior to implementing the monthly adjustment. The adjustment in rates shall be effective with service rendered on and after the first day of each month, unless the Commission shall otherwise order.
6. **Fuel and Purchased Power Adjustment:**

The current & previous month's Fuel and Purchased Power Adjustment for primary and secondary service customers can be found at www.montana-dakota.com/rates-and-services.

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NDPSC Volume 4
1st Revised Sheet No. 43
Canceling Original Sheet No. 43

TRANSMISSION COST ADJUSTMENT Rate 59

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1. Applicability:

This rate schedule represents a Transmission Cost Adjustment and specifies the procedure to be utilized to recover the net balance of the capital and operating costs and revenue credits of Montana-Dakota's transmission related expenses and revenues determined to be eligible for recovery in accordance with 49-05-04.3 NDCC. Costs to be recovered under the Transmission Adjustment shall include new or modified transmission facilities such as transmission lines and other transmission related equipment such as substations, transformers and other equipment constructed to improve the power delivery capability or reliability of the transmission system as well as federally regulated costs charged to or incurred by the Company to increase regional transmission capacity or reliability that are not reflected in the rates established in the most recent general rate case.

2. Transmission Cost Adjustment:

- a. An adjustment per Kwh will be determined based on the cumulative transmission related costs and revenue credits eligible for recovery and as allocated to the North Dakota jurisdiction as of November 1 of each year and the projected Kwh sales for the recovery period. The adjustment will also include a return requirement on the capital investments where the return component will include the authorized return on equity specified in Case No. PU-16-666 and a true-up of the previous year's adjustment, as described in 2(d).
- b. The adjustment will be applicable to all retail customers for electric energy sold, except those served under special contract and allocated among the rate classes based on the transmission allocation factor from Montana-Dakota's most recent North Dakota general rate case.
- c. The adjustment per Kwh will be revised annually to reflect the current level of costs to be recovered.

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- d. The true-up will reflect any over or under collection of revenue under the Transmission Adjustment from the preceding twelve month period plus carrying charges or credits accrued at a rate equal to the three-month Treasury Bill rate as published monthly by the Federal Reserve Board.

3. Transmission Cost Adjustment Rate by class:

Residential & Small General	0.413¢ per Kwh
Large General	0.350¢ per Kwh
Lighting	0.161¢ per Kwh

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17th Revised Sheet No. 44
Canceling 16th Revised Sheet No. 44

OCCASIONAL POWER PURCHASE Rate 95 NON-TIME DIFFERENTIATED

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Availability:

To any qualifying cogeneration and small power production facilities for the purpose of generating occasional electric energy in parallel with the Company's system. This schedule is applicable to cogeneration and small power production facilities with a design capacity of 100 Kw or less, that are Qualifying Facilities (QF) as defined under 18 CFR, Part 292.

Rate:

Metering charge for single phase service: \$0.05 per day
With instrument transformers: \$0.16 per day

Metering charge for three phase service: \$0.11 per day
With instrument transformers: \$0.28 per day

Energy delivered to and accepted by Company by a QF shall be paid for by Company in accordance with one of the following two options, elected by the QF:

1. Simultaneous Purchase and Sale:

Energy sales to QF - Service provided to such customers by the Company shall be billed at the appropriate rate, by class of customers (i.e., residential, small and general electric service, etc.) that is currently on file with the Commission.

Energy purchases by Company:

Energy Payment = 2.581¢ per Kwh

2. Net Billing:

Energy generated will be compensated on a net billing basis. The Company will install a meter to measure the energy generated by the QF. The Company will also install a meter to measure the energy consumed by the QF. Metered generation will be subtracted from the metered consumption for the billing period.

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PARALLEL GENERATION PEAKING FACILITY PURCHASE Rate 96 TIME DIFFERENTIATED

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Availability:

To any qualifying cogeneration and small power production facilities for the purpose of generating electric energy in parallel with the Company's system. This schedule is applicable to cogeneration and small power production facilities with a design capacity of 1000 Kw or less, that operate as a peaking facility (defined below), and are Qualifying Facilities (QF) as defined under 18 CFR, Part 292.

Rate:

Metering charge for single phase service: \$ 0.15 per day
With instrument transformers: \$ 0.26 per day

Metering charge for three phase service: \$ 0.16 per day
With instrument transformers: \$ 0.33 per day

1. Capacity delivered to the Company:

Levelized payment for term of contract based on Table 1 below.

TABLE 1
Contract Length (YR.)

	5	10	15	20
\$/Kw-mo	7.619	7.619	7.619	7.619

Total capacity payment per month = Monthly capacity payments for a QF will be made pursuant to the applicable contract length from Table 1 presented above. Such payments shall be based upon the amount of qualifying capacity assigned to an eligible resource under BPM-011-Resource Adequacy of the MISO Tariff.

Capacity payments will be paid in the subsequent billing period.

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days after written request for termination is made to the utility by the guarantor. However, no agreement shall be terminated without the customer having made satisfactory settlement for any balance which the customer owes the Company. Upon termination of a guarantee contract, a new contract or a cash deposit may be required by the Company.

- iii. A deposit shall earn interest at the rate paid by the Bank of North Dakota on a six-month certificate of deposit as of the first business day of each year. Interest shall be credited to the customer's account annually during the month of December.
- iv. Deposits shall be refunded to customers at termination provided all billings for service have been paid. Deposits will be refunded to all active customers, after the deposit has been held for 12 months, provided a prompt payment record has been established.

3. **LATE PAYMENT CHARGE:**

Bills will be considered past due if not paid by the due date shown on the bill. An amount equal to 1% per month will be applied to any past due balance.

4. **RETURNED CHECK CHARGE:**

A charge of \$40.00 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 sales, use or 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, political subdivision, or other entity, for the privilege of conducting its utility operations therein.

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

6. UTILITY SERVICES PERFORMED AFTER NORMAL BUSINESS HOURS:

For service requested by customers after the Company's normal business hours and on Saturday, Sunday, or legal holidays, a charge will be made for labor at standard overtime service rates and materials 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.

7. RECONNECTION FEE FOR SEASONAL CUSTOMERS:

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. Pursuant to North Dakota Administrative Rules 69-09-02-05.1(1), the Company may disconnect service if the customer is delinquent in payment for service, and fails to pay for service or enter into a satisfactory installment agreement with the Company for payment within ten (10) days of the Company giving the customer written notice of the Company's intention to discontinue service on account of payment delinquency.

ii. All bills for service are due when rendered and will be considered delinquent if not paid by the due date shown on the bill. If any

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customer shall become delinquent in the payment of service bills, such service may be discontinued by the Company under the applicable rules of the Commission.

- iii. If a customer's credit standing becomes unsatisfactory after a deposit has been refunded or if the deposit is inadequate to cover the estimated charge for furnishing service for a 60-day period, a new or additional deposit may be required upon reasonable written notice by the Company.
- iv. Pursuant to North Dakota Administrative Rules 69-09-02-05.1(10), the Company may not discontinue service to the Customer for nonpayment of a deposit.
- v. The Company may collect a fee of \$20.00 before restoring electric service which has been discontinued for nonpayment of service bills, or where a Service Extender has been installed in lieu of full disconnection.

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

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.

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- 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 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.

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12. SELECTIVE TESTING PLAN FOR METERS:

The electric meter population shall be tested in accordance with the Electric Meter Testing Program approved by the Commission.

13. BILLING ADJUSTMENTS:

If a meter or billing error results from 1) an inaccurate meter; 2) an Incorrect reading of the meter; 3) an incorrect application of a rate schedule; 4) an incorrect connection of the meter; 5) an application of an incorrect multiplier or constant; or 6) other similar errors affecting customer bills.

- i. If a Customer is underbilled, the Company may recalculate the bills and reissue corrected bills for service during the period of the error, up to a maximum period of six years from the date of the bill, with the exception of a meter equipment failure.
- ii. If a Customer is overbilled, the Company shall recalculate bills for errors resulting in overcharges up to a maximum of six years from the date of payment, with the exception of a meter equipment failure. In the case of a meter equipment failure, the Company may charge the Customer for a period equal to one-half the time elapsed since the last previous meter test, but not to exceed six months.

14. MODIFICATION OF RATES, RULES AND REGULATIONS:

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

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101. 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.

102. 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 Regulatory Commissions 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.

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. 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.

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 as necessary.

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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.

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.

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.

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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 available maximum 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.

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.

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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 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.

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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 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.

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- (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:

- (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 State Public Service or Utilities 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.

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.

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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 save 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 conduits to the transformer location may be required. The customer shall consult with the Company to determine when a cable junction enclosure is required.

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.

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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 result from the installation of the requested underground distribution.

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

**Underground Primary

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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 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.

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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 Electric Code, state code, and local ordinances. Bare neutral wire shall not be installed in metallic 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

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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.

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 be maintained at not 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.

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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.

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 Electric Safety Code rule and, where necessary, adding 2 feet for vertical movement safety factor adopted by Company.

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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 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 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 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.

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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.

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. 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. The customer will utilize meter sockets from a Company approved list of manufacturer and models as posted on the Company's website.
2. U.L. approved, ringless style.
3. 100 ampere minimum for overhead service installations.
4. 150 ampere minimum for underground service installations.
5. Stud connectors are required for all sockets rated 320 amps or greater.
6. For sockets rated below 320 amps, study connectors are recommended. Only Company specified meter sockets are approved with lay-in connectors.
7. Equipped with a fifth terminal in the nine o'clock position where network metering is required.
8. A lever by-pass feature is required for all commercial and industrial installations. Upon review by Company, an exemption may be provided.
9. 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.
4. Automatic by-pass feature is not acceptable.
5. The customer will utilize instrument rated meter sockets from a Company approved list of manufacturer and models.

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.

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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, 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 main service switch 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 Company.

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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. 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. In the event such location renders the automatic meter reading equipment ineffective customer will be responsible for costs associated with remedying the situation.

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

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shall be placed on the exterior of the meter base on a non-removable 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.

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 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

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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.

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.

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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.

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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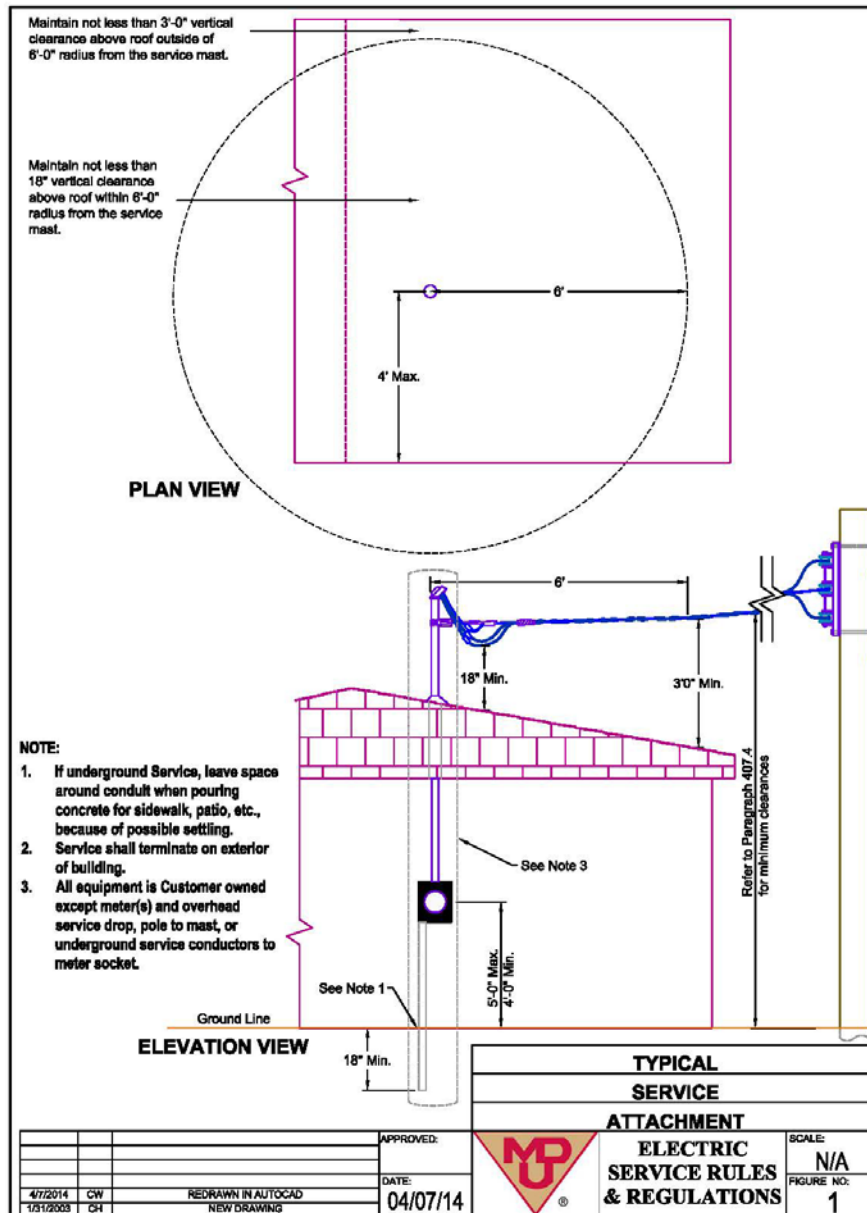
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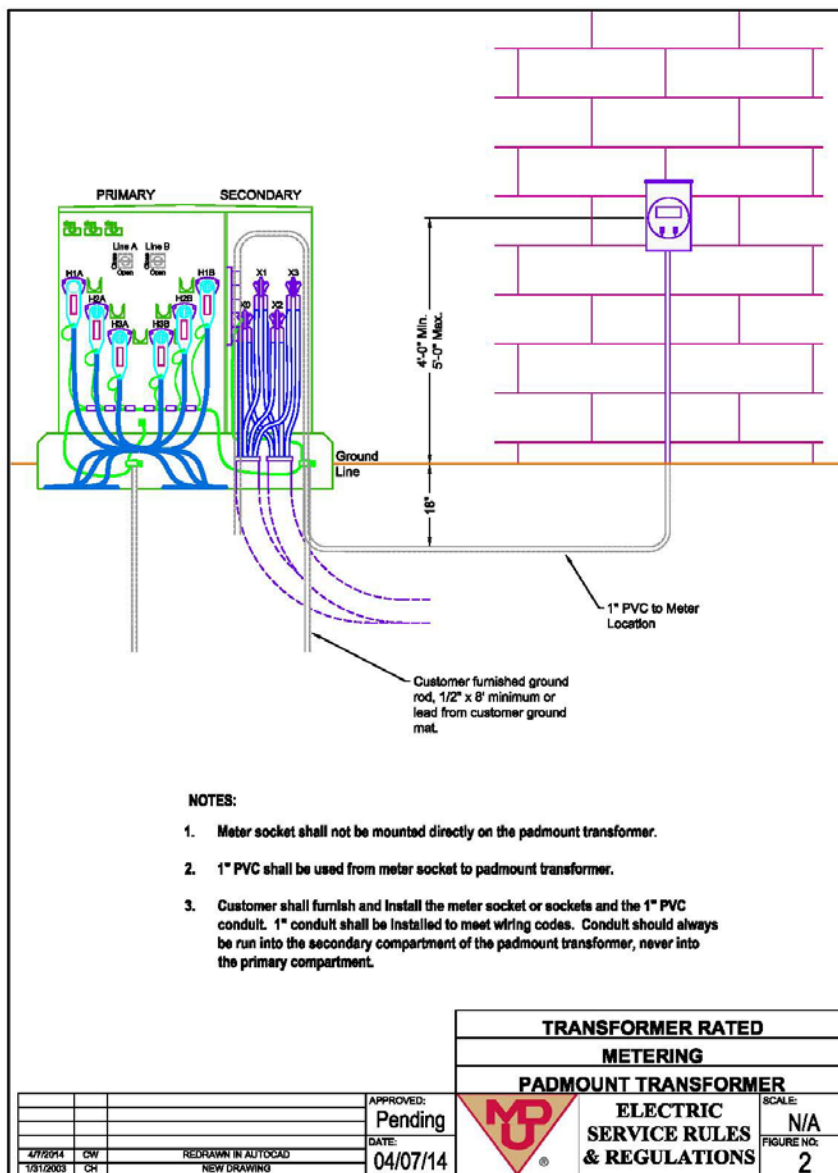
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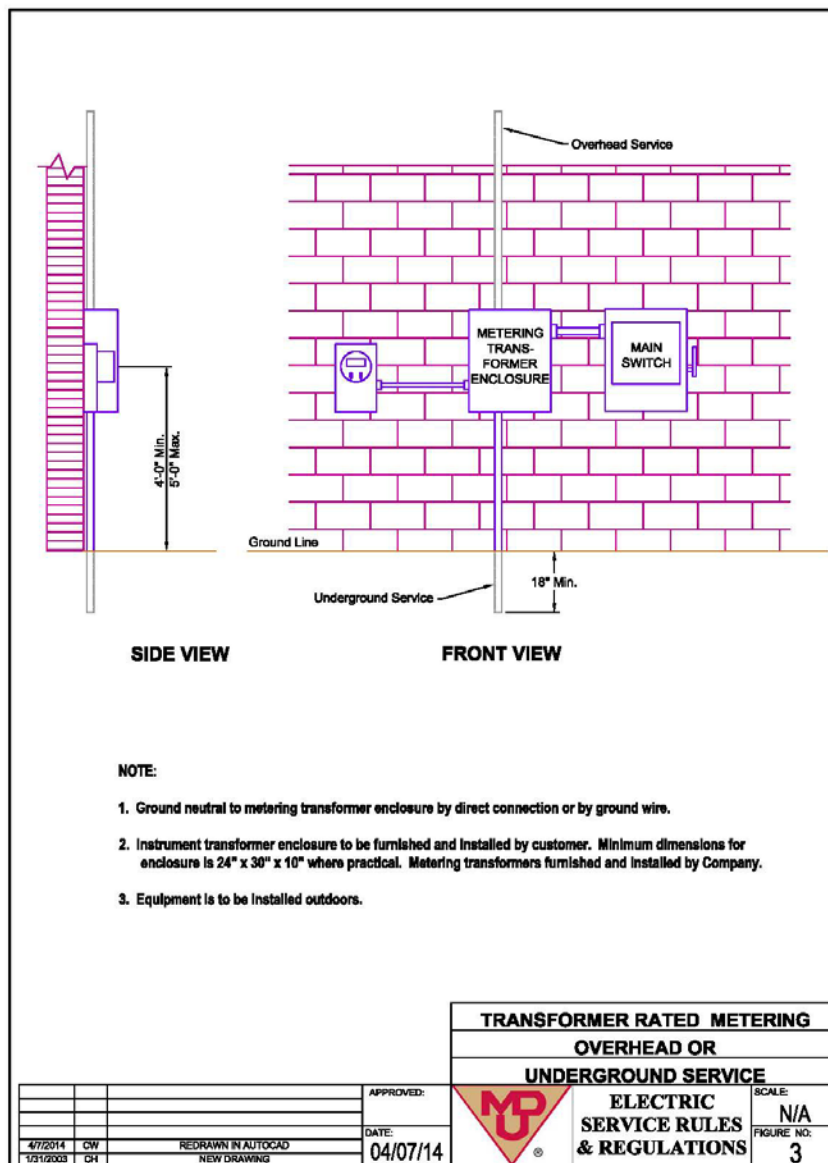
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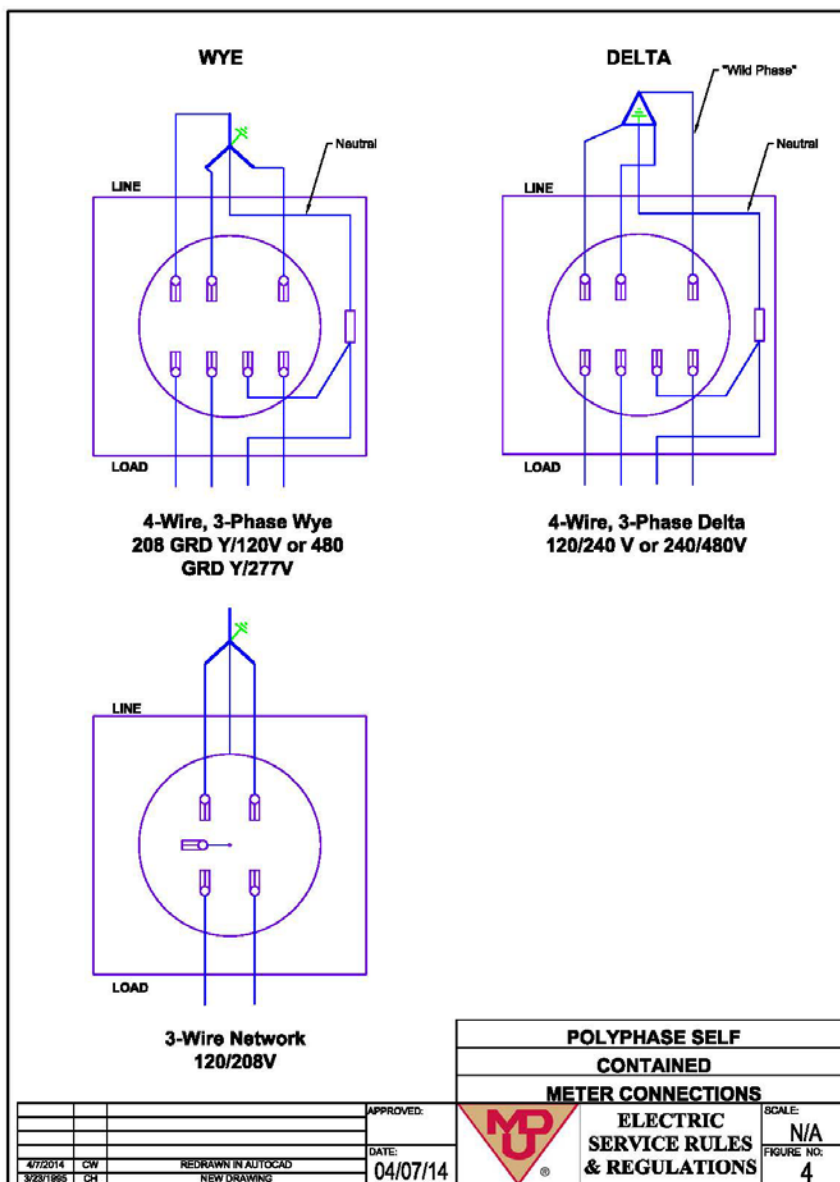
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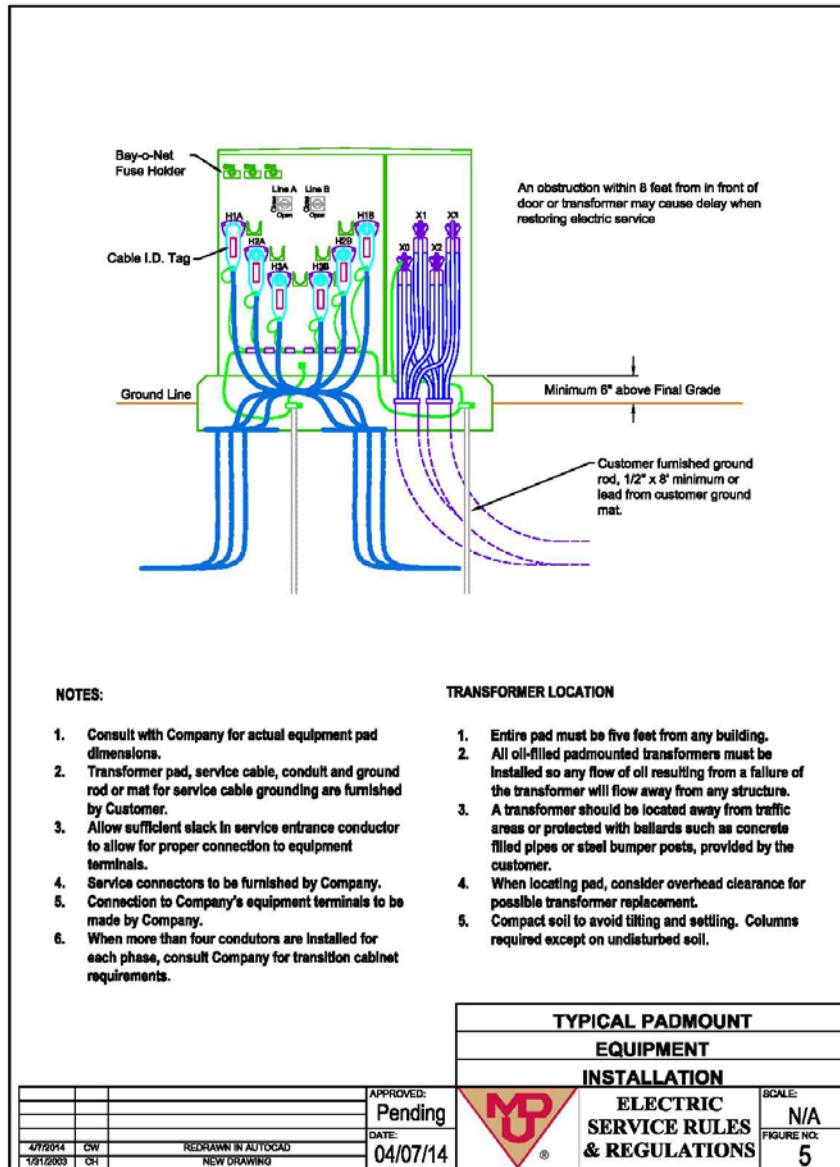
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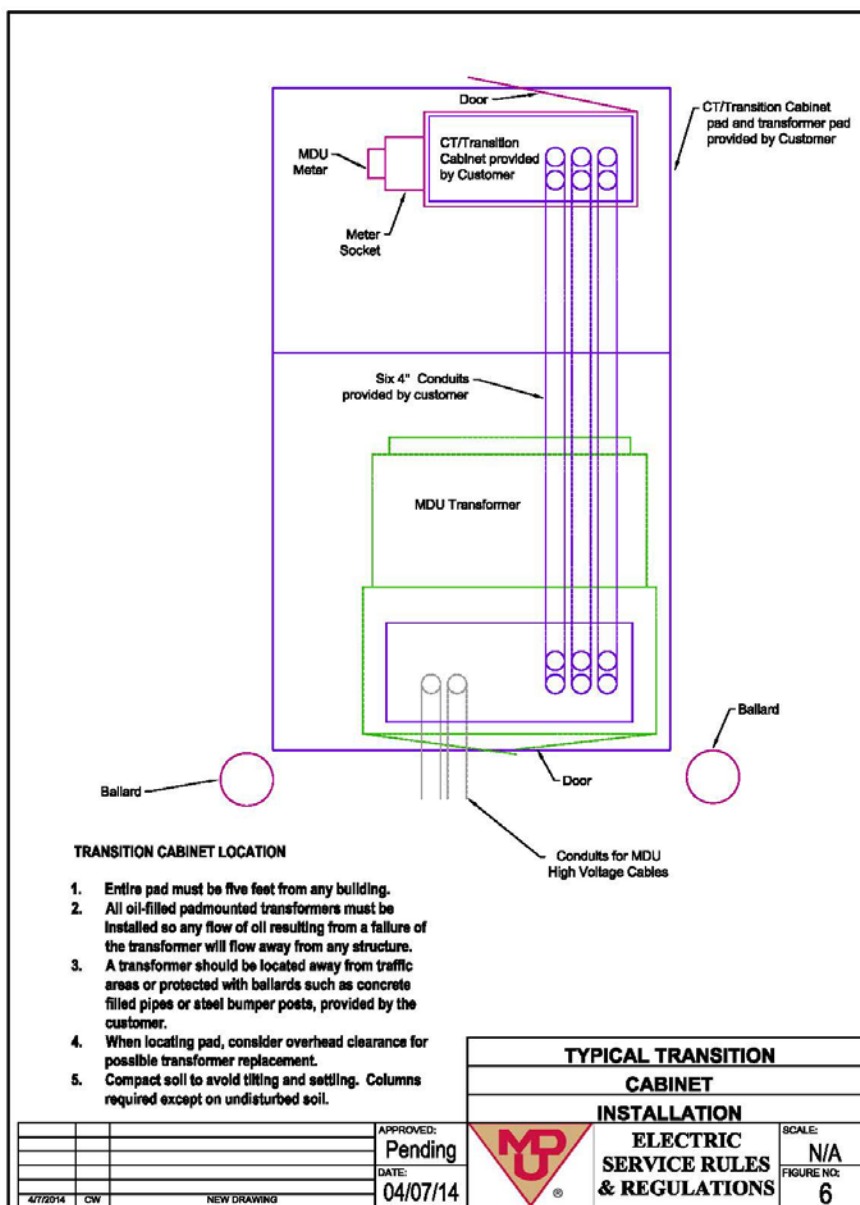
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Tariffs Reflecting Proposed Changes



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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 North Dakota Electric Rate Schedule

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5th Revised Sheet No. 1.1
Canceling 4th Revised Sheet No. 1.1

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Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of North Dakota Electric Rate Schedule

NDPSC Volume 4
7th Revised Sheet No. 3
Canceling 6th 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.~~4635~~ per day

Energy Charge:

October – May:

First 750 Kwh per month ~~5.3046.133~~¢ per Kwh

Over 750 Kwh per month ~~2.3043.133~~¢ per Kwh

June – September: ~~5.3046.133~~¢ per Kwh

~~Base Fuel and Purchased Power: 2.087¢ per Kwh~~

~~Interim Rate Increase:~~

~~10.320% of amount billed under Basic Service Charge, Energy Charge and Demand Charge where applicable.~~

Minimum Bill:

Basic Service Charge.

Payment:

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

Adjustment Clauses:

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

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

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Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of North Dakota Electric Rate Schedule

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

OPTIONAL RESIDENTIAL ELECTRIC THERMAL ENERGY STORAGE SERVICE Rate 13

Page 1 of 2

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.~~45~~75 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: ~~0.80~~41.100¢ per Kwh

On-Peak Energy Charge:

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

October – May:

First 750 Kwh per month ~~5.30~~46.577¢ per Kwh

Over 750 Kwh per month ~~2.30~~43.577¢ per Kwh

June – September: ~~5.30~~46.577¢ per Kwh

~~Base Fuel and Purchased Power: 2.087¢ per Kwh~~

~~Interim Rate Increase:~~

~~10.320% of amount billed under Basic Service Charge, Energy Charge and Demand Charge where applicable.~~

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.

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Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of North Dakota Electric Rate Schedule

NDPSC Volume 4
9th Revised Sheet No. 7
Canceling 8th Revised Sheet No. 7

OPTIONAL TIME-OF-DAY RESIDENTIAL ELECTRIC SERVICE Rate 16

Page 1 of 3

Availability:

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

Rate:

Basic Service Charge: \$0.~~45~~75 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 ~~7.398~~6.110¢ per Kwh

June – September ~~10.398~~7.610¢ per Kwh

Off-Peak Energy:

For all energy not covered by the On-Peak rating period. ~~2.304~~¢ per Kwh

October – May 3.110¢ per Kwh

June – September 4.610¢ per Kwh

~~Base Fuel and Purchased Power: 2.087¢ per Kwh~~

~~Interim Rate Increase:~~

~~10.320% of amount billed under Basic Service Charge, Energy Charge and Demand Charge where applicable.~~

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:

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Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of North Dakota Electric Rate Schedule

NDPSC Volume 4
9th Revised Sheet No. 7
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OPTIONAL TIME-OF-DAY RESIDENTIAL ELECTRIC SERVICE Rate 16

Page 2 of 3

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

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Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of North Dakota Electric Rate Schedule

NDPSC Volume 4
7th Revised Sheet No. 10
Canceling 6th Revised Sheet No. 10

SMALL GENERAL ELECTRIC SERVICE Rate 20

Page 1 of 2

Availability:

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

Rate:

Basic Service Charge: \$0.~~70~~84 per day

Energy Charge:

October – May:

First 750 Kwh per month ~~6.1476.520~~6.1476.520¢ per Kwh

Over 750 Kwh per month ~~2.3043.520~~2.3043.520¢ per Kwh

June – September: ~~6.1476.520~~6.1476.520¢ per Kwh

~~Base Fuel and Purchased Power: 2.087¢ per Kwh~~

~~Interim Rate Increase:~~

~~10.320% of amount billed under Basic Service Charge, Energy Charge and Demand Charge where applicable.~~

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.

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Montana-Dakota Utilities Co.

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400 N 4th Street
Bismarck, ND 58501

State of North Dakota Electric Rate Schedule

NDPSC Volume 4
3rd Revised Sheet No. 14
Canceling 2nd Revised Sheet No. 14

IRRIGATION POWER SERVICE Rate 25

Page 1 of 2

Availability:

For irrigation power service.

Rate:

Basic Service Charge: ~~\$0.65~~1.50 per day

Demand Charge:

October – May \$1.25 per Kw

June – September ~~\$2.75~~5.00 per Kw

Energy Charge: ~~1.20~~90.255¢ per Kwh

~~Base Fuel and Purchased Power: 2.087¢ per Kwh~~

~~Interim Rate Increase:~~

~~10.320% of amount billed under Basic Service Charge, Energy Charge
and Demand Charge where applicable.~~

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.

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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400 N 4th Street
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State of North Dakota Electric Rate Schedule

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Canceling 8th Revised Sheet No. 15

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

Page 1 of 2

Availability:

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

Rate:

Basic Service Charge: ~~\$0.801.00~~ 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 ~~7.3855.193~~¢ per Kwh

June – September ~~11.3856.693~~¢ per Kwh

Off-Peak Energy:

For all energy not covered by the On-Peak rating period.

~~2.304~~¢ per Kwh

~~October – May~~ 2.693¢ per Kwh

~~June – September~~ 4.193¢ per Kwh

~~Base Fuel and Purchased Power: 2.087~~¢ per Kwh

~~Interim Rate Increase:~~

~~10.320% of amount billed under Basic Service Charge, Energy Charge and Demand Charge where applicable.~~

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.

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Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of North Dakota Electric Rate Schedule

NDPSC Volume 4
3rd Revised Sheet No. 18
Canceling 2nd Revised Sheet No. 18

GENERAL ELECTRIC SERVICE Rate 30

Page 1 of 3

Availability:

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

Rate:

Primary Service:

Basic Service Charge: ~~\$95.00~~100.00 per month

Demand Charge:

October – May ~~\$6.25~~11.00 per Kw

June – September ~~\$9.25~~14.00 per Kw

Energy Charge: ~~2.296~~1.751¢ per Kwh

~~Base Fuel and Purchased Power: 2.024¢ per Kwh~~

~~Interim Rate Increase:~~

~~10.320% of amount billed under Basic Service Charge, Energy Charge and Demand Charge where applicable.~~

Secondary Service:

Basic Service Charge: ~~\$45.00~~56.00 per month

Demand Charge:

October – May \$ ~~8.25~~9.50 per Kw

June – September ~~\$11.25~~12.50 per Kw

Energy Charge: ~~2.376~~2.751¢ per Kwh

~~Base Fuel and Purchased Power: 2.087¢ per Kwh~~

~~Interim Rate Increase:~~

~~10.320% of amount billed under Basic Service Charge, Energy Charge and Demand Charge where applicable.~~

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A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

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Original Sheet No. 18.2

GENERAL ELECTRIC SERVICE Rate 30

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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 100-112 and any amendments or alterations thereto or additional rules and regulations promulgated by the Company under the laws of the state.

Reserved for Future Use

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Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of North Dakota Electric Rate Schedule

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

OPTIONAL TIME-OF-DAY GENERAL ELECTRIC SERVICE Rate 31

Page 1 of 5

Availability:

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

Rate:

Primary Service:

Basic Service Charge: \$97.00 per month

On-Peak Demand:

October - May \$ ~~7.50~~12.25 per Kw

June - September \$~~10.50~~15.25 per Kw

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. ~~_____~~ 1.929¢ per Kwh

~~October - May~~ 2.793¢ per Kwh

~~June - September~~ 3.793¢ per Kwh

Off-Peak Energy:

For all energy not covered by

the On-Peak rating period. ~~0.793~~1.679¢ per Kwh

~~Base Fuel and Purchased Power: 2.024¢ per Kwh~~

~~Interim Rate Increase:~~

~~10.320% of amount billed under Basic Service Charge, Energy Charge and Demand Charge where applicable.~~

Secondary Service:

Basic Service Charge: \$~~47.00~~72.00 per month

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Case No.: PU-16-666



Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of North Dakota Electric Rate Schedule

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

OPTIONAL TIME-OF-DAY GENERAL ELECTRIC SERVICE Rate 31

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On-Peak Demand:
October – May \$ ~~9.50~~10.75 per Kw

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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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9th Revised Sheet No. 19.1

Canceling 8th Revised Sheet No. 19.1

OPTIONAL TIME-OF-DAY GENERAL ELECTRIC SERVICE Rate 31

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June – September ~~\$13.50~~ 14.75 per Kw

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.

2.929¢ per Kwh

~~October – May 2.793¢ per Kwh~~

~~June – September 3.793¢ per Kwh~~

Off-Peak Energy:

For all energy not covered by
the On-Peak rating period. ~~0.793~~ 2.679¢ per Kw

~~Base Fuel and Purchased Power: 2.087¢ per Kwh~~

~~Interim Rate Increase:~~

~~10.320% of amount billed under Basic Service Charge, Energy
Charge and Demand Charge where applicable.~~

Minimum Bill:

Basic Service Charge.

Payment:

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

Adjustment Clauses:

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

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

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Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of North Dakota Electric Rate Schedule

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3rd Revised Sheet No. 19.2

Canceling 2nd Revised Sheet No. 19.2

OPTIONAL TIME-OF-DAY GENERAL ELECTRIC SERVICE Rate 31

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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 defined as 12:00 p.m. to 8:00 p.m. local time, Monday through Friday. 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.

Contract Terms:

Customer agrees to contract for service under the Optional Time-of-Day 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 General Electric Service rate or returning to the regular General Electric Service rate.

General Terms and Conditions:

1. Customers and 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. 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.

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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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3rd Revised Sheet No. 19.2

Canceling 2nd Revised Sheet No. 19.2

OPTIONAL TIME-OF-DAY GENERAL ELECTRIC SERVICE Rate 31

Page 5 of 5

3. The foregoing schedule is subject to Rates 100-112 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

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NDPSC Volume 4
4th Revised Sheet No. 20
Canceling 3rd Revised Sheet No. 20

GENERAL ELECTRIC SPACE HEATING SERVICE Rate 32

Page 1 of 4

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~~21.00 per month

Primary Service:

Demand Charge:

~~October – May~~ \$ 1.00 per Kw

~~June – September~~ \$9.2514.00 per Kw

Energy Charge: ~~2.796~~1.751¢ per Kwh

~~Base Fuel and Purchased Power: 2.024¢ per Kwh~~

~~Interim Rate Increase:~~

~~10.320% of amount billed under Basic Service Charge, Energy Charge and Demand Charge where applicable.~~

Secondary Service:

Demand Charge:

~~October – May~~ \$ 1.00 per Kw

~~June – September~~ \$11.2512.50 per Kw

Energy Charge: ~~2.876~~2.751¢ per Kwh

~~Base Fuel and Purchased Power: 2.087¢ per Kwh~~

~~Interim Rate Increase:~~

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Montana-Dakota Utilities Co.

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400 N 4th Street
Bismarck, ND 58501

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4th Revised Sheet No. 20
Canceling 3rd Revised Sheet No. 20

GENERAL ELECTRIC SPACE HEATING SERVICE Rate 32

Page 2 of 4

~~10.320% of amount billed under Basic Service Charge, Energy Charge and Demand Charge where applicable.~~

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Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of North Dakota Electric Rate Schedule

NDPSC Volume 4
2nd Revised Sheet No. 22
Canceling 1st Revised Sheet No. 22

FIRM SERVICE ECONOMIC DEVELOPMENT Rate 34

Page 1 of 3

Availability:

In all communities served for all types of general electric service which meets one of the following qualifications:

1. New Customers - An applicant with total expected demand of 200 Kw per month and usage of 750,000 Kwh per year is eligible for service under this rate if it can meet any one of the following requirements: (i) its activities are largely or entirely different than that of the previous customer; (ii) that non-seasonal business has not been conducted at the premise for at least three billing periods prior to the application; (iii) that seasonal business has not been conducted at the premise for at least thirteen billing periods prior to the application; or (iv) the facility is newly constructed.
2. Existing Customers and Existing In-state Customers of Competing Suppliers - An existing customer, or an existing in-state customer of a competing supplier with increased demand of 200 Kw per month and increased usage of 750,000 Kwh per year is eligible for service under this rate. Only the expanded portion of the facility will be eligible for the negotiated rate. In addition, the new load must be supplied from a separately metered circuit with separate metering equipment to be installed at the customer's expense. Average usage at the original facility must be at least as great as that which occurred in the previous 12 month period.

Rate:

Basic Service Charge: ~~\$95.00~~100.00 per month

Demand Charge: To Be Negotiated

Energy Charge: Otherwise applicable energy charge for General Service Rate 30.

~~Interim Rate Increase:~~

~~10.320% of amount billed under Basic Service Charge, Energy Charge and Demand Charge where applicable.~~

Contracts shall be filed with and approved by the North Dakota Public Service Commission.

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Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of North Dakota Electric Rate Schedule

NDPSC Volume 4
3rd Revised Sheet No. 23
Canceling 2nd Revised Sheet No. 23

INTERRUPTIBLE LARGE POWER DEMAND RESPONSE Rate 38

Page 1 of 4

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 ~~\$3.258.00~~ per Kw
June – September ~~\$6.2511.00~~ per Kw

Energy Charge: ~~2.1261.574~~¢ per Kwh

~~Base Fuel and Purchased Power: 2.024¢ per Kwh~~

~~Interim Rate Increase:~~

~~10.320% of amount billed under Basic Service Charge, Energy Charge and Demand Charge where applicable.~~

Minimum Bill:

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

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Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of North Dakota Electric Rate Schedule

NDPSC Volume 4
3rd Revised Sheet No. 25
Canceling 2nd Revised Sheet No. 25

SMALL MUNICIPAL ELECTRIC SERVICE Rate 40 (CLOSED)

Page 1 of 3

Availability:

For all lighting and power requirements with billing demands of 50 kilowatts or less for public buildings or locations supported by public tax levies, and for which the city is liable for payment, in all municipalities served where the Company is operating under a municipal franchise or permit, and the municipality has a standard contract for operation of a street lighting system and/or a municipal pumping system with the Company.

This rate is restricted to small municipal electric service customers who were served under this rate prior to January 27, 1987. Any new small municipal general electric service customer may take service under another applicable rate.

Rate:

Non-Demand:

Basic Service Charge: ~~\$0.65~~0.84 per day

Energy Charge:

October – May:

First 750 Kwh per month ~~3.8683.930~~2.8022.830¢ per Kwh

Over 750 Kwh per month ~~2.8022.830~~3.8683.930¢ per Kwh

June – September: ~~3.8683.930~~2.087¢ per Kwh

~~Base Fuel and Purchased Power: 2.087¢ per Kwh~~

~~Interim Rate Increase:~~

~~10.320% of amount billed under Basic Service Charge, Energy Charge and Demand Charge where applicable.~~

Demand:

Basic Service Charge: ~~\$0.75~~1.00 per day

Demand Charge:

October – May:

10 Kw or less No Charge

Over 10 Kw ~~\$6.258.25~~6.258.25 per Kw

Date Filed: November 21, 2016

Effective Date: Service rendered on and after December 13, 2016

Issued By: Tamie A. Aberle
Director - Regulatory Affairs

Case No.: PU-16-666



Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of North Dakota Electric Rate Schedule

NDPSC Volume 4

7th Revised Sheet No. 25.1

Canceling 6th Revised Sheet No. 25.1

SMALL MUNICIPAL ELECTRIC SERVICE Rate 40 (CLOSED)

Page 2 of 3

June – September: ~~\$8.25~~11.25 per Kw

Energy Charge: ~~1.30~~1.930¢ per Kwh

~~Base Fuel and Purchased Power: 2.087¢ per Kwh~~

~~Interim Rate Increase:~~

~~10.320% of amount billed under Basic Service Charge, Energy Charge
and Demand Charge where applicable.~~

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.

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.

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Issued By: Tamie A. Aberle
Director - Regulatory Affairs

Case No.: PU-16-666



Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of North Dakota Electric Rate Schedule

NDPSC Volume 4
6th Revised Sheet No. 26
Canceling 5th Revised Sheet No. 26

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:

Primary Service:

Energy Charge: ~~5.00~~5.510¢ per Kwh

~~Base Fuel and Purchased Power: 2.024¢ per Kwh~~

~~Interim Rate Increase:~~

~~10.320% of amount billed under Basic Service Charge, Energy Charge and Demand Charge where applicable.~~

Secondary Service:

Energy Charge: ~~5.50~~6.010¢ per Kwh

~~Base Fuel and Purchased Power: 2.087¢ per Kwh~~

~~Interim Rate Increase:~~

~~10.320% of amount billed under Basic Service Charge, Energy Charge and Demand Charge where applicable.~~

Discount: For contracts of ten years or more 10%

Kwh shall be computed according to the total rated capacity of lamps in use.

Minimum Bill:

As provided in 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.

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Issued By: Tamie A. Aberle
Director - Regulatory Affairs

Case No.: PU-16-666



Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of North Dakota Electric Rate Schedule

NDPSC Volume 4

3rd Revised Sheet No. 26.1

Canceling 2nd Revised Sheet No. 26.1

MUNICIPAL LIGHTING SERVICE Rate 41

Page 2 of 2

Adjustment Clauses:

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

- 1. Renewable Resource Cost Adjustment Rate 55
- ~~1.2.~~ Generation Resource Recovery Rider Rate 56
- ~~2.3.~~ Environmental Cost Recovery Rider Rate 57
- ~~3.4.~~ Fuel and Purchased Power Adjustment Rate 58
- ~~4.5.~~ Transmission Cost Adjustment Rate 59

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.
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. 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 100-112 and any amendments or alterations thereto or additional rules and regulations promulgated by the Company under the laws of the state.

Date Filed: November 21, 2016

Effective Date: Service rendered on and after December 13, 2016

Issued By: Tamie A. Aberle
Director - Regulatory Affairs

Case No.: PU-16-666



Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of North Dakota Electric Rate Schedule

NDPSC Volume 4
3rd Revised Sheet No. 32
Canceling 2nd Revised Sheet No. 32

MUNICIPAL PUMPING SERVICE Rate 48

Page 1 of 3

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:

Primary Service:

Basic Service Charge: ~~\$12.00~~\$80.00 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: ~~\$3.00~~\$6.00 per Kw
June – September: ~~\$5.50~~\$9.00 per Kw

Energy Charge: ~~2.06~~2.163¢ per Kwh

~~Base Fuel and Purchased Power: 2.024¢ per Kwh~~

~~Interim Rate Increase:~~

~~10.320% of amount billed under Basic Service Charge, Energy Charge and Demand Charge where applicable.~~

Secondary Service:

Basic Service Charge: ~~\$10.00~~\$45.00 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.

Date Filed: November 21, 2016

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Issued By: Tamie A. Aberle
Director - Regulatory Affairs

Case No.: PU-16-666



Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of North Dakota Electric Rate Schedule

NDPSC Volume 4

7th Revised Sheet No. 32.1

Canceling 6th Revised Sheet No. 32.1

MUNICIPAL PUMPING SERVICE Rate 48

Page 2 of 3

October – May: ~~\$5.006.00~~ per Kw

June – September: ~~\$7.009.00~~ per Kw

Energy Charge: ~~2.1662.263~~¢ per Kwh

~~Base Fuel and Purchased Power: 2.087¢ per Kwh~~

~~Interim Rate Increase:~~

~~10.320% of amount billed under Basic Service Charge, Energy Charge and Demand Charge where applicable.~~

Discount: For contracts of ten years or more 10%

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.

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.

Adjustment Clauses:

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

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

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Director - Regulatory Affairs

Case No.: PU-16-666



Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of North Dakota Electric Rate Schedule

NDPSC Volume 4

1st Revised Sheet No. 32.2

Canceling Original Sheet No. 32.2

MUNICIPAL PUMPING SERVICE Rate 48

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General Terms and Conditions:

1. 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.
2. The foregoing schedule is subject to Rates 100-112 and any amendments or alterations thereto or additional rules and regulations promulgated by the Company under the laws of the state.

[Reserved for Future Use](#)

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Issued By: Tamie A. Aberle
Director - Regulatory Affairs

Case No.: PU-16-666



Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of North Dakota Electric Rate Schedule

NDPSC Volume 4
7th Revised Sheet No. 36
Canceling 6th Revised Sheet No. 36

OUTDOOR LIGHTING SERVICE Rate 52

Page 1 of 3

Availability:

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

Rate:

Primary Service:

Energy Charge: ~~6.2886.819~~¢ per Kwh

~~Base Fuel and Purchased Power: 2.024¢ per Kwh~~

~~Interim Rate Increase:~~

~~10.320% of amount billed under Basic Service Charge, Energy Charge and Demand Charge where applicable.~~

Secondary Service:

Energy Charge: ~~6.6947.225~~¢ per Kwh

~~Base Fuel and Purchased Power: 2.087¢ per Kwh~~

~~Interim Rate Increase:~~

~~10.320% of amount billed under Basic Service Charge, Energy Charge and Demand Charge where applicable.~~

~~Discount: For contracts of ten years or more 10%~~

Kwh shall be computed according to the total rated capacity of the units in use.

Payment:

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

Adjustment Clauses:

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

1. Renewable Resource Cost Adjustment Rate 55
2. Generation Resource Recovery Rider Rate 56

Date Filed: November 21, 2016

Effective Date: Service rendered on and after December 13, 2016

Issued By: Tamie A. Aberle
Director - Regulatory Affairs

Case No.: PU-16-666



Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of North Dakota Electric Rate Schedule

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Original Sheet No. 36.2

OUTDOOR LIGHTING SERVICE Rate 52

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3. 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.

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.

4. The foregoing schedule is subject to Rates 100-112 and any amendments or alterations thereto or additional rules and regulations promulgated by the Company under the laws of the state.

Reserved for Future Use

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after December 13, 2016

Issued By: Tamie A. Aberle
Director - Regulatory Affairs

Case No.: PU-16-666



Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of North Dakota Electric Rate Schedule

NDPSC Volume 4
Original Sheet No. 39

Renewable Resource Cost Adjustment Rate 55

Page 1 of 2

1. **Applicability:**

This rate schedule represents a Renewable Resource Cost Adjustment (RRCA) and specifies the procedure to be utilized to recover the jurisdictional costs associated with renewable generation resource modifications or additions approved by the Commission, but not recovered through retail rates. Costs to be recovered may include operation and maintenance expenditures, depreciation, taxes, and a current return on the project costs.

2. **Renewable Resource Cost Adjustment:**

- a. An adjustment per Kwh will be calculated using the projected capital costs and related expenses, along with the forecasted Kwh sales, to determine a North Dakota jurisdictional revenue requirement to be recovered through the RRCA rates. The return component of the revenue requirement calculation will include the return on equity ~~of 10.50 percent pursuant to the terms of the Settlement Agreement approved in Case No. PU-15-703~~ [established in the Company's most recent rate case.](#)
- b. The RRCA is applicable to all retail customers for electric energy sold, except those served under special contracts, and are allocated amongst the rate classes based on the Company's ~~AED-Energy Demand/Energy~~ [Factor No. 3](#) established in the Company's most recent general rate case.
- c. The RRCA will be adjusted annually (or other period authorized by the Commission) to reflect the Company's most recent projected capital costs and related expenses for projects determined to be recoverable under this schedule.
- d. A true-up will reflect any over or under collection of revenue under the RRCA based on actual expenditures from the preceding twelve month recovery period plus carrying charges or credits accrued at a rate equal to the three-month Treasury Bill rate as published monthly by the Federal Reserve Board.

~~3. **Time and Manner of the Filing:**~~

~~Montana-Dakota shall file the RRCA at least 60 days prior to the proposed effective date. The filing by Montana-Dakota shall be made by means of a revised RRCA tariff sheet identifying the amounts of the adjustment, the derivation of the RRCA and the resulting RRCA by class.~~

Date Filed: January 5, 2016

Effective Date: Service rendered on and after January 7, 2016

Issued By: Tamie A. Aberle
Director – Regulatory Affairs

Case No.: PU-15-703



Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of North Dakota Electric Rate Schedule

NDPSC Volume 4
Original Sheet No. 39.1

Renewable Resource Cost Adjustment Rate 55

Page 2 of 2

4.3. Renewable Resource Cost Adjustment:

Residential & Small General	\$0.00712 <u>0.642¢</u> per Kwh
Small General	\$0.00566 per Kwh
Large General	\$0.00690 <u>0.620¢</u> per Kwh
Lighting	\$0.00865 <u>0.557¢</u> per Kwh

Reserved for Future Use

Date Filed: January 5, 2016

Effective Date: Service rendered on and
after January 7, 2016

Issued By: Tamie A. Aberle
Director – Regulatory Affairs

Case No.: PU-15-703



Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of North Dakota Electric Rate Schedule

NDPSC Volume 4
1st Revised Sheet No. 40
Canceling Original Sheet No. 40

Generation Resource Recovery Rider Rate 56

Page 1 of 2

Applicability:

This rate schedule represents a Generation Resource Recovery Rider (GRRR) and specifies the procedure to be utilized to recover the jurisdictional costs associated with generation resource additions approved by the Commission but not recovered through retail rates. Costs to be recovered may include operations and maintenance expenditures, depreciation, taxes, and a current return on the project costs during construction. Costs being recovered under this tariff are currently not included in the rates established at the time of the Company's last general rate case.

1. Generation Resource Recovery Rider:

- a. The North Dakota jurisdictional GRRR revenue requirement will be allocated to the customer classes based on the Company's [AED-Demand](#) Factor No. 2 established in the Company's most recent general rate case. The adjustment applied to the Residential and Small General Service Classes will be calculated based on the customer class revenue requirement and the forecasted Kwh for the forecasted period. The adjustment applied to the Large General Service Class will be calculated based on the customer class revenue requirement and the forecasted demand for the forecasted period and expressed as a KW charge. The return component of the revenue requirement calculation will include the authorized return on equity ~~from specified in Case No. PU-16-666~~ the Company's most recent general rate case.
- b. The GRRR is applicable to all retail customers for electric energy sold, except those served under lighting schedules and special contracts, and are allocated amongst the rate classes based on the applicable demand factor.
- c. The GRRR will be adjusted annually (or other period authorized by the Commission) to reflect the Company's most recent projected capital costs and related expenses for projects determined to be recoverable under this schedule.
- d. A true-up will reflect any over or under collection of revenue under the GRRR based on actual expenditures from the preceding twelve month recovery period plus carrying charges or credits accrued at a rate equal to the three-month Treasury Bill rate as published monthly by the Federal Reserve Board.

Date Filed: October 21, 2015

Effective Date: Service rendered on and after March 15, 2016

Issued By: Tamie A. Aberle
Director – Regulatory Affairs

Case No.: PU-15-704



Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of North Dakota Electric Rate Schedule

NDPSC Volume 4

2nd Revised Sheet No. 40.1

Canceling 1st Revised Sheet No. 40.1

Generation Resource Recovery Rider Rate 56

Page 2 of 2

~~2. Time and Manner of the Filing:~~

~~Montana-Dakota shall file the GRRR at least 60 days prior to the proposed effective date. The filing by Montana-Dakota shall be made by means of a revised GRRR tariff sheet identifying the amounts of the adjustment, the derivation of the GRRR and the resulting GRRR by class.~~

3.2. Generation Resource Recovery Rider:

Residential <u>& Small General</u>	\$0.005000.284¢ per Kwh
Small-Large General	\$0.0034982.212¢ per KWKwh
Large General <u>Space Heating Rate 32</u>	\$1.4444.987¢ per KW
<u>Lighting</u>	<u>0.110¢ per Kwh</u>

Date Filed: October 21, 2015

Effective Date: Service rendered on and after March 15, 2016

Issued By: Tamie A. Aberle
Director – Regulatory Affairs

Case No.: PU-15-704



Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of North Dakota Electric Rate Schedule

NDPSC Volume 4
3rd Revised Sheet No. 41
Canceling 2nd Revised Sheet No. 41

Environmental Cost Recovery Rider Rate 57

Page 1 of 2

1. **Applicability:**

This rate schedule represents an Environmental Cost Recovery Rider (ECRR) and specifies the procedure to be utilized to recover the jurisdictional costs to be incurred by the Company in complying with federal and state environmental mandates determined to be eligible for recovery under NDCC 49-05-04.2. Costs to be recovered may include capital expenditures, depreciation, taxes, and a current return on the project costs during construction. Costs being recovered under this tariff are currently not included in the rates established at the time of the Company's last general rate case.

2. **Environmental Cost Recovery Rider:**

- a. An adjustment per Kwh will be calculated using the projected capital costs and related expenses, along with the forecasted Kwh sales, to determine a North Dakota jurisdictional revenue requirement to be recovered through the ECRR. The return component of the revenue requirement calculation will ~~be include~~ the authorized ~~rate of~~ return ~~on equity specified in from the~~ ~~Company's most recent general rate Case No. PU-16-666.~~
- b. The ECRR is applicable to all retail customers for electric energy sold, except those served under special contracts, and are allocated amongst the rate classes based on the Company's ~~AED-Demand~~ Factor No. 2 established in the Company's most recent general rate case.
- c. The ECRR will be adjusted annually (or other period authorized by the Commission) to reflect the Company's most recent projected capital costs and related expenses for projects determined to be eligible under NDCC 49-05-04.2.
- d. A true-up will reflect any over or under collection of revenue under the ECRR based on actual expenditures from the preceding twelve month recovery period plus carrying charges or credits accrued at a rate equal to the three-month Treasury Bill rate as published monthly by the Federal Reserve Board.

3. ~~Time and Manner of the Filing:~~

~~Montana-Dakota shall file the ECRR at least 30 days prior to the proposed effective date. The filing by Montana-Dakota shall be made by means of a revised ECRR tariff sheet identifying the amounts of the adjustment, the derivation of the ECRR and the resulting ECRR by class.~~

Date Filed: May 31, 2013

Effective Date: Service rendered on and after January 15, 2014

Issued By: Tamie A. Aberle
Director - Regulatory Affairs

Case No.: PU-13-83 & PU-13-85



Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of North Dakota Electric Rate Schedule

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4th Revised Sheet No. 41.1

Canceling 3rd Revised Sheet No. 41.1

Environmental Cost Recovery Rider Rate 57

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4.3. Environmental Cost Recovery Rider:

Residential and Small General	0.3960.000 ¢ per Kwh
Large General	0.3230.000 ¢ per Kwh
Lighting	0.2550.000 ¢ per Kwh

Reserved for Future Use

Date Filed: April 10, 2015

Effective Date: Service rendered on and
after July 1, 2015

Issued By: Tamie A. Aberle
Director - Regulatory Affairs

Case No.: PU-15-143



Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of North Dakota Electric Rate Schedule

NDPSC Volume 4

5th Revised Sheet No. 42

Canceling 4rd Revised Sheet No. 42

FUEL AND PURCHASED POWER ADJUSTMENT Rate 58

Page 1 of 3

1. Applicability:

This rate schedule sets forth the procedure to be used in calculating the Fuel and Purchased Power Adjustment (FPPA). It specifies the procedure to be utilized to adjust the rates for electricity sold under Montana-Dakota's rate schedules in order to reflect: ~~-(a) changes in Montana-Dakota's average cost of fuel and purchased power, including electric wholesale sales margin credits~~ as allocated to North Dakota; and (b) amortization of the Deferred Fuel Cost Account.

2. Effective Date and Limitation on Adjustments:

- a. Unless otherwise ordered by the Commission, the effective dates of the Fuel and Purchased Power Adjustment shall be service rendered on and after the first day of each month. The effective date of the adjustment for amortization of the Deferred Fuel Cost Account shall be April 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 adjustment to be effective April 1 shall be filed each year, regardless of the amount of the change.

3. Fuel and Purchased Power Adjustment:

- a. The monthly Fuel and Purchased Power Adjustment shall be calculated separately for primary service and secondary service customers and shall reflect 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 from the prior period~~ plus the annual Surcharge Adjustment. ~~The base fuel and purchased power cost shall be 2.0242.454¢ per Kwh for primary service and 2.0872.536¢ 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 North Dakota and to the primary and secondary customer classes:

- 1. The cost of fossil and other fuels and reagents, including sand, recorded in Account Nos. 501, 502 and 547.

Date Filed: July 16, 2012

Effective Date: Service rendered on and after August 1, 2012

Issued By: Tamie A. Aberle
Regulatory Affairs Manager

Case No.: PU-12-011



Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

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4th Revised Sheet No. 42.1

Canceling 3rd Revised Sheet No. 42.1

FUEL AND PURCHASED POWER ADJUSTMENT Rate 58

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2. Natural gas and pipeline reservation charges recorded in Account No. 547

3. The net cost of purchases and costs linked to the utility's load serving obligation associated with participation in the wholesale electric energy markets as recorded in Account No. 555

4. Capacity purchases as recorded in Account No. 555.

5. Regional Market Administration expenses recorded in Account No. 575.

~~6. Less the cost of fuel and purchased power recovered from electric wholesale sales.~~

~~7.6.~~ Less 100 percent of the wholesale sales ~~margin~~ revenue.

~~8.7.~~ Less the revenue from the sales of Renewable Energy Credits (RECs).

c. The cost per Kwh for the month is the sum of 3(b) above divided by retail sales volumes for the most recent four month period for the primary and secondary service classes.

4. Surcharge Adjustment:

All sales rate schedules shall be subject to a Surcharge Adjustment to be effective on April 1 each year. The Surcharge Adjustment per Kwh sold shall reflect the amortization of the applicable balance in the Deferred 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.

a. The balance in the Deferred Fuel Cost Account (Account 182.3) includes:

1. The current month over or under recovery, determined as follows:

i. Montana-Dakota shall determine each month the cost for that month's fuel and purchased power.

ii. Montana-Dakota shall subtract from the month's unit cost the unit cost reflected in rates for that month.

Date Filed: February 26, 2014

Effective Date: Service rendered on and after August 20, 2014

Issued By: Tamie A. Aberle
Director- Regulatory Affairs

Case No.: PU-14-109



Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of North Dakota Electric Rate Schedule

NDPSC Volume 4

62nd Revised Sheet No. 42.2

Canceling 61st Revised Sheet No. 42.2

FUEL AND PURCHASED POWER ADJUSTMENT Rate 58

Page 3 of 3

iii. The resulting difference (positive or negative) shall be ~~multiplied by the Kwh's sold~~ included that month under each rate schedule.

2. Refunds from supplier(s) and market operators with respect to fuel and purchased power costs.
3. Carrying charges or credits at a rate equal to the three-month Treasury Bill rate as published monthly by the Federal Reserve Board.
4. The balance in the Deferred Fuel Cost Account shall be decreased each month by the amount of the Surcharge Adjustment multiplied by the Kwh sales for the month. ~~The amount amortized shall be applied pro rata between the Deferred Fuel Cost Account and the interest balance.~~

5. Manner of Filing:

The Company shall file a monthly statement showing the calculation of the Fuel and Purchased Power Adjustment with the Commission prior to implementing the monthly adjustment. The adjustment in rates shall be effective with service rendered on and after the first day of each month, unless the Commission shall otherwise order.

6. Fuel and Purchased Power Adjustment:

	<u>Primary</u>	<u>Secondary</u>
Base Fuel	2.0242.454¢	2.0872.536¢
Fuel and Purchased Power Adjustment	—(0.029)0.000	—(0.022)0.000
Total FPPA	—1.9952.454¢	—2.0652.536¢

The current & previous month's Fuel and Purchased Power Adjustment for primary and secondary service customers can be found at www.montana-dakota.com/rates-and-services.

Date Filed: May 17, 2017

Effective Date: Service rendered on and after June 1, 2017

Issued By: Tamie A. Aberle
Director- Regulatory Affairs

Case No.: PU-17-011



Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

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Original Sheet No. 43

TRANSMISSION COST ADJUSTMENT Rate 59

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1. Applicability:

This rate schedule represents a Transmission Cost Adjustment and specifies the procedure to be utilized to recover the net balance of the capital and operating costs and revenue credits of Montana-Dakota's transmission related expenses and revenues determined to be eligible for recovery in accordance with 49-05-04.3 NDCC. Costs to be recovered under the Transmission Adjustment shall include new or modified transmission facilities such as transmission lines and other transmission related equipment such as substations, transformers and other equipment constructed to improve the power delivery capability or reliability of the transmission system as well as federally regulated costs charged to or incurred by the Company to increase regional transmission capacity or reliability that are not reflected in the rates established in the most recent general rate case.

2. Transmission Cost Adjustment:

- a. An adjustment per Kwh will be determined based on the cumulative transmission related costs and revenue credits eligible for recovery and as allocated to the North Dakota jurisdiction as of November 1 of each year and the projected Kwh sales for the recovery period. The adjustment will also include a return requirement on the capital investments ~~based on where the~~ return component will include the authorized ~~rate of~~ return on equity specified in Case No. PU-16-666 and a true-up of the previous year's adjustment, as described in 2(d).
- b. The adjustment will be applicable to all retail customers for electric energy sold, except those served under special contract and allocated among the rate classes based on the transmission allocation factor from Montana-Dakota's most recent North Dakota general rate case.
- c. The adjustment per Kwh will be revised annually to reflect the current level of costs to be recovered.

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3rd Revised Sheet No. 43.1

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- d. The true-up will reflect any over or under collection of revenue under the Transmission Adjustment from the preceding twelve month period plus carrying charges or credits accrued at a rate equal to the three-month Treasury Bill rate as published monthly by the Federal Reserve Board.

~~3. Time and Manner of Filing:~~

~~Montana-Dakota shall file the Transmission Adjustment at least 30 days prior to the proposed effective date. The filing by Montana-Dakota shall be made by means of a revised Transmission Adjustment tariff sheet identifying the amounts of the adjustment, the derivation of the adjustment and the resulting Transmission Adjustment rate.~~

4.3. Transmission Cost Adjustment Rate by class:

Residential & Small General	\$0.00329 <u>0.413¢ per Kwh</u>
Large General	\$0.00293 <u>0.350¢ per Kwh</u>
Lighting	\$0.00215 <u>0.161¢ per Kwh</u>

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Canceling 15th Revised Sheet No. 44

OCCASIONAL POWER PURCHASE Rate 95 NON-TIME DIFFERENTIATED

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Availability:

To any qualifying cogeneration and small power production facilities for the purpose of generating occasional electric energy in parallel with the Company's system. This schedule is applicable to cogeneration and small power production facilities with a design capacity of 100 Kw or less, that are Qualifying Facilities (QF) as defined under 18 CFR, Part 292.

Rate:

Metering charge for single phase service: \$0.05 per day
With instrument transformers: \$0.16 per day

Metering charge for three phase service: \$0.11 per day
With instrument transformers: \$0.28 per day

~~Interim Rate Increase:~~

~~10.320% of amount billed under Metering Charge.~~

Energy delivered to and accepted by Company by a QF shall be paid for by Company in accordance with one of the following two options, elected by the QF:

1. Simultaneous Purchase and Sale:

Energy sales to QF - Service provided to such customers by the Company shall be billed at the appropriate rate, by class of customers (i.e., residential, small and general electric service, etc.) that is currently on file with the Commission.

Energy purchases by Company:

Energy Payment = 2.581¢ per Kwh

2. Net Billing:

Energy generated will be compensated on a net billing basis. The Company will install a meter to measure the energy generated by the QF. The Company will also install a meter to measure the energy consumed by the QF. Metered generation will be subtracted from the metered consumption for the billing period.

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PARALLEL GENERATION PEAKING FACILITY PURCHASE Rate 96 TIME DIFFERENTIATED

Page 1 of 3

Availability:

To any qualifying cogeneration and small power production facilities for the purpose of generating electric energy in parallel with the Company's system. This schedule is applicable to cogeneration and small power production facilities with a design capacity of 1000 Kw or less, that operate as a peaking facility (defined below), and are Qualifying Facilities (QF) as defined under 18 CFR, Part 292.

Rate:

Metering charge for single phase service: \$ 0.15 per day
With instrument transformers: \$ 0.26 per day

Metering charge for three phase service: \$ 0.16 per day
With instrument transformers: \$ 0.33 per day

Interim Rate Increase:

~~10.320% of amount billed under Metering Charge.~~

1. Capacity delivered to the Company:

Levelized payment for term of contract based on Table 1 below.

TABLE 1
Contract Length (YR.)

	5	10	15	20
\$/Kw-mo	7.619	7.619	7.619	7.619

Total capacity payment per month = Monthly capacity payments for a QF will be made pursuant to the applicable contract length from Table 1 presented above. Such payments shall be based upon the amount of qualifying capacity assigned to an eligible resource under BPM-011-Resource Adequacy of the MISO Tariff.

Capacity payments will be paid in the subsequent billing period.

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days after written request for termination is made to the utility by the guarantor. However, no agreement shall be terminated without the customer having made satisfactory settlement for any balance which the customer owes the Company. Upon termination of a guarantee contract, a new contract or a cash deposit may be required by the Company.

- iii. A deposit shall earn interest at the rate paid by the Bank of North Dakota on a six-month certificate of deposit as of the first business day of each year. Interest shall be credited to the customer's account annually during the month of December.
- iv. Deposits shall be refunded to customers at termination provided all billings for service have been paid. Deposits will be refunded to all active customers, after the deposit has been held for 12 months, provided a prompt payment record has been established.

3. LATE PAYMENT CHARGE:

Bills will be considered past due if not paid by the due date shown on the bill. An amount equal to 1% per month will be applied to any unpaid balance existing at the immediate subsequent billing date past due balance.

4. RETURNED CHECK CHARGE:

A charge of \$1540.00 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 sales, use or 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, political subdivision, or other entity, for the privilege of conducting its utility operations therein.

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The charges to be added to the customer's service bills under this clause

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shall be limited to the customers within the corporate limits of the municipality, political subdivision or other entity imposing the tax.

6. UTILITY SERVICES PERFORMED AFTER NORMAL BUSINESS HOURS:

For service requested by customers after the Company's normal business hours and on Saturday, Sunday, or legal holidays, a charge will be made for labor at standard overtime service rates and materials 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.

7. RECONNECTION FEE FOR SEASONAL CUSTOMERS:

A ~~charge fee 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 discontinued the same service has disconnected electric service 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. Pursuant to North Dakota Administrative Rules 69-09-02-05.1(1), the Company may disconnect service if the customer is delinquent in payment for service, and fails to pay for service or enter into a satisfactory installment agreement with the Company for payment within ten (10) days of the Company giving the customer written notice of the Company's intention to discontinue service on account of payment delinquency.
- ii. All bills for service 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 Commission.

- iii. If a customer's credit standing becomes unsatisfactory after a deposit has been refunded or if the deposit is inadequate to cover the estimated charge for furnishing service for a 60-day period, a

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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. SELECTIVE TESTING PLAN FOR METERS:

The electric meter population shall be tested in accordance with the Electric Meter Testing Program approved by the Commission.

13. BILLING ADJUSTMENTS:

If a meter or billing error results from 1) an inaccurate meter; 2) an incorrect reading of the meter; 3) an incorrect application of a rate schedule; 4) an incorrect connection of the meter; 5) an application of an incorrect multiplier or constant; or 6) other similar errors affecting customer bills.

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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 customers premise. It is the obligation of the customer [to consult with the Company regarding available maximum 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.

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.

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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. 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. The customer will utilize meter sockets from a Company approved list of manufacturer and models as posted on the Company's website.
2. U.L. approved, ringless style.
3. 100 ampere minimum for overhead service installations.
4. 150 ampere minimum for underground service installations.
5. Stud connectors are required for all sockets rated 320 amps or greater.
6. For sockets rated below 320 amps, study connectors are recommended. Only Company specified meter sockets are approved with lay-in connectors.
7. Equipped with a fifth terminal in the nine o'clock position where network metering is required.
8. A lever by-pass feature is required for all commercial and industrial installations. Upon review by Company, an exemption may be provided.
9. 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.
4. Automatic by-pass feature is not acceptable.
5. ~~Consult with Company prior to purchasing any instrument rated socket.~~ The customer will utilize instrument rated meter sockets from a Company approved list of manufacturer and models.

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.

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3. Minimum size 10" x 24" x 30" with suitable mounting brackets for current and voltage transformers.
4. Consult with Company prior to purchasing any metering transformer enclosure.

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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.

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 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 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.)

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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.

605. Outdoor Metering

605.1 Outdoor meters 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.)

605.2604.4 Enclosures shall not be placed over the meter socket unless approved by the Company.

6056. 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. In the event such location renders the automatic meter reading equipment ineffective customer will be responsible for costs associated with remedying the situation.

6067. 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.

6078. 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-removable panel.

6089. 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

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building which contain unmetered wires, shall have provisions made for sealing before service will be supplied.

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1st Revised Sheet No. 58.26

Canceling Original Sheet No. 58.26

ELECTRIC SERVICE RULES AND REGULATIONS Rate 110

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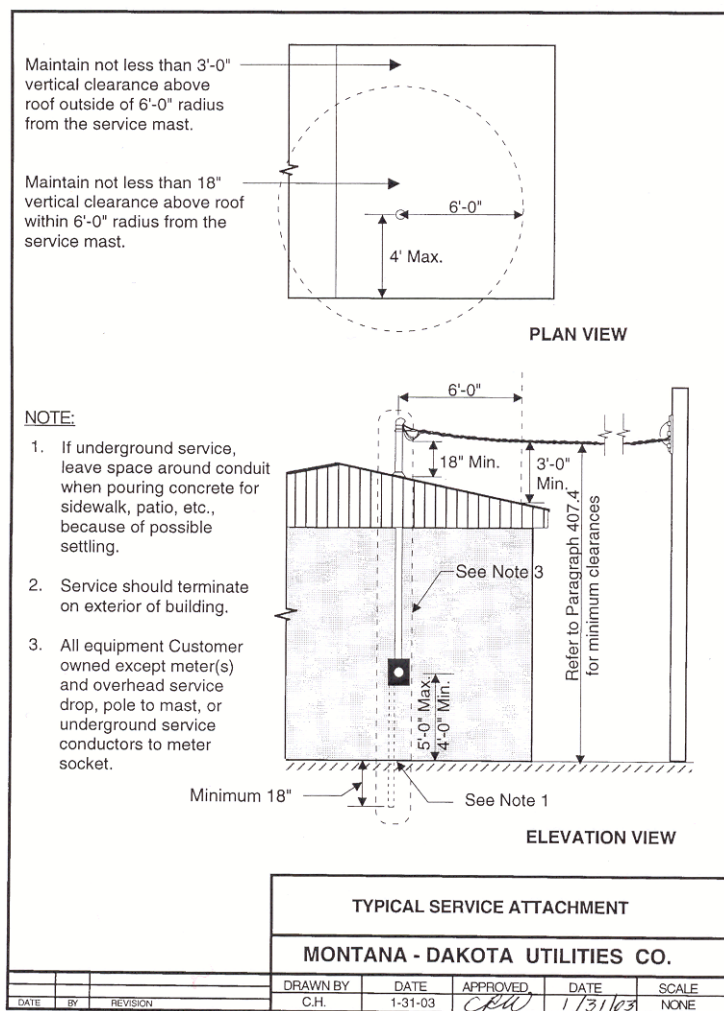


FIGURE 1

Date Filed: March 25, 2005

Effective Date: Service rendered on and after September 7, 2005

Issued By: Donald R. Ball
Assistant Vice President
Regulatory Affairs

Case No.: PU-399-05-180



Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of North Dakota Electric Rate Schedule

NDPSC Volume 4
1st Revised Sheet No. 58.27
Canceling Original Sheet No. 58.27

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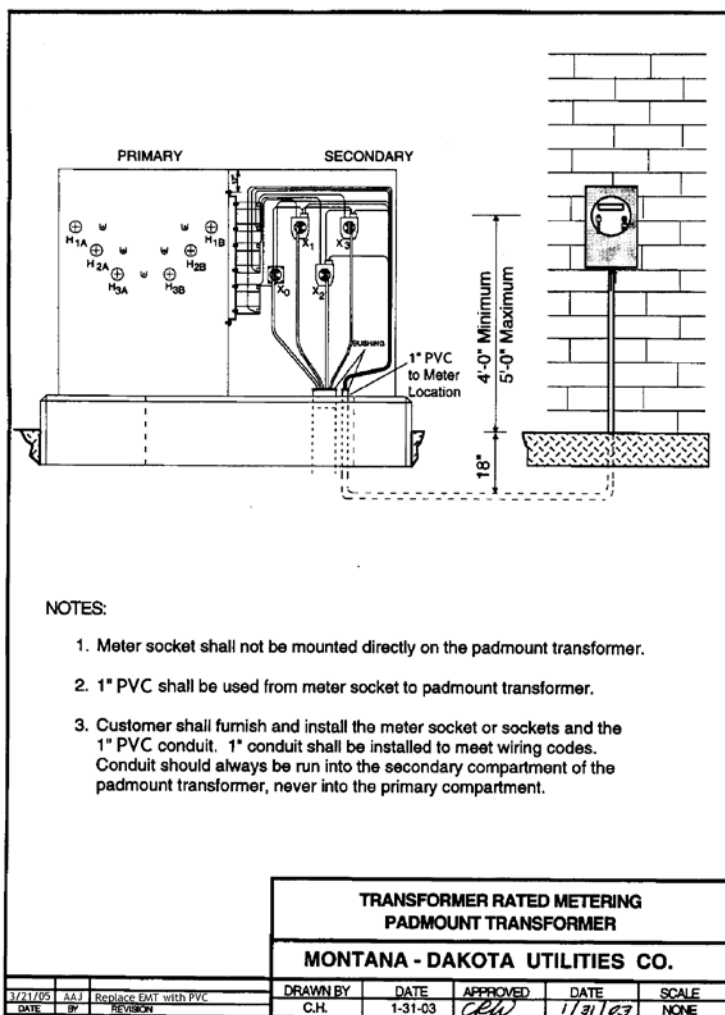


FIGURE 2

Date Filed: March 25, 2005

Effective Date: Service rendered on and after September 7, 2005

Issued By: Donald R. Ball
Assistant Vice President
Regulatory Affairs

Case No.: PU-399-05-180



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State of North Dakota Electric Rate Schedule

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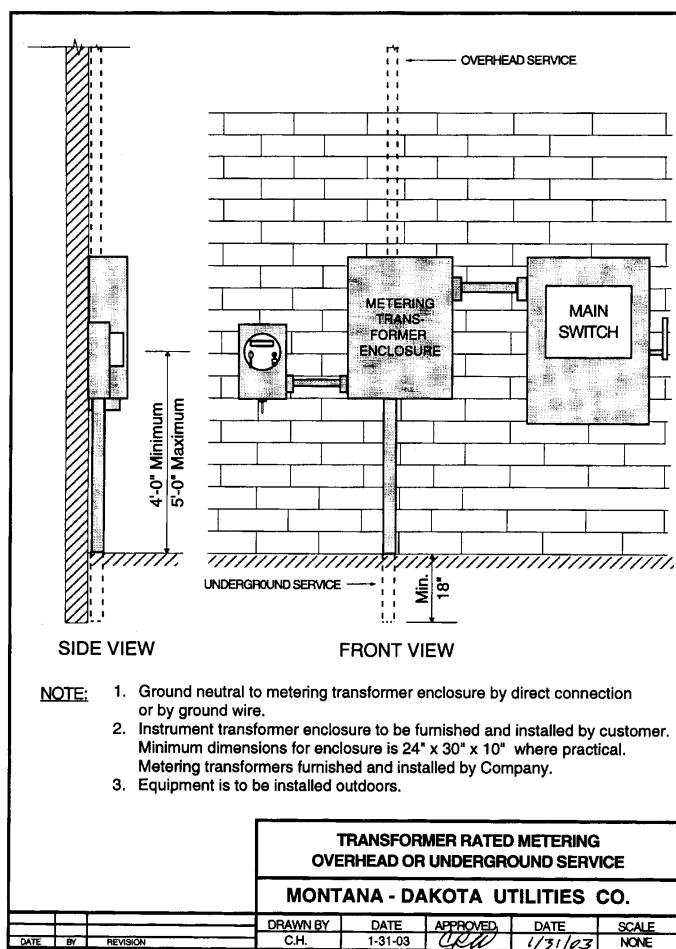


FIGURE 3

Date Filed: March 25, 2005

Effective Date: Service rendered on and after September 7, 2005

Issued By: Donald R. Ball
Assistant Vice President
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State of North Dakota Electric Rate Schedule

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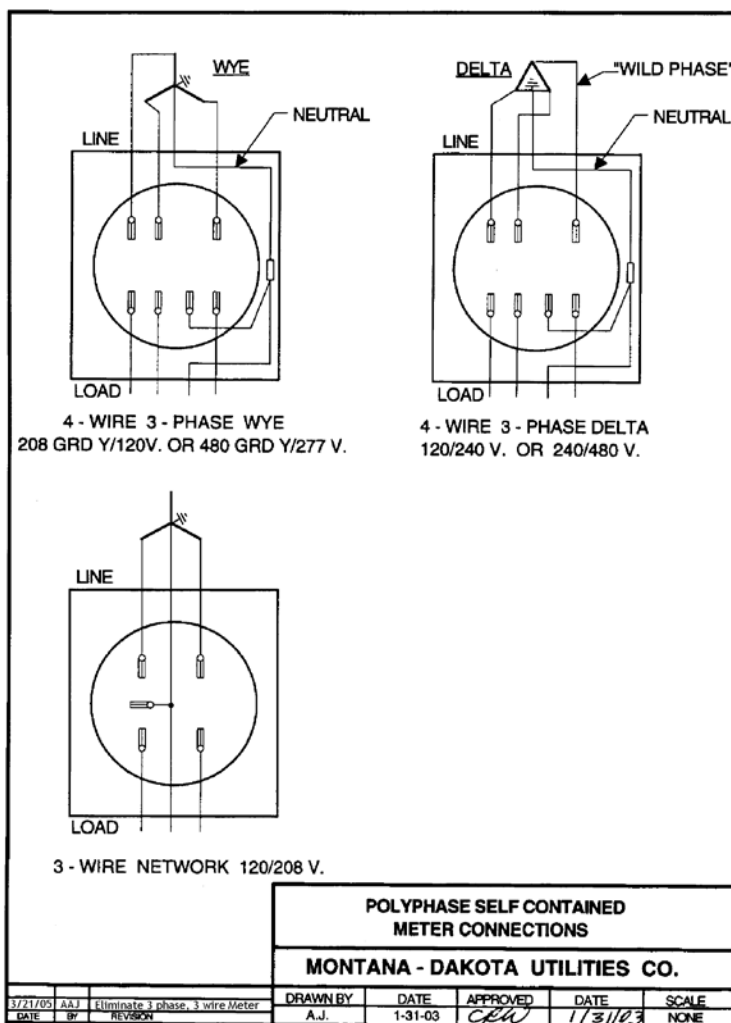


FIGURE 4

Date Filed: March 25, 2005

Effective Date: Service rendered on and after September 7, 2005

Issued By: Donald R. Ball
Assistant Vice President
Regulatory Affairs

Case No.: PU-399-05-180



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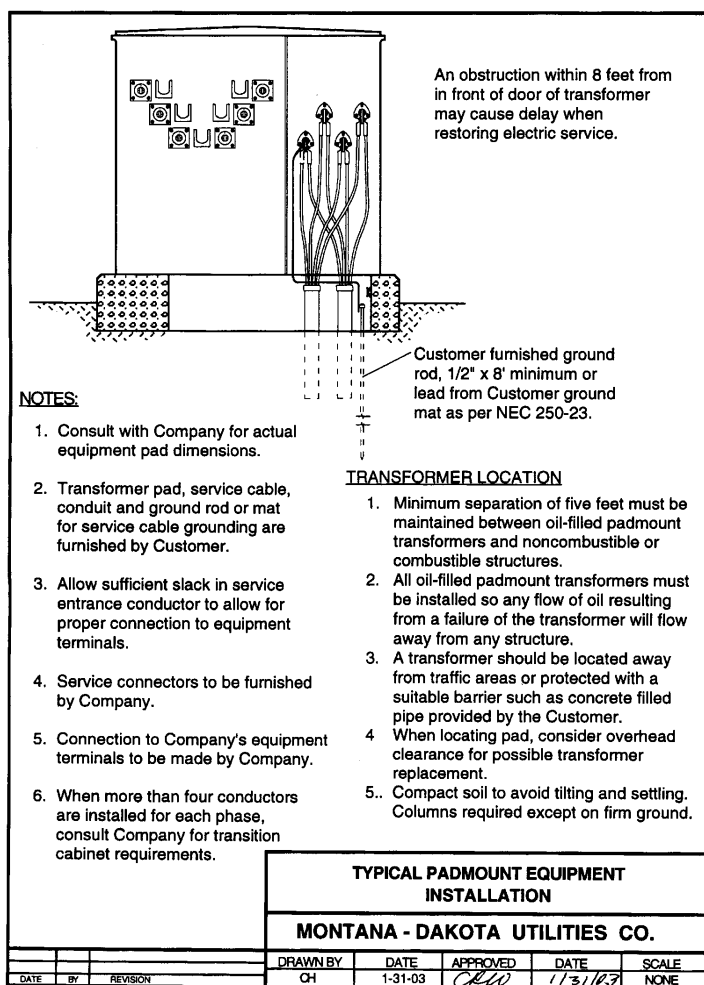


FIGURE 5

Date Filed: March 25, 2005

Effective Date: Service rendered on and after September 7, 2005

Issued By: Donald R. Ball
Assistant Vice President
Regulatory Affairs

Case No.: PU-399-05-180

**MONTANA-DAKOTA UTILITIES CO.
FUEL COST ADJUSTMENT - NORTH DAKOTA
JULY 2017 BILLING ADJUSTMENT SUMMARY**

	<u>Primary</u>	<u>Secondary</u>
Current Cost of Fuel (Page 2)	\$0.02059	\$0.02147
Prior Cost of Fuel	0.01943	0.02057
Change in Cost of Fuel	<u>\$0.00116</u>	<u>\$0.00090</u>
 <u>Surcharge Adjustment</u>		
Current Adjustment	(\$0.00021)	(\$0.00052)
Prior Adjustment	(0.00021)	(0.00052)
Change in Surcharge Adjustment	<u>\$0.00000</u>	<u>\$0.00000</u>
 ECRR Recovery 1/	 \$0.00072	 \$0.00072
 Cost of Fuel	 \$0.02059	 \$0.02147
Surcharge Adjustment	(0.00021)	(0.00052)
ECRR Recovery	0.00072	0.00072
Total Amount Billed	<u><u>\$0.02110</u></u>	<u><u>\$0.02167</u></u>

1/ True up adjustment account balance for the Environmental

Cost Recovery Rider:

Balance to be Recovered	\$3,060,271
Annual Volumes (Case No. PU-16-666)	2,121,877,000
Amortization Period (Years)	<u>2</u>
ECRR Recovery Rate	<u>\$0.00072</u>

**MONTANA-DAKOTA UTILITIES CO.
FUEL AND PURCHASED POWER COST TRACKING ADJUSTMENT - NORTH DAKOTA
JULY 2017**

	Total 1/	Allocation to 2/ North Dakota	Allocation to 3/	
			Primary	Secondary
Fuel & Purchased Power Costs				
Account 501 and 547	\$15,670,313	\$10,759,565	\$1,839,792	\$8,919,773
Account 502 Reagent and Sand	940,243	645,591	110,390	535,201
Account 555 Energy	3,412,164	2,342,863	400,609	1,942,254
Account 555 Demand and 547 Pipeline Charges	1,224,668	874,551	85,793	788,758
Account 575 Market Admin.	150,635	103,429	17,685	85,744
Total Fuel & Purchased Power	\$21,398,023	\$14,725,999	\$2,454,269	\$12,271,730
Less:				
Wholesale Sales Revenue	269,242	184,867	31,611	153,256
Revenue from Sale of RECs 4/	1,047	(5,047)	(863)	(4,184)
Net System Costs	\$21,127,734	\$14,546,179	\$2,423,521	\$12,122,658
Kwh Retail Sales	993,679,276	682,281,010	117,726,333	564,554,677
Cost Per Kwh	\$0.02126	\$0.02132	\$0.02059	\$0.02147

1/ Page 3.

2/ Energy is allocated on Kwh sales and demand and pipeline are allocated on Allocation Factor No. 15, Integrated System 12 Month Peak Demand.

3/ Energy is allocated on Kwh sales and demand and pipeline is allocated on class Allocation Factor No. 2, Coincident Peak Demand from PU-16-666.

4/ North Dakota's portion is allocated between primary and secondary based on Kwh sales at generation.

Factor No. 15 ND	71.411233%
Factor No. 2 Primary	9.810000%
Factor No. 2 Secondary	90.190000%

**MONTANA-DAKOTA UTILITIES CO.
FUEL AND PURCHASED POWER COST TRACKING ADJUSTMENT - INTEGRATED SYSTEM
JULY 2017**

	2017				Total
	February	March	April	May	
Fuel & Purchased Power Costs					
Account 501 and 547	\$4,171,364	\$4,563,762	\$2,820,855	\$4,114,332	\$15,670,313
Account 502 Reagent and Sand	172,288	213,601	104,343	450,011	940,243
Account 555 Energy 1/	969,261	802,499	1,586,398	54,006	3,412,164
Account 555 Demand and 547 Pipeline Charges	309,991	305,796	303,085	305,796	1,224,668
Account 575 Market Admin.	32,343	48,760	31,988	37,544	150,635
Total Fuel & Purchased Power	\$5,655,247	\$5,934,418	\$4,846,669	\$4,961,689	\$21,398,023
Less:					
Wholesale Sales Revenue	38,680	65,426	17,482	147,654	269,242
Revenue from Sale of RECs	0	63,997	(62,950)	0	1,047
Net System Costs	\$5,616,567	\$5,804,995	\$4,892,137	\$4,814,035	\$21,127,734
Kwh Retail Sales	267,898,552	290,402,853	219,107,077	216,270,794	993,679,276
Cost Per Kwh	\$0.02097	\$0.01999	\$0.02233	\$0.02226	\$0.02126

MONTANA-DAKOTA UTILITIES CO.
ACCOUNT 555
JULY 2017 BILLING ADJUSTMENT

Account No.	Account Description	2017			
		February	March	April	May
	<u>Midcontinent Independent System Operator (MISO)</u>				
555.111	Day-Ahead Asset Energy	\$1,981,753	\$2,154,949	\$2,905,183	\$1,052,615
555.114	Real-Time Asset Energy	(45,784)	(112,106)	32,428	(6,186)
555.117	Real-Time Excessive Energy	1,294	685	1,389	1,742
555.118	Real-Time Non-Excessive Energy	(680,601)	(766,470)	(682,703)	(460,927)
555.1211	Day-Ahead Asset Congestion	(166,973)	(510,204)	(509,096)	(277,985)
555.1215	Real-Time Asset Congestion	12,564	21,771	(3,546)	9,179
555.1219	Real-Time Non-Excessive Congestion	81,952	151,471	137,805	171,261
555.1230	Revenue Rights Transaction	(33,592)	(16,624)	(16,624)	(16,624)
555.1232	Revenue Rights Infeasible Uplift	4,620	4,272	4,271	4,273
555.1233	Revenue Rights Stage 2 Distribution	(41,370)	(32,208)	(31,976)	(32,966)
555.1234	Auction Revenue Rights Real-Time MVP Distribution	(2,595)	(2,456)	(1,096)	(1,018)
555.130	Real-Time Non-Excessive Loss	73,036	80,243	72,716	49,891
555.131	Day-Ahead Asset Loss	(100,824)	(98,254)	(252,765)	(25,426)
555.135	Real-Time Asset Loss	(34,002)	25,236	16,144	(60,573)
555.136	Real-Time Distribution of Loss	(1,998)	(2,007)	(1,634)	(2,907)
555.151	Day-Ahead Rev Suff Guarantee Distribution	3,127	7,280	8,288	7,285
555.152	Day-Ahead Rev Suff Guarantee Make Whole Pmt	0	(12)	0	0
555.153	Real-Time Miscellaneous	(43)	60,250	13,964	11,929
555.154	Real-Time Net Inadvertent Distribution	7,580	9,631	(2,996)	7,236
555.155	Real-Time Revenue Neutrality Uplift	82,400	42,705	56,656	31,142
555.156	R-T Rev Suff Guarantee First Pass Distribution	872	3,769	15,880	6,781
555.157	R-T Rev Suff Guarantee Make Whole Payment	0	(791)	(1,541)	(23,155)
555.159	Day Ahead Schedule 24	5,575	6,281	4,771	5,413
555.160	Real Time Schedule 24	735	888	773	926
555.162	RT Price Volatility Make Whole Payment	(4,425)	(6,229)	(2,977)	(11,283)
555.1700	Day-Ahead Regulation Amount	0	(228)	0	0
555.1701	Day-Ahead Spinning Reserve Amount	(12,590)	(22,274)	(23,639)	(48,830)
555.1703	Day-Ahead Ramp Capability	(1,139)	(4,706)	(4,402)	(6,840)
555.1711	Real-Time Excessive Deficient Energy Deployment	247	228	246	348
555.1712	Real-Time Contingency Reserve Deployment	0	80	67	0
555.1713	Real-Time Regulation Amount	(26)	132	0	(57)
555.1714	Real-Time Spinning Reserve Amount	(180)	2,167	1,950	3,607
555.1716	Real-Time Regulation Cost Distribution	9,316	10,780	10,183	11,329
555.1717	Real-Time Spinning Reserve Cost Distribution Amount	7,305	11,968	14,533	17,764
555.1718	Real-Time Supplemental Reserve Cost Distribution	2,450	4,206	3,493	8,455
555.172	Real-Time Ramp Capability	(259)	(60)	66	(546)
	<u>Southwest Power Pool (SPP)</u>				
555.185	RT Asset Losses	(\$63,199)	(\$76,706)	(\$68,813)	(\$88,413)
555.186	RT Over Collected Losses	(6,623)	7,528	5,915	6,606
555.1915	RT Asset Congestion	(109,342)	(152,686)	(116,516)	(292,462)
	<u>Other</u>				
555.1	Purchased Power	\$0	\$0	\$0	\$2,420
555.5	Purchased Power Cogeneration	0	0	1	2
	Total Account 555 Charges	\$969,261	\$802,499	\$1,586,398	\$54,006

Fuel & Purchased Power Adjustment

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

Customer Class	Effective June 1, 2017	Effective July 1, 2017	Effective July 10, 2017
Primary Service	\$0.01995	\$0.01922	\$0.02110
Secondary Service	\$0.02065	\$0.02005	\$0.02167

Fuel & Purchased Power Adjustment is Prorated

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

MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - NORTH DAKOTA
Summary of Proposed Charges
PU16-666 Compliance Rates

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	\$0.46									
1st 750		\$0.06133	\$0.06133	\$0.02536	\$0.08669	\$0.08669				
Over 750		0.06133	0.03133	0.02536	0.08669	0.05669				
Rate 13	0.75									
Off Peak			0.01100	0.02536	0.02536	0.03636				
On Peak										
1st 750		0.06577	0.06577	0.02536	0.09113	0.09113				
Over 750		0.06577	0.03577	0.02536	0.09113	0.06113				
TOD Rate 16	0.75									
Off Peak		0.04610	0.03110	0.02536	0.07146	0.05646				
On Peak		0.07610	0.06110	0.02536	0.10146	0.08646				
Small General Service										
Rate 20	0.84									
1st 750		0.06520	0.06520	0.02536	0.09056	0.09056				
Over 750		0.06520	0.03520	0.02536	0.09056	0.06056				
Irrigation Rate 25	1.50	0.00255	0.00255	0.02536	0.03482	0.03482	5.00	1.25	5.00	1.25
TOD Rate 26	1.00									
Off Peak		0.04193	0.02693	0.02536	0.06729	0.05229				
On Peak		0.06693	0.05193	0.02536	0.09229	0.07729				
Municipal Rate 40										
Non- Demand	0.84									
1st 750		0.03930	0.03930	0.02536	0.06466	0.06466				
Over 750		0.03930	0.02830	0.02536	0.06466	0.05366				
Demand	1.00						11.25	0.00	11.25	8.25
1st 750		0.01930	0.01930	0.02536	0.04466	0.04466				
Over 750		0.01930	0.01930	0.02536	0.04466	0.04466				
Large General Service										
Rate 30 Primary Service	100.00	0.01751	0.01751	0.02454	0.04205	0.04205	14.00	11.00	14.00	11.00
Rate 30 Secondary Service	56.00	0.02751	0.02751	0.02536	0.05287	0.05287	12.50	9.50	12.50	9.50
TOD Rate 31										
Primary Service	97.00									
Off Peak		0.01679	0.01679	0.02454	0.04133	0.04133	0.00	0.00	0.00	0.00
On Peak		0.01929	0.01929	0.02454	0.04383	0.04383	15.25	12.25	15.25	12.25
Secondary Service	72.00									
Off Peak		0.02679	0.02679	0.02536	0.05215	0.05215	0.00	0.00	0.00	0.00
On Peak		0.02929	0.02929	0.02536	0.05465	0.05465	14.75	10.75	14.75	10.75
Space Heating Rate 32										
Primary Service	21.00	0.01751	0.01751	0.02454	0.04205	0.04205	14.00	1.00	14.00	1.00
Secondary Service	21.00	0.02751	0.02751	0.02536	0.05287	0.05287	12.50	1.00	12.50	1.00
Demand Resp Rate 38	Contract	0.01574	0.01574	0.02454	0.04028	0.04028	11.00	8.00	11.00	8.00
Municipal Lighting - Rate 41										
Primary Service		0.05510	0.05510	0.02454	0.07964	0.07964				
Secondary Service		0.06010	0.06010	0.02536	0.08546	0.08546				
Municipal Pumping - Rate 48										
Primary Service	80.00	0.02163	0.02163	0.02454	0.04617	0.04617	9.00	6.00	9.00	6.00
Secondary Service	45.00	0.02263	0.02263	0.02536	0.04799	0.04799	9.00	6.00	9.00	6.00
Outdoor Lighting - Rate 52										
Primary Service		0.06819	0.06819	0.02454	0.09273	0.09273				
Secondary Service		0.07225	0.07225	0.02536	0.09761	0.09761				

MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - NORTH DAKOTA
Allocation of Revenues - Final Increase
Projected 2017

Projected 2017 Billing Determinants and Revenues

Customer Class	Customers	Kwh	KW	Base Rate	Energy	Demand	Fuel Rev	RICE	Total	Revenue Increase		Rider	Net Change	
								Adjustment		\$	%	Change	\$	%
Residential Service	80,003	770,939,000		\$10,220,839	\$41,677,379	\$0	\$19,551,014	(\$1,934,496)	\$69,514,736	\$4,630,309	6.7%	-\$515,969	4,114,340	5.2%
Small General Service	11,867	117,869,000	17,553	3,035,761	6,306,203	65,680	2,989,157	(273,283)	12,123,518	807,224	6.7%	115,664	922,908	6.9%
General Service	5,329	1,166,724,000	3,429,484	2,701,865	30,217,026	31,654,522	29,311,695	(1,992,733)	91,892,375	2,806,250	3.1%	-544,189	2,262,061	2.2%
Municipal Lighting	561	19,646,000			1,031,383		501,885	0	1,533,268	44,668	2.9%	-34,419	10,249	0.6%
Municipal Pumping	323	39,062,000	126,924	37,936	876,976	773,479	979,219	(78,692)	2,588,918	172,521	6.7%	16,058	188,579	6.2%
Outdoor Lighting Service	2,604	7,437,000			516,744		188,592	0	705,336	20,526	2.9%	-20,303	223	0.0%
Total North Dakota Electric	100,687	2,121,877,000	3,573,951	\$15,996,401	\$80,625,711	\$32,493,661	\$53,521,562	(\$4,279,204)	\$178,358,151	\$8,481,498	4.8%	(\$983,138)	\$7,498,360	3.7%

MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - NORTH DAKOTA

Allocation of Revenues
Projected 2017

Projected 2017 Billing Determinants and Revenues

Rate Class	Bill								
	Determinants	Kwh	KW	Base Rate	Energy	RICE	Demand	Fuel Rev	Total
Residential Service									
Rate 10	79,991	770,685,000		\$10,218,868	\$41,667,604	(\$1,933,860)		\$19,544,572	\$69,497,184
Rate 13	4	127,000		657	4,114	(318)		3,221	7,674
Rate 16	8	127,000		1,314	5,661	(318)		3,221	9,878
Total Residential	60,003	770,939,000		10,220,839	41,677,379	(1,934,496)		19,551,014	69,514,736
Small General Service									
Rate 20	11,272	111,247,327		2,880,033	6,096,565	(261,431)		2,821,232	11,536,399
Rate 26	240	1,278,673		70,080	59,337	(3,005)		32,427	158,839
Subtotal	11,512	112,526,000		2,950,113	6,155,902	(264,436)		2,853,659	11,695,238
Rate 25	46	1,267,000	8,085	10,914	24,757	(2,977)	16,573	32,131	81,398
Rate 40	309	4,076,000	9,468	74,734	125,544	(5,870)	49,107	103,367	346,882
Total Small General	11,867	117,889,000	17,552.7	3,035,761	6,306,203	(273,283)	65,680	2,989,157	12,123,518
Large General Service									
Rate 30 Primary	43	195,765,000	468,864.3	49,020	5,127,085	(290,896)	4,104,729	4,804,073	13,794,211
Rate 30 Secondary	4,587	755,983,226	2,281,943.8	2,477,440	20,403,987	(1,414,805)	24,456,948	19,171,735	65,095,305
Rate 31 Primary	1	2,081,000	7,835.7	1,164	38,745	(4,858)	39,920	51,068	124,039
Rate 31 Secondary	68	17,694,774	98,323.7	38,352	312,567	(59,721)	575,746	448,739	1,315,683
Rate 32 Secondary	623	55,941,000	273,550.0	112,140	1,789,552	(169,601)	556,823	1,418,664	3,707,378
Subtotal	5,322	1,027,465,000	3,128,518	2,678,116	27,669,936	(1,939,681)	29,733,966	25,894,279	84,036,616
Rate 30 Contract Rates	3	102,241,000	203,896	2,460	1,817,615		1,267,428	2,508,994	5,596,497
Rate 38	3	31,911,000	85,588	17,689	682,542	(53,052)	586,991	783,096	2,017,266
Rate 39	1	5,107,000	11,502.0	3,600	46,933		66,137	125,326	241,996
Total Large General	5,329	1,166,724,000	3,429,484	2,701,865	30,217,026	(1,992,733)	31,654,522	29,311,695	91,892,375
Municipal Lighting									
Rate 41 Primary	49	1,719,000			81,412			42,184	123,596
Rate 41 Secondary	512	18,127,000			949,971			459,701	1,409,672
Total Municipal Lighting	561	19,846,000			1,031,383	0		501,885	1,533,268
Municipal Pumping									
Rate 48 Primary	4	13,894,000	35,805.3	518	298,166	(22,199)	176,945	340,959	794,389
Rate 48 Secondary	319	25,168,000	91,118.4	37,418	578,810	(56,493)	596,534	638,260	1,794,529
Total Municipal Pumping	323	39,062,000	126,923.7	37,936	876,976	(78,692)	773,479	979,219	2,588,918
Outdoor Lighting Service									
Rate 52 Primary	2	13,000			850			319	1,169
Rate 52 Secondary	2,602	7,424,000			515,894			188,273	704,167
Total Outdoor Lighting	2,604	7,437,000			516,744	0		188,592	705,336
Total North Dakota Electric	100,687	2,121,877,000	3,573,960.7	\$15,996,401	\$80,626,711	(4,279,204)	\$32,493,681	\$63,521,562	\$178,358,151
Total Pro Forma Revenues			3,358,562		\$178,358,151				186,843,648
Requested Revenue Increase					8,485,497				210,244,118
% Increase					4.757561%				
Overall ROR					7.364%				
Inverse of Tax Rate					82.1985%				

MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - NORTH DAKOTA
Allocation of Revenues
Projected 2017

Rate Class	Embedded				Allocation of Revenues 1/		Rate Design Results	
	Rate Base (000)'s	Op Inc	ROR	COS	Increase	% Incr	\$	%
Residential Service								
Rate 10							\$4,628,140	6.7%
Rate 13							511	6.7%
Rate 16							658	6.7%
Total Residential	\$249,324,000	\$9,965,000	4.00%	85,675,000	\$13,487,463	19.4%	\$4,630,098	6.7%
Small General Service								
Rate 20							768,118	6.7%
Rate 26							10,580	6.7%
Subtotal	38,625,000	2,182,000	5.65%	13,138,000	1,064,888	9.1%	778,998	6.7%
Rate 25	489,000	(3,000)	-0.61%	148,000	62,718	77.1%	5,422	6.7%
Rate 40	1,302,000	40,000	3.07%	446,000	89,840	25.9%	23,104	6.7%
Total Small General	40,416,000	2,219,000	5.49%	13,732,000	1,217,447	10.0%	807,499	6.7%
Large General Service								
Rate 30 Primary	35,761,000	2,785,000	7.79%	13,945,000	(243,671)	-1.8%	402,156	1.1%
Rate 30 Secondary	172,424,000	14,969,000	8.68%	63,355,000	(3,652,333)	-5.6%	1,897,789	3.0%
Rate 31 Primary	399,000	15,000	3.76%	151,000	23,123	18.6%	8,262	14.2%
Rate 31 Secondary	3,972,000	241,000	6.07%	1,469,000	82,796	6.3%	87,632	18.6%
Rate 32 Secondary	10,322,000	645,000	6.25%	4,090,000	185,072	5.0%	185,389	5.0%
Subtotal	222,878,000	18,665,000	8.37%	83,010,000	(3,605,013)	-4.3%	2,581,208	3.1%
Rate 30 Contract Rates							162,890	2.9%
Rate 36	5,311,000	361,000	6.80%	2,136,000	48,397	2.4%	58,841	2.9%
Rate 39							7,055	2.9%
Total Large General	228,189,000	19,016,000	8.33%	85,146,000	(3,546,616)	-3.9%	2,810,234	3.1%
Municipal Lighting								
Rate 41 Primary	293,000	31,000	13.30%	102,000	(22,254)	-18.0%		
Rate 41 Secondary	4,610,000	545,000	11.82%	1,090,000	(330,425)	-23.4%		
Total Municipal Lighting	4,843,000	576,000	11.89%	1,192,000	(352,679)	-23.0%	44,701	2.9%
Municipal Pumping								
Rate 48 Primary	2,632,000	61,000	2.15%	1,063,000	237,222	29.9%		
Rate 48 Secondary	5,983,000	262,000	4.38%	2,157,000	287,126	16.0%		
Total Municipal Pumping	8,615,000	323,000	3.66%	3,220,000	631,082	24.4%	172,437	6.7%
Outdoor Lighting Service								
Rate 52 Primary	1,851,000	218,000	11.78%	575,000	(131,341)	-18.6%	20,563	2.9%
Rate 52 Secondary								
Total Outdoor Lighting	1,851,000	218,000	11.78%	575,000	(131,341)	-18.6%	20,563	2.9%
Total North Dakota Electric	\$533,438,000	\$32,317,000	6.06%	\$189,540,000	\$11,305,356	6.3%	\$8,481,498	4.8%

1/ Allocation of revenues as follows:

No decreases
No > 1.4 Avg
Remainder equally

2,584,200 Remaining Revenues
88,983,879 Associated Current Revenues
2,915,400 Rates 30 Primary, Secondary & Contract, 38, 39, 41 Primary & Secondary, 52 Primary & Secondary

MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - NORTH DAKOTA

Allocation of Revenues
Projected 2017

Rate Class	Renewable Rider		Transmission Rider		RICE Rider		Total Change	
	Proposed Design Revenue	Current Revenue Requirement	Proposed Design Revenue	Current Revenue Requirement	Proposed Design Revenue	Current Revenue Requirement	Revenue Change	Revenues
Residential Service								
Rate 10								
Rate 13								
Rate 16								
Total Residential	\$5,319,479	\$5,488,085	\$2,320,526	\$2,536,390	\$1,803,997	\$1,934,496	-\$130,499	\$4,114,340
Small General Service								
Rate 20								
Rate 26								
Rate 25								
Rate 40								
Total Small General	\$13,612,097	\$13,612,097	\$5,508,169	\$5,508,169	\$4,279,204	\$4,279,204		
Large General Service								
Rate 30 Primary								
Rate 30 Secondary								
Rate 31 Primary								
Rate 31 Secondary								
Rate 32 Secondary								
Subtotal								
Rate 30 Contract Rates								
Rate 38								
Rate 39								
Total Large General	\$13,612,097	\$13,612,097	\$5,508,169	\$5,508,169	\$4,279,204	\$4,279,204		
Municipal Lighting								
Rate 41 Primary								
Rate 41 Secondary								
Total Municipal Lighting								
Municipal Pumping								
Rate 48 Primary								
Rate 48 Secondary								
Total Municipal Pumping								
Outdoor Lighting Service								
Rate 52 Primary								
Rate 52 Secondary								
Total Outdoor Lighting								
Total North Dakota Electric	\$13,612,097	\$13,612,097	\$5,508,169	\$5,508,169	\$4,279,204	\$4,279,204	\$3,444	\$7,458,360
								3.70%

MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - NORTH DAKOTA

Allocation of Revenues
Projected 2017

Rate Class	Bill			Renewable Rider			Transmission Rider			Generation		
	Determinants	Kwh	KW	Allocated Revenues	Rate/ Kwh	Design Revenue	Allocated Revenues	Rate/ Kwh	Design Revenue	Allocated Revenues	Rate/ Kwh 1/	Design Revenue
				\$13,612,097			\$5,509,169			\$4,279,204		
Residential Service												
Rate 10	79,991	770,685,000										
Rate 13	4	127,000										
Rate 16	8	127,000										
Total Residential	80,003	770,939,000		\$5,320,096	\$0.00690	\$5,319,479	\$2,322,126	\$0.00301	\$2,320,526	\$1,803,693	\$0.00234	\$1,803,997
Small General Service												
Rate 20	11,272	111,247,327	0									
Rate 26	240	1,278,673	0									
Subtotal	11,512	112,526,000	0	776,239	0.00690	776,429	338,370	0.00301	338,703	262,826	0.00234	263,311
Rate 25	46	1,267,000	8,085	7,581	0.00690	8,742	1,463	0.00301	3,814	1,137	0.00234	2,965
Rate 40	309	4,076,000	9,488	27,651	0.00690	28,124	11,313	0.00301	12,269	8,787	0.00234	9,538
Total Small General	11,867	117,869,000	17,553	811,471		813,295	361,146		354,788	272,750		275,814
Large General Service												
Rate 30 Primary	43	195,765,000	468,884	1,265,883	0.00666	1,303,795	438,951	0.00255	499,201	340,952	0.68238	319,944
Rate 30 Secondary	4,587	755,983,226	2,281,944	5,103,447	0.00666	5,034,848	2,047,514	0.00255	1,927,757	1,590,391	0.68238	1,557,153
Rate 31 Primary	1	2,081,000	7,836	13,454	0.00666	13,859	4,666	0.00255	5,307	3,624	0.68238	5,347
Rate 31 Secondary	68	17,694,774	96,324	119,453	0.00666	117,847	47,925	0.00255	45,122	37,225	0.68238	65,729
Rate 32 Secondary	623	55,941,000	273,550	356,745	0.00666	372,567	109,222	0.00255	142,650	84,837	0.31013	84,836
Subtotal	5,322	1,027,465,000	3,128,518	6,858,782		6,842,916	2,648,278		2,620,037	2,057,029		2,033,009
Rate 30 Contract Rates	3	102,241,000	203,896									
Rate 38	3	31,911,000	85,668	201,658	0.00666	212,527	62,420	0.00255	81,373	48,484	0.68238	58,390
Rate 39	1	5,107,000	11,502									
Total Large General	5,329	1,166,724,000	3,429,484	7,060,440	0.00666	7,055,443	2,710,698	0.00255	2,701,410	2,105,513	0.68238	2,091,399
Municipal Lighting												
Rate 41 Primary	49	1,719,000	0	10,107		10,297	1,816		2,011	1,411		1,564
Rate 41 Secondary	512	18,127,000	0	107,078		108,581	18,150		21,209	14,098		16,496
Total Municipal Lighting	561	19,846,000	0	117,185	0.00599	118,878	19,966	0.00117	23,220	15,509	0.00091	18,060
Municipal Pumping												
Rate 48 Primary	4	13,894,000	35,805	90,622		92,534	32,759		35,430	25,445		24,433
Rate 48 Secondary	319	25,168,000	91,118	166,153		167,619	60,576		64,178	47,052		62,177
Total Municipal Pumping	323	39,062,000	126,924	256,775	0.00666	260,153	93,335	0.00255	99,608	72,497	0.68238	86,610
Outdoor Lighting Service												
Rate 52 Primary	2	13,000	0			78			15			12
Rate 52 Secondary	2,602	7,424,000	0			44,470			8,686			6,756
Total Outdoor Lighting	2,604	7,437,000	0	46,130	0.00599	44,548	11,898	0.00117	8,701	9,241	0.00091	6,768
Total North Dakota Electric	100,687	2,121,877,000	3,573,961	\$13,612,097		\$13,611,796	\$5,509,169		\$5,508,251	\$4,279,203		\$4,282,648

1/ Large Gen & Rate 48 per KW
2/ To be recovered thru FPPA

Rider	2016		Variance (Over) / Under	Residential	
	Settlement 1/ Revenue Requirement	Actual Revenue Collected		Current	Total
Transmission	\$9,306,055	\$5,190,921	\$4,115,134	\$0.00301	\$0.00413
Renewable	11,355,200	12,302,727	(947,527)	\$0.00690	0.00642
Generation	9,139,549	7,304,950	1,834,599	\$0.00234	0.00284
Environmental	9,885,223	6,824,952	3,060,271	0	0.00072 To be recovered through FPPA
Total	\$39,586,027	\$31,623,550	\$8,062,477		

Rate Class	Amortizations							
	Renewable		Transmission		Generation		Environmental	
	Annual Revenue	Rate/Kwh	Annual Revenue	Rate/Kwh	Annual Revenue	Rate/Kwh 1/	Annual Revenue	Rate/Kwh
Residential Service								
Rate 10								
Rate 13								
Rate 16								
Total Residential	(\$370,328)	(\$0.00048)	\$867,269	\$0.00112	\$386,644	\$0.00050		\$0.00072
Small General Service								
Rate 20								
Rate 26								
Subtotal	(54,033)	(0.00048)	126,375	0.00112	56,340	0.00050		0.00072
Rate 25	(528)	(0.00048)	547	0.00112	244	0.00050		0.00072
Rate 40	(1,925)	(0.00048)	4,225	0.00112	1,884	0.00050		0.00072
Total Small General	(56,486)		131,147		58,468			
Large General Service								
Rate 30 Primary	(88,103)	(0.00046)	163,940	0.00095	73,087	0.13974		0.00072
Rate 30 Secondary	(355,247)	(0.00046)	764,707	0.00095	340,920	0.13974		0.00072
Rate 31 Primary	(937)	(0.00046)	1,743	0.00095	777	0.13974		0.00072
Rate 31 Secondary	(8,315)	(0.00046)	17,899	0.00095	7,980	0.13974		0.00072
Rate 32 Secondary	(24,833)	(0.00046)	40,792	0.00095	18,186	0.13974		0.00072
Subtotal	(477,435)		989,081		440,950			
Rate 30 Contract Rates								
Rate 38	(14,037)	(0.00046)	23,313	0.00095	10,393	0.13974		0.00072
Rate 39								
Total Large General	(491,472)	(0.00046)	1,012,394	0.00095	451,343	0.13974		0.00072
Municipal Lighting								
Rate 41 Primary	(704)		678		302			
Rate 41 Secondary	(7,454)		6,779		3,022			
Total Municipal Lighting	(8,158)	(0.00042)	7,457	0.00044	3,324	0.00019		0.00072
Municipal Pumping								
Rate 48 Primary	(6,308)		12,235		5,454			
Rate 48 Secondary	(11,566)		22,624		10,086			
Total Municipal Pumping	(17,874)	(0.00046)	34,859	0.00095	15,540	0.13974		0.00072
Outdoor Lighting Service								
Rate 52 Primary	0		0					
Rate 52 Secondary	0		0					
Total Outdoor Lighting	(3,211)	(0.00042)	4,444	0.00044	1,981	0.00019		0.00072
Total North Dakota Electric	-\$947,529		\$2,057,570		\$917,300			\$1,450,461

1/ Large Gen & Rate 48 per KW
2/ To be recovered thru FPPA

Rate Class	Total Rider Charges				Energy/Demand Factor 3	12 CP Factor 2
	Renewable	Transmission	Environ 2/	Generation		
Residential Service						
Rate 10						
Rate 13						
Rate 16						
Total Residential	\$0.00642	\$0.00413	\$0.00072	\$0.00284	39.083588%	42.150203%
Small General Service						
Rate 20						
Rate 26						
Subtotal	0.00642	0.00413	0.00072	0.00284	5.702570%	6.141944%
Rate 25	0.00642	0.00413	0.00072	0.00284	0.055690%	0.026563%
Rate 40	0.00642	0.00413	0.00072	0.00284	0.203136%	0.205342%
Total Small General						
Large General Service						
Rate 30 Primary	0.00620	0.00350	0.00072	0.82212 1/	9.298220%	7.967649%
Rate 30 Secondary	0.00620	0.00350	0.00072	0.82212 1/	37.491999%	37.165573%
Rate 31 Primary	0.00620	0.00350	0.00072	0.82212 1/	0.096641%	0.064697%
Rate 31 Secondary	0.00620	0.00350	0.00072	0.82212 1/	0.877549%	0.869909%
Rate 32 Secondary	0.00620	0.00350	0.00072	0.44987 1/	2.620796%	1.982544%
Subtotal						
Rate 30 Contract Rates						
Rate 38	0.00620	0.00350	0.00072	0.82212 1/	1.481459%	1.133022%
Rate 39						
Total Large General	0.00620	0.00350	0.00072	0.82212 1/		
Municipal Lighting						
Rate 41 Primary					0.074248%	0.032970%
Rate 41 Secondary					0.786642%	0.329444%
Total Municipal Lighting	0.00557	0.00161	0.00072	0.00110		
Municipal Pumping						
Rate 48 Primary					0.665748%	0.594622%
Rate 48 Secondary					1.220624%	1.099556%
Total Municipal Pumping	0.00620	0.00350	0.00072	0.82212 1/		
Outdoor Lighting Service						
Rate 52 Primary						
Rate 52 Secondary						
Total Outdoor Lighting	0.00557	0.00161	0.00072	0.00110	0.338893%	0.215963%
Total North Dakota Electric					100.000001%	100.000000%

1/ Large Gen & Rate 48 per KW
2/ To be recovered thru FPPA

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

**Summary of Projected Revenues and Billing Determinants
Twelve Months Ended December 31, 2015**

Rate Reporting Class	2017			
	Total Riders Revenue 1/	Revenue Per Kwh	RICE Adjustment	Revenue Per KW
Residential Service				
Rate 10	\$4,971,478	\$6,905,338	(\$1,933,860)	
Rate 13	820	1,138	(318)	
Rate 16	820	1,138	(318)	
Total Residential	4,973,118	6,907,614	(1,934,496)	0
Small General Service				
Rate 20	\$567,361	\$828,792	(\$261,431)	
Rate 25	6,462	9,439	(2,977)	
Rate 26	6,522	9,527	(3,005)	
Rate 40	24,496	30,366	(5,870)	
Total Small General	604,841	878,124	(273,283)	0
General Service				
Rate 30 Secondary	\$4,313,020	\$2,441,826	(\$1,414,805)	\$3,285,999
Rate 30 Primary	1,016,790	632,321	(290,696)	675,165
Rate 30 Contract Rates				
Rates 302 & 303 Tesoro				
Rate 304 Sabin				
Rate 31 Primary	7,558	6,722	(4,858)	5,694
Rate 31 Secondary	64,315	57,154	(59,721)	66,882
Rate 32 Secondary	74,251	180,689	(169,601)	63,163
Rate 32 Primary	0			
Rate 38				
Rate 380	104,665	57,207	(29,445)	76,903
Rate 381 Capitol	68,574	45,866	(23,607)	46,315
Rate 39			0	
Total General	5,649,173	3,421,785	(1,992,733)	4,220,121
Municipal Lighting Service				
Rate 41 Secondary	\$41,957	\$41,957	\$0	
Rate 41 Primary	3,937	3,937	0	
Total Municipal Lighting	45,894	45,894	0	0
Municipal Pumping Service				
Rate 48 Secondary	139,466	75,173	(56,493)	120,786
Rate 48 Primary	64,637	40,432	(22,199)	46,404
Total Municipal Pumping	204,103	115,605	(78,692)	167,190
Outdoor Lighting Service				
Rate 52 Secondary	\$18,931	\$18,931	\$0	
Rate 52 Primary	33	33	0	
Total Outdoor Lighting	18,964	18,964	0	0
Total North Dakota	\$11,496,093	\$11,387,986	(\$4,279,204)	\$4,387,311

1/ Excludes Renewable and Transmission riders.

MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - NORTH DAKOTA

Derivation of Rate and Reconciliation
Residential Electric Service Rate 10
Projected 2017

Residential Service	Billing Determinants	Projected @ Current Rates		Proposed Rates	
		Rate	Revenue	Rate	Revenue
Base Rate - Rate 10	79,991	\$0.35 per day	\$10,218,850	\$0.46 per day	\$13,430,489
Rate 95	1	0.05 per day	18	0.05 per month	18
Energy					
Summer	246,394,175	\$0.05304 per Kwh	13,068,747	\$0.06133 per Kwh	15,111,355
Winter					
First 750	320,461,951	\$0.05304 per Kwh	16,997,302	0.06133 per Kwh	19,653,931
Over 750	203,828,874	0.02304 per Kwh	4,696,217	0.03133 per Kwh	6,385,959
Subtotal	524,290,825		21,693,519		26,039,890
Riders (Generation & Environmental)			4,971,478		
Total Energy	770,685,000		39,733,744		41,151,245
Base Fuel	770,685,000	\$0.02536 per Kwh	19,544,572	\$0.02536 per Kwh	19,544,572
Total Rate 10			<u>\$69,497,184</u>		<u>\$74,126,324</u>
Total Revenues Per Design					\$74,126,324
Target Revenues					<u>74,126,113</u>
Difference					<u>\$211</u>

Derivation of Rate:

Projected Revenues Before Increase				<u>Projected</u>
Proposed Revenue Increase				\$69,497,184
Total Revenue Requirement				<u>4,628,929</u>
				\$74,126,113
Less:				
Proposed Base Rate Revenues				13,430,507
Projected Base Fuel				19,544,572
Winter Rate >750 differential	(\$0.03000)	203,828,874	Kwh	<u>(6,114,866)</u>
Subtotal				26,860,213
Net to be Collected Through Energy				\$47,265,900
Total Kwh				770,685,000
Summer Rate per Kwh				\$0.06133
Winter Rate Per Kwh - 1st 750 Kwh				\$0.06133
Winter Rate - Over 750 Kwh				\$0.03133

MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - NORTH DAKOTA

Derivation of Rate and Reconciliation
Residential Electric Service Rate 13
Projected 2017

Residential Service	Billing Determinants	Projected @ Current Rates		Proposed Rates	
		Rate	Revenue	Rate	Revenue
Base Rate - Rate 13	4	\$0.45 per day	\$657	\$0.75 per day	\$1,095
Energy					
Summer	20,490	\$0.05304 per Kwh	1,087	\$0.06577 per Kwh	1,348
Winter					
On-Peak First 750	18,154	\$0.05304 per Kwh	963	0.06577 per Kwh	1,194
On-Peak Over 750	14,346	0.02304 per Kwh	331	0.03577 per Kwh	513
Off Peak	74,010	0.00804 per Kwh	595	0.01100 per Kwh	814
Subtotal	106,510		1,889		2,521
Riders (Generation & Environmental)			820		
Total Energy	127,000		3,796		3,869
Base Fuel	127,000	\$0.02536 per Kwh	3,221	\$0.02536 per Kwh	3,221
Total Rate 13			<u>\$7,674</u>		<u>\$8,185</u>
Total Revenues Per Design					\$8,185
Target Revenues					<u>8,185</u>
Difference					<u>\$0</u>

Derivation of Rate:

	Projected
Projected Revenues Before Increase	\$7,674
Proposed Revenue Increase	511
Total Revenue Requirement	<u>\$8,185</u>
Less:	
Proposed Base Rate Revenues	1,095
Projected Base Fuel	3,221
Winter Off-Peak	814
Winter >750 differential (\$0.03000) 14,346 kwh	(430)
Subtotal	<u>4,700</u>
Net to be Collected Through Energy	\$3,485
Total Kwh (excluding Winter Off-Peak)	52,990
Summer rate	\$0.06577
Winter On-Peak First 750	\$0.06577
Winter On-Peak > 750	\$0.03577
Winter Off-Peak Rate	\$0.01100

MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - NORTH DAKOTA

Derivation of Rate and Reconciliation
Residential Electric TOD Service Rate 16
Projected 2017

Residential Service	Billing Determinants	Projected @ Current Rates		Proposed Rates	
		Rate	Revenue	Rate	Revenue
Base Rate	8	\$0.45 per day	\$1,314	\$0.75 per day	\$2,190
Energy					
Summer					
On-Peak Kwh	5,951	\$0.10398 per Kwh	619	\$0.07610 per Kwh	453
Off Peak Kwh	16,702	0.02304 per Kwh	385	0.04610 per Kwh	770
Subtotal	22,653		1,004		1,223
Winter					
On-Peak Kwh	21,891	\$0.07398 per Kwh	1,619	\$0.06110 per Kwh	1,338
Off Peak Kwh	82,456	0.02304 per Kwh	1,900	0.03110 per Kwh	2,564
Subtotal	104,347		3,519		3,902
Riders (Generation & Environmental)			820		
Total Energy	127,000		5,343		5,125
Base Fuel	127,000	\$0.02536 per Kwh	3,221	\$0.02536 per Kwh	3,221
Total Rate 16 Revenues			<u>\$9,878</u>		<u>\$10,536</u>
Total Revenues Per Design					\$10,536
Target Revenues					<u>10,536</u>
Difference					<u>\$0</u>

Derivation of Rate:

	Projected
Projected Revenues Before Increase	\$9,878
Proposed Revenue Increase	658
Total Revenue Requirement	<u>\$10,536</u>
Less:	
Proposed Base Rate Revenues	2,190
Projected Base Fuel	3,221
Winter Differential (\$0.01500) 104,347 Kwh	(1,665)
On-Peak Differential \$0.03000 27,842 Kwh	835
	<u>4,681</u>
Net to be Collected Through Energy	\$5,855
Total On-Peak Kwh	127,000
Summer Off-Peak Rate	\$0.04610
Summer On-Peak Rate	\$0.07610
Winter Off-Peak Rate	\$0.03110
Winter On-Peak Rate	\$0.06110

MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - NORTH DAKOTA

Derivation of Rate and Reconciliation
Small General Electric Service Rate 20
Projected 2017

Small General Service	Billing Determinants	Projected @ Current Rates		Proposed Rates	
		Rate	Revenue	Rate	Revenue
Base Rate	11,272	\$0.70 per day	\$2,879,996	\$0.84 per day	\$3,455,995
Non-Metered Charges	2	0.05 per day	37	0.05 per day	37
Energy					
Summer	32,506,967	\$0.06147 per Kwh	1,998,203	\$0.06520 per Kwh	2,119,454
Winter					
First 750 Kwh	37,871,251	\$0.06147 per Kwh	2,327,946	0.06520 per Kwh	2,469,206
Over 750 Kwh	40,869,109	0.02304 per Kwh	941,624	0.03520 per Kwh	1,438,593
Subtotal	78,740,360		3,269,570		3,907,799
Riders (Generation & Environmental)			567,361		
Total Energy	111,247,327		5,835,134		
Base Fuel	111,247,327	\$0.02536 per Kwh	2,821,232	\$0.02536 per Kwh	2,821,232
Total Rate 20 Revenues			<u>\$11,536,399</u>		<u>\$12,304,517</u>
Total Revenues Per Design					\$12,304,517
Target Revenues					<u>12,304,792</u>
Difference					<u>(\$275)</u>

Derivation of Rate:

	Projected
Projected Revenues Before Increase	\$11,536,399
Proposed Revenue Increase	768,393
Total Revenue Requirement	\$12,304,792
Less:	
Proposed Base Rate Revenues	3,456,032
Projected Base Fuel	2,821,232
Winter Rate > 750 - differential (\$0.03000) 40,869,109 Kwh	(1,226,073)
Subtotal	5,051,191
Net to be Collected Through Energy	\$7,253,601
Total Kwh	111,247,327
Summer Rate per Kwh	\$0.06520
Winter Rate Per Kwh - 1st 750 Kwh	\$0.06520
Winter Rate - Over 750 Kwh	\$0.03520

MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - NORTH DAKOTA

Derivation of Rate and Reconciliation
Irrigation Power Service Rate 25
Projected 2017

Irrigation Power Service	Billing Determinants	Projected @ Current Rates		Proposed Rates	
		Rate	Revenue	Rate	Revenue
Base Rate	46	\$0.65 per day	\$10,914	\$1.50 per day	\$25,185
Energy	1,267,000	\$0.01209 per Kwh	15,318	\$0.00255 per Kwh	3,231
Riders (Generation & Environmental)			<u>6,462</u>		
Total Energy			21,780		
Demand					
Summer	4,311.1	\$2.75 per KW	11,856	\$5.00 per KW	21,556
Winter	3,773.5	1.25 per KW	<u>4,717</u>	1.25 per KW	<u>4,717</u>
Total Demand			16,573		26,273
Base Fuel	1,267,000	\$0.02536 per Kwh	\$32,131	\$0.02536 per Kwh	\$32,131
Total Revenue			<u>\$81,398</u>		<u>\$86,820</u>
Total Revenues Per Design					\$86,820
Target Revenues					<u>86,820</u>
Difference					<u>\$0</u>

Derivation of Rate:

Projected Revenues Before Increase	\$81,398
Proposed Revenue Increase	<u>5,422</u>
Total Revenue Requirement	\$86,820
Less:	
Proposed Base Rate Revenues	25,185
Proposed Demand Charge Revenues	26,273
Projected Base Fuel	<u>32,131</u>
Subtotal	83,589
Net to be Collected Through Energy	3,231
Total Kwh Sales	1,267,000
Proposed Energy Charge	\$0.00255

MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - NORTH DAKOTA

Derivation of Rate and Reconciliation
Small General Optional Time-of-Day Electric Service Rate 26
Projected 2017

Small General Optional TOD Service	Billing Determinants	Projected @ Current Rates		Proposed Rates	
		Rate	Revenue	Rate	Revenue
Base Rate	240	\$0.80 per day	\$70,080	\$1.00 per day	\$87,600
Energy					
Summer					
On-Peak Kwh	122,753	\$0.11385 per Kwh	13,975	\$0.06693 per Kwh	8,216
Off Peak Kwh	367,918	0.02304 per Kwh	8,477	\$0.04193 per Kwh	15,427
Subtotal	490,671		22,452		23,643
Winter					
On-Peak Kwh	181,123	\$0.07385 per Kwh	13,376	\$0.05193 per Kwh	9,406
Off Peak Kwh	606,879	0.02304 per Kwh	13,982	\$0.02693 per Kwh	16,343
Subtotal	788,002		27,358		25,749
Riders (Generation & Environmental)			6,522		
Total Energy	1,278,673		56,332		49,392
Base Fuel	1,278,673	0.02536 per Kwh	32,427	0.02536 per Kwh	32,427
Total Rate 26 Revenues			<u>\$158,839</u>		<u>\$169,419</u>
Total Revenues Per Design					\$169,419
Target Revenues					169,419
Difference					<u>\$0</u>

Derivation of Rate:

Projected Revenues Before Increase		\$158,839
Proposed Revenue Increase		10,580
Total Revenue Requirement		<u>\$169,419</u>
Proposed Base Rate Revenues		87,600
Projected Base Fuel		32,427
Winter Differential	(\$0.01500) 788,002 Kwh	(11,820)
On-Peak Differential	\$0.02500 303,876 Kwh	7,597
		<u>115,804</u>
Net to be Collected Through Energy		\$53,615
Total On-Peak Kwh		1,278,673
Summer Off-Peak Rate		\$0.04193
Summer On-Peak Rate		\$0.06693
Winter Off-Peak Rate		\$0.02693
Winter On-Peak Rate		\$0.05193

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

**Derivation of Rate and Reconciliation
Large General Electric Service (Rate 30) & TOD Service (Rate 31)
Projected 2017**

Large General Service (Rate 30) TOD Service (Rate 31)	Billing Determinants	Projected @ Current Rates		Proposed Rates			
		Rate	Revenue	Rate	Revenue		
Base Rate							
Primary Service Rate 30	43	\$95.00 per month	\$49,020	\$100.00 per month	\$51,600		
Secondary Service Rate 30	4,587	45.00 per month	2,476,980	56.00 per month	3,082,464		
Excess Facilities Charges	1		460		460		
Primary Service Rate 31	1	97.00 per month	1,164	97.00 per month	1,164		
Secondary Service Rate 31	68	47.00 per month	38,352	72.00 per month	58,752		
Total Base Rate	4,699		2,565,976		3,194,440		
Energy							
Primary Service Rate 30						<u>Rate 30 Primary Energy</u>	
Off-Peak	139,012,726	\$0.02296 per Kwh	\$3,191,732	\$0.01679 per Kwh	2,334,024		
On-Peak	56,752,274	0.02296 per Kwh	1,303,032	\$0.01929 per Kwh	1,094,751	3,428,775	\$0.01751
Primary Service Rate 31							
Off-Peak	1,513,455	\$0.00793 per Kwh	12,002	\$0.01679 per Kwh	25,411		
On-Peak	567,545	0.03175 per Kwh 1/	18,021	\$0.01929 per Kwh	10,948		
Total Primary	197,846,000		4,524,787		3,465,134		
Primary Riders Rate 30			341,625				
Primary Riders Rate 31			1,864				
Primary Subtotal	197,846,000		4,868,276		3,465,134		
Secondary Service Rate 30							
Off-Peak	536,823,689	\$0.02376 per Kwh	12,754,931	\$0.02679 per Kwh	14,381,507	<u>Rate 30 Secondary Energy</u>	
On-Peak	219,159,537	0.02376 per Kwh	5,207,231	\$0.02929 per Kwh	6,419,183	20,800,690	\$0.02751
Secondary Service Rate 31							
Off-Peak	12,820,114	\$0.00793 per Kwh	101,664	\$0.02679 per Kwh	343,451		
On-Peak	4,874,660	0.03154 per Kwh 1/	153,749	\$0.02929 per Kwh	142,779		
Total Secondary	773,678,000		18,217,575		21,286,920		
Secondary Riders Rate 30	17,694,774	0.275	1,027,021				
Secondary Riders Rate 31			(2,567)				
Secondary Subtotal	773,678,000		19,242,029		21,286,920		
Total Energy	971,524,000		24,110,305		24,752,054		

MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - NORTH DAKOTA

Derivation of Rate and Reconciliation
Large General Electric Service (Rate 30) & TOD Service (Rate 31)
Projected 2017

Demand						
Summer Primary Service Rate 30						
Off-Peak (In excess of on-peak)	0.0			\$0.00 per Kw	0	
On-Peak	<u>166,387.5</u>			14.00 per Kw	<u>2,329,425</u>	4.75
	166,387.5	\$9.25 per KW	<u>1,539,084</u>		<u>2,329,425</u>	
Summer Primary Service Rate 31						
Off-Peak (In excess of on-peak)	0.0	\$0.00 per KW	0	\$0.00 per Kw	0	
On-Peak	<u>1,523.8</u>	10.50 per KW	<u>16,000</u>	15.25 per Kw	<u>23,238</u>	
	1,523.8		16,000		23,238	
Winter Primary Service Rate 30						
Off-Peak (In excess of on-peak)	0.0			\$0.00 per Kw	0	
On-Peak	<u>302,476.8</u>			11.00 per Kw	<u>3,327,245</u>	4.75
	302,476.8	\$6.25 per KW	<u>1,890,480</u>		<u>3,327,245</u>	
Winter Primary Service Rate 31						
Off-Peak (In excess of on-peak)	0.0	\$0.00 per KW	0	\$0.00 per Kw	0	
On-Peak	<u>2,430.1</u>	7.50 per KW	<u>18,226</u>	12.25 per Kw	<u>29,769</u>	
	2,430.1		18,226		29,769	
Riders (Generation & Environmental) Rate 30			675,165			
Riders (Generation & Environmental) Rate 31			5,694			
Primary Subtotal	472,818.2		4,144,649		5,709,677	
Summer Secondary Service Rate 30						
Off-Peak (In excess of on-peak)	0.0			\$0.00 per Kw	0	
On-Peak	<u>781,637.3</u>			12.50 per Kw	<u>9,770,466</u>	
	781,637.3	\$11.25 per KW	<u>8,793,420</u>		<u>9,770,466</u>	
Summer Secondary Service Rate 31						
Off-Peak (In excess of on-peak)	855.8	\$0.00 per KW	0	\$0.00 per Kw	0	
On-Peak	<u>16,906.9</u>	13.50 per KW	<u>228,243</u>	14.75 per Kw	<u>249,377</u>	
	17,762.7		228,243		249,377	
Winter Secondary Service Rate 30						
Off-Peak (In excess of on-peak)	0.0			\$0.00 per Kw	0	
On-Peak	<u>1,500,306.5</u>			9.50 per Kw	<u>14,252,912</u>	
	1,500,306.5	\$8.25 per KW	<u>12,377,529</u>		<u>14,252,912</u>	
Winter Secondary Service Rate 31						
Off-Peak (In excess of on-peak)	2,576.1	\$0.00 per KW	0	\$0.00 per Kw	0	
On-Peak	<u>29,539.0</u>	9.50 per KW	<u>280,621</u>	10.75 per Kw	<u>317,544</u>	
	32,115.1		280,621		317,544	
Riders (Generation & Environmental) Rate 30			3,285,999			
Riders (Generation & Environmental) Rate 31			66,882			
Secondary Subtotal	2,331,821.6		25,032,693		24,590,299	
Total Demand	2,804,639.8		29,177,343		30,299,976	

MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - NORTH DAKOTA

Derivation of Rate and Reconciliation
Large General Electric Service (Rate 30) & TOD Service (Rate 31)
Projected 2017

Base Fuel						
Primary Rate 30	195,765,000	\$0.02454	per Kwh	4,804,073	0.02454	per Kwh 4,804,073
Primary Rate 31	2,081,000	\$0.02454	per Kwh	51,068	0.02454	per Kwh 51,068
Secondary Rate 30	755,983,226	\$0.02536	per Kwh	19,171,735	0.02536	per Kwh 19,171,735
Secondary Rate 31	17,694,774	\$0.02536	per Kwh	448,739	0.02536	per Kwh 448,739

Total Rate 31 Revenue				<u>\$80,329,239</u>		<u>\$82,722,085</u>
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Total Revenues Per Design						
Primary- Rate 30					\$13,941,118	1.06%
Secondary - Rate 30					67,078,267	3.05%
Primary- Rate 31					141,598	14.16%
Secondary - Rate 31					<u>1,560,642</u>	18.62%
Total Design Revenues					<u>82,721,625</u>	
Target Revenues					<u>82,725,077</u>	
Difference					<u>(\$3,452)</u>	

Derivation of Rate:

Projected Revenues Before Increase				\$80,329,238
Proposed Revenue Increase				2,395,839
Total Revenue Requirement				<u>\$82,725,077</u>
Less:				
Proposed Base Rate Revenues				3,194,440
Proposed Demand Revenues				30,299,976
Secondary Energy Differential	\$0.01000	773,678,000	Kwh	7,736,780
On-Peak Energy Differential	0.00250	281,354,016	Kwh	703,385
				0
Projected Base Fuel				<u>24,475,615</u>
Subtotal				66,410,196
Net to be Collected Through Energy				\$16,314,881
Total Kwh Sales				971,524,000
Proposed Energy Charges:				
Primary Off-Peak				\$0.01679
Primary On-Peak				\$0.01929
Secondary Off-Peak				\$0.02679
Secondary On-Peak				\$0.02929

1/ Rate is an effective rate derived from the tariffed On-Peak summer and winter rates.

MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - NORTH DAKOTA

Derivation of Rate and Reconciliation
General Space Heating Electric Service Rate 32
Projected 2017

General Space Heating Service	Billing Determinants	Projected @ Current Rates		Proposed Rates	
		Rate	Revenue	Rate	Revenue
Base Rate					
Primary Service	0	\$15.00 per month	\$0	\$21.00 per month	\$0
Secondary Service	623	15.00 per month	112,140	21.00 per month	156,996
Total Base Rate	623		112,140		156,996
Energy					
Primary Service	0	\$0.02796 per Kwh	0	\$0.01751 per Kwh	0
Riders			0		0
Subtotal	0		0		0
Secondary Service	55,941,000	\$0.02876 per Kwh	1,608,863	\$0.02751 per Kwh	1,538,937
Riders			11,088		
Subtotal	55,941,000		1,619,951		1,538,937
Total Energy	55,941,000		1,619,951		1,538,937
Demand					
Primary Service - Summer	0 0	\$9.25 per Kw	0	\$14.00 per Kw	0
Primary Service - Winter	0 0	\$0.00 per Kw	0	\$1.00 per Kw	0
Riders			0		0
Subtotal	0 0		0		0
Secondary Service - Summer	43,863 1	\$11.25 per Kw	493,460	\$12.50 per Kw	548,289
Secondary Service - Winter	229,686 9	\$0.00 per Kw	0	\$1.00 per Kw	229,687
Riders (Generation & Environmental)			63,163		
Subtotal	273,550 0		556,623		777,976
Total Demand	273,550.0		556,623		777,976
Base Fuel					
Primary Service	0	\$0.02454 per Kwh	0	\$0.02454 per Kwh	0
Secondary Service	55,941,000	\$0.02536 per Kwh	1,418,664	0.02536 per Kwh	1,418,664
Total Base Fuel	55,941,000		1,418,664		1,418,664
Total Rate 32 Revenue			<u>\$3,707,378</u>	<u>\$3,892,573</u>	
			0.054	\$0.057	
Total Revenues Per Design					
Primary					\$0
Secondary					3,892,573
Total					<u>3,892,573</u>
Target Revenue					<u>3,892,747</u>
Difference					(\$174)

MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - NORTH DAKOTA

Derivation of Rate and Reconciliation
General Space Heating Electric Service Rate 32
Projected 2017

Derivation of Rate:

Projected Revenues Before Increase	\$3,707,378
Proposed Revenue Increase	185,369
Total Revenue Requirement	<u>\$3,892,747</u>
Less:	
Proposed Base Rate Revenues	
Primary Service	0
Secondary Service	156,996
Proposed Summer Demand Revenues	
Primary Service	0
Secondary Service	548,289
Secondary Energy	1,538,937
Primary Energy	0
Projected Base Fuel	1,418,664
Subtotal	<u>3,662,886</u>
Net to be Collected Through Winter Demand	\$229,861
Total Winter Demand	229,687
Proposed Demand Charges:	
Winter - Primary & Secondary	\$1.00
Round	

MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - NORTH DAKOTA

Derivation of Rate and Reconciliation
Interruptible Large Power Demand Response Rate 38
Projected 2017

Large Demand Response	Billing Determinants	Projected @ Current Rates		Proposed Rates	
		Rate	Revenue	Rate	Revenue
Base Rate					
Customer 1- Discounted		Per Contract	\$11,892	Per Contract	\$11,892
Customer 2		Per Contract	5,797	Per Contract	5,797
Total Base Rate			17,689		17,689
Energy					
Customer 1- Discounted	14,200,000	\$0.02126 per Kwh	301,892	\$0.01574 per Kwh	223,508
Riders- Discounted			22,259		
Customer 2	17,711,000	\$0.02126 per Kwh	376,536	\$0.01574 per Kwh	278,771
Riders (Generation & Environmental)			27,762		
Total Energy	31,911,000		728,449		502,279
Demand					
Summer					
Customer 1 - Discounted	11,377.2	\$9.25 per KW	105,239	\$14.00 per KW	159,281
Customer 2	18,351.4	\$6.25 per KW	114,696	11.00 per KW	201,865
Winter					
Customer 1 - Discounted	20,786.2	\$6.25 per KW	129,914	\$11.00 per KW	228,648
Customer 2	35,053.6	\$3.25 per KW	113,924	8.00 per KW	280,429
Riders- Discounted			46,315		
Riders (Generation & Environmental)			76,903		
Total Demand	85,568.4		586,991		870,223
Base Fuel					
Customer 1 - Discounted	14,200,000	\$0.02454 per Kwh	348,468	\$0.02454 per Kwh	348,468
Customer 2	17,711,000	\$0.02454 per Kwh	434,628	\$0.02454 per Kwh	434,628
Total Base Fuel	31,911,000		783,096		783,096
Less: 10% Discount Applicable to Customer 1			(96,598)		(97,180)
Total Rate 38 Revenue			<u>\$2,019,627</u>		<u>\$2,076,107</u>
Total Revenues Per Design					\$2,076,107
Target Revenues					<u>2,076,077</u>
Difference					<u>\$30</u>

Derivation of Rate:

Projected Revenues Before Increase	\$2,017,266
Proposed Revenue Increase	58,811
Total Revenue Requirement	<u>\$2,076,077</u>
Less:	
Proposed Base Rate Revenues	16,500
Proposed Demand Revenues	831,430
Projected Base Fuel	<u>748,249</u>
Subtotal	1,596,179
Net to be Collected Through Energy	\$479,898
Total Kwh Sales	30,491,000
Proposed Energy Charge:	\$0.01574

MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - NORTH DAKOTA

Derivation of Rate and Reconciliation
Interruptible Large Power Rate 39
Projected 2017

Large Interruptible	Billing Determinants	Projected @ Current Rates		Proposed Rates	
		Rate	Revenue	Rate	Revenue
Base Rate		Per Contract	\$3,600	Per Contract	\$3,600
Energy	5,107,000	\$0.00919 per Kwh	46,933	\$0.01017 per Kwh	51,938
Demand	11,502.0	\$5.750 per KW	66,137	\$5.918 per KW	68,069
Base Fuel	5,107,000	\$0.02454 per Kwh	125,326	\$0.02454 per Kwh	125,326
Total Rate 39 Revenue			<u>\$241,996</u>		<u>\$248,933</u>
Increase					<u>\$6,937</u>

Calculation of Energy Charge:

Energy	Rate 390
Current	\$0.03373
Proposed	\$0.03471
Net Increase to Contracts	2.92%

MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - NORTH DAKOTA

Derivation of Rate and Reconciliation
Municipal Service Rate 40
Projected 2017

Small Municipal Service	Billing Determinants	Projected @ Current Rates		Proposed Rates	
		Rate	Revenue	Rate	Revenue
Base Rate					
Non-Demand	270	\$0.65 per day	\$64,058	\$0.84 per day	\$82,737
Demand	39	0.75 per day	10,676	1.00 per day	14,235
Total Base Rate	309		74,734		96,972
Energy					
Non-Demand Service					
Summer	491,761	\$0.03868 per Kwh	19,021	\$0.03930 per Kwh	19,326
Winter					
First 750 Kwh	749,652	\$0.03868 per Kwh	28,997	0.03930 per Kwh	29,461
Over 750 Kwh	683,587	0.02802 per Kwh	19,154	0.02830 per Kwh	19,346
Subtotal	1,433,239		48,151		48,807
Demand Service	2,151,000	0.01302 per Kwh	28,006	\$0.01930 per Kwh	41,514
Riders			24,496		
Total Energy	4,076,000		119,674		109,647
Demand					
Summer	3,600.7	\$8.25 per Kw	\$29,706.00	\$11.25 per Kw	40,508
Winter					
1st 10 Kw	2,763.3	\$0.00 per Kw	\$0	\$0.00 per Kw	0
Over 10 Kw	3,104.1	\$6.25 per Kw	\$19,401	\$8.25 per Kw	25,609
Subtotal	5,867.4		19,401		25,609
Total Demand	9,468.1		49,107		66,117
Base Fuel					
Non-Demand Service	1,925,000	\$0.02536 per Kwh	48,818	\$0.02536 per Kwh	48,818
Demand Service	2,151,000	\$0.02536 per Kwh	54,549	0.02536 per Kwh	54,549
Total Base Fuel	4,076,000		103,367		103,367
Total Rate 40 Revenue	4,076,000		\$346,882		\$376,103
Total Revenues Per Design					
Non-Demand Service					\$199,688
Demand Service					176,415
Total					376,103
Target Revenues					369,986
Difference					\$6,117

MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - NORTH DAKOTA

Derivation of Rate and Reconciliation
Municipal Service Rate 40
Projected 2017

Derivation of Rate:

Projected Revenues Before Increase			\$346,882
Proposed Revenue Increase			23,104
Total Revenue Requirement			<u>\$369,986</u>
Less:			
Proposed Base Rate Revenues			96,972
Proposed Demand Revenues			66,117
Summer- 1st 750 Winter Differential	(\$0.01100)	1,241,413 Kwh	(13,656)
Non-Demand Energy Differential	\$0.02000	1,925,000 Kwh	38,500
Projected Base Fuel			<u>103,367</u>
Subtotal			<u>291,300</u>
Net to be Collected Through Energy			<u>\$78,686</u>
Total Kwh Sales			4,076,000
Proposed Energy Charges:			
Demand Service			\$0.01930
Non-Demand Rate:			
Winter - 1st 750			\$0.03930
Winter - Over 750			0.02830
Summer			\$0.03930

MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - NORTH DAKOTA

Derivation of Rate and Reconciliation
Municipal Lighting Service Rate 41
Projected 2017

Municipal Lighting Service	Billing Determinants	Projected @ Current Rates		Proposed Rates	
		Rate	Revenue	Rate	Revenue
Base Rate					
Primary	0	\$0.00 per month	\$0	per month	\$0
Secondary	0	\$0.00 per month	0	per month	0
Energy					
Primary	1,719,000	\$0.05008 per Kwh	86,088	\$0.05510 per Kwh	94,717
Riders			3,937		
Secondary	18,127,000	0.05508 per Kwh	998,435	0.06010 per Kwh	1,089,433
Riders			41,957		
Total Energy	19,846,000		1,130,417		1,184,150
Base Fuel					
Primary	1,719,000	\$0.02454 per Kwh	42,184	\$0.02454 per Kwh	42,184
Secondary	18,127,000	0.02536 per Kwh	459,701	\$0.02536 per Kwh	459,701
Total Base Fuel	19,846,000		501,885		501,885
Discount @ 10% - Excluding Base Fuel					
Primary	1,719,000		(8,612)		(9,472)
Secondary	16,410,409		(90,422)		(98,627)
Total Discount	18,129,409		(99,034)		(108,099)
Total Rate 41 Revenue			\$1,533,268		\$1,577,936
Total Revenues Per Design					\$1,577,936
Target Revenues					1,577,969
Difference					(\$33)

Derivation of Rate:

Projected Revenues Before Increase	\$1,533,268
Proposed Revenue Increase	44,701
Total Revenue Requirement	\$1,577,969
Less:	
Proposed Base Rate Revenues	0
Secondary Differential	\$0.0050 16,485,959 Kwh 1/ 82,430
Projected Base Fuel	501,885
Subtotal	584,315
Net to be Collected Through Energy	\$993,654
Total Kwh Sales (Discounted at 90% of actual)	18,033,059
Proposed Energy Charges:	
Primary	\$0.05510
Secondary	0.06010

MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - NORTH DAKOTA

Derivation of Rate and Reconciliation
Municipal Pumping Service Rate 48
Projected 2017

Municipal Pumping Service	Billing Determinants	Projected @ Current Rates		Proposed Rates	
		Rate	Revenue	Rate	Revenue
Base Rate					
Primary	4	\$12.00 per month	\$576	\$80.00 per month	\$3,840
Secondary	319	10.00 per month	38,280	45.00 per month	172,260
Excess Facilities Charge	1		2,330		2,330
Total Basic Service Charge			41,186		178,430
Energy					
Primary	13,894,000	\$0.02061 per Kwh	286,355	\$0.02163 per Kwh	300,527
Riders			18,233		
Secondary	25,168,000	0.02166 per Kwh	545,139	0.02263 per Kwh	569,552
Riders			18,680		
Total Energy	39,062,000		868,407		870,079
Demand					
Summer					
Primary	15,052.2	\$5.50 per KW	82,787	\$9.00 per KW	135,470
Secondary	30,578.0	\$7.00 per KW	214,046	\$9.00 per KW	275,202
Subtotal	45,630.2		296,833		410,672
Winter					
Primary	20,753.1	\$3.00 per KW	62,259	\$6.00 per KW	124,519
Secondary	60,540.4	\$5.00 per KW	302,702	\$6.00 per KW	363,242
Subtotal	81,293.5		364,961		487,761
Riders- Primary			46,404		
Riders- Secondary			120,786		
Total Demand	126,923.7		828,984		898,433
Base Fuel					
Primary	13,894,000	\$0.02454 per Kwh	340,959	\$0.02454 per Kwh	340,959
Secondary	25,168,000	0.02536 per Kwh	638,260	0.02536 per Kwh	638,260
Subtotal	39,062,000		979,219		979,219
Primary Discounted (all accounts)			(43,185)		(56,436)
Secondary Discounted					
Bills	266		(3,192)		(14,364)
Energy	19,125,058		(41,501)		(43,280)
Demand - Summer	24,023.1		(16,816)		(21,621)
Demand - Winter	48,368.6		(24,184)		(29,021)
Total Discounted			(128,878)		(164,722)
Total Rate 48 Revenue			<u>\$2,588,918</u>		<u>\$2,761,439</u>
Total Revenues Per Design					
Primary					\$905,315
Secondary					1,856,124
					<u>\$2,761,439</u>
Target Revenues					2,761,355
Difference					<u>\$84</u>

MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - NORTH DAKOTA

Derivation of Rate and Reconciliation
Municipal Pumping Service Rate 48
Projected 2017

Derivation of Rate:

Projected Revenues Before Increase				\$2,588,918
Proposed Revenue Increase				172,437
Total Revenue Requirement				<u>\$2,761,355</u>
Less:				
Proposed Base Rate Revenues				163,682
Proposed Demand Revenues				821,792
Secondary Differential	\$0.00100	23,255,494	Kwh	23,255
Projected Base Fuel				<u>979,219</u>
Subtotal				1,987,948
Net to be Collected Through Energy				773,407
Total Kwh Sales				35,760,094
Primary Energy Rate				\$0.02163
Secondary Energy Rate				\$0.02263

MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - NORTH DAKOTA

Derivation of Rate and Reconciliation
Outdoor Lighting Service Rate 52
Projected 2017

Outdoor Lighting	Billing Determinants	Rates Before Interim		Proposed Settlement Rates	
		Rate	Revenue	Rate	Revenue
Base Rate	0	\$0.00 per month	\$0	per month	\$0
Energy					
Primary Service Riders	13,000	\$0.06288 per Kwh	817	\$0.06819 per Kwh	886
Secondary Service Riders	7,424,000	\$0.06694 per Kwh	496,963	\$0.07225 per Kwh	536,384
			18,931		
Total Energy	7,437,000		516,744		537,270
Base Fuel					
Primary Service	13,000	\$0.02454 per Kwh	319	\$0.02454 per Kwh	319
Secondary Service	7,424,000	\$0.02536 per Kwh	188,273	\$0.02536 per Kwh	188,273
Total Base Fuel	7,437,000		188,592		188,592
Total Revenue			\$705,336		\$725,862
Total Revenues Per Design					\$725,862
Target Revenues					725,899
Difference					(\$37)

Derivation of Rate:

Projected Revenues Before Increase		\$705,336
Proposed Revenue Increase		20,563
Total Revenue Requirement		\$725,899
Less:		
Secondary Energy Differential	\$0.00406 7,424,000 Kwh	30,141
Projected Base Fuel		188,592
Subtotal		218,733
Net to be Collected Through Energy		507,166
Total Kwh Sales		7,437,000
Proposed Energy Charge		
Primary		\$0.06819
Secondary		\$0.07225

MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - NORTH DAKOTA

Derivation of Rate and Reconciliation
Contract Rate 304
Projected 2017

Contract Rate 304	Billing Determinants	Projected @ Current Rates		Proposed Rates	
		Rate	Revenue	Rate	Revenue
Base Rate	1	\$15.00 per month	\$180	\$15.00 per month	\$180
Energy	26,681,000	\$0.01958 per Kwh	522,414	\$0.02087 per Kwh	556,832
Demand	65,685.4	5.55 per KW	364,554	5.71 per KW	375,064
Base Fuel	26,681,000	0.02454 per Kwh	<u>654,752</u>	0.02454 per Kwh	<u>654,752</u>
Total Contract Revenues			<u>\$1,541,900</u>		<u>\$1,586,828</u>
Calculation of Energy Charge:					<u>\$44,928</u>
Energy	Rate 304				
Current		\$0.04412			
Proposed		\$0.04541			
Net Increase to Contracts		2.92%			

MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - NORTH DAKOTA

Derivation of Rate and Reconciliation
Contract Rate 303 & 30T
Projected 2017

Contract Rate 303 & 302	Billing Determinants	Projected @ Current Rates		Proposed Rates	
		Rate	Revenue	Rate	Revenue
Base Rate	2	\$95.00 per month	\$2,280	\$95.00 per month	\$2,280
Energy					
First 1.5 Million Kwh	18,000,000	\$0.02239 per Kwh	403,020	\$0.02376 per Kwh	427,680
Over 1.5 Million Kwh	56,171,000	0.01550 per Kwh	870,651	0.01667 per Kwh	936,371
Rate 303 T - All Kwh	<u>1,389,000</u>	0.01550 per Kwh	<u>21,530</u>	0.01667 per Kwh	<u>23,155</u>
Total Energy	75,560,000		1,295,201		1,387,206
Demand					
Summer	42,705.4	8.730 per KW	372,818	8.98 per KW	383,494
Winter	<u>95,505.6</u>	5.550 per KW	<u>530,056</u>	5.71 per KW	<u>545,337</u>
Total Demand	138,211.0		902,874		928,831
Base Fuel	75,560,000	0.02454 per Kwh	<u>1,854,242</u>	0.02454 per Kwh	<u>1,854,242</u>
Total Contract Revenues			<u>\$4,054,597</u>		<u>\$4,172,559</u>
Increase in Revenue					<u>\$117,962</u>

Calculation of Energy Charge:	Rate 303/303T	
	Current	Proposed
First 1.5 Million Kwh	\$0.04693	\$0.04830
Over 1.5 Million Kwh	\$0.04004	0.04121
Rate 303 T - All Kwh	\$0.04004	0.04121
Net Increase to Contracts	2.92%	