



MONTANA-DAKOTA

UTILITIES CO.

A Division of MDU Resources Group, Inc.

400 North Fourth Street
Bismarck, ND 58501
(701) 222-7900

September 24, 2018

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

Re: Proposed Settlement Tariffs - Montana-Dakota's Tax Reform Effects- Electric Rates. Case No. PU18-89

Montana-Dakota Utilities Co. (Montana-Dakota), a Division of MDU Resources Group, Inc., herewith submits tariffs (Exhibit A) based on the Settlement Agreement filed by the Company and Commission Advocacy Staff on August 9, 2108 in the above referenced case.

In accordance with Paragraph 1 of the Terms of the Settlement Agreement and Exhibit 1 attached to the Settlement Agreement the attached tariffs reflect rates that yield a reduction in annual revenues of \$8,436,006 representing an overall decrease in retail rates of 4.5 percent. Supporting workpapers are provided in Exhibit B.

In the event the Settlement Agreement is accepted by the Commission, Montana-Dakota respectfully requests approval of the attached tariffs by September 26, 2018 in order to implement new rates effective with service rendered on an after October 1, 2018. This effective date will allow the Company to implement the rate refund described in Paragraph C of the Other Terms and Conditions of the August 9 Settlement Agreement by December 1, 2018. Implementing new rates later than October 1, 2018 will delay the refund until 2019.

Please contact me at (701) 222-7856 or at Tamie.Aberle@mdu.com with any questions regarding the attached tariffs.

Sincerely,

Tamie A. Aberle
Director of Regulatory Affairs

Attachments

cc: Karl Liepitz
John Schuh
Victor Schock

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
9th Revised Sheet No. 3
Canceling 8th 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	5.699¢ per Kwh
Over 750 Kwh per month	2.699¢ per Kwh
June – September:	5.699¢ 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.

Date Filed: September 24, 2018

Effective Date: Service rendered on and after September 24, 2018

Issued By: Tamie A. Aberle
Director - Regulatory Affairs

Case No.: PU-18-89



Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of North Dakota Electric Rate Schedule

NDPSC Volume 4

3rd Revised Sheet No. 4

Canceling 2nd 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 5.878¢ per Kwh

Over 750 Kwh per month 2.878¢ per Kwh

June – September: 5.878¢ per Kwh

Minimum Bill:

Basic Service Charge.

Payment:

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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
11th Revised Sheet No. 7
Canceling 10th 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 5.735¢ per Kwh

June – September 7.235¢ per Kwh

Off-Peak Energy:

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

October – May 2.735¢ per Kwh

June – September 4.235¢ 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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Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of North Dakota Electric Rate Schedule

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

SMALL GENERAL ELECTRIC SERVICE Rate 20

Page 1 of 2

Availability:

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

Rate:

Basic Service Charge:	\$0.84 per day
Energy Charge:	
October – May:	
First 750 Kwh per month	6.021¢ per Kwh
Over 750 Kwh per month	3.021¢ per Kwh
June – September:	6.021¢ 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.

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400 N 4th Street
Bismarck, ND 58501

State of North Dakota Electric Rate Schedule

NDPSC Volume 4
5th Revised Sheet No. 14
Canceling 4th 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	\$4.25 per Kw
Energy Charge:	0.201¢ 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.

Date Filed: September 24, 2018

Effective Date: Service rendered on and after September 24, 2018

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Director - Regulatory Affairs

Case No.: PU-18-89



Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of North Dakota Electric Rate Schedule

NDPSC Volume 4
11th Revised Sheet No. 15
Canceling 10th 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 4.595¢ per Kwh
June – September 6.095¢ per Kwh

Off-Peak Energy:

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

October – May 2.095¢ per Kwh
June – September 3.595¢ 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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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
5th Revised Sheet No. 18
Canceling 4th Revised Sheet No. 18

GENERAL ELECTRIC SERVICE Rate 30

Page 1 of 2

Availability:

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

Rate:

Primary Service:

Basic Service Charge: \$100.00 per month

Demand Charge:

October – May \$11.00 per Kw

June – September \$14.00 per Kw

Energy Charge: 1.429¢ 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: 2.350¢ 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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Case No.: PU-18-89



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
7th Revised Sheet No. 19
Canceling 6th 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. 1.622¢ per Kwh

Off-Peak Energy:

For all energy not covered by the On-Peak rating period. 1.372¢ 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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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

11th Revised Sheet No. 19.1

Canceling 10th 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. 2.531¢ per Kwh

Off-Peak Energy:

For all energy not covered by
the On-Peak rating period. 2.281¢ 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.

Date Filed: September 24, 2018

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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
6th Revised Sheet No. 20
Canceling 5th Revised Sheet No. 20

GENERAL ELECTRIC SPACE HEATING SERVICE Rate 32

Page 1 of 3

Availability:

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

Rate:

Basic Service Charge: \$21.00 per month

Primary Service:

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

Energy Charge: 1.437¢ per Kwh

Secondary Service:

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

Energy Charge: 2.437¢ 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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Effective Date: Service rendered on and
after September 24, 2018

Issued By: Tamie A. Aberle
Director - Regulatory Affairs

Case No.: PU-18-89



Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of North Dakota Electric Rate Schedule

NDPSC Volume 4

5th Revised Sheet No. 23

Canceling 4th 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:	1.267¢ 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.

Date Filed: September 24, 2018

Effective Date: Service rendered on and after September 24, 2018

Issued By: Tamie A. Aberle
Director - Regulatory Affairs

Case No.: PU-18-89



Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of North Dakota Electric Rate Schedule

NDPSC Volume 4
5th Revised Sheet No. 25
Canceling 4th 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 3.422¢ per Kwh

Over 750 Kwh per month 2.322¢ per Kwh

June – September: 3.422¢ 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: 1.322¢ per Kwh

Date Filed: September 24, 2018

Effective Date: Service rendered on and after September 24, 2018

Issued By: Tamie A. Aberle
Director - Regulatory Affairs

Case No.: PU-18-89



Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of North Dakota Electric Rate Schedule

NDPSC Volume 4
8th Revised Sheet No. 26
Canceling 7th 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: 5.115¢ per Kwh

Secondary Service:
Energy Charge: 5.615¢ 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

Date Filed: September 24, 2018

Effective Date: Service rendered on and after September 24, 2018

Issued By: Tamie A. Aberle
Director - Regulatory Affairs

Case No.: PU-18-89



Montana-Dakota Utilities Co.

A Division of MDU Resources Group, Inc.

400 N 4th Street
Bismarck, ND 58501

State of North Dakota Electric Rate Schedule

NDPSC Volume 4
5th Revised Sheet No. 32
Canceling 4th 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: 1.814¢ 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: 1.914¢ per Kwh

Discount: For contracts of ten years or more 10%

Date Filed: September 24, 2018

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Director - Regulatory Affairs

Case No.: PU-18-89



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
9th Revised Sheet No. 36
Canceling 8th 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:	6.378¢ per Kwh
Secondary Service:	
Energy Charge:	6.784¢ 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:

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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.

Date Filed: September 24, 2018

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Director - Regulatory Affairs

Case No.: PU-18-89



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

5th Revised Sheet No. 41

Canceling 4th 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 be the authorized rate of return from the Company's most recent general rate case.
- 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

Date Filed: September 24, 2018

Effective Date: Service rendered on and after September 24, 2018

Issued By: Tamie A. Aberle
Director - Regulatory Affairs

Case No.: PU-18-89

Tariffs Reflecting Proposed Changes



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
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	6.1335.699 ¢ per Kwh
Over 750 Kwh per month	3.1332.699 ¢ per Kwh
June – September:	6.1335.699 ¢ 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
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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.

Date Filed: June 26, 2017	Effective Date: Service rendered on and after August 7, 2017
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
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 ~~6.5775.878~~¢ per Kwh

Over 750 Kwh per month ~~3.5772.878~~¢ per Kwh

June – September: ~~6.5775.878~~¢ per Kwh

Minimum Bill:

Basic Service Charge.

Payment:

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

Date Filed: June 26, 2017

Effective Date: Service rendered on and after August 7, 2017

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
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 6.1105.735¢ per Kwh

June – September 7.6107.235¢ per Kwh

Off-Peak Energy:

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

October – May 3.1102.735¢ per Kwh

June – September 4.6104.235¢ 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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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

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	6-5206.021¢ per Kwh
Over 750 Kwh per month	3-520.3021¢ per Kwh
June – September:	6-5206.021¢ 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
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 <u>4.25</u> per Kw
Energy Charge:	0.2550 .201 ¢ 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
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 ~~5.1934.595¢~~ per Kwh
June – September ~~6.6936.095¢~~ per Kwh

Off-Peak Energy:

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

October – May ~~2.6932.095¢~~ per Kwh
June – September ~~4.1933.595¢~~ 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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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
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: ~~4.75~~ 4.429¢ 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: ~~2.75~~ 2.350¢ 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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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. 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.

4.9291.622¢ per Kwh

Off-Peak Energy:

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

4.6791.372¢ 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.

2.9292.531¢ per Kwh

Off-Peak Energy:

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

2.6792.281¢ 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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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
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:	1.7511.437¢ per Kwh
Secondary Service:	
Demand Charge:	
October – May	\$ 1.00 per Kw
June – September	\$12.50 per Kw
Energy Charge:	2.7542.437¢ 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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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

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:	1.5741 <u>2.267</u> ¢ 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.

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. 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 3.9303.422¢ per Kwh

Over 750 Kwh per month 2.8302.322¢ per Kwh

June – September: 3.9303.422¢ 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: 4.9301.322¢ per Kwh

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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. 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: 5-5105.115¢ per Kwh

Secondary Service:
Energy Charge: 6-0105.615¢ 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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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

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: 2.4631.814¢ 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: 2.2631.914¢ per Kwh

Discount: For contracts of ten years or more 10%

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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
8th Revised Sheet No. 36
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:	6-8196.378¢ per Kwh
Secondary Service:	
Energy Charge:	7.2256.784¢ 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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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

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 be the authorized rate of return from the Company's most recent general rate case.
- 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	0.00084¢ per Kwh
Large General	0.00071¢ per Kwh
Lighting	0.00032¢ per Kwh

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Director - Regulatory Affairs

Case No.: PU-16-666

MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - NORTH DAKOTA
Summary of Proposed Charges
PU-16-666 Reflecting TCJA

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		\$0.05699	\$0.05699	\$0.02536	\$0.08235	\$0.08235				
Over 750		0.05699	0.02699	0.02536	0.08235	0.05235				
Rate 13	0.75									
Off Peak			0.01100	0.02536		0.03636				
On Peak										
1st 750		0.05878	0.05878	0.02536	0.08414	0.08414				
Over 750		0.05878	0.02878	0.02536	0.08414	0.05414				
TOD Rate 16	0.75									
Off Peak		0.04235	0.02735	0.02536	0.06771	0.05271				
On Peak		0.07235	0.05735	0.02536	0.09771	0.08271				
Small General Service										
Rate 20	0.84									
1st 750		0.06021	0.06021	0.02536	0.08557	0.08557				
Over 750		0.06021	0.03021	0.02536	0.08557	0.05557				
Irrigation Rate 25	1.50	0.00201	0.00201	0.02536	0.02737	0.02737	4.25	1.25	4.25	1.25
TOD Rate 26	1.00									
Off Peak		0.03595	0.02095	0.02536	0.06131	0.04631				
On Peak		0.06095	0.04595	0.02536	0.08631	0.07131				
Municipal Rate 40										
Non- Demand	0.84									
1st 750		0.03422	0.03422	0.02536	0.05958	0.05958				
Over 750		0.03422	0.02322	0.02536	0.05958	0.04858				
Demand	1.00						11.25	0.00	11.25	8.25
1st 750		0.01322	0.01322	0.02536	0.03858	0.03858				
Over 750		0.01322	0.01322	0.02536	0.03858	0.03858				
Large General Service										
Rate 30 Primary Service	100.00	0.01429	0.01429	0.02454	0.03883	0.03883	14.00	11.00	14.00	11.00
Rate 30 Secondary Service	56.00	0.02350	0.02350	0.02536	0.04886	0.04886	12.50	9.50	12.50	9.50
TOD Rate 31										
Primary Service	97.00									
Off Peak		0.01372	0.01372	0.02454	0.03826	0.03826	0.00	0.00	0.00	0.00
On Peak		0.01622	0.01622	0.02454	0.04076	0.04076	15.25	12.25	15.25	12.25
Secondary Service	72.00									
Off Peak		0.02281	0.02281	0.02536	0.04817	0.04817	0.00	0.00	0.00	0.00
On Peak		0.02531	0.02531	0.02536	0.05067	0.05067	14.75	10.75	14.75	10.75
Space Heating Rate 32										
Primary Service	21.00	0.01437	0.01437	0.02454	0.03891	0.03891	14.00	1.00	14.00	1.00
Secondary Service	21.00	0.02437	0.02437	0.02536	0.04973	0.04973	12.50	1.00	12.50	1.00
Demand Resp Rate 38	Contract	0.01267	0.01267	0.02454	0.03721	0.03721	11.00	8.00	11.00	8.00
Municipal Lighting - Rate 41										
Primary Service		0.05115	0.05115	0.02454	0.07569	0.07569				
Secondary Service		0.05615	0.05615	0.02536	0.08151	0.08151				
Municipal Pumping - Rate 48										
Primary Service	80.00	0.01814	0.01814	0.02454	0.04268	0.04268	9.00	6.00	9.00	6.00
Secondary Service	45.00	0.01914	0.01914	0.02536	0.04450	0.04450	9.00	6.00	9.00	6.00
Outdoor Lighting - Rate 52										
Primary Service		0.06378	0.06378	0.02454	0.08832	0.08832				
Secondary Service		0.06784	0.06784	0.02536	0.09320	0.09320				

MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - NORTH DAKOTA

Allocation of Revenues
PU-16-666 Reflecting TCJA

Rate Class	PU-16-666		TCJA			Rate Design Results	
	Authorized Increase	Total Revenues	Allocation of Decrease 1/	Total	Design Results	Revenue Change	
						\$	%
Residential Service							
Rate 10	\$4,629,140	\$74,126,324	(\$3,346,878)	\$70,779,446	\$70,781,551	(\$3,344,773)	-4.5%
Rate 13	511	8,185	(370)	7,815	7,814	(371)	-4.5%
Rate 16	658	10,536	(476)	10,060	10,059	(477)	-4.5%
Total Residential	\$4,630,309	\$74,145,045	(\$3,347,724)	\$70,797,321	\$70,799,424	(3,345,621)	-4.5%
Small General Service							
Rate 20	768,118	12,304,517	(555,561)	11,748,956	11,749,392	(555,125)	-4.5%
Rate 26	10,580	169,419	(7,649)	161,770	161,773	(7,646)	-4.5%
Subtotal	778,698	12,473,936	(563,210)	11,910,726	11,911,165	(562,771)	-4.5%
Rate 25	5,422	86,820	(3,920)	82,900	82,902	(3,918)	-4.5%
Rate 40	23,104	369,986	(16,705)	353,281	353,281	(16,705)	-4.5%
Total Small General	807,224	12,930,742	(583,835)	12,346,907	12,347,348	(583,394)	-4.5%
Large General Service							
Rate 30 Primary	146,907	13,941,118	(629,455)	13,311,663	13,309,825	(631,293)	-4.5%
Rate 30 Secondary	1,982,962	67,078,267	(3,028,651)	64,049,616	64,043,643	(3,034,624)	-4.5%
Rate 31 Primary	17,559	141,598	(6,393)	135,205	135,209	(6,389)	-4.5%
Rate 31 Secondary	244,959	1,560,642	(70,465)	1,490,177	1,490,217	(70,425)	-4.5%
Rate 32 Secondary	185,195	3,892,573	(175,754)	3,716,819	3,716,918	(175,655)	-4.5%
Subtotal	2,577,582	86,614,198	(3,910,718)	82,703,480	82,695,812	(3,918,386)	-4.5%
Rate 30 Contract Rates	162,890	5,759,387	(260,042)	5,499,345	5,498,970	(260,417)	-4.5%
Rate 38	58,841	2,076,107	(93,738)	1,982,369	1,982,500	(93,607)	-4.5%
Rate 39	6,937	248,933	(11,240)	237,693	237,844	(11,089)	-4.5%
Total Large General	2,806,250	94,698,625	(4,275,738)	90,422,887	90,415,126	(4,283,499)	-4.5%
Municipal Lighting							
Rate 41 Primary							
Rate 41 Secondary							
Total Municipal Lighting	44,668	1,577,936	(71,245)	1,506,691	1,506,706	(71,230)	-4.5%
Municipal Pumping							
Rate 48 Primary							
Rate 48 Secondary							
Total Municipal Pumping	172,521	2,781,439	(124,682)	2,636,757	2,636,637	(124,802)	-4.5%
Outdoor Lighting Service							
Rate 52 Primary							
Rate 52 Secondary							
Total Outdoor Lighting	20,526	725,862	(32,773)	693,089	693,065	(32,797)	-4.5%
Total North Dakota Electric	\$8,481,498	\$186,839,649	(\$8,435,997)	\$178,403,652	\$178,398,306	(\$8,441,343)	-4.5%

MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - NORTH DAKOTA

Derivation of Rate and Reconciliation
Residential Electric Service Rate 10
PU-16-666 Reflecting TCJA

Residential Service	Billing Determinants	Authorized		Proposed Rates	
		Rate	Revenue	Rate	Revenue
Base Rate - Rate 10	79,991	\$0.46 per day	\$13,430,489	\$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	\$0.06133 per Kwh	15,111,355	\$0.05699 per Kwh	14,042,004
Winter					
First 750	320,461,951	\$0.06133 per Kwh	19,653,931	0.05699 per Kwh	18,263,127
Over 750	203,828,874	0.03133 per Kwh	6,385,959	0.02699 per Kwh	5,501,341
Subtotal	524,290,825		26,039,890		23,764,468
Total Energy	770,685,000		41,151,245		37,806,472
Base Fuel	770,685,000	\$0.02536 per Kwh	19,544,572	\$0.02536 per Kwh	19,544,572
Total Rate 10			<u>\$74,126,324</u>		<u>\$70,781,551</u>
Total Revenues Per Design					\$70,781,551
Target Revenues					<u>70,779,446</u>
Difference					<u>\$2,105</u>

Derivation of Rate:

Authorized Revenues				<u>Projected</u>
Proposed Revenue Change				\$74,126,324
Total Revenue Requirement				<u>(3,346,878)</u>
				\$70,779,446
Less:				
Authorized Base Rate Revenues				13,430,507
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				\$43,919,233
Total Kwh				770,685,000
Summer Rate per Kwh				\$0.05699
Winter Rate Per Kwh - 1st 750 Kwh				\$0.05699
Winter Rate - Over 750 Kwh				\$0.02699

MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - NORTH DAKOTA

Derivation of Rate and Reconciliation
Residential Electric Service Rate 13
PU-16-666 Reflecting TCJA

Residential Service	Billing Determinants	Authorized		Proposed Rates	
		Rate	Revenue	Rate	Revenue
Base Rate - Rate 13	4	\$0.75 per day	\$1,095	\$0.75 per day	\$1,095
Energy					
Summer	20,490	\$0.06577 per Kwh	1,348	\$0.05878 per Kwh	1,204
Winter					
On-Peak First 750	18,154	\$0.06577 per Kwh	1,194	0.05878 per Kwh	1,067
On-Peak Over 750	14,346	0.03577 per Kwh	513	0.02878 per Kwh	413
Off Peak	74,010	0.01100 per Kwh	814	0.01100 per Kwh	814
Subtotal	106,510		2,521		2,294
Total Energy	127,000		3,869		3,498
Base Fuel	127,000	\$0.02536 per Kwh	3,221	\$0.02536 per Kwh	3,221
Total Rate 13			<u>\$8,185</u>		<u>\$7,814</u>
Total Revenues Per Design					\$7,814
Target Revenues					7,815
Difference					<u>(\$1)</u>

Derivation of Rate:

	Projected
Authorized Revenues	\$8,185
Proposed Revenue Change	(370)
Total Revenue Requirement	\$7,815
Less:	
Authorized Base Rate Revenues	1,095
Base Fuel	3,221
Winter Off-Peak	814
Winter >750 differential (\$0.03000) 14,346 kwh	(430)
Subtotal	4,700
Net to be Collected Through Energy	\$3,115
Total Kwh (excluding Winter Off-Peak)	52,990
Summer rate	\$0.05878
Winter On-Peak First 750	\$0.05878
Winter On-Peak > 750	\$0.02878
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
PU-16-666 Reflecting TCJA

Residential Service	Billing Determinants	Authorized		Proposed Rates	
		Rate	Revenue	Rate	Revenue
Base Rate	8	\$0.75 per day	\$2,190	\$0.75 per day	\$2,190
Energy					
Summer					
On-Peak Kwh	5,951	\$0.07610 per Kwh	453	\$0.07235 per Kwh	431
Off Peak Kwh	16,702	0.04610 per Kwh	770	0.04235 per Kwh	707
Subtotal	22,653		1,223		1,138
Winter					
On-Peak Kwh	21,891	\$0.06110 per Kwh	1,338	\$0.05735 per Kwh	1,255
Off Peak Kwh	82,456	0.03110 per Kwh	2,564	0.02735 per Kwh	2,255
Subtotal	104,347		3,902		3,510
Total Energy	127,000		5,125		4,648
Base Fuel	127,000	\$0.02536 per Kwh	3,221	\$0.02536 per Kwh	3,221
Total Rate 16 Revenues			<u>\$10,536</u>		<u>\$10,059</u>
Total Revenues Per Design					\$10,059
Target Revenues					<u>10,060</u>
Difference					<u>(\$1)</u>

Derivation of Rate:

	Projected
Authorized Revenues	\$10,536
Proposed Revenue Change	(476)
Total Revenue Requirement	\$10,060
Less:	
Authorized Base Rate Revenues	2,190
Base Fuel	3,221
Winter Differential (\$0.01500)	104,347 Kwh (1,565)
On-Peak Differential \$0.03000	27,842 Kwh 835
	<u>4,681</u>
Net to be Collected Through Energy	\$5,379
Total On-Peak Kwh	127,000
Summer Off-Peak Rate	\$0.04235
Summer On-Peak Rate	\$0.07235
Winter Off-Peak Rate	\$0.02735
Winter On-Peak Rate	\$0.05735

MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - NORTH DAKOTA

Derivation of Rate and Reconciliation
Small General Electric Service Rate 20
PU-16-666 Reflecting TCJA

Small General Service	Billing Determinants	Authorized		Proposed Rates	
		Rate	Revenue	Rate	Revenue
Base Rate	11,272	\$0.84 per day	\$3,455,995	\$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	\$0.06520 per Kwh	2,119,454	\$0.06021 per Kwh	1,957,244
Winter					
First 750 Kwh	37,871,251	\$0.06520 per Kwh	2,469,206	0.06021 per Kwh	2,280,228
Over 750 Kwh	40,869,109	0.03520 per Kwh	1,438,593	0.03021 per Kwh	1,234,656
Subtotal	78,740,360		3,907,799		3,514,884
Total Energy	111,247,327		6,027,253		
Base Fuel	111,247,327	\$0.02536 per Kwh	2,821,232	\$0.02536 per Kwh	2,821,232
Total Rate 20 Revenues			<u>\$12,304,517</u>		<u>\$11,749,392</u>
Total Revenues Per Design					\$11,749,392
Target Revenues					<u>11,748,956</u>
Difference					<u>\$436</u>

Derivation of Rate:

	Projected
Authorized Revenues	\$12,304,517
Proposed Revenue Change	(555,561)
Total Revenue Requirement	<u>\$11,748,956</u>
Less:	
Authorized Base Rate Revenues	3,456,032
Base Fuel	2,821,232
Winter Rate > 750 - differential (\$0.03000) 40,869,109 Kwh	<u>(1,226,073)</u>
Subtotal	5,051,191
Net to be Collected Through Energy	\$6,697,765
Total Kwh	111,247,327
Summer Rate per Kwh	\$0.06021
Winter Rate Per Kwh - 1st 750 Kwh	\$0.06021
Winter Rate - Over 750 Kwh	\$0.03021

MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - NORTH DAKOTA

Derivation of Rate and Reconciliation
Irrigation Power Service Rate 25
PU-16-666 Reflecting TCJA

Irrigation Power Service	Billing Determinants	Authorized		Proposed Rates	
		Rate	Revenue	Rate	Revenue
Base Rate	46	\$1.50 per day	\$25,185	\$1.50 per day	\$25,185
Energy	1,267,000	\$0.00255 per Kwh	3,231	\$0.00201 per Kwh	2,547
Total Energy			<u>3,231</u>		
Demand					
Summer	4,311.1	\$5.00 per KW	21,556	\$4.25 per KW	18,322
Winter	3,773.5	1.25 per KW	<u>4,717</u>	1.25 per KW	<u>4,717</u>
Total Demand			<u>26,273</u>		<u>23,039</u>
Base Fuel	1,267,000	\$0.02536 per Kwh	\$32,131	\$0.02536 per Kwh	\$32,131
Total Revenue			<u>\$86,820</u>		<u>\$82,902</u>
Total Revenues Per Design					\$82,902
Target Revenues					<u>82,900</u>
Difference					<u>(\$2)</u>

Derivation of Rate:

Authorized Revenues	\$86,820
Proposed Revenue Change	<u>(3,920)</u>
Total Revenue Requirement	\$82,900
Less:	
Authorized Base Rate Revenues	25,185
Authorized Demand Charge Revenues	23,039
Base Fuel	<u>32,131</u>
Subtotal	80,355
Net to be Collected Through Energy	2,545
Total Kwh Sales	1,267,000
Proposed Energy Charge	\$0.00201

MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - NORTH DAKOTA

Derivation of Rate and Reconciliation
Small General Optional Time-of-Day Electric Service Rate 26
PU-16-666 Reflecting TCJA

Small General Optional TOD Service	Billing Determinants	Authorized		Proposed Rates	
		Rate	Revenue	Rate	Revenue
Base Rate	240	\$1.00 per day	\$87,600	\$1.00 per day	\$87,600
Energy					
Summer					
On-Peak Kwh	122,753	\$0.06693 per Kwh	8,216	\$0.06095 per Kwh	7,482
Off Peak Kwh	367,918	0.04193 per Kwh	15,427	\$0.03595 per Kwh	13,227
Subtotal	490,671		23,643		20,709
Winter					
On-Peak Kwh	181,123	\$0.05193 per Kwh	9,406	\$0.04595 per Kwh	8,323
Off Peak Kwh	606,879	0.02693 per Kwh	16,343	\$0.02095 per Kwh	12,714
Subtotal	788,002		25,749		21,037
Total Energy	1,278,673		49,392		41,746
Base Fuel	1,278,673	0.02536 per Kwh	32,427	0.02536 per Kwh	32,427
Total Rate 26 Revenues			<u>\$169,419</u>		<u>\$161,773</u>
Total Revenues Per Design					\$161,773
Target Revenues					161,770
Difference					<u>\$3</u>

Derivation of Rate:

Authorized Revenues		\$169,419
Proposed Revenue Change		(7,649)
Total Revenue Requirement		<u>\$161,770</u>
Authorized Base Rate Revenues		87,600
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		\$45,966
Total On-Peak Kwh		1,278,673
Summer Off-Peak Rate		\$0.03595
Summer On-Peak Rate		\$0.06095
Winter Off-Peak Rate		\$0.02095
Winter On-Peak Rate		\$0.04595

**MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - NORTH DAKOTA**
**Derivation of Rate and Reconciliation
Large General Electric Service Rate 30
PU-16-666 Reflecting TCJA**

Large General Service 30	Billing Determinants	Authorized		Proposed Rates	
		Rate	Revenue	Rate	Revenue
Base Rate					
* Primary Service Rate 30	43	\$100.00 per month	\$51,600	\$100.00 per month	\$51,600
* Secondary Service Rate 30	4,587	56.00 per month	3,082,464	56.00 per month	3,082,464
Excess Facilities Charges	1		460		460
Total Customers	4,630		3,134,524		3,134,524
Energy					
* Primary Service - Rate 30	195,765,000	\$0.01751 per Kwh	3,427,845	\$0.01429 per Kwh	2,797,482
Subtotal	195,765,000		3,427,845		2,797,482
* Secondary Service - Rate 30	755,983,226	\$0.02751 per Kwh	20,797,099	\$0.02350 per Kwh	17,765,606
Subtotal	755,983,226		20,797,099		17,765,606
Total Energy	951,748,226		24,224,944		20,563,088
Demand					
* Primary Service - Summer	166,387.5	\$14.00 per Kw	2,329,425	\$14.00 per Kw	2,329,425
* Primary Service - Winter	302,476.8	\$11.00 per Kw	3,327,245	\$11.00 per Kw	3,327,245
Subtotal	468,864.3		5,656,670		5,656,670
* Secondary Service - Summer	781,637.3	\$12.50 per Kw	9,770,466	\$12.50 per Kw	9,770,466
* Secondary Service - Winter	1,500,306.5	\$9.50 per Kw	14,252,912	9.50 per Kw	14,252,912
Subtotal	2,281,943.8		24,023,378		24,023,378
Total Demand	2,750,808.1		29,680,048		29,680,048
Base Fuel					
* Primary Service- Rate 30	195,765,000	\$0.02454 per Kwh	4,804,073	\$0.02454 per Kwh	4,804,073
* Secondary Service- Rate 30	755,983,226	0.02536 per Kwh	19,171,735	0.02536 per Kwh	19,171,735
Total Base Fuel	951,748,226		23,975,808		23,975,808
Total Rate 30 Revenue			<u>\$81,015,324</u>		<u>\$77,353,468</u>
Total Revenues Per Design					
Primary- Rate 30					\$13,309,825
Secondary - Rate 30					64,043,643
Total					<u>77,353,468</u>
Target Revenues					<u>77,361,279</u>
Difference					<u>(\$7,811)</u>

Derivation of Rate:

	Energy	
	Primary	Secondary
Authorized Revenues	\$81,019,385	3,427,845
Proposed Revenue Change	(3,658,106)	(629,455)
Total Revenue Requirement	<u>\$77,361,279</u>	<u>\$17,768,448</u>
	195,765,000	755,983,226
	\$0.01429	\$0.02350

MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - NORTH DAKOTA

Derivation of Rate and Reconciliation
Large Time-of-Day Electric Service Rate 31
PU-16-666 Reflecting TCJA

Large General TOD Service (Rate 31)	Billing Determinants	Authorized		Proposed Rates	
		Rate	Revenue	Rate	Revenue
Base Rate					
Primary Service	1	\$97.00 per month	\$1,164	\$97.00 per month	\$1,164
Secondary Service	68	72.00 per month	58,752	72.00 per month	58,752
Total Base Rate	69		59,916		59,916
Energy					
Summer Primary Service					
Off-Peak	563,406	\$0.01679 per Kwh	9,460	\$0.01372 per Kwh	7,730
On-Peak	216,917	0.01929 per Kwh	4,184	\$0.01622 per Kwh	3,518
Total Summer	780,323		13,644		11,248
Winter Primary Service					
Off-Peak	950,049	\$0.01679 per Kwh	15,951	\$0.01372 per Kwh	13,035
On-Peak	350,628	0.01929 per Kwh	6,764	\$0.01622 per Kwh	5,687
Total Winter	1,300,677		22,715		18,722
Primary Subtotal	2,081,000		36,359		29,970
Summer Secondary Service					
Off-Peak	4,221,507	\$0.02679 per Kwh	113,094	\$0.02281 per Kwh	96,293
On-Peak	1,759,979	0.02929 per Kwh	51,550	\$0.02531 per Kwh	44,545
Total Summer	5,981,486		164,644		140,838
Winter Secondary Service					
Off-Peak	8,598,607	\$0.02679 per Kwh	230,357	\$0.02281 per Kwh	196,134
On-Peak	3,114,681	0.02929 per Kwh	91,229	\$0.02531 per Kwh	78,833
Total Winter	11,713,288		321,586		274,967
Secondary Subtotal	17,694,774		486,230		415,805
Total Energy	19,775,774		522,589		445,775
Demand					
Summer Primary Service					
Off-Peak (In excess of on-peak)	0.0	\$0.00 per KW	0	\$0.00 per Kw	0
On-Peak	1,523.8	15.25 per KW	23,238	15.25 per Kw	23,238
Total Summer Demand	1,523.8		23,238		23,238
Winter Primary Service					
Off-Peak (In excess of on-peak)	0.0	\$0.00 per KW	0	\$0.00 per Kw	0
On-Peak	2,430.1	12.25 per KW	29,769	12.25 per Kw	29,769
	2,430.1		29,769		29,769
Primary Subtotal	3,953.9		53,007		53,007
Summer Secondary Service					
Off-Peak (In excess of on-peak)	855.8	\$0.00 per KW	0	\$0.00 per Kw	0
On-Peak	16,906.9	14.75 per KW	249,377	14.75 per Kw	249,377
Total Summer Demand	17,762.7		249,377		249,377
Winter Secondary Service					
Off-Peak (In excess of on-peak)	2,576.1	\$0.00 per KW	0	\$0.00 per Kw	0
On-Peak	29,539.0	10.75 per KW	317,544	10.75 per Kw	317,544
	32,115.1		317,544		317,544
Secondary Subtotal	49,877.8		566,921		566,921
Total Demand	53,831.7		619,928		619,928

MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - NORTH DAKOTA

Derivation of Rate and Reconciliation
Large Time-of-Day Electric Service Rate 31
PU-16-666 Reflecting TCJA

Base Fuel							
Primary	2,081,000	\$0.02454	per Kwh	51,068	0.02454	per Kwh	51,068
Secondary	17,694,774	\$0.02536	per Kwh	448,739	0.02536	per Kwh	448,739
Total Rate 31 Revenue				<u>\$1,702,240</u>			<u>\$1,625,426</u>
Total Revenues Per Design							
Primary- Rate 31							\$135,209
Secondary - Rate 31							<u>1,490,217</u>
							1,625,426
Target Revenues							<u>1,625,382</u>
Difference							<u>\$44</u>

Derivation of Rate:

Authorized Revenues			\$1,702,240
Proposed Revenue Change			<u>(76,858)</u>
Total Revenue Requirement			\$1,625,382
		Primary	Secondary
Authorized Energy		36,359	486,230
Proposed Revenue Change		<u>-6,393</u>	<u>-70,465</u>
Net		29,966	415,765
Less On-Peak Differential		<u>1,419</u>	<u>12,187</u>
		28,547	403,578
Billing Determinants		2,081,000	17,694,774
Off-Peak Energy		\$0.01372	\$0.02281
On-Peak Energy		\$0.01622	\$0.02531
On-peak energy differential	\$0.0025		

MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - NORTH DAKOTA

Derivation of Rate and Reconciliation
General Space Heating Electric Service Rate 32
PU-16-666 Reflecting TCJA

General Space Heating Service	Billing Determinants	Authorized		Proposed Rates	
		Rate	Revenue	Rate	Revenue
Base Rate					
Primary Service	0	\$21.00 per month	\$0	\$21.00 per month	\$0
Secondary Service	623	21.00 per month	156,996	21.00 per month	156,996
Total Base Rate	623		156,996		156,996
Energy					
Primary Service	0	\$0.01751 per Kwh	0	\$0.01437 per Kwh	0
Riders					
Subtotal	0		0		0
Secondary Service	55,941,000	\$0.02751 per Kwh	1,538,937	\$0.02437 per Kwh	1,363,282
Riders					
Subtotal	55,941,000		1,538,937		1,363,282
Total Energy	55,941,000		1,538,937		1,363,282
Demand					
Primary Service - Summer	0.0	\$14.00 per Kw	0	\$14.00 per Kw	0
Primary Service - Winter	0.0	\$1.00 per Kw	0	\$1.00 per Kw	0
Subtotal	0.0		0		0
Secondary Service - Summer	43,863.1	\$12.50 per Kw	548,289	\$12.50 per Kw	548,289
Secondary Service - Winter	229,686.9	\$1.00 per Kw	229,687	\$1.00 per Kw	229,687
Subtotal	273,550.0		777,976		777,976
Total Demand	273,550.0		777,976		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>\$3,892,573</u>	<u>\$3,716,918</u>	
Total Revenues Per Design					
Primary					\$0
Secondary					3,716,918
Total					<u>3,716,918</u>
Target Revenue					<u>3,716,819</u>
Difference					\$99

MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - NORTH DAKOTA

Derivation of Rate and Reconciliation
General Space Heating Electric Service Rate 32
PU-16-666 Reflecting TCJA

Derivation of Rate:

Authorized Revenues		\$3,892,573
Proposed Revenue Change		(175,754)
Total Revenue Requirement		<u>\$3,716,819</u>
Less:		
Authorized Base Rate Revenues		
Primary Service		0
Secondary Service		156,996
Authorized Summer Demand Revenues		
Primary Service		0
Secondary Service		548,289
Winter		229,687
Primary Service Differential	\$0.01000	0
Base Fuel		<u>1,418,664</u>
Subtotal		<u>2,353,636</u>
Net to be Collected Secondary Energy		\$1,363,183
Total Secondary Energy		55,941,000
Secondary Energy Charge		0.02437
Primary Energy Charge		0.01437

MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - NORTH DAKOTA

Derivation of Rate and Reconciliation
Interruptible Large Power Demand Response Rate 38
PU-16-666 Reflecting TCJA

Large Demand Response	Billing Determinants	Authorized		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	\$0.01574 per Kwh	223,508	\$0.01267 per Kwh	179,914
Riders- Discounted					
Customer 2	17,711,000	\$0.01574 per Kwh	278,771	\$0.01267 per Kwh	224,398
Total Energy	31,911,000		502,279		404,312
Demand					
Summer					
Customer 1 - Discounted	11,377.2	\$14.00 per KW	159,281	\$14.00 per KW	159,281
Customer 2	18,351.4	\$11.00 per KW	201,865	11.00 per KW	201,865
Winter					
Customer 1 - Discounted	20,786.2	\$11.00 per KW	228,648	\$11.00 per KW	228,648
Customer 2	35,053.6	\$8.00 per KW	280,429	8.00 per KW	280,429
Riders- Discounted					
Total Demand	85,568.4		870,223		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			(97,180)		(92,820)
Total Rate 38 Revenue			<u>\$2,076,107</u>		<u>\$1,982,500</u>
Total Revenues Per Design					\$1,982,500
Target Revenues					1,982,369
Difference					<u>\$131</u>

Derivation of Rate:

Authorized Revenues	\$2,076,107
Proposed Revenue Change	(93,738)
Total Revenue Requirement	<u>\$1,982,369</u>
Less: (Reflecting 10% Discount)	
Authorized Base Rate Revenues	16,500
Proposed Demand Revenues	831,430
Base Fuel	<u>748,249</u>
Subtotal	1,596,179
Net to be Collected Through Energy	\$386,190
Total Kwh Sales (Adjusted for 10% Discount)	30,491,000
Proposed Energy Charge:	\$0.01267

MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - NORTH DAKOTA

Derivation of Rate and Reconciliation
Interruptible Large Power Rate 39
PU-16-666 Reflecting TCJA

Large Interruptible	Billing Determinants	Authorized		Proposed Rates	
		Rate	Revenue	Rate	Revenue
Base Rate		Per Contract	\$3,600	Per Contract	\$3,600
Energy	5,107,000	\$0.01017 per Kwh	51,938	\$0.00860 per Kwh	43,920
Demand	11,502.0	\$5.918 per KW	68,069	\$5.651 per KW	64,998
Base Fuel	5,107,000	\$0.02454 per Kwh	125,326	\$0.02454 per Kwh	125,326
Total Rate 39 Revenue			<u>\$248,933</u>		<u>\$237,844</u>
Increase					<u>(\$11,089)</u>

Calucation of Energy Charge:

	Rate 39
Energy	
Current	\$0.03471
Proposed	\$0.03314
Net Increase to Contracts	-4.52%

MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - NORTH DAKOTA

Derivation of Rate and Reconciliation
Municipal Service Rate 40
PU-16-666 Reflecting TCJA

Small Municipal Service	Billing Determinants	Authorized		Proposed Rates	
		Rate	Revenue	Rate	Revenue
Base Rate					
Non-Demand	270	\$0.84 per day	\$82,782	\$0.84 per day	\$82,782
Demand	39	1.00 per day	14,235	1.00 per day	14,235
Total Base Rate	<u>309</u>		<u>97,017</u>		<u>97,017</u>
Energy					
Non-Demand Service					
Summer	491,761	\$0.03930 per Kwh	19,326	\$0.03422 per Kwh	16,827
Winter					
First 750 Kwh	749,652	\$0.03930 per Kwh	29,461	0.03422 per Kwh	25,651
Over 750 Kwh	683,587	0.02830 per Kwh	19,346	0.02322 per Kwh	15,871
Subtotal	<u>1,433,239</u>		<u>48,807</u>		<u>41,522</u>
Demand Service	2,151,000	0.01930 per Kwh	41,514	\$0.01322 per Kwh	28,431
Riders					
Total Energy	<u>4,076,000</u>		<u>109,647</u>		<u>86,780</u>
Demand					
Summer	3,600.7	\$11.25 per Kw	\$40,508	\$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	\$8.25 per Kw	\$25,609	\$8.25 per Kw	25,609
Total Demand	<u>5,867.4</u>		<u>25,609</u>		<u>25,609</u>
Total Demand	<u>9,468.1</u>		<u>66,117</u>		<u>66,117</u>
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	<u>4,076,000</u>		<u>103,367</u>		<u>103,367</u>
Total Rate 40 Revenue	<u>4,076,000</u>		<u>\$376,148</u>		<u>\$353,281</u>
Total Revenues Per Design					
Non-Demand Service					\$189,949
Demand Service					163,332
Total					<u>353,281</u>
Target Revenues					<u>353,281</u>
Difference					<u>\$0</u>

MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - NORTH DAKOTA

Derivation of Rate and Reconciliation
Municipal Service Rate 40
PU-16-666 Reflecting TCJA

Derivation of Rate:

Authorized Revenues			\$369,986
Proposed Revenue Change			(16,705)
Total Revenue Requirement			<u>\$353,281</u>
Less:			
Authorized Base Rate Revenues			97,017
Authorized Demand Revenues			66,117
Summer- 1st 750 Winter Differential	\$0.01100	1,241,413 Kwh	13,656
Non-Demand Energy Differential	\$0.01000	1,925,000 Kwh	19,250
Base Fuel			<u>103,367</u>
Subtotal			<u>299,407</u>
Net to be Collected Through Energy			<u>\$53,874</u>
Total Kwh Sales			4,076,000
Proposed Energy Charges:			
Demand Service			\$0.01322
Non-Demand Rate:			
Winter - 1st 750			\$0.03422
Winter - Over 750			0.02322
Summer			\$0.03422

MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - NORTH DAKOTA

Derivation of Rate and Reconciliation
Municipal Lighting Service Rate 41
PU-16-666 Reflecting TCJA

Municipal Lighting Service	Billing Determinants	Authorized		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 Riders	1,719,000	\$0.05510 per Kwh	94,717	\$0.05115 per Kwh	87,927
Secondary Riders	18,127,000	0.06010 per Kwh	1,089,433	0.05615 per Kwh	1,017,831
Total Energy	19,846,000		1,184,150		1,105,758
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		(9,472)		(8,793)
Secondary	16,410,409		(98,628)		(92,144)
Total Discount	18,129,409		(108,100)		(100,937)
Total Rate 41 Revenue			\$1,577,935		\$1,506,706
Total Revenues Per Design					\$1,506,706
Target Revenues					1,506,691
Difference					\$15

Derivation of Rate:

Authorized Revenues		\$1,577,936
Proposed Revenue Change		(71,245)
Total Revenue Requirement		\$1,506,691
Less:		
Authorized Base Rate Revenues		0
Secondary Differential	\$0.0050	16,485,959 Kwh 1/
Base Fuel		82,430
		501,885
Subtotal		
		584,315
Net to be Collected Through Energy		
		\$922,376
Total Kwh Sales (Discounted at 90% of actual)		
		18,033,059
Proposed Energy Charges:		
Primary		\$0.05115
Secondary		0.05615

MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - NORTH DAKOTA

Derivation of Rate and Reconciliation
Municipal Pumping Service Rate 48
PU-15-666 Reflecting TCJA

Municipal Pumping Service	Billing	Authorized		Proposed Rates	
	Determinants	Rate	Revenue	Rate	Revenue
Base Rate					
Primary	4	\$80.00 per month	\$3,840	\$80.00 per month	\$3,840
Secondary	319	45.00 per month	172,260	45.00 per month	172,260
Excess Facilities Charge	1		2,330		2,330
Total Basic Service Charge			178,430		178,430
Energy					
Primary	13,894,000	\$0.02163 per Kwh	300,527	\$0.01814 per Kwh	252,037
Riders					
Secondary	25,168,000	0.02263 per Kwh	569,552	0.01914 per Kwh	481,716
Riders					
Total Energy	39,062,000		870,079		733,753
Demand					
Summer					
Primary	15,052.2	\$9.00 per KW	135,470	\$9.00 per KW	135,470
Secondary	30,578.0	\$9.00 per KW	275,202	\$9.00 per KW	275,202
Subtotal	45,630.2		410,672		410,672
Winter					
Primary	20,753.1	\$6.00 per KW	124,519	\$6.00 per KW	124,519
Secondary	60,540.4	\$6.00 per KW	363,242	\$6.00 per KW	363,242
Subtotal	81,293.5		487,761		487,761
Riders- Primary					
Riders- Secondary					
Total Demand	126,923.7		898,433		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)			(56,423)		(51,587)
Secondary Discounted					
Bills	266		(14,364)		(14,364)
Energy	19,125,058		(43,356)		(36,605)
Demand - Summer	24,023.1		(21,621)		(21,621)
Demand - Winter	48,368.6		(29,021)		(29,021)
Total Discounted			(164,785)		(153,198)
Total Rate 48 Revenue			<u>\$2,761,376</u>		<u>\$2,636,637</u>
Total Revenues Per Design					
Primary					\$856,825
Secondary					1,779,812
					<u>\$2,636,637</u>
Target Revenues					<u>2,636,757</u>
Difference					<u>(\$120)</u>

MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - NORTH DAKOTA

Derivation of Rate and Reconciliation
Municipal Pumping Service Rate 48
PU-16-666 Reflecting TCJA

Derivation of Rate:

Authorized Revenues				\$2,761,439
Proposed Revenue Change				(124,682)
Total Revenue Requirement				<u>\$2,636,757</u>
Less:				
Authorized Base Rate Revenues				163,682
Authorized Demand Revenues				821,792
Secondary Differential	\$0.00100	23,255,494	Kwh	23,255
Base Fuel				<u>979,219</u>
Subtotal				1,987,948
Net to be Collected Through Energy				648,809
Total Kwh Sales				35,760,094
Primary Energy Rate				\$0.01814
Secondary Energy Rate				\$0.01914

MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - NORTH DAKOTA

Derivation of Rate and Reconciliation
Outdoor Lighting Service Rate 52
PU-16-666 Reflecting TCJA

Outdoor Lighting	Billing Determinants	Authorized		Proposed Settlement Rates	
		Rate	Revenue	Rate	Revenue
Base Rate	0	\$0.00 per month	\$0	per month	\$0
Energy					
Primary Service Riders	13,000	\$0.06819 per Kwh	886	\$0.06378 per Kwh	829
Secondary Service Riders	7,424,000	\$0.07225 per Kwh	536,384	\$0.06784 per Kwh	503,644
Total Energy	<u>7,437,000</u>		<u>537,270</u>		<u>504,473</u>
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	<u>7,437,000</u>		<u>188,592</u>		<u>188,592</u>
Total Revenue			<u>\$725,862</u>		<u>\$693,065</u>
Total Revenues Per Design					\$693,065
Target Revenues					<u>693,089</u>
Difference					<u>(\$24)</u>

Derivation of Rate:

Authorized Revenues		\$725,862
Proposed Revenue Change		<u>(32,773)</u>
Total Revenue Requirement		\$693,089
Less:		
Secondary Energy Differential	\$0.00406	7,424,000 Kwh
Base Fuel		<u>188,592</u>
Subtotal		218,733
Net to be Collected Through Energy		474,356
Total Kwh Sales		7,437,000
Proposed Energy Charge		
Primary		\$0.06378
Secondary		\$0.06784

MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - NORTH DAKOTA

Derivation of Rate and Reconciliation
Contract Rate 304
PU-16-666 Reflecting TCJA

Contract Rate 304	Billing Determinants	Authorized		Proposed Rates	
		Rate	Revenue	Rate	Revenue
Base Rate	1	\$15.00 per month	\$180	\$15.00 per month	\$180
Energy	26,681,000	\$0.02087 per Kwh	556,832	\$0.01882 per Kwh	502,136
Demand	65,685.4	5.71 per KW	375,064	5.45 per KW	357,985
Base Fuel	26,681,000	0.02454 per Kwh	654,752	0.02454 per Kwh	654,752
Total Contract Revenues			<u>\$1,586,828</u>		<u>\$1,515,053</u>
Calucation of Energy Charge:					<u>(\$71,775)</u>
Energy	Rate 304				
Current	\$0.04541				
Proposed	\$0.04336				
Net Increase to Contracts	-4.52%				

MONTANA-DAKOTA UTILITIES CO.
ELECTRIC UTILITY - NORTH DAKOTA

Derivation of Rate and Reconciliation
Contract Rate 303 & 30T
PU-16-666 Reflecting TCJA

Contract Rate 303 & 302	Billing Determinants	Authorized		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	\$0.02376 per Kwh	427,680	\$0.02158 per Kwh	388,440
Over 1.5 Million Kwh	56,171,000	0.01667 per Kwh	936,371	0.01481 per Kwh	831,893
Rate 303 T - All Kwh	<u>1,389,000</u>	0.01667 per Kwh	<u>23,155</u>	0.01481 per Kwh	<u>20,571</u>
Total Energy	75,560,000		1,387,206		1,240,904
Demand					
Summer	42,705.4	8.98 per KW	383,494	8.57 per KW	365,985
Winter	<u>95,505.6</u>	5.71 per KW	<u>545,337</u>	5.45 per KW	<u>520,506</u>
Total Demand	138,211.0		928,831		886,491
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>\$4,172,559</u>		<u>\$3,983,917</u>
Increase in Revenue					<u>(\$188,642)</u>

Calucation of Energy Charge:	Rate 303/303T	
	Current	Proposed
First 1.5 Million Kwh	\$0.04830	\$0.04612
Over 1.5 Million Kwh	\$0.04121	0.03935
Rate 303 T - All Kwh	\$0.04121	0.03935
Net Increase to Contracts	-4.52%	