

October 31, 2024

Secretary & Chief Counsel  
Wyoming Public Service Commission  
Hansen Building, Suite 300  
2515 Warren Avenue  
Cheyenne, WY 82002

**RE: General Rate Increase in Retail Natural Gas Service Utility Rates**  
**Docket No. 30013-415-GR-24**

Montana-Dakota Utilities Co. (Montana-Dakota or Company) herewith submits its application to increase its natural gas service utility rates. Montana-Dakota is also requesting approval of changes to its tariffs. This filing is made in accordance with Section 37-3-106 of the Wyoming Statutes Annotated and Chapter 3, Section 21 (k) and Section 23 of the Rules of the Wyoming Public Service Commission.

Montana-Dakota will prove by competent evidence that its existing natural gas service utility rates do not allow Montana-Dakota to fully recover the cost of providing natural gas service to its Wyoming customers; therefore, the current rates are unjust, unreasonable, and not compensatory.

The increase in natural gas service utility rates is driven by a variety of factors since the last rate case, Docket No. 30013-351-GR-19. This includes the continued investment in distribution facilities to improve system safety and reliability, with corresponding increases to depreciation expenses related to these assets. Furthermore, the Company's costs of doing business are increasing despite efforts to control such operation and maintenance costs.

Authorization of the requested increase in revenues will provide Montana-Dakota a reasonable opportunity to earn a fair rate of return on its Wyoming natural gas operations. The Company proposes a total increase in distribution revenues of \$2,587,652 as shown on Statement L, page 2 based on a test year for the twelve months ended December 31, 2023, adjusted for known and measurable changes through year end 2024.

The proposed increase will affect approximately 20,300 natural gas customers in Wyoming. The proposed change in rates will affect customer classes by the following amounts and percentages:

Class	Amount	Increase	Avg. Monthly Use (Dk)	Avg. Monthly Bill Change
Residential	\$2,111,232	18.67%	8	\$9.82
Firm General	476,022	7.60%	38	15.45
Small Interruptible	0	0.00%	1,822	0.00
Large Interruptible	398	0.10%	37,797	4.74
Total	\$2,587,652	14.29%		

The proposed rate changes do not affect the recovery of the cost of purchased gas, which is separately reflected in retail rates (and recovered monthly) through the Purchased Gas Cost Adjustment.

In accordance with Chapter 3, Section 23 of the Rules of the Wyoming Public Service Commission, included herein is a second set of the affected tariffs on which Montana-Dakota has indicated the revisions requested by lining through the existing language which the Company proposes to delete and underlining the new proposed language and will be posted on the Company's website.

The Company will comply with Chapter 3, Section 21 of the Rules of the Wyoming Public Service Commission by posting a Notice of the proposed rates, as shown on Attachment A, in each of its business offices in its gas service territory. The proposed tariff sheets will be available in each business office and will be posted on the Company's website. The Notice to be posted for thirty days after these rates have been approved and placed in effect is included as Attachment B. A Report of Tariff change is provided as Attachment C.

In support of the Company's request, the following documents are included with this Letter of Transmittal:

- The Application including:
  - Appendix A – Current Rate Schedules
  - Appendix B - Proposed Final Rate Schedules including a redlined version of tariffs denoting proposed changes
- Prefiled Direct Testimony and Exhibits in support of the Application
- Supporting Statements and Workpapers

Please refer all inquiries regarding this filing to:

Travis R. Jacobson  
 Director of Regulatory Affairs  
 Montana-Dakota Utilities Co.  
 400 North Fourth Street  
 Bismarck, North Dakota 58501  
[travis.jacobson@mdu.com](mailto:travis.jacobson@mdu.com)

Please send copies of all inquiries, correspondence, and pleadings to:

Bruce S. Asay  
Attorney  
Associated Legal Group, LLC  
1812 Pebrican Ave  
Cheyenne, WY 82001  
[basay@associatedlegal.com](mailto:basay@associatedlegal.com)

Allison Waldon  
Senior Attorney  
MDU Resources Group Inc.  
P.O. Box 5650  
Bismarck, ND 58506-5650  
[allison.waldon@mduresources.com](mailto:allison.waldon@mduresources.com)

In addition, Montana-Dakota requests that all data requests regarding this Application be sent in Microsoft Word format by email to [travis.jacobson@mdu.com](mailto:travis.jacobson@mdu.com).

Montana-Dakota will comply with Section 37-2-125(a) of the Wyoming Statutes and include the \$5.00 filing associated with this filing when the Company is invoiced by the Commission. The invoice will include the filing fees associated with all the Company's gas filings submitted in 2024. An itemized list of all filing fees paid will be included with the check submitted and will include the docket number assigned hereto.

The Company is providing one hard copy of this letter of transmittal, application, tariffs, prefiled direct testimonies, statements, and information in support thereof to the Wyoming Public Service Commission. These documents are also filed electronically on the Commission's docket management system.

Sincerely,



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Travis R. Jacobson  
Director of Regulatory Affairs  
Montana-Dakota Utilities Co.  
400 North Fourth Street  
Bismarck, North Dakota 58501

Enclosures

cc: Anthony Ornelas, Wyoming Office of Consumer Advocate

## CERTIFICATE OF SERVICE

I certify that on the 31<sup>st</sup> day of October 2024, a true and accurate copy of Montana-Dakota Utilities Co.'s application to increase its retail natural gas service utility rates in Wyoming has been electronically filed with the Wyoming Public Service Commission and served by mail and/or email to the following:

John Burbridge  
Secretary & Chief Counsel  
Wyoming Public Service Commission  
Hansen Building, Suite 300  
2515 Warren Avenue  
Cheyenne, WY 82002  
[john.burbridge@wyo.gov](mailto:john.burbridge@wyo.gov)

Anthony Ornelas  
Wyoming Office of Consumer Advocate  
Hansen Building  
2515 Warren Ave Suite 304  
Cheyenne, WY 82002  
[anthony.ornelas@wyo.gov](mailto:anthony.ornelas@wyo.gov)

Bruce S. Asay  
Attorney  
Associated Legal Group, LLC  
1812 Pebrican Ave  
Cheyenne, WY 82001  
[basay@associatedlegal.com](mailto:basay@associatedlegal.com)

Allison Waldon  
Senior Attorney  
MDU Resources Group Inc.  
P.O. Box 5650  
Bismarck, ND 58506-5650  
[allison.waldon@mduresources.com](mailto:allison.waldon@mduresources.com)

/s/ Terese M. Birnbaum  
[terese.birnbaum@mdu.com](mailto:terese.birnbaum@mdu.com)  
Regulatory Analyst  
Montana-Dakota Utilities Co.

On October 31, 2024  
Montana-Dakota Utilities Co.  
filed with the Wyoming Public Service  
Commission revised gas rates affecting  
Montana-Dakota Utilities Co.'s  
gas sales customers in Wyoming.

The Wyoming Public Service Commission  
approved revised gas rates which affect  
Montana-Dakota Utilities Co.'s  
gas sales customers in Wyoming.

By: Travis R. Jacobson, Director of Regulatory Affairs

**BEFORE THE PUBLIC SERVICE COMMISSION OF WYOMING**

IN THE MATTER OF THE APPLICATION OF	)	
MONTANA-DAKOTA UTILITIES CO.	)	
FOR APPROVAL OF A GENERAL RATE	)	DOCKET NO. 30013-415-GR-24
INCREASE IN ITS RETAIL NATURAL GAS	)	
SERVICE UTILITY RATES	)	

**APPLICATION**

Montana-Dakota Utilities Co., (hereinafter referred to as Montana-Dakota, Applicant, or Company) submits this Application to the Wyoming Public Service Commission for approval of a general rate increase in its retail natural gas service utility rates in Wyoming. The Applicant in the above-entitled proceeding respectfully submits the following Application, tariffs, and information in support thereof.

In support of its Application, Montana-Dakota respectfully states the following:

I.

Montana-Dakota is a Delaware corporation duly authorized to do business in the State of Wyoming as a foreign corporation and that it is doing business in the State of Wyoming as a public utility.

II.

The Company's Certificate of Incorporation and Amendments thereto have previously been filed with the Wyoming Public Service Commission (PSC or Commission). Such Certificate and Amendments are hereby incorporated by reference.

III.

That Applicant's full name and post office address are:

Montana-Dakota Utilities Co.  
400 North Fourth Street  
Bismarck, North Dakota 58501

IV.

That the following described rate schedules are presently on file with and approved  
by the Commission are attached hereto as Appendix A.

<b>WYOMING NATURAL GAS 2024 - CURRENT TARIFFS</b>		
<b>W.P.S.C. Tariff No. 2</b>	<b>Description</b>	<b>Rate</b>
Original Title Sheet	Title Sheet	
1 <sup>st</sup> Revised Sheet No. 1	Table of Contents	
Original Sheet No. 2	Communities Served	
40 <sup>th</sup> Revised Sheet No. 3	Rate Summary Sheet	
2 <sup>nd</sup> Revised Sheet No. 5	Thermal Zone Boundaries	
Original Sheet No. 10	Residential Gas Service	60
Original Sheet Nos. 20-21	Firm General Gas Service	70
Original Sheet Nos. 30-32	Small Interruptible General Gas Service	71
Original Sheet Nos. 40-41	Optional Seasonal General Gas Service	72
Original Sheet Nos. 50-57	Transportation Service	81/82
Original Sheet Nos. 60-62	Large Interruptible General Gas Service	85
Original Sheet Nos. 70-75	Purchased Gas Cost Adjustment	88
Original Sheet Nos. 80-110	Conditions of Service	100
2 <sup>nd</sup> Revised Sheet No. 111	Conditions of Service	100
1 <sup>st</sup> Revised Sheet No. 112	Conditions of Service	100
Original Sheet Nos. 120-121	Interruptible Gas Service Extension Policy	119
Original Sheet Nos. 130-136	Firm Gas Service Extension Policy	120
1 <sup>st</sup> Revised Sheet No. 140	Autopay Plan	122
Original Sheet No. 150	Replacement, Relocation and Repair of Gas Service Lines	124
Original Sheet Nos. 160-161	Balanced Billing Plan	125
Original Sheet Nos. 170-171	Rule Covering Company Meter Testing Program	136
1 <sup>st</sup> Revised Sheet Nos. 172-173	Rule Covering Company Meter Testing Program	136
Original Sheet Nos. 180-183	Service Interruption Reporting Plan	137

V.

Montana-Dakota respectfully hereby files the following described proposed rate schedules for natural gas service, copies attached hereto as Appendix B, of which Montana-Dakota proposes to be approved on a final basis in this Docket. The Rate Summary Sheet (Sheet No. 3) will be submitted upon final disposition of the Company's request in this Docket.

<b>WYOMING NATURAL GAS 2024 - PROPOSED TARIFFS</b>		
<b>W.P.S.C. Tariff No. 3</b>	<b>Description</b>	<b>Rate</b>
Original Title Sheet	Title Sheet	
Original Sheet No. 1	Table of Contents	
Original Sheet No. 2	Communities Served	
Original Sheet No. 3	Rate Summary Sheet	
Original Sheet No. 5	Thermal Zone Boundaries	
Original Sheet No. 10	Residential Gas Service	60
Original Sheet No. 20	Firm General Gas Service	70
Original Sheet Nos. 30-32	Small Interruptible General Gas Service	71
Original Sheet Nos. 40-41	Optional Seasonal General Gas Service	72
Original Sheet Nos. 42-43	Firm General Contracted Demand Service	74
Original Sheet Nos. 50-57	Transportation Service	81/82
Original Sheet Nos. 60-62	Large Interruptible General Gas Service	85
Original Sheet Nos. 70-75	Purchased Gas Cost Adjustment	88
Original Sheet Nos. 80-112	Conditions of Service	100
Original Sheet Nos. 115-116	Summary Billing Plan	115
Original Sheet Nos. 120-121	Interruptible Gas Service Extension Policy	119
Original Sheet Nos. 130-136	Firm Gas Service Extension Policy	120
Original Sheet No. 140	Autopay Plan	122
Original Sheet No. 150	Replacement, Relocation and Repair of Gas Service Lines	124
Original Sheet Nos. 160-161	Balanced Billing Plan	125
Original Sheet Nos. 170-173	Rule Covering Company Meter Testing Program	136
Original Sheet Nos. 180-183	Service Interruption Reporting Plan	137

VI.

That the existing rates of Montana-Dakota are unjust, unreasonable, and not compensatory. The proposed rates will allow Montana-Dakota an opportunity to fully recover its costs of providing natural gas service and to earn a just and reasonable rate of return on its natural gas property devoted to providing service to its Wyoming natural gas customers.

VII.

The new rates contained herein will provide additional revenues in the annual amount of \$2,587,652 based a test year for the twelve months ended December 31, 2023, adjustment for known and measurable changes through year end 2024, for natural gas service rendered to customers in Wyoming. This request for additional revenue amounts to a 14.29 percent increase over current natural gas service utility rates.

VIII.

That Montana-Dakota will prove by competent evidence that existing rates are unjust, unreasonable, and not compensatory, and that said rate schedules should be increased as requested herein. Filed concurrently with this Application and its Appendices are supporting Statements, Direct Testimony and Exhibits of Montana-Dakota's witnesses showing the existing rates are unjust, unreasonable, and not compensatory, and that the new rates are just, reasonable, and compensatory.

IX.

This Application is submitted in accordance with the provisions of Wyoming Statutes Title 37, Chapters 2 and 3 of the rules and regulations promulgated by the Public Service Commission of Wyoming.

WHEREFORE, by this Application, Montana-Dakota Utilities Co. respectfully requests that the Public Service Commission of Wyoming:

1. Approve and adopt the proposed rate changes as set forth in Appendix B of this Application that will produce an annual increase in revenues of \$2,587,652 to be effective upon final disposition of this docket;
2. Expedite any hearing which the Commission deems necessary to determine the propriety of Applicant's proposed rate schedules set forth herein, and issue its final order establishing the rates set forth herein; and
3. Grant such other and additional relief as the Commission shall deem just and proper.

Respectfully submitted this 31<sup>st</sup> day of October 2024.

MONTANA-DAKOTA UTILITIES CO.



By \_\_\_\_\_

Travis R. Jacobson  
Director of Regulatory Affairs  
Montana-Dakota Utilities Co.  
400 North Fourth Street  
Bismarck, North Dakota 58501

Montana-Dakota Utilities Co.  
Wyoming Natural Gas Tariffs - Current  
Docket No. 30013-415-GR-24

**Appendix A**



# Montana-Dakota Utilities Co.

*A Subsidiary of MDU Resources Group, Inc.*

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

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W.P.S.C. Tariff No. 2  
Original Title Sheet

### TITLE SHEET

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#### WYOMING P.S.C. TARIFF NO. 2

Including  
Schedule of Rates for Natural Gas Service  
and Rules

OF

MONTANA-DAKOTA UTILITIES CO.,  
A Subsidiary of MDU Resources Group, Inc.

400 N 4th Street

BISMARCK, NORTH DAKOTA 58501

Filed with the  
WYOMING PUBLIC SERVICE COMMISSION

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**Date Filed:** May 23, 2019

**Effective Date:** Service rendered on and  
after March 1, 2020

**Issued By:** Tamie A. Aberle  
Director – Regulatory Affairs

**Docket No.:** 30013-351-GR-19



# Montana-Dakota Utilities Co.

*A Subsidiary of MDU Resources Group, Inc.*

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 2  
1<sup>st</sup> Revised Sheet No. 1  
Canceling Original Sheet No. 1

### TABLE OF CONTENTS

<u>Designation</u>	<u>Title</u>	<u>Sheet No.</u>
	Table of Contents	1
	Communities Served	2
	Rate Summary Sheet	3
	Thermal Zone Boundaries	5
60	Residential Gas Service	10
70	Firm General Gas Service	20
71	Small Interruptible General Gas Service	30
72	Optional Seasonal General Gas Service	40
81 and 82	Transportation Service	50
85	Large Interruptible General Gas Service	60
88	Purchased Gas Adjustment	70
100	Conditions of Service	80
119	Interruptible Gas Service Extension Policy	120
120	Firm Gas Service Extension Policy	130
122	AutoPay Plan	140
124	Replacement, Relocation & Repair of Gas Service Lines	150
125	Balanced Billing Plan	160
136	Rule Covering Company Meter Testing Program	170
137	Service Interruption Reporting Plan	180

**Date Filed:** March 27, 2020

**Effective Date:** Service rendered on and  
after April 23, 2020

**Issued By:** Travis R. Jacobson  
Director – Regulatory Affairs

**Docket No.:** 30013-361-GT-20



# Montana-Dakota Utilities Co.

*A Subsidiary of MDU Resources Group, Inc.*

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

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W.P.S.C. Tariff No. 2

Original Sheet No. 2

### COMMUNITIES SERVED

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#### NATURAL GAS SERVICE

Big Horn  
Buffalo  
Colony  
Cowley

Kaycee  
Lovell  
Powell  
\*Sheridan  
Story

\* Designates District Office

Montana-Dakota Sheridan District Office  
2324 Dry Ranch Road  
Sheridan, WY 82801  
1.800.638.3278

---

**Date Filed:** May 23, 2019

**Effective Date:** Service rendered on and  
after March 1, 2020

**Issued By:** Tamie A. Aberle  
Director - Regulatory Affairs

**Docket No.:** 30013-351-GR-19



# Montana-Dakota Utilities Co.

A Subsidiary of MDU Resources Group, Inc.

400 N 4th Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 2

40<sup>th</sup> Revised Sheet No. 3

Canceling 39<sup>th</sup> Revised Sheet No. 3

### RATE SUMMARY SHEET

Page 1 of 1

Rate Schedule	Sheet No.	Basic Service Charge	Distribution Delivery Charge	Cost of Gas 1/		Total	Total Rate per Dk
				Current Fuel Charge	Surcharge Adjustment		
Residential Rate 60	10	\$0.62 per day	\$0.507	\$4.158	(\$0.562)	\$3.596	\$4.103
Firm General Service Rate 70	20						
Meters rated < 500 cubic feet		\$0.67 per day	\$0.725	\$4.158	(\$0.562)	\$3.596	\$4.321
Meters rated > 500 cubic feet		\$1.80 per day	\$0.525	\$4.158	(\$0.562)	\$3.596	\$4.121
Small Interruptible Sales Rate 71	30						
Maximum		\$145.00 per month	\$0.420	\$4.158	(\$0.562)	\$3.596	\$4.016
Minimum		\$145.00 per month	\$0.077	\$4.158	(\$0.562)	\$3.596	\$3.673
Optional Seasonal Gas Service Rate 72	40						
Meters rated < 500 cubic feet		\$0.67 per day	\$0.725	\$4.720	(\$0.562)	\$4.158	\$4.883
Meters rated > 500 cubic feet		\$1.80 per day	\$0.525	\$4.720	(\$0.562)	\$4.158	\$4.683
Transportation Service	50						
Small Interruptible Rate 81							
Maximum		\$145.00 per month	\$0.420				\$0.420
Minimum		\$145.00 per month	\$0.077				\$0.077
Large Interruptible Rate 82							
Maximum		\$250.00 per month	\$0.149				\$0.149
Minimum		\$250.00 per month	\$0.035				\$0.035
Large Interruptible Sales Rate 85	60						
Maximum		\$250.00 per month	\$0.149	\$4.158	(\$0.562)	\$3.596	\$3.745
Minimum		\$250.00 per month	\$0.035	\$4.158	(\$0.562)	\$3.596	\$3.631

1/ Refer to Rate 88 Sheet Nos. 70-76.

**Date Filed:** September 9, 2024

**Effective Date:** Service rendered on and after October 1, 2024

**Issued By:** Travis R. Jacobson  
Director - Regulatory Affairs

**Docket No.:** 30013-414-GP-24  
Record No. 17681



# Montana-Dakota Utilities Co.

A Subsidiary of MDU Resources Group, Inc.

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

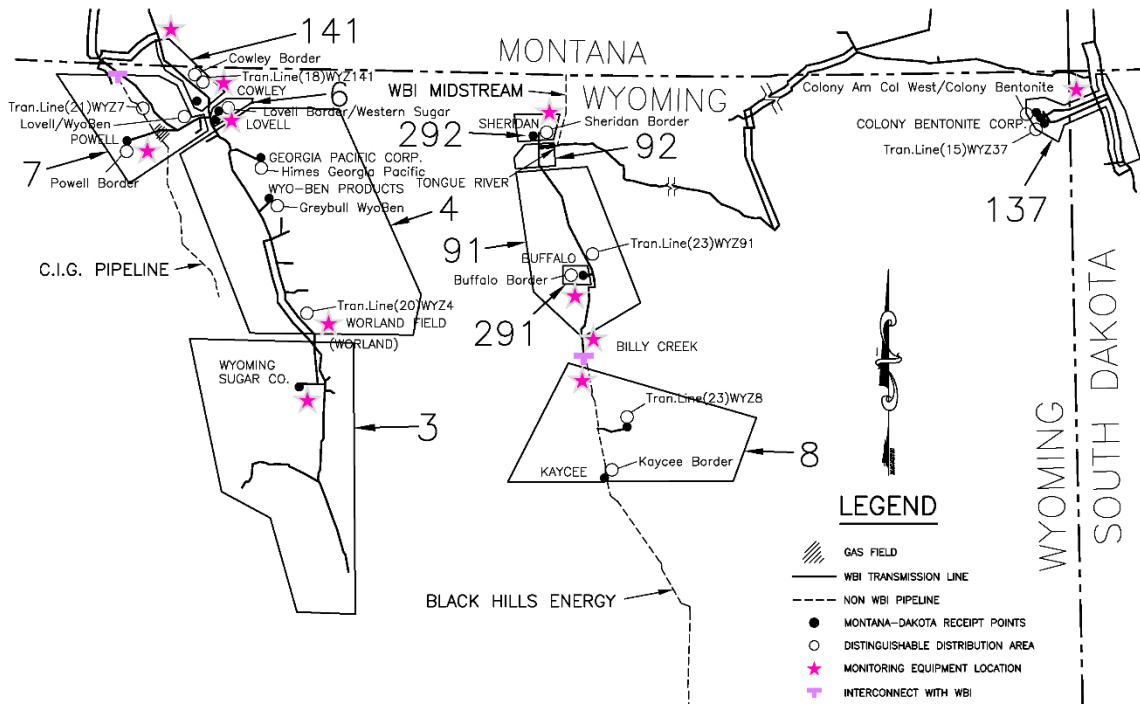
W.P.S.C. Tariff No. 2

2<sup>nd</sup> Revised Sheet No. 5

Canceling 1<sup>st</sup> Revised Sheet No. 5

### THERMAL ZONE BOUNDARIES

Page 1 of 1



Distribution Area	Wobbe Index	Docket Established	Date Established	Prior Wobbe Index	Prior Docket	Change in Service Notice Date
3	1367	9458 Sub 99	1/1/1987			
4	1309	30013-409-GT-24	8/1/2024	1372	9458	TBD
6	1366	9458 Sub 99	1/1/1987			
7	1369	9458 Sub 99	1/1/1987			
8	1357	30013-GT-90-12	11/1/1990			
91	1310	30013-274-GA-13	10/18/2013			
92	1299	30013-274-GA-13	10/18/2013			
137	TBD	30013-404-GT-24	4/4/2024			
141	1334	30013-274-GA-13	10/18/2013			
291	1329	30013-355-GP-19	1/21/2020			
292	1339	30013-355-GP-19	1/21/2020			

Larger View of Thermal Zone Map:

<https://www.montana-dakota.com/wp-content/uploads/PDFs/Rates-Tariffs/Wyoming/NaturalGas/wythermalzonemap.pdf>

Date Filed: July 31, 2024

Effective Date: Service rendered on and after August 1, 2024

Issued By: Travis R. Jacobson  
Director – Regulatory Affairs

Docket No.: 30013-409-GT-24  
Record No. 17576



# Montana-Dakota Utilities Co.

A Subsidiary of MDU Resources Group, Inc.

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 2  
Original Sheet No. 10

### RESIDENTIAL GAS SERVICE Rate 60

Page 1 of 1

#### Availability:

In all communities served for all domestic uses except for resale. See Rate 100, §V. General Terms and Conditions, Paragraph 3, for definition of class of service.

#### Rate:

Basic Service Charge:	\$0.62 per day
Distribution Delivery Charge:	\$0.507 per dk
Cost of Gas:	Determined Monthly- See Rate Summary Sheet for Current Rate

#### Minimum Bill:

Basic Service Charge.

#### Payment:

Billed amounts 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, §V. General Terms and Conditions, Paragraph 13, or any amendments or alterations thereto.

#### Cost of Gas:

The cost of gas includes all applicable cost of gas items as defined in Purchased Gas Cost Adjustment Rate 88 or any amendments or alterations thereto. The cost of gas component is subject to change on a monthly basis.

#### General Terms and Conditions:

The foregoing schedule is subject to Rates 100 through 136 and any amendments or alterations thereto or additional rules and regulations promulgated by the Company under the laws of the state.

**Date Filed:** February 3, 2020

**Effective Date:** Service rendered on and  
after March 1, 2020

**Issued By:** Tamie A. Aberle  
Director – Regulatory Affairs

**Docket No.:** 30013-351-GR-19



# Montana-Dakota Utilities Co.

A Subsidiary of MDU Resources Group, Inc.

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 2  
Original Sheet No. 20

### FIRM GENERAL GAS SERVICE Rate 70

Page 1 of 2

#### Availability:

In all communities served for all general service purposes except for resale. See Rate 100, §V. General Terms and Conditions, Paragraph 3, for definition of class of service.

#### Rate:

##### Basic Service Charge:

For customers with meters rated  
under 500 cubic feet per hour \$0.67 per day

For customers with meters rated  
over 500 cubic feet per hour \$1.80 per day

##### Distribution Delivery Charge:

For customers with meters rated  
under 500 cubic feet per hour \$0.725 per dk

For customers with meters rated  
over 500 cubic feet per hour \$0.525 per dk

Cost of Gas: Determined Monthly- See Rate  
Summary Sheet for Current Rate

#### Minimum Bill:

Basic Service Charge.

#### Payment:

Billed amounts 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, §V. General Terms and Conditions, Paragraph 13, or any amendments or alterations thereto.

**Date Filed:** February 3, 2020

**Effective Date:** Service rendered on and  
after March 1, 2020

**Issued By:** Tamie A. Aberle  
Director – Regulatory Affairs

**Docket No.:** 30013-351-GR-19



# Montana-Dakota Utilities Co.

*A Subsidiary of MDU Resources Group, Inc.*

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

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W.P.S.C. Tariff No. 2  
Original Sheet No. 21

### **FIRM GENERAL GAS SERVICE Rate 70**

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Page 2 of 2

#### **Cost of Gas:**

The cost of gas includes all applicable cost of gas items as defined in Purchased Gas Cost Adjustment Rate 88 or any amendments or alterations thereto. The cost of gas component is subject to change on a monthly basis.

#### **General Terms and Conditions:**

The foregoing schedule is subject to Rates 100 through 136 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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**Date Filed:** May 23, 2019

**Effective Date:** Service rendered on and  
after March 1, 2020

**Issued By:** Tamie A. Aberle  
Director – Regulatory Affairs

**Docket No.:** 30013-351-GR-19



# Montana-Dakota Utilities Co.

A Subsidiary of MDU Resources Group, Inc.

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 2  
Original Sheet No. 30

### SMALL INTERRUPTIBLE GENERAL GAS SERVICE Rate 71

Page 1 of 3

#### Availability:

In all communities served for all interruptible general gas service customers whose interruptible natural gas load will exceed an input rate of 2,500,000 Btu per hour, metered at a single delivery point and whose average use of natural gas will not exceed 50,000 dk annually. The rates herein are applicable only to customer's interruptible load. The customer's firm natural gas requirements must be separately metered or specified in a firm service agreement. The customer's firm load shall be billed at Firm General Gas Service Rate 70. For interruption purposes, the maximum daily firm requirement shall be set forth in the firm service agreement.

#### Rate:

Basic Service Charge:	\$145.00 per month	
Distribution Delivery Charge:	<u>Maximum</u>	<u>Minimum</u>
	\$0.420 per dk	\$0.077 per dk
Cost of Gas:	Determined Monthly- See Rate Summary Sheet for Current Rate	

#### Minimum Bill:

Basic Service Charge.

#### Payment:

Billed amounts 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, §V. General Terms and Conditions, Paragraph 13, or any amendments or alterations thereto.

#### Cost of Gas:

The cost of gas includes all applicable cost of gas as defined in Purchased Gas Cost Adjustment Rate 88 or any amendments or alterations thereto. The cost of gas component is subject to change on a monthly basis.

**Date Filed:** February 3, 2020

**Effective Date:** Service rendered on and after March 1, 2020

**Issued By:** Tamie A. Aberle  
Director - Regulatory Affairs

**Docket No.:** 30013-351-GR-19



# Montana-Dakota Utilities Co.

A Subsidiary of MDU Resources Group, Inc.

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 2

Original Sheet No. 31

### SMALL INTERRUPTIBLE GENERAL GAS SERVICE Rate 71

Page 2 of 3

#### General Terms and Conditions:

1. **PRIORITY OF SERVICE** - Deliveries of gas under this schedule shall be subject at all times to the prior demands of customers served on the Company's firm gas service rates. The customers taking service hereunder agree that the Company, without prior notice, shall have the right to curtail or interrupt such service whenever, in the Company's sole judgment, it may be necessary to do so to protect the interest of its customers whose capacity requirements are otherwise and hereby given preference. The priority of service and allocation of capacity shall be accomplished in accordance with the Priority of Service Schedule set forth in Rate 100, §V. General Terms and Conditions, Paragraph 11.
2. **PENALTY FOR FAILURE TO CURTAIL OR INTERRUPT** - If the customer fails to curtail or interrupt their use of gas hereunder when requested to do so by the Company, any gas taken shall be billed at the charges applicable under Firm General Gas Service Rate 70 (excluding the Basic Service Charge), plus either an amount equal to any penalty payment(s) or overrun charges the Company is required to make to its interconnecting pipeline(s) under the terms of its contract(s) as a result of such failure to curtail or interrupt, or \$50.00 per dk of gas used in excess of the volume of gas to which the customer was requested to curtail or interrupt, whichever amount is greater. The Company, in its discretion, may shut off the customer's supply of gas in the event of the customer's failure to curtail or interrupt use of gas when requested to do so by the Company.
3. **AGREEMENT** - Upon request of the Company, the customer may be required to enter into an agreement for service hereunder. If mutually agreed to by the Company and customer, the term of service reflected in such agreement may be amended. Upon expiration of service, the customer may apply for and receive, at the sole discretion of the Company, gas service under another appropriate rate schedule for the customer's operations.
4. **OBLIGATION TO NOTIFY COMPANY OF CHANGE IN DAILY OPERATIONS** – The customer will be required as specified in the service agreement to notify Company of an anticipated change in daily operations.

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# Montana-Dakota Utilities Co.

*A Subsidiary of MDU Resources Group, Inc.*

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 2  
Original Sheet No. 32

### SMALL INTERRUPTIBLE GENERAL GAS SERVICE Rate 71

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Failure to comply with requirements specified in the service agreement may result in the assessment of penalties to the customer equal to the penalty amounts the Company must pay to the interconnecting pipeline caused by customer action.

5. **METERING REQUIREMENTS** - Remote data acquisition equipment (telemetering equipment) required by the Company for a single customer installation for daily measurement will be purchased and installed by the Company prior to the initiation of service hereunder.

The customer may be required, upon consultation with the Company, to contribute towards additional metering equipment necessary for daily measurement by the Company, depending on the location of the customer to the Company's network facilities. This would include customers located in remote areas or in areas with topography that does not allow for transmission of information to existing telemetering equipment infrastructure. Enhancements and/or modifications to these services may be required to ensure equipment functionality. Such enhancements or modifications shall be completed at the direction of the Company with all associated costs the customer's responsibility. Any interruption in such services must be promptly remedied or service under this tariff will be suspended until satisfactory corrections have been made.

Consultation between the customer and the Company regarding telemetering requirements shall occur prior to execution of the required service agreement.

6. **RULES** - The foregoing schedule is subject to Rates 100 through 136 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 Subsidiary of MDU Resources Group, Inc.

400 N 4<sup>th</sup> Street  
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## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 2  
Original Sheet No. 40

### OPTIONAL SEASONAL GENERAL GAS SERVICE Rate 72

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#### Availability:

In all communities served for all seasonal general service uses. See Rate 100, §V. General Terms and Conditions, Paragraph 3, for definition of class of service.

#### Rate:

##### Basic Service Charge:

For customers with meters rated  
under 500 cubic feet per hour \$0.67 per day

For customers with meters rated  
over 500 cubic feet per hour \$1.80 per day

##### Distribution Delivery Charge:

For customers with meters rated  
under 500 cubic feet per hour \$0.725 per dk

For customers with meters rated  
over 500 cubic feet per hour \$0.525 per dk

##### Cost of Gas:

Winter- Service rendered October 1 through March 31 Determined Monthly - See  
Rate Summary Sheet for  
Current Rate

Summer- Service rendered April 1 through  
September 30 Determined Monthly - See  
Rate Summary Sheet for  
Current Rate

#### Minimum Bill:

Basic Service Charge.

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# Montana-Dakota Utilities Co.

*A Subsidiary of MDU Resources Group, Inc.*

400 N 4<sup>th</sup> Street  
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## State of Wyoming Gas Rate Schedule

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W.P.S.C. Tariff No. 2  
Original Sheet No. 41

### OPTIONAL SEASONAL GENERAL GAS SERVICE Rate 72

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#### **Payment:**

Billed amounts 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, §V. General Terms and Conditions, Paragraph 13, or any amendments or alterations thereto.

#### **Cost of Gas:**

The cost of gas includes all applicable cost of gas items as defined in Purchased Gas Cost Adjustment Rate 88 or any amendments or alterations thereto. The cost of gas component is subject to change on a monthly basis.

#### **General Terms and Conditions:**

1. **TERM** - The customer agrees to contract for service under the Optional Seasonal General Gas Service Rate 72 for a minimum of one year.
2. **RULES** - The foregoing schedule is subject to Rates 100 through 136 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 Subsidiary of MDU Resources Group, Inc.

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 2  
Original Sheet No. 50

### TRANSPORTATION SERVICE Rates 81 and 82

Page 1 of 8

#### Availability:

This service is applicable for transportation of natural gas to customer's premises (metered at a single delivery point) through Company's distribution facilities. In order to obtain transportation service, customer must qualify under an applicable gas transportation service rate; meet the general terms and conditions of service provided hereunder; and enter into a gas transportation agreement upon request by the Company.

#### Small Interruptible General Gas Transportation Service Rate 81:

Transportation service is available for all general gas service customers whose interruptible natural gas load will exceed an input rate of 2,500,000 Btu per hour, metered at a single delivery point, and whose average interruptible use of natural gas will not exceed 50,000 dk annually. The customer's firm natural gas requirements must be separately metered or specified in a firm service agreement. The customer's firm load shall be treated and billed in accordance with the provisions of Firm General Gas Service Rate 70.

#### Large Interruptible General Gas Transportation Service Rate 82:

Transportation service is available for all general gas service customers whose average interruptible natural gas load will exceed 50,000 dk annually as metered at a single delivery point. The customer's firm natural gas requirements must be separately metered or specified in a firm service agreement. The customer's firm load shall be treated and billed in accordance with the provisions of Firm General Gas Service Rate 70.

#### Rate:

Basic Service Charge:

Rate 81	\$145.00	per month 1/
Rate 82	\$250.00	per month 2/

- 1/ In the event customer takes service through one meter under both Rates 71 and 81, Basic Service Charge under Rate 81 shall be waived.
- 2/ In the event customer takes service through one meter under both Rates 85 and 82, Basic Service Charge under Rate 82 shall be waived.

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# Montana-Dakota Utilities Co.

A Subsidiary of MDU Resources Group, Inc.

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 2  
Original Sheet No. 51

### TRANSPORTATION SERVICE Rates 81 and 82

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Under Rates 81 or 82 the customer shall pay a negotiated rate not more than the maximum rate or less than the minimum rate specified below. (The per dk charge is applicable to all dk of natural gas transported under the terms of this rate.)

	<u>Rate 81</u>	<u>Rate 82</u>
Maximum Rate per dk	\$0.420	\$0.149
Minimum Rate per dk	\$0.077	\$0.035

#### General Terms and Conditions:

1. **CRITERIA FOR SERVICE** - In order to receive the service, the customer must qualify under one of the Company's applicable natural gas transportation service rates and comply with the general terms and conditions of the service provided herein. The customer is responsible for making all arrangements for transporting the gas from its source to the Company's interconnection with the delivering pipeline(s).
2. **REQUEST FOR GAS TRANSPORTATION SERVICE** - To qualify for gas transportation service a customer must request the service pursuant to the provisions set forth herein. The service shall be provided only to the extent that the Company's existing operating capacity permits.
3. **MULTIPLE SERVICES THROUGH ONE METER:**
  - a. In the event the customer desires firm sales service in addition to gas transportation service, the customer shall request such firm volume requirements, and upon approval by Company, such firm volume requirements shall be set forth in a firm service agreement. For billing purposes, the level of volumes so specified or the actual volume used, whichever is lower, shall be billed at Rate 70. Volumes delivered in excess of such firm volumes shall be billed at the applicable gas transportation rate. The customer has the option to install, at their

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## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 2  
Original Sheet No. 52

### TRANSPORTATION SERVICE Rates 81 and 82

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expense, piping necessary for separate measurement of sales and transportation volumes.

- b. The customer shall pay, in addition to charges specified in the applicable gas transportation rate schedule, charges under all other applicable rate schedules for any service in addition to that provided herein (irrespective of whether the customer receives only gas transportation service in any billing period).
4. **PRIORITY OF SERVICE** – The Company shall have the right to curtail or interrupt deliveries without being required to give previous notice of intention to curtail or interrupt, whenever, in its judgment, it may be necessary to do so to protect the interest of its customers whose capacity requirements are otherwise and hereby given preference. The priority of service and allocation of capacity shall be accomplished in accordance with General Terms and Conditions, §V. Paragraph 11 of Conditions of Service Rate 100.
5. **PENALTY FOR FAILURE TO CURTAIL OR INTERRUPT** - If the customer fails to curtail or interrupt their use of gas hereunder when requested to do so by the Company, any gas taken above that received on the customer's behalf, shall be billed at the charges applicable under Firm General Gas Service Rate 70 (excluding the Basic Service Charge), plus either an amount equal to any penalty payments or overrun charges the Company is required to make to its interconnecting pipeline(s) under the terms of its contract(s) as a result of such failure to curtail or interrupt, or \$50.00 per dk of gas used in excess of the volume of gas to which the customer was requested to curtail or interrupt, whichever amount is greater.  
  
The Company, in its discretion, may shut off the customer's supply of gas in the event of the customer's failure to curtail or interrupt use of gas when requested to do so by the Company.
6. **CUSTOMER USE OF NON-DELIVERED VOLUMES** - In the event the customer's gas is not being delivered to the receipt point for any reason and the customer continues to take gas, the customer shall be subject to any

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## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 2  
Original Sheet No. 53

### TRANSPORTATION SERVICE Rates 81 and 82

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applicable penalties or charges set forth in Paragraph 5. Gas volumes supplied by Company will be billed at Firm General Service Rate 70 (distribution delivery and cost of gas). The Company is under no obligation to notify customer of non-delivered volumes.

7. REPLACEMENT OR SUPPLEMENTAL SALES SERVICE - In the event the customer's transportation volumes are not available for any reason, the customer may take interruptible sales service if such service is available. The availability of interruptible sales service shall be determined at the sole discretion of the Company.
8. ELECTION OF SERVICE:
  - a. Prior to the initiation of service hereunder, the customer shall make an election of its requirements under each applicable rate schedule for the entire term of service. If mutually agreed to by the Company and the customer, the term of service may be amended. Upon expiration of service, the customer may apply for and receive, at the sole discretion of the Company, gas service under the appropriate sales rate schedule for the customer's operations.
  - b. Transportation customers who cease service and then resume service within the succeeding 12 months shall be subject to a reconnection charge as specified in Rate 100, General Terms and Conditions, §V. Paragraph 19.
9. DAILY IMBALANCE:
  - a. To the extent practicable, the customer and the Company agree to the daily balancing of volumes of gas received and delivered on a thermal basis. Such balancing is subject to the customer's request and the Company's discretion to vary scheduled receipts and deliveries within existing Company operating limitations
  - b. In the event that the deviation between scheduled daily volumes and actual daily volumes of gas used by the customer causes the Company to incur any additional costs from its interconnecting pipeline(s), the

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## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 2  
Original Sheet No. 54

### TRANSPORTATION SERVICE Rates 81 and 82

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customer shall be solely responsible for all such penalties, fines, fees or costs incurred. If more than one customer has caused the Company to incur these additional costs, all costs (excluding those associated with Company's firm deliveries) will be prorated to each customer based on the customer's over – or – undertake as a percentage of the total.

- c. The Company may waive any penalty associated with Company adjustments to end-use customer nominations in those instances where the Company, due to operating limitations, is required to adjust end-use transportation customer nominations and such Company adjustments create a penalty situation, or preclude a customer from correcting an imbalance which results in a penalty.

10. MONTHLY IMBALANCE – The customer's monthly imbalance is the difference between the amount of gas received by the Company on the customer's behalf and the customer's actual metered use. Monthly imbalances will not be carried forward to the next calendar month.

- a. Undertake Purchase Payment – If the monthly imbalance is due to more gas delivered on the customer's behalf than the actual volumes used, the Company shall pay the customer an Undertake Purchased Payment in accordance with the following schedule:

% Monthly Imbalance	Undertake Purchase Rate
0 – 5%	100% Cash-out Mechanism
> 5 – 10%	85% Cash-out Mechanism
> 10 – 15%	70% Cash-out Mechanism
> 15 – 20%	60% Cash-out Mechanism
> 20%	50% Cash-out Mechanism

Where the Cash-out Mechanism is equal to the lesser of the Company's WACOG or the Index Price, as defined in Paragraph 10(c).

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## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 2  
Original Sheet No. 55

### TRANSPORTATION SERVICE Rates 81 and 82

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- b. Overtake Charge – If the monthly imbalance is due to more gas actually used by the customer than volumes delivered on their behalf, the customer shall pay the Company an Overtake Charge in accordance with the following schedule:

% Monthly Imbalance	Overtake Charge Rate
0 – 5%	100% Cash-in Mechanism
> 5 – 10%	115% Cash-in Mechanism
> 10 – 15%	130% Cash-in Mechanism
> 15 – 20%	140% Cash-in Mechanism
> 20%	150% Cash-in Mechanism

Where the Cash-in Mechanism is equal to the greater of the Company's WACOG or the Index Price, as defined in Paragraph 10(c).

- c. The Index Price shall be the arithmetic average of the "Weekly Weighted Averages Prices" published by Gas Daily for CIG Rockies and Northern Ventura during the given month. The Company's WACOG (Weighted Average Cost of Gas) includes the commodity cost of gas and applicable transportation charges including the fuel cost of transportation.

#### 11. METERING REQUIREMENTS:

- a. Remote data acquisition equipment (telemetry equipment) required by the Company for a single customer installation for daily measurement will be purchased and installed by the Company prior to the initiation of service hereunder.
- b. The customer may be required, upon consultation with the Company, to contribute towards additional metering equipment necessary for daily measurement by the Company, depending on the location of the customer to the Company's network facilities. Enhancements and/or modifications to these services may be required to ensure equipment functionality. Such enhancements or modifications shall be completed at

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Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 2  
Original Sheet No. 56

### TRANSPORTATION SERVICE Rates 81 and 82

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the direction of the Company with all associated costs the customer's responsibility. Any interruption in such services must be promptly remedied or service under this tariff will be suspended until satisfactory corrections have been made.

- c. Consultation between the customer and the Company regarding telemetering requirements shall occur prior to execution of the required service agreement.

#### 12. DAILY NOMINATION REQUIREMENTS:

- a. The customer or the customer's shipper or agent shall advise the Gas Supply Department, via the Company's Electronic Bulletin Board in accordance with FERC timelines, of the dk requirements the customer has requested to be delivered at each delivery point the following day. The customer's daily nomination shall be its best estimate of the expected utilization for the gas day. Unless other arrangements are made, the customer will be required to nominate for the non-business days involved prior to weekends and holidays.
- b. All nominations should include shipper and/or agent defined begin and end dates. Shippers and/or agents may nominate for periods longer than 1 day, provided the nomination begin and end dates are within the term of the service agreement.
- c. The Company has the sole right to refuse receipt of any volumes which exceed the maximum daily contract quantity and at no time shall the Company be required to accept quantities of gas for the customer in excess of the quantities of gas to be delivered to the customer.
- d. At no time shall the Company have the responsibility to deliver gas in excess of the customer's nomination.

- 13. WARRANTY - The customer, the customer's agent, or the customer's shipper warrants that it will have title to all gas it tenders or causes to be tendered to

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## State of Wyoming Gas Rate Schedule

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W.P.S.C. Tariff No. 2  
Original Sheet No. 57

### TRANSPORTATION SERVICE Rates 81 and 82

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the Company, and such gas shall be free and clear of all liens and adverse claims and the customer, the customer's agent, or the customer's shipper shall indemnify the Company against all damages, costs, and expenses of any nature whatsoever arising from every claim against said gas.

14. FACILITY EXTENSIONS - If facilities are required in order to furnish gas transportation service, and those facilities are in addition to the facilities required to furnish firm gas service, the customer shall pay for those additional facilities and their installation in accordance with the Company's applicable natural gas extension policy. The Company may remove such facilities when service hereunder is terminated.
15. PAYMENT - Billed amounts 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, §V. General Terms and Conditions, Paragraph 13, or any amendments or alterations thereto.
16. AGREEMENT - Upon request of the Company, customer may be required to enter into an agreement for service hereunder.
17. RULES - The foregoing schedule is subject to Rates 100 through 136 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 Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 2

Original Sheet No. 60

### LARGE INTERRUPTIBLE GENERAL GAS SERVICE

#### Rate 85

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#### Availability:

In all communities served for all interruptible general gas service customers whose average interruptible natural gas load will exceed 50,000 dk annually as metered at a single delivery point. The rates herein are applicable only to customer's interruptible load. The customer's firm natural gas requirements must be separately metered or specified in a firm service agreement. The customer's firm load shall be billed at Firm General Gas Service Rate 70. For interruption purposes, the maximum daily firm requirement shall be set forth in the firm service agreement.

The Company reserves the right to refuse the initiation of service under this rate schedule based on the availability of gas supply.

#### Rate:

Basic Service Charge:	\$250.00 per month	
Distribution Delivery Charge:	<u>Maximum</u>	<u>Minimum</u>
	\$0.149 per dk	\$0.035 per dk
Cost of Gas:	Determined Monthly – See Rate Summary Sheet for Current Rate	

The Company and the customer reserve the right to execute a contract for gas supply at a mutually agreed upon rate different from the rate specified above, subject to Wyoming Public Service Commission approval of such contract rate.

#### Minimum Bill:

Basic Service Charge.

#### Payment:

Billed amounts 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, §V. General Terms and Conditions, Paragraph 13, or any amendments or alterations thereto.

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## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 2  
Original Sheet No. 61

### LARGE INTERRUPTIBLE GENERAL GAS SERVICE Rate 85

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#### Cost of Gas:

The cost of gas includes all applicable cost of gas items as defined in Purchased Gas Cost Adjustment Rate 88 or any amendments or alterations thereto. The cost of gas component is subject to change on a monthly basis.

#### General Terms and Conditions:

1. **PRIORITY OF SERVICE** - Deliveries of gas under this schedule shall be subject at all times to the prior demands of customers, served on the Company's firm gas service rates. Customers taking service hereunder agree that the Company, without prior notice, shall have the right to curtail or interrupt such service whenever, in Company's sole judgment, it may be necessary to do so to protect the interest of its customers whose capacity requirements are otherwise and hereby given preference. The priority of service and allocation of capacity shall be accomplished in accordance with the Priority of Service Schedule set forth in §V. Paragraph 11 of Conditions of Service Rate 100.
2. **PENALTY FOR FAILURE TO CURTAIL OR INTERRUPT** - If the customer fails to curtail or interrupt their use of gas hereunder when requested to do so by the Company, any gas taken shall be billed at the Firm General Gas Service Rate 70 (excluding the Basic Service Charge), plus either an amount equal to any penalty payment(s) or overrun charges the Company is required to make to its interconnecting pipeline(s) under the terms of its contract(s) as a result of such failure to curtail or interrupt, or \$50.00 per dk of gas used in excess of the volume of gas to which customer was requested to curtail or interrupt, whichever amount is greater. The Company, in its discretion, may shut off customer's supply of gas in the event of the customer's failure to curtail or interrupt use of gas when requested to do so by the Company.
3. **AGREEMENT** - Upon request of the Company, the customer may be required to enter into an agreement for service hereunder. If mutually agreed to by the Company and the customer, the term of service reflected in such agreement may be amended. Upon expiration of service, the customer may apply for and receive, at the sole discretion of the Company, gas service under another appropriate rate schedule for the customer's operations.

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## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 2  
Original Sheet No. 62

### LARGE INTERRUPTIBLE GENERAL GAS SERVICE Rate 85

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4. OBLIGATION TO NOTIFY COMPANY OF CHANGE IN DAILY OPERATIONS – The customer will be required as specified in the service agreement to notify the Company of an anticipated change in daily operations. Failure to comply with requirements specified in the service agreement may result in the assessment of penalties to the customer equal to the penalty amounts the Company must pay to the interconnecting pipeline caused by the customer's action.
5. METERING REQUIREMENTS - Remote data acquisition equipment (telemetry equipment) required by the Company for a single customer installation for daily measurement will be installed by the Company, prior to the initiation of service hereunder.

The customer may be required, upon consultation with the Company, to contribute towards additional metering equipment necessary for daily measurement by the Company, depending on the location of the customer to the Company's network facilities. This would include customers located in remote areas or in areas with topography that does not allow for transmission of information to existing telemetry equipment infrastructure. Enhancements and/or modifications to these services may be required to ensure equipment functionality. Such enhancements or modifications shall be completed at the direction of the Company with all associated costs the customer's responsibility. Any interruption in such services must be promptly remedied or service under this tariff will be suspended until satisfactory corrections have been made.

Consultation between the customer and the Company regarding telemetry requirements shall occur prior to execution of the required service agreement.

6. RULES - The foregoing schedule is subject to Rates 100 through 136 and any amendments or alterations thereto or additional rules and regulations promulgated by the Company under the laws of the state.

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## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 2  
Original Sheet No. 70

### **PURCHASED GAS COST ADJUSTMENT** **Rate 88**

Page 1 of 6

#### **1. Applicability:**

This rate schedule constitutes a Purchased Gas Cost Adjustment (PGA) provision and specifies the procedure to be utilized to adjust the rates for gas sold under Montana-Dakota's rate schedules in order to reflect: (a) changes in Montana-Dakota's average cost of gas supply and (b) amortization of the Unrecovered Purchase Gas Cost Account.

#### **2. Effective Date and Limitation on Adjustments:**

- (a) The effective dates of the PGA shall be service rendered on and after the first day of each month, unless the Commission shall otherwise order.
- (b) Montana-Dakota shall file an adjustment to reflect changes in its average cost of gas supply only when the amount of such adjustment is at least 25 (twenty-five) cents per dk. The adjustment to be effective October 1 shall be filed each year, regardless of the amount of the change.

#### **3. Purchased Gas Cost Adjustment:**

- (a) The monthly PGA shall reflect changes in Montana-Dakota's cost of gas supply as compared to the cost of gas supply approved in its most recent PGA. The cost of gas supply shall be the sum of all prudent costs incurred in obtaining gas for general system supply. General system supply is defined as gas available for use by all customers served under retail sales rate schedules. The cost of gas supply shall include, but not be limited to, all demand, commodity, storage, gathering, and transportation charges incurred by Montana-Dakota for such gas supply; the revenue requirement at the authorized Wyoming return on prepaid demand and commodity charges and gas storage balances, required to maintain the system gas supply; and hedging program gains, losses and transaction costs related to system gas supply.
- (b) The PGA shall be computed as follows:
  - (1) Demand costs shall include all annual gathering, transportation and storage demand charges at current rates.

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# Montana-Dakota Utilities Co.

*A Subsidiary of MDU Resources Group, Inc.*

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

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### **PURCHASED GAS COST ADJUSTMENT** **Rate 88**

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- (2) Commodity costs shall include all annual gathering, transportation and storage charges at current rates.
- (3) The gas commodity cost shall reflect all commodity related gas costs estimated to be in effect for the month the PGA will be in effect and annual dk requirements.
- (4) The return on prepaid demand and commodity balances and storage balances shall reflect the revenue requirement on the average of the thirteen monthly balances. The revenue requirement shall be calculated by multiplying the average balance by the authorized rate of return, as adjusted for Federal income taxes on the equity component of the capital structure.

The cost per dk for the month is the sum of the above divided by annual, weather normalized dk deliveries for the most recent twelve month period adjusted to reflect losses.

- (c) Monthly gas costs shall be calculated as follows:
  - (1) Demand costs shall be apportioned to all state jurisdictions served by Montana-Dakota on the basis of the overall ratio of each state's Maximum Daily Delivery Quantity (MDDQ).
  - (2) All commodity costs and other costs associated with the acquisition of gas for general system supply shall be apportioned to each state on the basis of total dks sold in each state, regardless of the actual points of delivery of such gas.
  - (3) The revenue requirement related to prepaid demand and commodity charges and gas storage balances shall be included on a per dk basis. The prepaid demand and storage balances shall be apportioned to all states on the basis of each state's MDDQ. The prepaid commodity charges shall be apportioned to

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all states on the basis of annual dks sold in each state. The unit cost shall be calculated using a thirteen month average balance by multiplying the average balance by the authorized rate of return as adjusted for Federal income taxes on the equity component of the capital structure. The resulting revenue requirement shall be divided by the weather normalized dk deliveries for the most recent twelve month period adjusted to reflect losses.

- (4) All costs related to specific end-use transactions shall not be included in the cost of gas supply determination but shall be directly billed to the customer(s) contracting for such service.
- (d) The PGA shall be uniformly applied to all of Montana-Dakota's rate schedules pursuant to the Commission's Order in Docket No. 9458 Sub 91.

#### **4. Surcharge Adjustment:**

All sales rate schedules shall be subject to a Surcharge Adjustment to be effective on October 1 of each year. The Surcharge Adjustment per dk sold shall reflect amortization of the applicable balance in the Unrecovered Purchased Gas Cost Account calculated by dividing the applicable balance by the estimated dk sales for the twelve months following the effective date of the adjustment.

#### **5. Unrecovered Purchased Gas Cost Account:**

- (a) Items to be included in the Unrecovered Purchased Gas Cost Account, as calculated in accordance with Subsection 5(b) are:
  - (1) Charges for gas supply which Montana-Dakota is unable to reflect in a Purchased Gas Cost Adjustment by reason of the twenty-five cent minimum limitation set forth in Subsection 2(b).

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- (2) Amounts of increased/decreased charges for gas supplies which were paid during any period after the effective date of the most recent PGA, but not yet included in sales rates.
- (3) Refunds received from supplier(s) with respect to gas supply. Such refunds received shall be credited to the Unrecovered Purchased Gas Cost Account.
- (4) Capacity release revenue allocated to Wyoming.
- (5) Carrying charges or credits as specified by Subsection 5(b)(2).
- (b) (1) The amount to be included in the Unrecovered Purchased Gas Cost Account in order to reflect the items specified in Subsections 5(a)(1), (2), and (3) shall be calculated as follows:
  - (i) Montana-Dakota shall first determine each month the unit cost for that month's natural gas supply as adjusted to levelize demand charges.

Such adjustment to levelize supplier(s) demand charges shall be calculated as follows:

The suppliers' annual (calendar or fiscal) demand charges, which are payable in equal monthly payments, shall be accumulated in a prepaid account (FERC Account 165). Each month a portion of such accumulated prepaid amount shall be amortized to cost of natural gas purchased (FERC Account 804). Such monthly amortization shall be based on a rate calculated by dividing the annual supplier(s) demand charges by projected annual natural gas sales units (calendar or fiscal, as appropriate). The resulting per unit rate shall then be multiplied by the projected natural gas unit sales for the current month. Such amount shall constitute the monthly

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amortization of prepaid supplier(s) demand charges to cost of natural gas supply.

- (ii) Montana-Dakota shall then subtract from each month's unit cost the unit cost for gas supply which is reflected in the currently effective PGA.
  - (iii) The resulting difference (which may be positive representing an undercollection; which is defined as current gas costs exceeding gas costs recovered in rates; or negative representing an overcollection; which is defined as gas costs recovered in rates exceeding current gas costs) shall be multiplied by the dks sold during that month under each rate schedule. The resulting amounts shall be reflected in an Unrecovered Purchased Gas Cost Account.
  - (iv) In making such calculations, no distinction shall be made in the Unrecovered Purchased Gas Cost Account between the various sales rate schedules.
- (2) Interest will be calculated and credited to Account 191 each month as follows:
- (i) The balance in Account 191, to which interest will apply, will be the balance at the end of the immediately preceding month. Interest will be paid on net overcollections. The Company shall offset any cumulative undercollections against cumulative overcollections in the computation of interest to be paid. Interest shall be credited monthly to Account 191 at one-twelfth of the Commission Authorized Interest Rate described in Chapter 1, Section 2 (a)(xv) of the Wyoming Public Service Commission's Rules.
  - (ii) In no case shall the Company receive interest for net undercollections.

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- (c) Reduction of Amounts in the Unrecovered Purchased Gas Cost Account:
  - (1) The amounts in the Unrecovered Purchased Gas Cost Account shall be decreased each month by an amount determined by multiplying the currently effective surcharge adjustment included in rates for that month (as calculated in Section 4) by the dks sold during that month under each rate schedule. The account shall be increased in the event the adjustment is a negative amount.
  - (2) The amount amortized each month shall be applied pro rata between the amounts in the Unrecovered Purchased Gas Cost Account specified in Subsections 5(a)(1), (2), (3), (4) and the amounts in the Unrecovered Purchased Gas Cost Account specified in Subsection 5(a)(5).

#### **6. Time and Manner of Filing:**

- (a) Each filing by Montana-Dakota shall be made by means of revised PGA and rate schedule tariff sheets identifying the amounts of the adjustments and the resulting currently effective PGA rates. Montana-Dakota shall file to change the PGA at least 20 days prior to the proposed effective date.
- (b) Each filing shall be accompanied by detailed computations which clearly show the derivation of the relevant amounts. Each filing shall contain an accompanying statement that supports the Company's gas acquisition practices as required by the Wyoming Public Service Commission.
- (c) Each filing shall also contain the information necessary to comply with Chapter 3, Section 26 of the Wyoming Public Service Commission's Rules.

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#### I. PURPOSE:

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

The Company undertakes to furnish service subject to the Rules of the Public Service Commission of Wyoming and as supplemented by these general provisions, as now in effect or as may hereafter be lawfully established.

#### II. DEFINITIONS:

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

AGENT – The party authorized by the transportation service customer to act on that customer's behalf.

APPLICANT - A customer requesting Company to provide service.

COMMISSION AND COMMISSIONER - The Public Service Commission of Wyoming or a member thereof respectively.

COMPANY - Montana-Dakota Utilities Co. (Montana-Dakota).

COMPANY'S OPERATING CONVENIENCE - The utilization, under certain circumstances, of facilities or practices not ordinarily employed which contribute to the overall efficiency of Company's operations. This does not refer to the customer's convenience nor to the use of facilities or adoption of practices required to comply with applicable laws, ordinances, rules or regulations, or similar requirements of public authorities.

CURTAILMENT - A reduction of transportation or retail natural gas service deemed necessary by the Company.

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

**DELIVERY POINT** - The point at which customer assumes custody of the gas being transported. This point will normally be at the outlet of the Company's meter(s) located on the customer's premises.

**EXCESS FLOW VALVE** – Safety device designed to automatically stop or restrict the flow of gas if an underground pipe is broken or severed.

**GAS DAY** - Means a period of twenty-four consecutive hours, beginning and ending at 9:00 a.m. Central Clock Time.

**INTERRUPTION** - A cessation of transportation or retail natural gas service deemed necessary by the Company.

**NOMINATION** - The daily dk volume of natural gas requested by customer for transportation and delivery to the customer at the delivery point during a gas day.

**PIPELINE** - The transmission company(s) delivering natural gas into the Company's system.

**RATE** - Shall mean and include every compensation, charge, fare, toll, rental and classification, demanded, observed, charged or collected by the Company for any service, product, or commodity, offered by the Company to the public. This includes rules, regulations, practices or contracts affecting any such compensation, charge, fare, toll, rental or classification.

**RECEIPT POINT** - The intertie between the Company and the interconnecting pipeline(s) at which point the Company assumes custody of the gas being transported.

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SHIPPER – The party with whom the pipeline has entered into a service agreement for transportation services.

#### III. CUSTOMER OBLIGATIONS:

1. APPLICATION FOR SERVICE - A customer desiring gas service must make 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 to a customer or discontinue 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 gas service in the absence of application or contract 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 gas 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 required by the Company in accordance with §V.6.

2. SERVICE AVAILABILITY - Gas will normally be delivered at a standard pressure of four ounces. Delivery of gas service at pressures greater than the standard operating pressure may be available and will require a consultation with the Company to determine availability.
3. INPUT RATING - All new customers whose consumption of gas for any purpose will exceed an input of 2,500,000 Btu per hour, metered at a single delivery point, shall consult with the Company and furnish details of estimated hourly input rates for all gas utilization equipment. Where system design capacity permits, such customers may be served on a firm basis. Where system design capacity is limited, and at the Company's sole discretion, the

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Company will serve all such new customers on an interruptible basis only. Architects, contractors, heating engineers and installers, and all others should consult with the Company before proceeding to design, erect or redesign such installations for the use of natural gas. This will ensure that such equipment will conform to the Company's ability to adequately serve such installations with gas.

4. ACCESS TO CUSTOMER'S PREMISES – The Company's 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.
5. COMPANY PROPERTY – The customers shall exercise reasonable diligence in protecting the Company's property on their premises, and shall be liable to the Company in case of loss or damage caused by their negligence or that of their employees.
6. INTERFERENCE WITH 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.
7. RELOCATED LINES – Where the Company's facilities are located on a public or private utility easement and there is a building encroachment(s) over gas facilities (Company-owned main, Company-owned service line or customer-owned service line) the customer shall be charged for line relocation on the basis of actual costs incurred by the Company, including any required easements or permits.
8. NOTIFICATION OF LEAKS – The customer shall immediately notify the Company at its office of any escape of gas in or about the customer's premises.

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9. **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.
10. **REPORTING REQUIREMENTS** – The customer shall furnish the Company all information as may be required or appropriate to comply with reporting requirements of duly constituted authorities having jurisdiction over the matter herein.
11. **QUALITY OF GAS** - The gas tendered to the Company shall conform to the applicable quality specifications of the Pipeline's tariff which at a minimum shall comport to Chapter 3, Section 1 (c)(iv) of the Commission's Rules.

#### IV. **LIABILITY:**

1. **CONTINUITY OF SERVICE** - The Company will use all reasonable care to provide continuous service but does not assume responsibility for a regular and uninterrupted supply of gas service and will not be liable for any loss, injury, death, or damage resulting from the use of service, or arising from or caused by the interruption or curtailment of the same, except when such loss, injury or damage results from the negligence of the Company.
2. **CUSTOMER'S EQUIPMENT** - Neither by inspection or non-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 or leased by the customer from third parties. The customer is responsible for the proper installation and maintenance of all structures, equipment, lines, appliances, or devices on the customer's side of the point of delivery, and for the natural gas after it passes the point of delivery. The customer must assume the duties of inspecting all structures including the house piping, chimneys, flues and appliances on the customer's side of the point of delivery to ensure all are in working order. It is the Company's

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obligation to supply satisfactory service, and any use of equipment by the customer that prevents the Company from carrying out this obligation must be corrected by the customer.

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 gas or from the presence or operation of the Company's structures, equipment, lines, or devices on the customer's premises, except loss, injuries, death, or damages resulting from the negligence of the Company.
4. **INDEMNIFICATION** – The customer agrees to indemnify and hold the 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 the Company's negligent or wrongful acts under and during the term of service.
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. If volumes of the customer's gas are destroyed while in the Company's

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possession by an event of force majeure, the obligations of the parties shall terminate with respect to the volumes lost.

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 public enemies 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 lines of pipe, line freeze-ups, sudden partial or sudden entire failure of gas 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 authorizations 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.

#### **V. GENERAL TERMS AND CONDITIONS:**

1. **AGREEMENT** - Upon request of the Company, the customer may be required to enter into an agreement for any service.
2. **RATE OPTIONS** - Where more than one rate schedule is available for the same class of service, the Company will assist the customer in selecting the applicable rate schedule(s). The Company is not required to change a

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customer from one rate schedule to another more often than once in twelve months unless there is a material change in the customer's load which alters the availability and/or applicability of such rate(s), or unless a change becomes necessary as a result of an order issued by the Commission or a court having jurisdiction. The Company will not be required to make any change in a fixed term contract except as provided therein.

#### 3. RULES FOR APPLICATION OF GAS SERVICE -

- a. Residential Gas Service is available to any residential customer for domestic purposes only. Residential Gas Service is defined as service for general domestic household purposes in space occupied as living quarters, designed for occupancy by one family with separate cooking facilities. Typical service would include the following: single private residences, single apartments, mobile homes with separate meters and auxiliary buildings on the same premise as the living quarters, used for residential purposes by the residential customer. This is not an all-inclusive list.
- b. Non-residential Gas Service is defined as service provided to a business enterprise in space occupied and operated for non-residential purposes. Typical service would include stores, offices, shops, restaurants, sorority and fraternity houses, boarding houses, hotels, service garages, wholesale houses, filling stations, barber shops, beauty parlors, master metered apartment houses, common areas of shopping malls or apartments (such as halls or basements), churches, elevators, schools and facilities located away from the home site. This is not an all-inclusive list.
- c. The definitions above are based upon the supply of service to the premises in its entirety through a single delivery and metering point. Separate supply for the same customer at other points of consumption shall be separately metered and billed.
- d. If separate metering is not practical for premises using gas for both domestic purposes and for conducting business (or for nonresidential

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# Montana-Dakota Utilities Co.

*A Subsidiary of MDU Resources Group, Inc.*

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

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purposes), the customer will be billed under the predominate use policy. Under this policy, the customer's combined service is billed under the rate (residential or non-residential) applicable to the type of service which constitutes greater than 50% of the total connected load.

- e. These rules will not change the classification of existing customers who were served gas prior to October 1, 1988 except in the event of a different customer taking responsibility for the account.
  - f. Other classes of service furnished by the Company shall be defined in applicable rate schedules or in rules and regulations pertaining thereto. Service to customers for which no specific rate schedule is applicable shall be billed under the nonresidential rates.
- 4. **DISPATCHING** - Transportation customers will adhere to gas dispatching policies and procedures established by the Company to facilitate transportation service. The Company will inform the customer of any changes in dispatching policies that may affect transportation services as they occur.
  - 5. **RULES COVERING GAS SERVICE** - The rules and regulation for providing gas service are in accordance with the Code of Federal Regulations (49CFR Part 192 - Transportation of Natural and Other Gas by Pipeline). Customers needing information in regards to the rules and regulations for providing gas service may contact the Company to discuss by phone or to arrange an appointment at the Company's Sheridan Office to review the Code of Federal Regulations. The customer shall be responsible for compliance with all local, state and federal regulations for all gas piping and appliances located downstream of the outlet of the gas meter.
  - 6. **CUSTOMER DEPOSITS** - The Company may require a deposit from an applicant for gas service (applicant) or an existing customer in accordance with Chapter 3, Section 7 of the Wyoming Public Service Commission's Rules:

The Company may require a deposit to guarantee payment for each service. This deposit shall not be considered as an advance payment of bills but shall

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be held as security for payment of service rendered. The Company may refuse service to an applicant or discontinue service to a customer for failure to comply with customer deposit requirements. The Company shall apply the policies governing customer deposits uniformly.

- a. The Company may require a deposit if:
  - i. A prior service account with the Company remains unpaid and undisputed at the time of application for service;
  - ii. Service from the Company has been discontinued for:
    - A. Nonpayment of any undisputed delinquent bill;
    - B. Failure to reimburse the Company for damages due to the customer's negligent or intentional actions; or
    - C. Acquisition, diversion or use of service without the authorization of or knowledge by the Company.
  - iii. Information provided upon application for service is materially false or a misrepresentation;
  - iv. The application is for initial service with the Company or the applicant did not have service with the Company for a period of at least 12 consecutive months during the past four years;
  - v. The applicant or non-residential customer is unable to pass an objective credit screen. In order to pass the objective credit screen, the applicant or non-residential customer must fulfill one or a combination of the following:
    - A. Received 12 consecutive months of service from the Company, with the undisputed portions of the 12 most recent bills paid in full when due;

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- B. Have a favorable credit rating with a third-party credit reporting agency; or
- C. Receive a favorable credit rating from the Company's financial risk assessment tool.
- vi. The request is for service at an address where a former customer with an undisputed delinquent bill for service still resides or conducts business;
- vii. The applicant for service, or the customer, has been brought within the jurisdiction of the bankruptcy court, or has had a receiver appointed in a state court proceeding, within the five year period immediately preceding the request for service; or
- viii. The Company has determined that it has a significant financial risk in continuing to provide service to a specific non-residential customer. The Company and the customer may attempt to reach a deposit agreement. If the Company and the customer are unable to reach an agreement, the Company shall file a confidential petition requesting expedited review and Commission approval prior to collecting the customer deposit. The petition shall contain the basis for the Company's determination, the amount of deposit sought and sufficient information for the Commission to contact the customer.
- b. Unless otherwise ordered by the Commission, the Company shall not require a deposit as a condition of new or continued utility service based upon any criterion not specifically authorized by the Wyoming Public Service Commission's Rules.
- c. Unless otherwise ordered by the Commission, the required deposit shall not exceed the total amount of the customer's estimated bill for three months of highest use based on the premises' monthly bills during the immediate previous 12-month period. If billing information

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for the immediate previous 12-month period is not available, the deposit will be based on anticipated service characteristics and anticipated load.

- d. The Company shall retain records showing:
  - i. The name and address of each customer making the deposit;
  - ii. The date and amount of the deposit; and
  - iii. Each accounting transaction concerning the deposit.
- e. The Company shall provide the customer a non-assignable receipt or other record of deposit, showing the date and amount received.
- f. The Company shall calculate simple interest on deposits at the Commission Authorized Interest Rate described in Chapter 1, Section 2(a)(xv) of the Wyoming Public Service Commission's Rules. Interest shall apply only to deposits held for at least six months, but shall accrue from the initial date of deposit through the date the deposit is returned to the customer.
- g. The Company may accept a written guarantee from an acceptable guarantor in lieu of a deposit to pay a customer's bill. After the Company has verified the customer's identity, the customer shall agree to permit the Company to provide the customer's account information to the guarantor upon the customer's default.
- h. Deposits and any unpaid interest earned on deposits shall be applied as a credit to the customer's bill, unless requested by the customer to be refunded, when:
  - i. The accrued interest equals or exceeds \$10.00. The Company shall apply the credit at least annually;

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- ii. A residential customer has received 12 consecutive months of service, with no cause to discontinue service; and the customer's bills have been paid when due;
- iii. A commercial or industrial customer has received 12 consecutive months of service, with no cause to discontinue service; the customer's bills have been paid when due; and the customer passes the Company's objective credit screen; or
- iv. Service is discontinued. The Company shall not require the customer to provide the original receipt in order for the deposit to be returned. Any credit balance on the account after the deposit is applied shall be refunded to the customer. If the Company is unable to make the refund due to lack of knowledge of the customer's location, additional interest will not accrue after the service discontinuation date. The Company shall manage such deposits as unclaimed property as required by Wyoming law (W.S. § 34-24-109).

#### 7. METERING AND MEASUREMENT:

- a. Meters and associated devices shall be installed in a reasonable location that is the shortest safe distance to the customer's building, accessible for reading, testing, inspection, removal and where such activities will minimize interference and inconvenience to the customer and the Company. Under no circumstances shall any meter be removed or relocated except by authorized Company personnel. The Company will furnish appropriate metering at the point of connection to the customer. The customer shall provide and maintain, without cost to the Company, a suitable location accessible for metering and installation of equipment required to provide service. The Company has the right to clear its services, connections and rights-of-way of any interfering tree, shrub, or other obstruction or to require the customer to clear and remove the interfering obstruction at the customer's expense.

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- b. All meters furnished by the Company are property of the Company and only Company-authorized personnel shall install, remove, test, adjust or conduct any repair or maintenance work thereon. The Company shall install and maintain at its own expense all equipment necessary to regulate and measure the commodity delivered for billing.
- c. The customer may install, operate and maintain at its sole expense, equipment for the purpose of measuring the amount of natural gas delivered over any measurement period (Customer meter), provided the equipment shall not interfere with such delivery or with the Company's meter.
- d. Each meter will be read by the Company authorized personnel at a minimum of monthly intervals, as nearly as possible on the corresponding day of each month. Bills shall show the meter readings at the beginning and end of the billing period, the date of the meter readings, the units consumed, the class of service and other information necessary to enable the customer to readily re-compute the amount of the bill. Each bill shall bear upon its face the date of the bill and the latest date it may be paid without penalty. An estimated reading may be utilized if a reading cannot be obtained or if it is not feasible to read the meter. Estimated meter readings shall be clearly identified on the bill. The amount of such an estimated bill will be adjusted as necessary when the next actual reading is obtained.
- e. The Company will meter the volume of natural gas delivered to the customer at the delivery point. Such meter measurement will be conclusive upon both parties unless such meter is found to be inaccurate, in which case the quantity supplied to the customer shall be determined by as correct an estimate as it is possible to make, taking into consideration the time of year, the schedule of the customer's operations and other pertinent facts.

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- f. Meter Testing
  - 1. Company's Testing - The Company's ongoing meter testing program is set forth in Rate 136.
  - 2. Customer's Request - Upon request of the customer, the Company will complete a meter test of customer's meter. If the customer requests a test of the accuracy of the Company's meter used on the customer's premises, the following provisions shall apply:
    - i. If the meter has not been tested within 12 months, the Company shall perform the test within a reasonable time without charge to the customer. The Company shall notify the customer of the time when the Company will conduct the test so the customer or the customer's representative may be present.
    - ii. If the meter has been tested within 12 months, the Company shall notify the customer the cost to perform the test. The Company shall notify the customer of the time when the Company will conduct the test.
    - iii. The Company shall promptly advise the customer of the test results.
    - iv. If a meter is found to be in non-compliance with the Company's approved meter testing program, the Company shall refund the payment the customer advanced for the meter test and shall repair or replace the meter. The Company shall also adjust and refund to the customer the overpayment of preceding bills, in accordance with §V.10. No refund is required from the Company except to the customer last served by the meter prior to testing. If the Company has under collected, the customer shall pay the adjusted costs in accordance with §V.10.
    - v. The meter accuracy test charge amount is provided in §VI.1.f.

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- vi. If such test shows the average error of the meter to be 2% or less, the customer will pay for the test if the meter has already been tested within the previous twelve months. See §VI.1.f. for the applicable charges.
  - vii. If a tested meter shows an average error greater than plus or minus 2%, the Company will refund any overbilling, and the customer will pay any underbilling, in accordance with §V.10.
8. MEASUREMENT UNIT FOR BILLING PURPOSES - The measurement unit for billing purposes shall be one (1) decatherm (dk), unless otherwise specified. Billing will be calculated to the nearest one-tenth (1/10) dk. One dk equals 10 therms or 1,000,000 Btu's. Dk's shall be calculated by the application of a thermal factor to the volumes metered. This thermal factor consists of:
- a. An altitude adjustment factor used to convert metered volumes at local sales base pressure to a standard pressure base of 14.73 psia, and
  - b. A Btu adjustment factor used to reflect the heating value of the gas delivered.
9. UNIT OF VOLUME FOR MEASUREMENT –
- a. The standard unit of volume for purpose of measurement shall be one (1) cubic foot of gas at either local sales base pressure or 14.73 psia, as appropriate, and at a temperature base of sixty degrees Fahrenheit (60° F). Local sales base pressure is defined as four (4) ounces per square inch gauge (psig) pressure plus local average atmospheric pressure. The methods below describe the means to convert to this standard:
    - 1. For the majority of customers where natural gas is measured with positive displacement or turbine meters, correction to local sales base pressure shall be made for actual pressure and temperature with factors calculated from Boyle's and Charles' Laws. Boyle's Law states that gas contracts proportionately to pressure increase and expands proportionately to pressure decreases.

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2. Where gas is delivered at 20 psig or more, the deviation of the natural gas from Boyle's Law shall be determined by application of Supercompressibility Factors for Natural Gas. Supercompressibility will be calculated in the corrector using the Pipeline Research Committee International (PRCI) supercompressibility calculation found in the "Manual for the Determination of Supercompressibility Factors for Natural Gas", dated December 1962. For hand-billed accounts, application of supercompressibility factors will be waived on monthly billed volumes of 250 dk or less.

- b. Customers needing more information in regards to Supercompressibility Factors may contact the Company to discuss by phone or to arrange an appointment at the Company's Sheridan Office to review the PRCI publication referenced above.
- c. Each service meter shall clearly indicate the units of measurement. If the Company invoices customers in a different unit of measurement than the service meter indicates, the conversion factor shall be stated on the customer bill. In cases where special types of meters are used or where the readings of a meter must be multiplied by a constant to obtain the units consumed, that information shall be placed on the customer bill. When service is discontinued, a bill for final usage will be processed within 30 days following discontinuance.

#### 10. BILLING ADJUSTMENTS –

- a. In accordance with Wyo. Stat. § 37-2-218, if the Company charged, collected or received any rate or rates in excess of the rates fixed in the Company's tariff, the Company shall immediately refund to the customer the difference between the rates fixed in the tariff and the rates charged, collected or received. This shall also apply to meter errors described in §V.7.
- b. If the Company undercharged a customer as a result of a meter or metering inaccuracy or other continuing problem under the Company's control, the Company may bill the customer in accordance with Wyo. Stat.

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§ 37-2-222, for the amount of unmetered natural gas rendered in the 183 days immediately prior to the date the Company remedies the meter inaccuracy. The typical time period over which the undercharge may be collected shall be 12 consecutive months. The customer may elect to pay over a shorter period, or the Company may allow repayment over a longer period. This shall also apply to meter errors described in §V.7.

#### 11. PRIORITY OF SERVICE AND ALLOCATION OF CAPACITY- Priority of Service from Highest to Lowest

- a. Priority 1 - Firm sales services.
- b. Priority 2 - Small interruptible sales and small interruptible gas transportation service at the maximum rate on a pro rata basis.
- c. Priority 3 - Large interruptible sales and large interruptible transportation service at the maximum rate on a pro rata basis.
- d. Priority 4 - Small interruptible sales and transportation services from the highest rate to the lowest rate on a pro rata basis where equal rates are applicable among customers.
- e. Priority 5 - Large interruptible sales and transportation services from the highest rate to the lowest rate on a pro rata basis where equal rates are applicable among customers.
- f. Priority 6 - Gas scheduled to clear imbalances.

Montana-Dakota shall have the right, in its sole discretion, to deviate from the above schedule when necessary for system operational reasons and if following the above schedule would cause an interruption in service to a customer who is not contributing to an operational problem on Montana-Dakota's system.

Montana-Dakota reserves the right to provide service to customers with a lower priority while service to higher priority customers is being curtailed due to restrictions at a given delivery or receipt point. When such restrictions are eliminated, Montana-Dakota will reinstate sales and/or transportation of gas according to each customer's original priority.

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12. EXCESS FLOW VALVES – In accordance with Federal Pipeline Safety Regulations 49 CFR 192.383, the Company will install an excess flow valve on an existing service line at the customer's request on a mutually agreeable date. The actual cost of the installation will be assessed to the customer. Montana-Dakota will provide a cost estimate to the customer before installing the excess flow valve.
13. LATE PAYMENT - Amounts billed will be considered past due if not paid by the due date shown on the bill. An amount equal to the percentage set forth in §VI.2. will be applied to any unpaid balance existing at the immediate subsequent billing date, provided however, that such amount shall not apply where a bill is in dispute or a formal complaint is being processed. All payments received will apply to the customer's account prior to calculating the late payment charge. Those payments applied shall satisfy the oldest portion of the bill first.
14. RETURNED CHECK CHARGE - A charge as set forth in §VI.1.b. will be collected by the Company for any check not honored by the customer's financial institution for any reason.
15. TAX CLAUSE
  - a. In addition to the charges provided for in the gas 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:
    1. 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.
    2. Any payment under any gas franchise ordinance amounting to more than 1% annually of the gross gas revenue derived by the Company from gas business within the corporate limits of the municipality, political subdivision, or other entity, imposing the payment.

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

#### 16. UTILITY CUSTOMER SERVICES:

- a. The following services will be performed at no charge regardless of the time of performance:
  - 1. Fire and explosions calls.
  - 2. Investigate hazardous condition on customer premises, such as gas leaks, odor complaints, combustion gas fumes.
  - 3. Maintenance or repair of Company-owned facilities on the customer's premises.
  - 4. Pilot relights necessary due to an interruption in gas service deemed to be the Company's responsibility.
- b. The following service calls will be performed at no charge during the Company's normal business hours of 8:00 a.m. to 5:00 p.m. Monday through Friday local time:
  - 1. A reconnection of service to an existing facility (cut-in) or a discontinuation of service (cut-out).
  - 2. Lighting pilots, in connection with establishing service when working cut-in orders.
  - 3. High bills or inadequate service complaints.
  - 4. Location of underground Company facilities for contractors, builders, plumbers, etc.

#### 17. UTILITY SERVICES PERFORMED AFTER NORMAL BUSINESS HOURS – For service requested by customers after the Company's normal business

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hours defined in §V.16.b. and on Saturday, Sunday, or legal holidays, a charge will be made for labor at the overtime service rate plus the cost of any required materials.

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.

18. NOTICE TO DISCONTINUE GAS SERVICE – Customers desiring to have their gas service discontinued shall notify the Company during regular business hours, at least one business day before service is to be discontinued. Such notice shall be by letter or telephone call to the Company's Customer Service Center. Saturdays, Sundays and legal holidays are not considered business days.
19. RECONNECTION FEE FOR SEASONAL OR TEMPORARY CUSTOMER – A customer who requests reconnection of service, at a location where same customer discontinued the same service during the preceding 12-month period, will be charged a reconnection fee as follows:

Residential – The Basic Service Charge applicable during the period service was not being used, as well as the reconnection fee set forth in §VI.1.d. during normal business hours. Standard overtime rates will be applied for reconnecting service after normal business hours.

Non-Residential – The Basic Service Charge applicable during the period while service was not being used. However, the reconnection charge applicable to seasonal business concerns such as irrigation, swimming facilities, grain drying and asphalt processing shall be the Basic Service Charge applicable during the period while service was not being used less the Distribution Delivery Charge revenue collected during the period in-service for usage above the annual authorized usage by rate class (Small Firm General = 151 dk and Large Firm General = 1,211 dk). A reconnection fee as set forth in §VI.1.d. will also apply during normal

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business hours. Standard overtime rates will be applied for reconnecting service after normal business hours.

Transportation customers who cease service and then resume service within the succeeding 12 months shall be subject to a reconnection charge as set forth in §VI.1.e. whenever reinstallation of the required remote data acquisition equipment is necessary.

20. DISCONTINUANCE OF SERVICE FOR NONPAYMENT OF BILLS – All amounts billed for service 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 amounts billed, such service may be discontinued by the Company in accordance with Chapter 3, Section 9 of the Wyoming Public Service Commission's Rules.

- a. Discontinuation Notice – The Company may discontinue service by reason of nonpayment after issuing a disconnect notice and upon not less than 7 days' notice of proposed termination for residential customers and not less than 3 days' notice for nonresidential customers. The disconnect notice will be mailed or delivered to the account holder or by telephone after customer verification and mailed to any third party previously designated by the account holder. Additional notice may be provided electronically. The notice shall contain:
  1. The name of the person whose account is delinquent and the service address to be discontinued;
  2. The amount of the delinquent bill.
  3. The effective date of the notice and the date on or after which service is to be discontinued;
  4. The Company's specific address and telephone number for information regarding how to avoid service discontinuation;

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5. The names of agencies or organizations that have notified the Company that they render assistance to eligible persons who are unable to pay their utility bills; and
  6. A statement advising the customer how to contact the Commission if discontinuation is disputed.
- b. Landlord Account Holders – When the Company is discontinuing service for nonpayment by a landlord, the Company shall post, mail, or deliver to each known tenant a written notice, excluding the dollar amount, informing the tenant only of the impending disconnection and advising each tenant it has 15 days to arrange directly for service, as permitted by the available facilities. The tenant shall not be held responsible for the landlord's delinquent utility billings. The Company will post the notice at a central location on or in the rental building if all tenants cannot be identified.
  - c. The Company will notify the customer that, if prior to the initial date for the disconnection of service, the customer provides the Company with written verification from a health care provider responsible for the care of customer or his/her co-habitants stating that their health or safety would be seriously endangered if service were discontinued, the Company shall extend the date for discontinuation set forth in the notice by 15 days (22 days total) to allow for bill payment.
  - d. The Company shall attempt to make actual contact with the customer either in person or by telephone, after the customer verification, before discontinuing service during the cold weather period of November 1 through April 30.
  - e. The Company shall also provide notice of discontinuation or account delinquency to a third party if the customer or person acting for the customer has requested that the Company do so after the customer identification verification. The Company shall advise the Customer that the right to request third-party notification does not create third-party liability for payment.

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# Montana-Dakota Utilities Co.

*A Subsidiary of MDU Resources Group, Inc.*

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 2  
Original Sheet No. 105

### CONDITIONS OF SERVICE Rate 100

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- f. If the customer defaults, the Company shall provide the discontinuation notice to the guarantor and the customer simultaneously. The guarantor's service shall not be subject to discontinuation as a result of the customer's default.
- g. The Company shall remove a guarantor when:
  - 1. The customer has received 12 consecutive months of service with no cause for discontinuation, bills have been paid when due and the customer passes an objective credit screen;
  - 2. The guarantor has paid all amounts due for service through the date the Company received the request to terminate the guarantor agreement; or
  - 3. An additional agreement with the Company is in place.
- h. Reconnection After Nonpayment - To have service restored after discontinuation of service for nonpayment, a residential or a nonresidential customer must first pay a charge for reconnection as set forth in §VI.1.c., Service Charges, and must also pay the delinquent balance in full or execute a deferred payment agreement, if eligible. The Company may also require a deposit to secure payment of future gas bills. See §V.6 Customer Deposits.
- i. Discontinuation - The Company may discontinue service between 8:00 a.m. to 4:00 p.m., Monday through Thursday if not a legal holiday or the day preceding a legal holiday without further notice when:
  - 1. The notification period has elapsed and the delinquent account has not been paid; or
  - 2. Acceptable payment arrangements have not been made with the Company.

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## State of Wyoming Gas Rate Schedule

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- j. The Company shall assist persons who are unable to pay their natural gas service bills with determining available government assistance.

**21. PROHIBITIONS AGAINST SERVICE DISCONTINUATION** - The Company shall not terminate service for bill nonpayment under the following conditions:

1. On a legal holiday as defined by Wyoming Statute §8-4-101, or the day before such a legal holiday;
2. During the period from December 24 through January 2, inclusive;
3. On any day in which the Company cannot reconnect service;
4. If the customer enters into an arrangement with the Company for payment of the delinquent billing over a reasonable time and the customer complies with payment arrangements;
5. If there are monies owed due to meter or other billing error, and the customer complies with payment arrangements;
6. At a previous address for a different class of service;
7. For nonutility services or appliance or merchandise provided by, or sold by, the Company to the customer;
8. If the customer is paying the gas service bills on time, even though a prior customer with an undisputed delinquent bill for service resides or conducts business at the same address;
9. If a gas service bill, or part of a bill, is legitimately in dispute, and if the customer duly pays the gas service bill, or bill portion, not in dispute;
10. If the temperature for the community closest to the customer's location is forecasted by the National Weather Service or other reputable source to be below 32°F in the impending 48 hours, or if conditions are otherwise especially dangerous to health, and the customer is:

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# Montana-Dakota Utilities Co.

*A Subsidiary of MDU Resources Group, Inc.*

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 2  
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### CONDITIONS OF SERVICE Rate 100

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- a. A residential customer;
  - b. A non-residential customer providing service essential for the protection of public health, safety or welfare; and:
  - c. Unable to pay for service in accordance with the Company's billing requirements and is actively seeking government assistance or has exhausted such assistance; or
  - d. Able to only pay for service in installments; or
11. If a customer pays a bill on time for a specific service at a specific location, even though the customer is receiving another service that is subject to discontinuation for bill nonpayment.

#### 22.DISCONTINUANCE OF SERVICE FOR CAUSES OTHER THAN NONPAYMENT OF BILLS -The Company reserves the right to discontinue service for any of the following reasons:

- a. In the event of customer use of equipment in such a manner as to adversely affect the Company's equipment or service to others.
- b. In the event of tampering with the equipment furnished and owned by the Company.
- c. For violation of or noncompliance with the Company's rules on file with the Commission.
- d. For failure of the customer to fulfill the contractual obligations imposed as conditions of obtaining service.
- e. 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

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# Montana-Dakota Utilities Co.

*A Subsidiary of MDU Resources Group, Inc.*

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 2  
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### CONDITIONS OF SERVICE Rate 100

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- f. The Company may discontinue service for causes other than non-payment after issuing a discontinuance notice in accordance with §V.20 a and §V.20 d. The discontinuation of service for causes other than non-payment may occur on the days and during the hours as stated in §V.20 i.
  - g. 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.
  - h. The Company may discontinue service without advance notice for reasons of safety, health, cooperation with civil authorities, fraudulent use, tampering with or destroying Company facilities.
  - i. The Company may collect a reconnect fee, as prescribed in §VI.1.c. before restoring gas service which has been discontinued for the above causes.
23. UNAUTHORIZED USE OF SERVICE - Unauthorized use of service is defined as any deliberate interference or tampering with a Company meter, pressure regulator, registration, connections, equipment, seals, procedures or records resulting in a loss of revenue to the Company. Unauthorized service includes reconnection of service that has been discontinued, without the Company's consent.
- a. Types of unauthorized use of service includes, but is not limited to, tampering or unauthorized reconnection by the following methods:
    - 1. Bypass piping around meter.
    - 2. Bypass piping installed in place of meter.
    - 3. Meter reversed.
    - 4. Meter index disengaged or removed.
    - 5. Service or equipment tampered with or piping connected ahead of meter.

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### CONDITIONS OF SERVICE Rate 100

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6. Tampering with meter or pressure regulator that affects the accurate registration of gas usage.
  7. Gas being used after service has been discontinued by the Company.
  8. Gas being used after service has been discontinued by the Company as a result of a new customer turning gas on without the proper connect request.
- b. Any charges for damage to Company property will be billed to the customer. The customer may also be charged for:
1. Time, material and transportation costs used in investigation or surveillance.
  2. Estimated charge for non-metered gas.
  3. On-premise time to correct situation.
  4. A minimum fee of \$30.00 will apply, VI (1)(c).
- All such charges shall be at current standard or customary amounts being charged for similar services, equipment, facilities and labor by the Company.
- c. Reconnection of Service:  
Customer service discontinued for any of the above reasons shall be reconnected after a customer has furnished satisfactory evidence of compliance with Company's rules and conditions of service, and paid any service charges which are due, including:
1. All delinquent bills, if any;
  2. The amount of any Company revenue loss attributable to said unauthorized use of service;
  3. Expenses incurred by the Company in replacing or repairing the meter or other equipment, costs incurred in preparation of the bill, and costs outlined in paragraph b. above;
  4. Applicable Reconnection fee; and
  5. A cash deposit, the amount of which will not exceed the maximum amount determined in accordance with §V.6 Customer Deposits.

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# Montana-Dakota Utilities Co.

*A Subsidiary of MDU Resources Group, Inc.*

400 N 4<sup>th</sup> Street  
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## State of Wyoming Gas Rate Schedule

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W.P.S.C. Tariff No. 2  
Original Sheet No. 110

### CONDITIONS OF SERVICE Rate 100

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24. RATE FOR 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 percent.
25. REFUSAL TO SERVE NEW CUSTOMERS OR EXPAND EXISTING SERVICE – The Company may refuse to provide, expand or materially change service to a requesting customer when:
- a. The Company does not have adequate facilities to render the service requested and the customer is not willing to comply with the Company's gas service extension policy tariffs.
  - b. The requested service appears to be unsafe or likely to adversely affect service to another customer; or
  - c. The requesting customer is indebted to the utility for service previously rendered and satisfactory payment arrangements have not been made with the Company.
    1. If indebtedness for service rendered at a former location is in dispute, the requesting customer shall be provided service at the new location upon complying with the Company's deposit requirements and paying the amount in dispute. Upon settlement of the disputed amount, any balance due the customer shall be refunded with accrued interest at the Commission Authorized Interest Rate described in Chapter 1, Section 2(a)(xv) of the Wyoming Public Service Commission's Rules.
    2. The Company shall not refuse service to a new customer because of debts of a previous customer at the same location.
    3. The Company may refuse service due to unpaid line extension charges for facilities serving the location.

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# Montana-Dakota Utilities Co.

A Subsidiary of MDU Resources Group, Inc.

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 2

2<sup>nd</sup> Revised Sheet No. 111

Canceling 1<sup>st</sup> Revised Sheet No. 111

### CONDITIONS OF SERVICE

#### Rate 100

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#### 26. SEE ALSO THE FOLLOWING RATES FOR SPECIAL PROVISIONS:

- Rate 119 - Interruptible Gas Service Extension Policy
- Rate 120 - Firm Gas Service Extension Policy
- Rate 122 - AutoPay Plan
- Rate 124 - Replacement, Relocation and Repair of Gas Service Lines
- Rate 125 - Balanced Billing Plan
- Rate 136 - Rule Covering Company Meter Testing Program

### VI. MISCELLANEOUS CHARGES

	Amount or Reference
1. Service Charges	
a. Consumer deposits	\$V.6.
b. Returned check	\$30.00
c. Reconnect charge after discontinuation of service for nonpayment or other causes	
- During normal business hours 8:00 a.m. - 5:00 p.m. local time	\$30.00
- After normal business hours	Minimum of \$140.00
d. Minimum reconnect charge applicable to seasonal or temporary customers (See Rate 100 §V.19)	
- During normal business hours	\$30.00 minimum
- After normal business hours	Minimum of \$140.00
e. Reconnection charge applicable to transport customers when electronic metering must be reinstalled	\$160.00

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# Montana-Dakota Utilities Co.

A Subsidiary of MDU Resources Group, Inc.

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 2  
1<sup>st</sup> Revised Sheet No. 112  
Canceling Original Sheet No. 112

### CONDITIONS OF SERVICE Rate 100

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- f. Special test of meter at customer's request (see Rate 100 §V.7f.2. as to when this charge is applicable)
- |  |   |
|--|---|
| - Meter error more than $\pm 2\%$  | None                                    |
| - Meter error within $\pm 2\%$ and meter was tested within the prior 12 months | Labor & materials<br>Minimum of \$30.00 |
- g. Service request after normal business hours
- |  |  |
|--|--|
|  | Materials & Labor<br>Minimum of \$140.00 |
|--|--|
- h. Firm service main extension
- |  |          |
|--|----------|
|  | Rate 120 |
|--|----------|
- i. Interruptible service main extension
- |  |          |
|--|----------|
|  | Rate 119 |
|--|----------|

	<u>Per Month</u>	<u>Approx. Annual Percent</u>
2. Late Payment Charges – Undisputed (on unpaid balance)	1%	12%

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# Montana-Dakota Utilities Co.

*A Subsidiary of MDU Resources Group, Inc.*

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 2  
Original Sheet No. 120

### **INTERRUPTIBLE GAS SERVICE EXTENSION POLICY Rate 119**

Page 1 of 2

The policy of Montana-Dakota Utilities Co. for gas extensions necessary to provide interruptible sales or interruptible transportation service to customers is as follows:

1. Contribution
  - a. Prior to construction, the customer shall contribute an amount equal to the total cost of construction including all gas main extensions, valves, service line(s), cathodic protection equipment, regulators, meters (excluding remote data acquisition equipment), any required payments made by the Company to the transmission pipeline to accommodate the extensions, and other costs as adjusted for federal and state income taxes.
  - b. The contribution shall be made by:
    - i. A one-time payment prior to construction, or
    - ii. The customer may post a bond, irrevocable letter of credit, or a written guarantee commitment in the amount of the total contribution required prior to construction. Such bond, issued by a bonding company authorized to do business in the state, letter of credit, or written guarantee commitment, shall be effective for a five-year period commencing at the plant in service date, and is subject to approval and acceptance by the Company. If at the end of the original five-year term, a contribution requirement exists for the subject project, the surety or guarantor shall pay the Company for such contribution requirement, or
    - iii. Customer, upon approval by Company, may finance the amount of the required contribution subject to the following conditions: 1) maximum contribution to be financed shall be determined by the Company at its sole discretion, 2) maximum term shall be five years, 3) interest will be charged at the Company's current cost of debt determined at the time of construction.

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# Montana-Dakota Utilities Co.

*A Subsidiary of MDU Resources Group, Inc.*

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 2  
Original Sheet No. 121

### INTERRUPTIBLE GAS SERVICE EXTENSION POLICY Rate 119

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- c. Upon completion of construction, the contribution amount will be adjusted to reflect actual costs, and an additional charge may be levied or a refund may be made.
  - d. Remote data acquisition equipment costs shall be subject to the terms and conditions specified in Transportation Service Rates 81 and 82.
2. Refund
- a. If within the five-year period from the extension(s) in service date, the total of the customer's contribution and actual margin paid to the Company equals or exceeds the total present value of the revenue requirement associated with the extension, Company shall refund the amount exceeding the revenue requirement on the following basis:
    - i. Annually, beginning at the 2nd anniversary of the extension(s) in-service date, the Company will refund to the customer, the amount exceeding the total present value of the revenue requirement at a rate of 50% of the current year margin associated with the customer's actual throughput.
    - ii. Customers who have posted a bond, letter of credit, or a written guarantee commitment will be notified of any reduction in surety or guarantee requirements based on the above calculation.
    - iii. No refunds will be made for amounts less than \$25.
  - b. Interest will be calculated annually by the Company on any refund amounts and shall be equal to the Commission Authorized Interest Rate in Chapter 1, Section 2(a)(xv) of the Wyoming Public Service Commission's Rules.
  - c. No refund shall be made by the Company after the five-year refund period has expired, and in no case shall the refund, excluding interest, exceed the amount of contribution made by the customer.

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A Subsidiary of MDU Resources Group, Inc.

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Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 2  
Original Sheet No. 130

### FIRM GAS SERVICE EXTENSION POLICY Rate 120

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The policy of Montana-Dakota Utilities Co. for gas extensions necessary to provide firm sales or firm transportation service to customers is as follows:

#### A. General Rules Applicable to all Firm Service Extensions

1. An extension will be constructed without a contribution if the estimated capital expenditure is cost justified as defined in Paragraph B.
2. The Company may require customer or developer cost participation if the estimated capital expenditure is not cost justified as specified in Paragraph B.
3. The extension will be considered cost justified if the calculated Maximum Allowable Investment equals or exceeds the estimated capital expenditure using the following formula:

Maximum Allowable Investment =

$$\frac{(\text{Annual Basic Service Charge} + (\text{Project Estimated Annual Dk x} \\ \text{Distribution Delivery Charge}))}{\text{Levelized Annual Revenue Requirement Factor}}$$

Levelized Annual Revenue Requirement Factor is defined as the annual rate required to recover the present value of a project over the life of a project. The Levelized Annual Revenue Requirement Factor – 13.313%

4. Cost of the extension shall include the gas main extension(s), valves, service line(s), cathodic protection equipment, any required payments made by the Company to the transmission pipeline company to accommodate the extension(s), and other costs up to, and including, the riser.

The service line is that portion of the gas service extending from the gas main to the connection at the house regulator and/or meter.

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A Subsidiary of MDU Resources Group, Inc.

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Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 2  
Original Sheet No. 131

### FIRM GAS SERVICE EXTENSION POLICY Rate 120

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5. Where cost participation is required, such extension is subject to execution of the Company's standard agreement for extensions by the customer or the developer and Company.
6. A refund will be made in accordance with §B.2. a-c as required within a five-year period from the extension(s) in service date. Interest will be calculated annually by the Company on any refund amounts and shall be equal to the interest rate applicable to customer deposits as established in Chapter 1, Section 2(a)(xv) of the Wyoming Public Service Commission's Rules.

No refund shall be made by Company after the five-year refund period and in no case shall the refund excluding interest, exceed the amount of the contribution.

7. The Company reserves the right to charge customer the cost associated with providing service to customer if service is not initiated within 12 months of such installation.

#### B. Customer Extensions

Cost participation for extensions where customers will be immediately available for service is as follows:

1. Contribution –
  - a. When a contribution is required, the customer(s) shall pay the Company the portion of the capital expenditure exceeding the footage allowance or Maximum Allowable Investment as determined in accordance with Paragraph B.
  - b. The contribution shall be made by:
    - i. A one-time payment prior to construction, or

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# Montana-Dakota Utilities Co.

*A Subsidiary of MDU Resources Group, Inc.*

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 2  
Original Sheet No. 132

### FIRM GAS SERVICE EXTENSION POLICY Rate 120

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- ii. Payment of 25% of the contribution prior to construction and the balance in no more than twenty-four equal monthly installments. If customer discontinues service within the twenty-four month period, the balance will be due and payable upon discontinuance of service, or
  - iii. Customer may post a bond, irrevocable letter of credit, or a written guarantee commitment in the amount of the required contribution prior to construction. Such bond, issued by a bonding company authorized to do business in the state, letter of credit, or written guarantee commitment, shall be effective for the original five-year term and is subject to approval and acceptance by the Company. If at the end of the original five-year term, a contribution requirement exists in the subject project based on a recalculated maximum expenditure, the surety or guarantor shall reimburse the Company for such recalculated contribution requirement, or
  - iv. Customer, upon approval by Company, may finance with the Company the amount of the required contribution subject to the following conditions: 1) maximum contribution to be financed shall be determined by the Company at its sole discretion, 2) maximum term shall be five years, 3) interest will be charged at the Company's current cost of debt determined at the time of construction.
- c. Upon completion of construction, the contribution amount will be adjusted to reflect actual footage or installed costs, and an additional charge may be levied or a refund may be made.
  - d. If within the five-year period from the extension(s) in service date, the number of active customers and/or related volumes exceeds the projections, the Company shall recompute the contribution requirement.

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A Subsidiary of MDU Resources Group, Inc.

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Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

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Original Sheet No. 133

### FIRM GAS SERVICE EXTENSION POLICY Rate 120

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- e. The recalculated contribution requirement shall be collected from the new applicant(s).
- 2. Refund -
  - a. The Company will refund to the original contributor(s) the amount required to reduce their contribution to the recalculated contribution requirement as defined in Paragraph 1.d. and 1.e. above. No refunds will be made for amounts less than \$25. Customers who have posted a bond, letter of credit, or written guarantee commitment will be notified of any reduction in surety or guarantee requirements.
  - b. No refunds will be made until the new applicants begin taking service from the Company.
  - c. If the addition of new customers will increase the contribution required from existing customer(s), the extension will be considered a new extension and treated separately.
- 3. Incremental Extension Surcharge -
  - a. The Company, in its sole discretion, may offer an Incremental Extension Surcharge (Surcharge) to groups of customers requesting service totaling 10 or more when the total estimated cost would otherwise have been prohibitive under the Company's present rates and gas service extension policy. The contribution requirement to be collected under the Surcharge shall be the amount of the capital expenditure in excess of the Maximum Allowable Investment determined in accordance with Paragraph A.3.
    - i. A minimum up-front payment of \$100.00 will be collected from each customer who signs an agreement to participate in the expansion.

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W.P.S.C. Tariff No. 2  
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### FIRM GAS SERVICE EXTENSION POLICY Rate 120

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- ii. For projects that are expected to be recovered within a 5-year period, the Surcharge shall be set at a fixed monthly charge of \$5.00 per month plus \$1.50 per dk.
- iii. For projects that are not expected to be recovered within a 5-year period, the Surcharge shall be set at a fixed monthly charge of \$5.00 per month plus a volumetric surcharge designed to provide recovery of the contribution requirement in a 5-year period.
- b. The Surcharge shall remain in effect until the net present value of the contribution requirement, calculated using a discount rate equal to the overall rate of return authorized in the last rate case, is collected.
- c. The Surcharge shall apply to all customers connecting to natural gas service within the extension area until the contribution requirement is satisfied.
- d. The net present value of the Surcharge will be treated as a contribution-in-aid of construction for accounting purposes.

#### C. Developer Extensions

Cost participation may be required for extensions such as a subdivision or mobile home court, in which a developer is installing roads, utilities, etc., before housing is built.

- 1. Contribution –
  - a. When a contribution is required, the developer shall pay the Company the portion of the capital expenditure exceeding the Maximum Allowable Investment as determined in accordance with Paragraph B.2.

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## State of Wyoming Gas Rate Schedule

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### FIRM GAS SERVICE EXTENSION POLICY Rate 120

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- b. The contribution shall be made by:
    - i. A one-time payment prior to construction, or
    - ii. Developer may post a bond, irrevocable letter of credit, or a written guarantee commitment in the amount of the required contribution prior to construction. Such bond, issued by a bonding company authorized to do business in the state, letter of credit, or a written guarantee commitment, shall be effective for the original five-year term and is subject to approval and acceptance by the Company. If at the end of the original five-year term, a contribution requirement exists in the subject project based on a recalculated maximum expenditure, the surety shall reimburse the Company for such recalculated contribution requirement, or
    - iii. Customer, upon approval by Company, may finance with the Company the amount of the required contribution subject to the following conditions: 1) maximum contribution to be financed shall be determined by the Company at its sole discretion, 2) maximum term shall be five years, 3) interest will be charged at the Company's current cost of debt determined at the time of construction.
  - c. Upon completion of construction, the contribution amount will be adjusted to reflect actual installed costs, and an additional charge may be levied or a refund may be made.
2. Refund -
- a. If within the five-year period from the extension(s) in service date, the number of active customers and related volumes exceeds the projections, the Company shall recompute the contribution requirement by recalculating the Maximum Allowable Investment. Such recalculation shall be done annually based upon the anniversary of the extension(s) in service date.

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# Montana-Dakota Utilities Co.

*A Subsidiary of MDU Resources Group, Inc.*

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

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W.P.S.C. Tariff No. 2  
Original Sheet No. 136

### **FIRM GAS SERVICE EXTENSION POLICY Rate 120**

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Page 7 of 7

- b. The Company will refund to the developer the amount required to reduce their contribution to the recalculated contribution requirement. No refunds will be made for amounts less than \$25. Developers who have posted a bond, letter of credit, or written guarantee commitment will be notified of any reduction in surety or guarantee requirements.
- c. If the addition of new customer(s) will increase the contribution required from the developer, the extension will be considered a new extension and treated separately.

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# Montana-Dakota Utilities Co.

*A Subsidiary of MDU Resources Group, Inc.*

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

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W.P.S.C. Tariff No. 2  
1<sup>st</sup> Revised Sheet No. 140  
Canceling Original Sheet No. 140

### **AUTOPAY PLAN Rate 122**

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Page 1 of 1

#### **Availability:**

The AutoPay Plan provides customers the option to automatically have their gas service bill, including miscellaneous charges, deducted from their checking account. This option is available in all communities served by the Company to all customers who voluntarily agree to participate in the AutoPay Plan and who have not issued two or more NSF checks to the Company in the preceding 12 month period and are not currently utilizing the Low Income Energy Assistance Program (LIEAP).

#### **General Terms and Conditions:**

1. All provisions set forth in customer's otherwise applicable standard rate schedule shall apply.
2. The Company will issue a bill each month to the customer.
3. The bill will indicate that the amount shown in the "Amount Due" column will be automatically deducted from the customer's checking account each month on the due date indicated on the customer's bill.
4. All customers who accept the AutoPay Plan shall sign an authorization form.
5. The Company has the right to remove a customer from the AutoPay Plan if the financial institution has advised the Company of two NSF check instances within the preceding 12 month period. Thereafter, customer shall be again eligible to participate in the AutoPay Plan in the future providing that the customer has complied with the "Availability" section above.
6. Customers utilizing the AutoPay Plan who subsequently use the LIEAP will be removed from the AutoPay Plan by the Company.
7. The customer may cancel the use of the AutoPay Plan option by notifying the Company in writing.

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# Montana-Dakota Utilities Co.

*A Subsidiary of MDU Resources Group, Inc.*

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

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W.P.S.C. Tariff No. 2  
Original Sheet No. 150

### **REPLACEMENT, RELOCATION AND REPAIR OF GAS SERVICE LINES Rate 124**

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Page 1 of 1

1. Where service line location changes are required due to building encroachments (a building is being constructed or is already located over a service line, etc.), the customer, shall be charged on the basis of direct costs incurred by the Company.
2. Whenever a service line is damaged by the customer or someone under the employ of the customer necessitating the service line to be either repaired or replaced by the Company in whole or in substantial part, such work shall be charged for on a direct cost basis. If the damage was caused by independent contractors, not in the employ of the customer, the charges shall be billed directly to such contractor.
3. Service line changes necessary to increase the size and capacity of an existing service line because of increased demand shall be treated in accordance with the Firm Gas Service Extension Policy Rate 120.

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# Montana-Dakota Utilities Co.

A Subsidiary of MDU Resources Group, Inc.

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 2  
Original Sheet No. 160

### BALANCED BILLING PLAN Rate 125

Page 1 of 2

#### 1. SCOPE

- A. The Balanced Billing Plan (Plan) provides gas customers with a method of paying for gas usage to avoid the highs and lows associated with normal monthly billing. The customer's monthly bill is computed by taking an average of the usage during the previous twelve months'. Current energy rates are then applied to this average monthly usage to calculate the current payment due. Qualified customers with less than 12 month's history at their current premises are also allowed to enroll in the Plan.
- B. Monthly bills rendered under this Plan, as indicated in Paragraph A. above, will be based upon a moving average consumption and will normally change each month. The moving average will change slightly each month and thus appropriate dollar adjustments will be made to the billed amount each month.
- C. The provisions of this Plan are applicable to all residential customers and to certain nonresidential gas customers served. Accordingly, the following nonresidential customers do not qualify for this Plan:
  - 1. Industrial, municipal or inter-departmental gas customers.
  - 2. Combination customers who have electric demand meters – neither the gas nor electric usage qualifies for the Plan.
  - 3. Interruptible or otherwise controlled customers.
  - 4. Seasonal, short-term or temporary customers.
  - 5. Customers whose accounts are delinquent and who have not entered into a deferred payment agreement.
  - 6. Customers whose usage patterns are not sufficiently predictable so as to permit estimation on an annual basis with a reasonable degree of certainty.

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# Montana-Dakota Utilities Co.

*A Subsidiary of MDU Resources Group, Inc.*

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

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W.P.S.C. Tariff No. 2  
Original Sheet No. 161

### **BALANCED BILLING PLAN Rate 125**

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Page 2 of 2

#### 2. PROCEDURE

- A. Customers must contact the Company to request enrollment in the Balanced Billing Plan.
- B. If the customer's account is current and otherwise qualifies for enrollment in the Plan as provided in Section 1.C., the customer will be so informed at the time of customer's request and the customer's account record in the Customer Information System will be so coded.
- C. As indicated in Section 1.C.5., customers who are delinquent cannot qualify for the Plan unless they are able to pay any amounts past due or enter into a deferred payment agreement with the Company. The customer agrees to pay a reasonable fixed amount each month in addition to the Balanced Billing Plan payment amount until such arrears are paid in full.
- D. Customers enrolled in the Plan will continue to be billed under the Plan provisions until they request removal or they are sixty days in arrears and are removed from the Plan by the Company.
- E. If a customer desires to be removed from the Plan, the customer must contact the Company to request withdrawal from the Plan. Removal from plan will be effective following contact regarding withdrawal. Upon such removal the total unpaid balance becomes due at the next billing cycle. If a credit balance exists it may be refunded or applied to the next cycle billing, at the customer's discretion.
- F. If a customer is removed from the Plan due to delinquency as indicated above, the total unpaid balance in their account becomes due and payable.

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# Montana-Dakota Utilities Co.

*A Subsidiary of MDU Resources Group, Inc.*

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 2  
Original Sheet No. 170

### **RULE COVERING COMPANY METER TESTING PROGRAM Rate 136**

Page 1 of 4

#### **APPLICABILITY:**

The policy of Montana-Dakota Utilities Co. for the testing of gas meters in compliance with Chapter 3, Section 18 of the Wyoming Public Service Commission's Rules.

#### **NEW METERS:**

1. This meter test schedule shall not apply to meters with capacity in excess of 650 cubic feet per hour (cfh) at 0.5 inch water column (wc). Such meters shall continue to be tested and adjusted or repaired, if necessary, at a periodic interval of at least once in ten years. Meter supplier(s) shall provide test data for all new meters.
2. New meters received from a manufacturer shall be subjected to testing on a random sample basis of five percent (5%) of the total received at full load and light load. If unsatisfactory, all meters in the shipment shall be tested, and repaired if necessary, or the shipment shall be returned to the manufacturer. As new or replacement equipment is placed into service, pertinent information describing and identifying such equipment will be submitted to the Wyoming Public Service Commission.

#### **METER TEST PROGRAM:**

1. All active meters, 650 cfh and smaller, will be combined into a single random test program. The population of meters shall come from the state of Wyoming, North Dakota, Montana and South Dakota. At the time the random selection is made, meters more than ten years old and active meters that have not been tested in the last ten years will be placed into an installation class defined model installation date lot to be part of a random population for testing.
2. All active meters will be assigned to lots on the basis of installation date. The meters to be sampled will be divided into lots based on manufacturer, type, and last install date in five year groups. The minimum number of samples taken from each lot will be as specified by Military Standard No. 414, Sample Procedures and Table for Inspection by Variables for Percent Defective, inspection level IV with specification limits of +/- 2.0%.

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# Montana-Dakota Utilities Co.

*A Subsidiary of MDU Resources Group, Inc.*

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 2  
Original Sheet No. 171

### **RULE COVERING COMPANY METER TESTING PROGRAM Rate 136**

Page 2 of 4

3. The meters tested within the random test program will include meters selected via a computer generation random selection process and meters pulled from the customers' premises in correlation with service technicians being on-site for other service related work not including meter testing requested by the customer or initiated by the Company.
4. Lot acceptability will be determined by the standard deviation method based on single sample, double specification limit, variability unknown, for an acceptable quality level of 15% as follows:
  - a. A meter lot for which the sample is satisfactory will remain in service.
  - b. A meter lot for which the sample fails may remain in service if it passed the previous year and if no more than 10% of the sample registers over 102%.
  - c. A meter lot for which the sample fails will be removed if the lot failed the previous year or if more than 10% of the sample registers over 102%.
    - i. If evaluation determines the group is homogeneous, then the entire group will be removed.
    - ii. If group is not homogeneous and a subset of the group is found defective, that subset will be removed. A failed lot of meters will be removed from service for testing and repair within one year.
5. The Company will report the results of the meter test program annually. The test period will cover the fiscal year July 1 to June 30 with a report available to the Commission by December of each year.

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# Montana-Dakota Utilities Co.

A Subsidiary of MDU Resources Group, Inc.

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 2  
1<sup>st</sup> Revised Sheet No. 172  
Canceling Original Sheet No. 172

### RULE COVERING COMPANY METER TESTING PROGRAM Rate 136

Page 3 of 4

#### METER TEST EQUIPMENT:

<u>TYPE</u>	<u>MANUFACTURER</u>	<u>USED FOR</u>	<u>DEGREE OF ACCURACY</u>	<u>CALIBRATION INTERVAL</u>
Snap Series III	American (Ser. No. XU-3097)	Gas Meter Standard	±0.13%	36 Months
Snap Series III	American (Ser. No. XU-3403)	Gas Meter Standard	±0.13%	36 Months
Snap Series III	American (Ser. No. L61108-238)	Gas Meter Standard	±0.13%	36 Months
Model 6	Dresser (Ser. No. 9325089/9325158)	Gas Meter Standard	+0.55%	5 Years
Model 6	Dresser (Ser. No. 9390008/9390014)	Gas Meter Standard	+0.55%	5 Years

1. The interval for the calibration of above listed test equipment is 3 years for the Snap provers and 5 years for the Model 6 prover. The test equipment is either sent to the factory to be calibrated or a factory representative comes on site to calibrate the test equipment.
2. The factors that influence the accuracy are temperature and humidity. Since the testing is conducted indoors where temperature is maintained well within the range of 55 and 85 degrees F° and humidity is maintained below 90%, the test equipment maintains accuracy during the testing of meters.
3. All apparatus used for test and calibration purposes shall be cared for and maintained as recommended in the manufacturer's operating and

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# Montana-Dakota Utilities Co.

*A Subsidiary of MDU Resources Group, Inc.*

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 2

1<sup>st</sup> Revised Sheet No. 173

Canceling Original Sheet No. 173

### **RULE COVERING COMPANY METER TESTING PROGRAM**

#### **Rate 136**

Page 4 of 4

maintenance manuals. Appropriate carrying cases designed for the purpose shall be used when such equipment is transported to or from its normal service location for the purposes of performing tests, normal maintenance repairs, or recalibration.

4. Meters and other equipment which will be used as a reference standard to certify other equipment shall be kept in a temperature stable environment, and shall be calibrated annually except as otherwise stated herein. Bell provers, transfer provers or sonic nozzles shall be recertified at not more than five-year intervals and after being moved or dimensionally altered. Recertification shall be accomplished by use of standard-cubic foot bottles, by strapping or by optical measurement techniques, the latter being the preferable method.
5. Meters and other equipment which are used as a reference standard shall only be used for calibration purposes, and shall not be used for trouble shooting, corrective maintenance or any other activity which might jeopardize the integrity of the instrument for calibration accuracy. Calibrating meters equate a cubic foot of gas with the amount of gas that occupies one cubic foot, dry, at 60° F at 14.73 pounds per square inch absolute.
6. Calibration of the items used by the utility for reference standards shall be accomplished by an instrument with a higher degree of accuracy than the item being calibrated with the accuracy of said instrument being traceable to the National Institute of Standards and Technology (NIST).
7. Whenever any gas meter is tested, the test record shall be preserved, including the information necessary for identifying the meter, the reason for making the test, the reading of the meter upon removal from service and the result of the test, together with all data taken at the time of the test in sufficiently complete form to permit the convenient checking of the methods employed and the calculations. The record shall be kept for the life of the meter. The standard used to make this test shall be in a current calibration status. Each item of portable test equipment shall be marked with a tag or adhesive label to show the last calibration date.

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# Montana-Dakota Utilities Co.

*A Subsidiary of MDU Resources Group, Inc.*

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

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W.P.S.C. Tariff No. 2  
Original Sheet No. 180

### **SERVICE INTERRUPTION REPORTING PLAN Rate 137**

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Page 1 of 4

The following sets forth the Company's Service Interruptions and Reporting Plan as required in Chapter 3, Sections 3, 27, and 28 of the Wyoming Public Service Commission (Commission) Rules, applicable to service provided by the Company in its Wyoming service territories.

- A. The Company shall make all reasonable efforts to avoid interruptions of service and, when interruptions occur, the Company shall re-establish service in a timely and safe manner.
- B. The Company shall submit a written, confidential list of contact names and telephone numbers to be used when a service interruption occurs. The list shall:
  - 1. Be resubmitted each January and July, whether or not the contact person(s) have changed since the last submittal
  - 2. Be updated as soon as a contact changes;
  - 3. Include contact information to communicate with individuals who are knowledgeable about service interruptions, the estimated duration and the possible causes of service interruptions; and
  - 4. Include contact information to communicate with individual(s) who are available to confer with the Commission at all times.
- C. The Company shall notify the Commission of all planned major service interruptions at least 48 hours in advance, except in emergencies.
- D. The Company shall make reasonable effort to provide affected customers two business days' notice of a planned service interruption.
- E. The Company shall make reasonable efforts to establish mutual aid agreements with other entities to assist in the recovery of large scale service interruptions, natural disasters or other significant events.

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# Montana-Dakota Utilities Co.

A Subsidiary of MDU Resources Group, Inc.

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 2  
Original Sheet No. 181

### SERVICE INTERRUPTION REPORTING PLAN Rate 137

Page 2 of 4

F. Definitions of Major Service Interruptions – Reportable incidents that will or are likely to produce significant detrimental effects to customers, facilities or public safety shall be reported to the Commission within two hours of the incident by contracting the Commission’s Service Interruption Reporting Telephone (SIRT) number. Reportable Incident shall be defined as:

1. An event that causes loss to the operator or others and results in:
  - a. Estimated property damage of at least \$50,000;
  - b. Death, in-patient hospitalization, damage to the Company’s property which substantially affects service to the public or is otherwise significant in the judgement of the Company;
2. Any incident reportable to the National Response Center:
  - a. An event that involves a release of gas from a pipeline, or of liquefied natural gas, liquefied petroleum gas, refrigerant gas or gas from an LNG facility, and that results in one or more of the following;
    - i. A death, or personal injury necessitating in-patient hospitalization;
    - ii. Estimated property damage of \$50,000 or more, including loss to the operator and others, or both, but excluding cost of gas lost; or
    - iii. Unintentional estimated gas loss of three million cubic feet or more.
  - b. An event that results in an emergency shutdown of an LNG facility. Activation of an emergency shutdown system for reasons other than an actual emergency does not constitute an incident.
3. Any service interruption, planned or otherwise occurring, that results in:
  - a. Loss of service to 25 gas meters or customers, whichever is greater;
  - b. An evacuation that displaces 25 people or more.

G. Commission Notification Requirements:

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# Montana-Dakota Utilities Co.

A Subsidiary of MDU Resources Group, Inc.

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 2  
Original Sheet No. 182

### SERVICE INTERRUPTION REPORTING PLAN Rate 137

Page 3 of 4

1. The Commission will be notified within two (2) hours of the known commencement of a Reportable Incident using the Commission's Service Interruption Reporting Telephone number (SIRT). Within 24 hours, the Company will follow up with an email report or as otherwise directed by the Commission.
2. Reports to the Commission shall include, but not be limited to:
  - a. Location and geographic extent;
  - b. Damage assessment, explaining the risks and likely effects on the public, the utility's customers, other utilities and telecommunications services;
  - c. Date and time the service interruption began;
  - d. Number of customers or individuals affected;
  - e. Cause, if known;
  - f. Estimated time of service restoration and basis for estimate;
  - g. Any deaths or injuries;
  - h. Efforts being undertaken to restore service;
  - i. Efforts being undertaken to assist affected individuals;
  - j. Other governmental agencies notified;
  - k. Contact information for reporting individual(s);
  - l. If the event is ongoing, the time interval until the Commission will be updated; and
  - m. Any other information that may be necessary to assess threats or damage.

#### H. Commission Reporting Requirements:

1. Quarterly reports of all Service Interruptions, other than meter testing or change outs will be filed with the Commission within 30 days after the end of each calendar quarter in conformance with Section 28 of the Wyoming Public Service Commission's Rules.

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# Montana-Dakota Utilities Co.

*A Subsidiary of MDU Resources Group, Inc.*

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

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W.P.S.C. Tariff No. 2  
Original Sheet No. 183

### SERVICE INTERRUPTION REPORTING PLAN Rate 137

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Page 4 of 4

2. These records shall be retained by the Company for a minimum of six years.
3. The Company shall annually review its Service Interruption Reporting Plan with any proposed modifications and definitions of major or minor service interruptions specific to the utility's system, filed with the Commission by May 1. If, after the Company's review, there is no change to the Service Interruption Reporting Plan, the Company shall so notify the Commission by letter by May 1.

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Montana-Dakota Utilities Co.  
Wyoming Natural Gas Tariffs - Proposed  
Docket No. 30013-415-GR-24

**Appendix B**



# Montana-Dakota Utilities Co.

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

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W.P.S.C. Tariff No. 3  
Original Title Sheet

### TITLE SHEET

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WYOMING P.S.C. TARIFF NO. 3

Including  
Schedule of Rates for Natural Gas Service  
and Rules

OF

MONTANA-DAKOTA UTILITIES CO.,

400 N 4th Street

BISMARCK, NORTH DAKOTA 58501

Filed with the

WYOMING PUBLIC SERVICE COMMISSION

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# Montana-Dakota Utilities Co.

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 3  
Original Sheet No. 1

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# Montana-Dakota Utilities Co.

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

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W.P.S.C. Tariff No. 3  
Original Sheet No. 2

### COMMUNITIES SERVED

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#### NATURAL GAS SERVICE

Big Horn  
Buffalo  
Colony  
Cowley

Kaycee  
Lovell  
Powell  
\*Sheridan  
Story

\* Designates District Office

Montana-Dakota Sheridan District Office  
2324 Dry Ranch Road  
Sheridan, WY 82801  
1.800.638.3278

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# Montana-Dakota Utilities Co.

400 N 4th Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 3

Original Sheet No. 3

### RATE SUMMARY SHEET

Page 1 of 1

Rate Schedule	Sheet No.	Basic Service Charge	Distribution Delivery/Demand Charge	Cost of Gas 1/		Total	Total Rate per Dk
				Current Fuel Charge	Surcharge Adjustment		
<b>Residential Rate 60</b>	10	\$0.879 per day	\$0.767	\$4.158	(\$0.562)	\$3.596	\$4.363
<b>Firm General Service Rate 70</b>	20						
Meters rated < 500 cubic feet		\$0.910 per day	\$0.989	\$4.158	(\$0.562)	\$3.596	\$4.585
Meters rated > 500 cubic feet		\$1.826 per day	\$0.786	\$4.158	(\$0.562)	\$3.596	\$4.382
<b>Small Interruptible Gas Rate 71</b>	30	\$150.00 per month					
Maximum			\$0.413	\$4.158	(\$0.562)	\$3.596	\$4.009
Minimum			\$0.077	\$4.158	(\$0.562)	\$3.596	\$3.673
<b>Optional Seasonal Gas Service Rate 72</b>	40						
Meters rated < 500 cubic feet		\$0.910 per day	\$0.989	\$4.720	(\$0.562)	\$4.158	\$5.147
Meters rated > 500 cubic feet		\$1.826 per day	\$0.786	\$4.720	(\$0.562)	\$4.158	\$4.944
<b>Firm General Contracted Demand Service Rate 74</b>	42						
Meters rated < 500 cubic feet		\$0.910 per day					
Meters rated > 500 cubic feet		\$1.826 per day					
Distribution Demand Charge			\$6.890				\$6.890
Cost of Gas							
Capacity Charge							
<b>Transportation Service</b>							
Small Interruptible Rate 81	50	\$150.00 per month					
Maximum			\$0.413				\$0.413
Minimum			\$0.077				\$0.077
Large Interruptible Rate 82		\$415.00 per month					
Maximum			\$0.140				\$0.140
Minimum			\$0.035				\$0.035
<b>Large Interruptible Gas Rate 85</b>	60	\$415.00 per month					
Maximum			\$0.140	\$4.158	(\$0.562)	\$3.596	\$3.736
Minimum			\$0.035	\$4.158	(\$0.562)	\$3.596	\$3.631

1/ Refer to Rate 88 Sheet No. 70-76.

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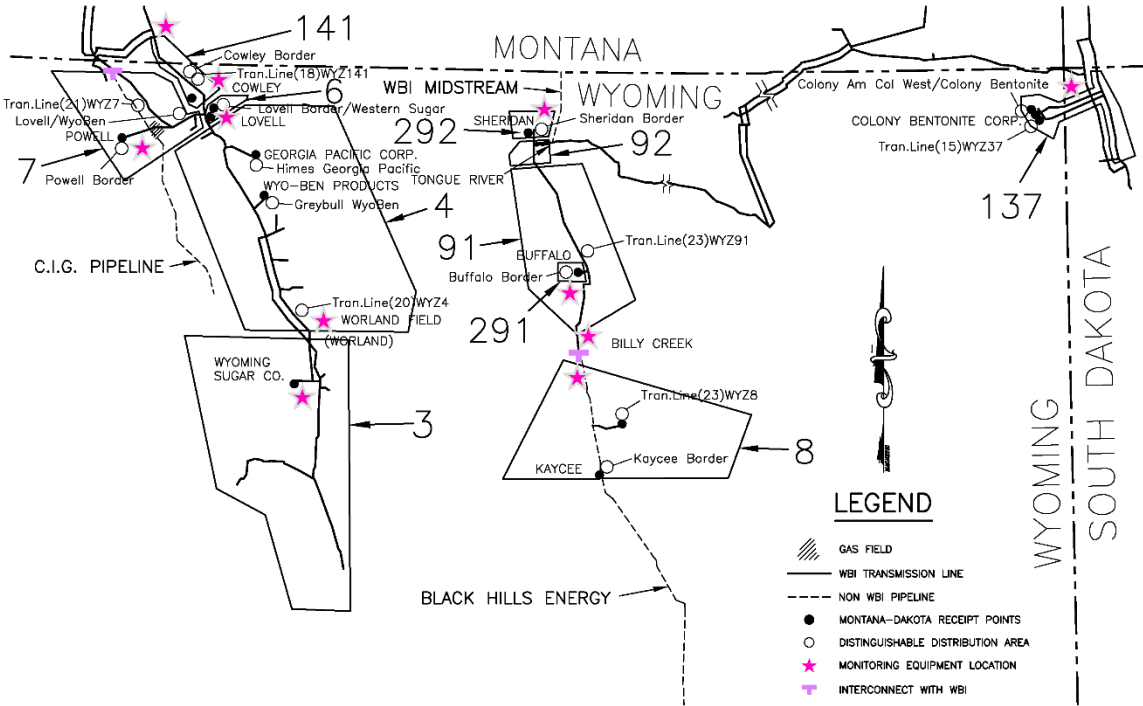
Montana-Dakota Utilities Co.

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

State of Wyoming  
Gas Rate Schedule

W.P.S.C. Tariff No. 3  
Original Sheet No. 5

THERMAL ZONE BOUNDARIES



Distribution Area	Wobbe Index	Docket Established	Date Established	Prior Wobbe Index	Prior Docket	Change in Service Notice Date
3	1367	9458 Sub 99	1/1/1987			
4	1309	30013-409-GT-24	8/1/2024	1372	9458	TBD
6	1366	9458 Sub 99	1/1/1987			
7	1369	9458 Sub 99	1/1/1987			
8	1357	30013-GT-90-12	11/1/1990			
91	1310	30013-274-GA-13	10/18/2013			
92	1299	30013-274-GA-13	10/18/2013			
137	TBD	30013-404-GT-24	4/4/2024			
141	1334	30013-274-GA-13	10/18/2013			
291	1329	30013-355-GP-19	1/21/2020			
292	1339	30013-355-GP-19	1/21/2020			

Larger View of Thermal Zone Map:  
<https://www.montana-dakota.com/wp-content/uploads/PDFs/Rates-Tariffs/Wyoming/NaturalGas/wythermalzonemap.pdf>

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# Montana-Dakota Utilities Co.

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

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W.P.S.C. Tariff No. 3  
Original Sheet No. 10

### RESIDENTIAL GAS SERVICE Rate 60

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Page 1 of 1

#### Availability:

In all communities served for all domestic uses except for resale. See Rate 100, §V. General Terms and Conditions, Paragraph 3, for definition of class of service.

#### Rate:

Basic Service Charge: \$0.879 per day

Distribution Delivery Charge: \$0.767 per dk

Cost of Gas: Determined Monthly- See Rate Summary Sheet for Current Rate

#### Minimum Bill:

Basic Service Charge.

#### Payment:

Billed amounts 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, §V. General Terms and Conditions, Paragraph 13, or any amendments or alterations thereto.

#### Cost of Gas:

The cost of gas includes all applicable cost of gas items as defined in Purchased Gas Cost Adjustment Rate 88 or any amendments or alterations thereto. The cost of gas component is subject to change on a monthly basis.

#### General Terms and Conditions:

The foregoing schedule is subject to Rates 100 through 136 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.

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 3  
Original Sheet No. 20

### FIRM GENERAL GAS SERVICE Rate 70

Page 1 of 1

#### Availability:

In all communities served for all general service purposes except for resale. See Rate 100, §V. General Terms and Conditions, Paragraph 3, for definition of class of service.

#### Rate:

For customers with meters rated under 500 cubic feet per hour

Basic Service Charge:	\$0.910 per day
Distribution Delivery Charge:	\$0.989 per dk

For customers with meters rated over 500 cubic feet per hour

Basic Service Charge:	\$1.826 per day
Distribution Delivery Charge:	\$0.786 per dk

Cost of Gas: Determined Monthly- See Rate Summary Sheet for Current Rate

#### Minimum Bill:

Basic Service Charge.

#### Payment:

Billed amounts 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, §V. General Terms and Conditions, Paragraph 13, or any amendments or alterations thereto.

#### Cost of Gas:

The cost of gas includes all applicable cost of gas items as defined in Purchased Gas Cost Adjustment Rate 88 or any amendments or alterations thereto. The cost of gas component is subject to change on a monthly basis.

#### General Terms and Conditions:

The foregoing schedule is subject to Rates 100 through 136 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.

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 3  
Original Sheet No. 30

### SMALL INTERRUPTIBLE GENERAL GAS SERVICE Rate 71

Page 1 of 3

#### Availability:

In all communities served for all interruptible general gas service customers whose interruptible natural gas load will exceed an input rate of 2,500,000 Btu per hour, metered at a single delivery point and whose average use of natural gas will not exceed 50,000 dk annually. The rates herein are applicable only to customer's interruptible load. The customer's firm natural gas requirements must be separately metered or specified in a firm service agreement. The customer's firm load shall be billed at Firm General Gas Service Rate 70. For interruption purposes, the maximum daily firm requirement shall be set forth in the firm service agreement.

#### Rate:

Basic Service Charge: \$150.00 per month

Distribution Delivery Charge:	<u>Maximum</u>	<u>Minimum</u>
	\$0.413 per dk	\$0.077 per dk

Cost of Gas: Determined Monthly- See Rate Summary Sheet for Current Rate

#### Minimum Bill:

Basic Service Charge.

#### Payment:

Billed amounts 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, §V. General Terms and Conditions, Paragraph 13, or any amendments or alterations thereto.

#### Cost of Gas:

The cost of gas includes all applicable cost of gas as defined in Purchased Gas Cost Adjustment Rate 88 or any amendments or alterations thereto. The cost of gas component is subject to change on a monthly basis.

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# Montana-Dakota Utilities Co.

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 3  
Original Sheet No. 31

### SMALL INTERRUPTIBLE GENERAL GAS SERVICE Rate 71

Page 2 of 3

#### General Terms and Conditions:

1. **PRIORITY OF SERVICE** - Deliveries of gas under this schedule shall be subject at all times to the prior demands of customers served on the Company's firm gas service rates. The customers taking service hereunder agree that the Company, without prior notice, shall have the right to curtail or interrupt such service whenever, in the Company's sole judgment, it may be necessary to do so to protect the interest of its customers whose capacity requirements are otherwise and hereby given preference. The priority of service and allocation of capacity shall be accomplished in accordance with the Priority of Service Schedule set forth in Rate 100, §V. General Terms and Conditions, Paragraph 11.
2. **PENALTY FOR FAILURE TO CURTAIL OR INTERRUPT** - If the customer fails to curtail or interrupt their use of gas hereunder when requested to do so by the Company, any gas taken shall be billed at the charges applicable under Firm General Gas Service Rate 70 (excluding the Basic Service Charge), plus either an amount equal to any penalty payment(s) or overrun charges the Company is required to make to its interconnecting pipeline(s) under the terms of its contract(s) as a result of such failure to curtail or interrupt, or \$50.00 per dk of gas used in excess of the volume of gas to which the customer was requested to curtail or interrupt, whichever amount is greater. The Company, in its discretion, may shut off the customer's supply of gas in the event of the customer's failure to curtail or interrupt use of gas when requested to do so by the Company.
3. **AGREEMENT** - Upon request of the Company, the customer may be required to enter into an agreement for service hereunder. If mutually agreed to by the Company and customer, the term of service reflected in such agreement may be amended. Upon expiration of service, the customer may apply for and receive, at the sole discretion of the Company, gas service under another appropriate rate schedule for the customer's operations.
4. **OBLIGATION TO NOTIFY COMPANY OF CHANGE IN DAILY OPERATIONS** – The customer will be required as specified in the service agreement to notify Company of an anticipated change in daily operations.

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# Montana-Dakota Utilities Co.

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 3  
Original Sheet No. 32

### SMALL INTERRUPTIBLE GENERAL GAS SERVICE Rate 71

Page 3 of 3

Failure to comply with requirements specified in the service agreement may result in the assessment of penalties to the customer equal to the penalty amounts the Company must pay to the interconnecting pipeline caused by customer action.

5. **METERING REQUIREMENTS** - Remote data acquisition equipment (telemetering equipment) required by the Company for a single customer installation for daily measurement will be purchased and installed by the Company prior to the initiation of service hereunder.

The customer may be required, upon consultation with the Company, to contribute towards additional metering equipment necessary for daily measurement by the Company, depending on the location of the customer to the Company's network facilities. This would include customers located in remote areas or in areas with topography that does not allow for transmission of information to existing telemetering equipment infrastructure. Enhancements and/or modifications to these services may be required to ensure equipment functionality. Such enhancements or modifications shall be completed at the direction of the Company with all associated costs the customer's responsibility. Any interruption in such services must be promptly remedied or service under this tariff will be suspended until satisfactory corrections have been made.

Consultation between the customer and the Company regarding telemetering requirements shall occur prior to execution of the required service agreement.

6. **RULES** - The foregoing schedule is subject to Rates 100 through 136 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.

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 3  
Original Sheet No. 40

### OPTIONAL SEASONAL GENERAL GAS SERVICE Rate 72

Page 1 of 2

#### Availability:

In all communities served for all seasonal general service uses where customer's primary utilization of gas occurs during the summer months, including but not limited to irrigation, swimming facilities, grain drying, and asphalt processing. See Rate 100, §V. General Terms and Conditions, Paragraph 3, for definition of class of service.

#### Rate:

For customers with meters rated under 500 cubic feet per hour

Basic Service Charge:	\$0.910 per day
Distribution Delivery Charge:	\$0.989 per dk

For customers with meters rated over 500 cubic feet per hour

Basic Service Charge:	\$1.826 per day
Distribution Delivery Charge:	\$0.786 per dk

#### Cost of Gas:

Winter- Service rendered October 1 through March 31	Determined Monthly - See Rate Summary Sheet for Current Rate
Summer- Service rendered April 1 through September 30	Determined Monthly - See Rate Summary Sheet for Current Rate

#### Minimum Bill:

Basic Service Charge.

#### Payment:

Billed amounts 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, §V. General Terms and Conditions, Paragraph 13, or any amendments or alterations thereto.

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# Montana-Dakota Utilities Co.

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

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W.P.S.C. Tariff No. 3  
Original Sheet No. 41

### OPTIONAL SEASONAL GENERAL GAS SERVICE Rate 72

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Page 2 of 2

#### Cost of Gas:

The cost of gas includes all applicable cost of gas items as defined in Purchased Gas Cost Adjustment Rate 88 or any amendments or alterations thereto. The cost of gas component is subject to change on a monthly basis.

#### General Terms and Conditions:

1. TERM - The customer agrees to contract for service under the Optional Seasonal General Gas Service Rate 72 for a minimum of one year.
2. RULES - The foregoing schedule is subject to Rates 100 through 136 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.

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 3  
Original Sheet No. 42

### FIRM GENERAL CONTRACTED DEMAND SERVICE Rate 74

Page 1 of 2

#### Availability:

In all communities served applicable to non-residential customers with standby natural gas generators and, available on an optional basis to, customers qualifying for service under the interruptible service tariffs that have requested, and received approval from the Company, for gas service under this rate.

#### Rate:

##### Basic Service Charge:

For customers with meters rated under 500 cubic feet per hour \$0.910 per day  
For customers with meters rated over 500 cubic feet per hour \$1.826 per day

Distribution Demand Charge: \$6.890 per dk per month of billing demand

Capacity Charge per  
Monthly Demand dk: Determined Monthly – See Rate Summary  
Sheet for Current Rate

Cost of Gas: Determined Monthly – See Rate Summary  
Commodity per dk: Sheet for Current Rate

#### Minimum Bill:

Basic Service Charge, Distribution Demand Charge, and Capacity Charge.

#### Payment:

Billed amounts 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, §V.13, or any amendments or alterations thereto.

#### Determination of Monthly Billing Demand:

Customer's billing demand will be determined in consultation with the Company. Customer's actual demand will be reviewed annually and, if warranted, a new monthly billing demand established.

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## Montana-Dakota Utilities Co.

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

### State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 3  
Original Sheet No. 43

#### FIRM GENERAL CONTRACTED DEMAND SERVICE Rate 74

Page 2 of 2

##### Cost of Gas:

The cost of gas includes all applicable cost of gas items as defined in Purchased Gas Cost Adjustment Rate 88 or any amendments or alterations thereto. The cost of gas component is subject to change on a monthly basis.

##### Metering Requirements:

1. Service provided for under tariff must be separately metered from customer's other gas services.
2. Remote data acquisition equipment (telemetry equipment) may be required by the Company for a single customer installation for daily measurement.
3. Customer may be required, upon consultation with the Company, to contribute towards any additional metering equipment necessary for daily measurement by the Company, depending on the location of the customer to the Company's network facilities. Enhancements and/or modifications to these services may be required to ensure equipment functionality. Such enhancements or modifications shall be completed at the direction of the Company with all associated costs the Customer's responsibility. Any interruption in such services must be promptly remedied or service under this tariff will be suspended until satisfactory corrections have been made.
4. Consultation between the customer and the Company regarding telemetry requirements shall occur prior to meter installation.

##### General Terms and Conditions:

1. Customers with standby gas generators required to take service under this schedule are not required to execute a contract. Other customers choosing to take service under this schedule will be required to execute a contract applicable for a minimum period of one year.
2. The foregoing schedule is subject to Rates 100 through 136 and any amendments or alterations therefore or additional rules and regulations promulgated by the Company under the laws of the state.

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# Montana-Dakota Utilities Co.

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 3  
Original Sheet No. 50

### TRANSPORTATION SERVICE Rates 81 and 82

Page 1 of 8

#### Availability:

This service is applicable for transportation of natural gas to customer's premises (metered at a single delivery point) through Company's distribution facilities. In order to obtain transportation service, customer must qualify under an applicable gas transportation service rate; meet the general terms and conditions of service provided hereunder; and enter into a gas transportation agreement upon request by the Company.

#### Small Interruptible General Gas Transportation Service Rate 81:

Transportation service is available for all general gas service customers whose interruptible natural gas load will exceed an input rate of 2,500,000 Btu per hour, metered at a single delivery point, and whose average interruptible use of natural gas will not exceed 50,000 dk annually. The customer's firm natural gas requirements must be separately metered or specified in a firm service agreement. The customer's firm load shall be treated and billed in accordance with the provisions of Firm General Gas Service Rate 70.

#### Large Interruptible General Gas Transportation Service Rate 82:

Transportation service is available for all general gas service customers whose average interruptible natural gas load will exceed 50,000 dk annually as metered at a single delivery point. The customer's firm natural gas requirements must be separately metered or specified in a firm service agreement. The customer's firm load shall be treated and billed in accordance with the provisions of Firm General Gas Service Rate 70.

#### Rate:

Under Rates 81 or 82 the customer shall pay a negotiated rate not more than the maximum rate or less than the minimum rate specified below. (The per dk charge is applicable to all dk of natural gas transported under the terms of this rate.) In the event customer also takes service under Rate 71 or Rate 85, the Basic Service Charge applicable under Rate 81 or Rate 82 shall be waived.

#### Basic Service Charge:

Rate 81	\$150.00 per month
Rate 82	\$415.00 per month

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# Montana-Dakota Utilities Co.

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 3  
Original Sheet No. 51

### TRANSPORTATION SERVICE Rates 81 and 82

Page 2 of 8

Transportation Charges:	<u>Rate 81</u>	<u>Rate 82</u>
Maximum Rate per dk	\$0.413	\$0.140
Minimum Rate per dk	\$0.077	\$0.035

#### General Terms and Conditions:

1. **CRITERIA FOR SERVICE** - In order to receive the service, the customer must qualify under one of the Company's applicable natural gas transportation service rates and comply with the general terms and conditions of the service provided herein. The customer is responsible for making all arrangements for transporting the gas from its source to the Company's interconnection with the delivering pipeline(s).
2. **REQUEST FOR GAS TRANSPORTATION SERVICE** - To qualify for gas transportation service a customer must request the service pursuant to the provisions set forth herein. The service shall be provided only to the extent that the Company's existing operating capacity permits.
3. **MULTIPLE SERVICES THROUGH ONE METER:**
  - a. In the event the customer desires firm sales service in addition to gas transportation service, the customer shall request such firm volume requirements, and upon approval by Company, such firm volume requirements shall be set forth in a firm service agreement. For billing purposes, the level of volumes so specified or the actual volume used, whichever is lower, shall be billed at Rate 70. Volumes delivered in excess of such firm volumes shall be billed at the applicable gas transportation rate. The customer has the option to install, at their expense, piping necessary for separate measurement of sales and transportation volumes.
  - b. The customer shall pay, in addition to charges specified in the applicable gas transportation rate schedule, charges under all other applicable rate schedules for any service in addition to that provided herein (irrespective of whether the customer receives only gas transportation service in any billing period).

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# Montana-Dakota Utilities Co.

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 3  
Original Sheet No. 52

### TRANSPORTATION SERVICE Rates 81 and 82

Page 3 of 8

4. **PRIORITY OF SERVICE** – The Company shall have the right to curtail or interrupt deliveries without being required to give previous notice of intention to curtail or interrupt, whenever, in its judgment, it may be necessary to do so to protect the interest of its customers whose capacity requirements are otherwise and hereby given preference. The priority of service and allocation of capacity shall be accomplished in accordance with General Terms and Conditions, §V. Paragraph 11 of Conditions of Service Rate 100.

5. **PENALTY FOR FAILURE TO CURTAIL OR INTERRUPT** - If the customer fails to curtail or interrupt their use of gas hereunder when requested to do so by the Company, any gas taken above that received on the customer's behalf, shall be billed at the charges applicable under Firm General Gas Service Rate 70 (excluding the Basic Service Charge), plus either an amount equal to any penalty payments or overrun charges the Company is required to make to its interconnecting pipeline(s) under the terms of its contract(s) as a result of such failure to curtail or interrupt, or \$50.00 per dk of gas used in excess of the volume of gas to which the customer was requested to curtail or interrupt, whichever amount is greater.

The Company, in its discretion, may shut off the customer's supply of gas in the event of the customer's failure to curtail or interrupt use of gas when requested to do so by the Company.

6. **CUSTOMER USE OF NON-DELIVERED VOLUMES** - In the event the customer's gas is not being delivered to the receipt point for any reason and the customer continues to take gas, the customer shall be subject to any applicable penalties or charges set forth in Paragraph 5. Gas volumes supplied by Company will be billed at Firm General Service Rate 70 (excluding Basic Service Charge). The Company is under no obligation to notify customer of non-delivered volumes.
7. **REPLACEMENT OR SUPPLEMENTAL SALES SERVICE** - In the event the customer's transportation volumes are not available for any reason, the customer may take interruptible sales service if such service is available. The availability of interruptible sales service shall be determined at the sole discretion of the Company.

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# Montana-Dakota Utilities Co.

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 3  
Original Sheet No. 53

### TRANSPORTATION SERVICE Rates 81 and 82

Page 4 of 8

8. ELECTION OF SERVICE:
  - a. Prior to the initiation of service hereunder, the customer shall make an election of its requirements under each applicable rate schedule for the entire term of service. If mutually agreed to by the Company and the customer, the term of service may be amended. Upon expiration of service, the customer may apply for and receive, at the sole discretion of the Company, gas service under the appropriate sales rate schedule for the customer's operations.
  - b. Transportation customers who cease service and then resume service within the succeeding 12 months shall be subject to a reconnection charge as specified in Rate 100, General Terms and Conditions, §V. Paragraph 21.
9. DAILY IMBALANCE:
  - a. To the extent practicable, the customer and the Company agree to the daily balancing of volumes of gas received and delivered on a thermal basis. Such balancing is subject to the customer's request and the Company's discretion to vary scheduled receipts and deliveries within existing Company operating limitations.
  - b. In the event that the deviation between scheduled daily volumes and actual daily volumes of gas used by the customer causes the Company to incur any additional costs from its interconnecting pipeline(s), the customer shall be solely responsible for all such penalties, fines, fees or costs incurred. If more than one customer has caused the Company to incur these additional costs, all costs (excluding those associated with Company's firm deliveries) will be prorated to each customer based on the customer's over – or – undertake as a percentage of the total.
  - c. The Company may waive any penalty associated with Company adjustments to end-use customer nominations in those instances where the Company, due to operating limitations, is required to adjust end-use transportation customer nominations and such Company adjustments create a penalty situation, or preclude a customer from correcting an imbalance which results in a penalty.

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# Montana-Dakota Utilities Co.

400 N 4<sup>th</sup> Street  
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## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 3  
Original Sheet No. 54

### TRANSPORTATION SERVICE Rates 81 and 82

Page 5 of 8

10. MONTHLY IMBALANCE – The customer's monthly imbalance is the difference between the amount of gas received by the Company on the customer's behalf and the customer's actual metered use. Monthly imbalances will not be carried forward to the next calendar month.

- a. Undertake Purchase Payment – If the monthly imbalance is due to more gas delivered on the customer's behalf than the actual volumes used, the Company shall pay the customer an Undertake Purchased Payment in accordance with the following schedule:

% Monthly Imbalance	Undertake Purchase Rate
0 – 5%	100% Cash-out Mechanism
> 5 – 10%	85% Cash-out Mechanism
> 10 – 15%	70% Cash-out Mechanism
> 15 – 20%	60% Cash-out Mechanism
> 20%	50% Cash-out Mechanism

Where the Cash-out Mechanism is equal to the lesser of the Company's WACOG or the Index Price, as defined in Paragraph 10(c).

- b. Overtake Charge – If the monthly imbalance is due to more gas actually used by the customer than volumes delivered on their behalf, the customer shall pay the Company an Overtake Charge in accordance with the following schedule:

% Monthly Imbalance	Overtake Charge Rate
0 – 5%	100% Cash-in Mechanism
> 5 – 10%	115% Cash-in Mechanism
> 10 – 15%	130% Cash-in Mechanism
> 15 – 20%	140% Cash-in Mechanism
> 20%	150% Cash-in Mechanism

Where the Cash-in Mechanism is equal to the greater of the Company's WACOG or the Index Price, as defined in Paragraph 10(c).

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# Montana-Dakota Utilities Co.

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 3  
Original Sheet No. 55

### TRANSPORTATION SERVICE Rates 81 and 82

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- c. The Index Price shall be the arithmetic average of the "Weekly Weighted Averages Prices" published by Gas Daily for CIG Rockies and Northern Ventura during the given month. The Company's WACOG (Weighted Average Cost of Gas) includes the commodity cost of gas and applicable transportation charges including the fuel cost of transportation.

#### 11. METERING REQUIREMENTS:

- a. Remote data acquisition equipment (telemetering equipment) required by the Company for a single customer installation for daily measurement will be purchased and installed by the Company prior to the initiation of service hereunder.
- b. The customer may be required, upon consultation with the Company, to contribute towards additional metering equipment necessary for daily measurement by the Company, depending on the location of the customer to the Company's network facilities. Enhancements and/or modifications to these services may be required to ensure equipment functionality. Such enhancements or modifications shall be completed at the direction of the Company with all associated costs the customer's responsibility. Any interruption in such services must be promptly remedied or service under this tariff will be suspended until satisfactory corrections have been made.
- c. Consultation between the customer and the Company regarding telemetering requirements shall occur prior to execution of the required service agreement.

#### 12. DAILY NOMINATION REQUIREMENTS:

- a. The customer or the customer's shipper or agent shall advise the Gas Supply Department, via the Company's Electronic Bulletin Board in accordance with FERC timelines, of the dk requirements the customer has requested to be delivered at each delivery point the following day. The customer's daily nomination shall be its best estimate of the expected utilization for the gas day. Unless other arrangements are made, the customer will be required to nominate for the non-business days involved prior to weekends and holidays.

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# Montana-Dakota Utilities Co.

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 3  
Original Sheet No. 56

### TRANSPORTATION SERVICE Rates 81 and 82

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- b. All nominations should include shipper and/or agent defined begin and end dates. Shippers and/or agents may nominate for periods longer than 1 day, provided the nomination begin and end dates are within the term of the service agreement.
  - c. The Company has the sole right to refuse receipt of any volumes which exceed the maximum daily contract quantity and at no time shall the Company be required to accept quantities of gas for the customer in excess of the quantities of gas to be delivered to the customer.
  - d. At no time shall the Company have the responsibility to deliver gas in excess of the customer's nomination.
13. **WARRANTY** - The customer, the customer's agent, or the customer's shipper warrants that it will have title to all gas it tenders or causes to be tendered to the Company, and such gas shall be free and clear of all liens and adverse claims and the customer, the customer's agent, or the customer's shipper shall indemnify the Company against all damages, costs, and expenses of any nature whatsoever arising from every claim against said gas.
14. **FACILITY EXTENSIONS** - If facilities are required in order to furnish gas transportation service, and those facilities are in addition to the facilities required to furnish firm gas service, the customer shall pay for those additional facilities and their installation in accordance with the Company's applicable natural gas extension policy. The Company may remove such facilities when service hereunder is terminated.
15. **PAYMENT** - Billed amounts 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, §V. General Terms and Conditions, Paragraph 13, or any amendments or alterations thereto.
16. **AGREEMENT** - Upon request of the Company, customer may be required to enter into an agreement for service hereunder.

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# Montana-Dakota Utilities Co.

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17. RULES - The foregoing schedule is subject to Rates 100 through 136 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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W.P.S.C. Tariff No. 3  
Original Sheet No. 60

### LARGE INTERRUPTIBLE GENERAL GAS SERVICE Rate 85

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#### Availability:

In all communities served for all interruptible general gas service customers whose average interruptible natural gas load will exceed 50,000 dk annually as metered at a single delivery point. The rates herein are applicable only to customer's interruptible load. The customer's firm natural gas requirements must be separately metered or specified in a firm service agreement. The customer's firm load shall be billed at Firm General Gas Service Rate 70. For interruption purposes, the maximum daily firm requirement shall be set forth in the firm service agreement.

The Company reserves the right to refuse the initiation of service under this rate schedule based on the availability of gas supply.

#### Rate:

Basic Service Charge: \$415.00 per month

Distribution Delivery Charge:	<u>Maximum</u>	<u>Minimum</u>
	\$0.140 per dk	\$0.035 per dk

Cost of Gas: Determined Monthly – See Rate Summary Sheet for Current Rate

The Company and the customer reserve the right to execute a contract for gas supply at a mutually agreed upon rate different from the rate specified above, subject to Wyoming Public Service Commission approval of such contract rate.

#### Minimum Bill:

Basic Service Charge.

#### Payment:

Billed amounts 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, §V. General Terms and Conditions, Paragraph 13, or any amendments or alterations thereto.

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W.P.S.C. Tariff No. 3  
Original Sheet No. 61

### LARGE INTERRUPTIBLE GENERAL GAS SERVICE Rate 85

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#### Cost of Gas:

The cost of gas includes all applicable cost of gas items as defined in Purchased Gas Cost Adjustment Rate 88 or any amendments or alterations thereto. The cost of gas component is subject to change on a monthly basis.

#### General Terms and Conditions:

1. **PRIORITY OF SERVICE** - Deliveries of gas under this schedule shall be subject at all times to the prior demands of customers, served on the Company's firm gas service rates. Customers taking service hereunder agree that the Company, without prior notice, shall have the right to curtail or interrupt such service whenever, in Company's sole judgment, it may be necessary to do so to protect the interest of its customers whose capacity requirements are otherwise and hereby given preference. The priority of service and allocation of capacity shall be accomplished in accordance with the Priority of Service Schedule set forth in §V. Paragraph 11 of Conditions of Service Rate 100.
2. **PENALTY FOR FAILURE TO CURTAIL OR INTERRUPT** - If the customer fails to curtail or interrupt their use of gas hereunder when requested to do so by the Company, any gas taken shall be billed at the Firm General Gas Service Rate 70 (excluding the Basic Service Charge), plus either an amount equal to any penalty payment(s) or overrun charges the Company is required to make to its interconnecting pipeline(s) under the terms of its contract(s) as a result of such failure to curtail or interrupt, or \$50.00 per dk of gas used in excess of the volume of gas to which customer was requested to curtail or interrupt, whichever amount is greater. The Company, in its discretion, may shut off customer's supply of gas in the event of the customer's failure to curtail or interrupt use of gas when requested to do so by the Company.
3. **AGREEMENT** - Upon request of the Company, the customer may be required to enter into an agreement for service hereunder. If mutually agreed to by the Company and the customer, the term of service reflected in such agreement may be amended. Upon expiration of service, the customer may apply for and receive, at the sole discretion of the Company, gas service under another appropriate rate schedule for the customer's operations.

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### LARGE INTERRUPTIBLE GENERAL GAS SERVICE Rate 85

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4. OBLIGATION TO NOTIFY COMPANY OF CHANGE IN DAILY OPERATIONS – The customer will be required as specified in the service agreement to notify the Company of an anticipated change in daily operations. Failure to comply with requirements specified in the service agreement may result in the assessment of penalties to the customer equal to the penalty amounts the Company must pay to the interconnecting pipeline caused by the customer's action.
5. METERING REQUIREMENTS - Remote data acquisition equipment (telemetry equipment) required by the Company for a single customer installation for daily measurement will be installed by the Company, prior to the initiation of service hereunder.

The customer may be required, upon consultation with the Company, to contribute towards additional metering equipment necessary for daily measurement by the Company, depending on the location of the customer to the Company's network facilities. This would include customers located in remote areas or in areas with topography that does not allow for transmission of information to existing telemetry equipment infrastructure. Enhancements and/or modifications to these services may be required to ensure equipment functionality. Such enhancements or modifications shall be completed at the direction of the Company with all associated costs the customer's responsibility. Any interruption in such services must be promptly remedied or service under this tariff will be suspended until satisfactory corrections have been made.

Consultation between the customer and the Company regarding telemetry requirements shall occur prior to execution of the required service agreement.

6. RULES - The foregoing schedule is subject to Rates 100 through 136 and any amendments or alterations thereto or additional rules and regulations promulgated by the Company under the laws of the state.

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## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 3  
Original Sheet No. 70

### **PURCHASED GAS COST ADJUSTMENT** **Rate 88**

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#### **1. Applicability:**

This rate schedule constitutes a Purchased Gas Cost Adjustment (PGA) provision and specifies the procedure to be utilized to adjust the rates for gas sold under Montana-Dakota's rate schedules in order to reflect: (a) changes in Montana-Dakota's average cost of gas supply and (b) amortization of the Unrecovered Purchase Gas Cost Account.

#### **2. Effective Date and Limitation on Adjustments:**

- (a) The effective dates of the PGA shall be service rendered on and after the first day of each month, unless the Commission shall otherwise order.
- (b) Montana-Dakota shall file an adjustment to reflect changes in its average cost of gas supply only when the amount of such adjustment is at least 25 (twenty-five) cents per dk. The adjustment to be effective October 1 shall be filed each year, regardless of the amount of the change.

#### **3. Purchased Gas Cost Adjustment:**

- (a) The monthly PGA shall reflect changes in Montana-Dakota's cost of gas supply as compared to the cost of gas supply approved in its most recent PGA. The cost of gas supply shall be the sum of all prudent costs incurred in obtaining gas for general system supply. General system supply is defined as gas available for use by all customers served under retail sales rate schedules. The cost of gas supply shall include, but not be limited to, all demand, commodity, storage, gathering, and transportation charges incurred by Montana-Dakota for such gas supply; the revenue requirement at the authorized Wyoming return on prepaid demand and commodity charges and gas storage balances, required to maintain the system gas supply; and hedging program gains, losses and transaction costs related to system gas supply.
- (b) The PGA shall be computed as follows:
  - (1) Demand costs shall include all annual gathering, transportation and storage demand charges at current rates.

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### **PURCHASED GAS COST ADJUSTMENT** **Rate 88**

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- (2) Commodity costs shall include all annual gathering, transportation and storage charges at current rates.
- (3) The gas commodity cost shall reflect all commodity related gas costs estimated to be in effect for the month the PGA will be in effect and annual dk requirements.
- (4) The return on prepaid demand and commodity balances and storage balances shall reflect the revenue requirement on the average of the thirteen monthly balances. The revenue requirement shall be calculated by multiplying the average balance by the authorized rate of return, as adjusted for Federal income taxes on the equity component of the capital structure.

The cost per dk for the month is the sum of the above divided by annual, weather normalized dk deliveries for the most recent twelve month period adjusted to reflect losses.

- (c) Monthly gas costs shall be calculated as follows:
  - (1) Demand costs for firm and interruptible sales customers shall be apportioned to all state jurisdictions served by Montana-Dakota on the basis of the overall ratio of each state's Maximum Daily Delivery Quantity (MDDQ).
  - (2) Demand costs for firm general contracted demand customers shall be stated on the incremental MDDQ basis.
  - (3) All commodity costs and other costs associated with the acquisition of gas for general system supply shall be apportioned to each state on the basis of total dks sold in each state, regardless of the actual points of delivery of such gas.
  - (4) The revenue requirement related to prepaid demand and commodity charges and gas storage balances shall be included

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### **PURCHASED GAS COST ADJUSTMENT** **Rate 88**

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on a per dk basis. The prepaid demand and storage balances shall be apportioned to all states on the basis of each state's MDDQ. The prepaid commodity charges shall be apportioned to all states on the basis of annual dks sold in each state. The unit cost shall be calculated using a thirteen month average balance by multiplying the average balance by the authorized rate of return as adjusted for Federal income taxes on the equity component of the capital structure. The resulting revenue requirement shall be divided by the weather normalized dk deliveries for the most recent twelve month period adjusted to reflect losses.

- (5) All costs related to specific end-use transactions shall not be included in the cost of gas supply determination but shall be directly billed to the customer(s) contracting for such service.
- (d) The PGA shall be uniformly applied to all of Montana-Dakota's rate schedules pursuant to the Commission's Order in Docket No. 9458 Sub 91.

#### **4. Surcharge Adjustment:**

All sales rate schedules shall be subject to a Surcharge Adjustment to be effective on October 1 of each year. The Surcharge Adjustment per dk sold shall reflect amortization of the applicable balance in the Unrecovered Purchased Gas Cost Account calculated by dividing the applicable balance by the estimated dk sales for the twelve months following the effective date of the adjustment.

#### **5. Unrecovered Purchased Gas Cost Account:**

- (a) Items to be included in the Unrecovered Purchased Gas Cost Account, as calculated in accordance with Subsection 5(b) are:
  - (1) Charges for gas supply which Montana-Dakota is unable to reflect in a Purchased Gas Cost Adjustment by reason of the twenty-five cent minimum limitation set forth in Subsection 2(b).

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- (2) Amounts of increased/decreased charges for gas supplies which were paid during any period after the effective date of the most recent PGA, but not yet included in sales rates.
  - (3) Refunds received from supplier(s) with respect to gas supply. Such refunds received shall be credited to the Unrecovered Purchased Gas Cost Account.
  - (4) Capacity release revenue allocated to Wyoming.
  - (5) Carrying charges or credits as specified by Subsection 5(b)(2).
  - (6) Demand costs recovered from the firm general contracted demand sales customers will be credited to the residential and firm general service customers.
- (b) (1) The amount to be included in the Unrecovered Purchased Gas Cost Account in order to reflect the items specified in Subsections 5(a)(1), (2), and (3) shall be calculated as follows:
- (i) Montana-Dakota shall first determine each month the unit cost for that month's natural gas supply as adjusted to levelize demand charges.

Such adjustment to levelize supplier(s) demand charges shall be calculated as follows:

The suppliers' annual (calendar or fiscal) demand charges, which are payable in equal monthly payments, shall be accumulated in a prepaid account (FERC Account 165). Each month a portion of such accumulated prepaid amount shall be amortized to cost of natural gas purchased (FERC Account 804). Such monthly amortization shall be based on a rate calculated by dividing the annual supplier(s) demand charges by

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### **PURCHASED GAS COST ADJUSTMENT** **Rate 88**

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projected annual natural gas sales units (calendar or fiscal, as appropriate). The resulting per unit rate shall then be multiplied by the projected natural gas unit sales for the current month. Such amount shall constitute the monthly amortization of prepaid supplier(s) demand charges to cost of natural gas supply.

(ii) Montana-Dakota shall then subtract from each month's unit cost the unit cost for gas supply which is reflected in the currently effective PGA.

(iii) The resulting difference (which may be positive representing an undercollection; which is defined as current gas costs exceeding gas costs recovered in rates; or negative representing an overcollection; which is defined as gas costs recovered in rates exceeding current gas costs) shall be multiplied by the dks sold during that month under each rate schedule. The resulting amounts shall be reflected in an Unrecovered Purchased Gas Cost Account.

(2) Interest will be calculated and credited to Account 191 each month as follows:

(i) The balance in Account 191, to which interest will apply, will be the balance at the end of the immediately preceding month. Interest will be paid on net overcollections. The Company shall offset any cumulative undercollections against cumulative overcollections in the computation of interest to be paid. Interest shall be credited monthly to Account 191 at one-twelfth of the Commission Authorized Interest Rate described in Chapter 1, Section 2 (a)(xv) of the Wyoming Public Service Commission's Rules.

(ii) In no case shall the Company receive interest for net undercollections.

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- (c) Reduction of Amounts in the Unrecovered Purchased Gas Cost Account:
  - (1) The amounts in the Unrecovered Purchased Gas Cost Account shall be decreased each month by an amount determined by multiplying the currently effective surcharge adjustment included in rates for that month (as calculated in Section 4) by the dks sold during that month under each rate schedule. The account shall be increased in the event the adjustment is a negative amount.
  - (2) The amount amortized each month shall be applied pro rata between the amounts in the Unrecovered Purchased Gas Cost Account specified in Subsections 5(a)(1), (2), (3), (4) and the amounts in the Unrecovered Purchased Gas Cost Account specified in Subsection 5(a)(5).

#### **6. Time and Manner of Filing:**

- (a) Each filing by Montana-Dakota shall be made by means of revised PGA and rate schedule tariff sheets identifying the amounts of the adjustments and the resulting currently effective PGA rates. Montana-Dakota shall file to change the PGA at least 20 days prior to the proposed effective date.
- (b) Each filing shall be accompanied by detailed computations which clearly show the derivation of the relevant amounts. Each filing shall contain an accompanying statement that supports the Company's gas acquisition practices as required by the Wyoming Public Service Commission.
- (c) Each filing shall also contain the information necessary to comply with Chapter 3, Section 26 of the Wyoming Public Service Commission's Rules.

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### CONDITIONS OF SERVICE Rate 100

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#### I. PURPOSE:

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

The Company undertakes to furnish service subject to the Rules of the Public Service Commission of Wyoming and as supplemented by these general provisions, as now in effect or as may hereafter be lawfully established.

#### II. DEFINITIONS:

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

**AGENT** – The party authorized by the transportation service customer to act on that customer's behalf.

**APPLICANT** - A customer requesting Company to provide service.

**COMMISSION AND COMMISSIONER** - The Public Service Commission of Wyoming or a member thereof respectively.

**COMPANY** - Montana-Dakota Utilities Co. (Montana-Dakota).

**COMPANY'S OPERATING CONVENIENCE** - The utilization, under certain circumstances, of facilities or practices not ordinarily employed which contribute to the overall efficiency of Company's operations. This does not refer to the customer's convenience nor to the use of facilities or adoption of practices required to comply with applicable laws, ordinances, rules or regulations, or similar requirements of public authorities.

**CURTAILMENT** - A reduction of transportation or retail natural gas service deemed necessary by the Company.

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

**DELIVERY POINT** - The point at which customer assumes custody of the gas being transported. This point will normally be at the outlet of the Company's meter(s) located on the customer's premises.

**EXCESS FLOW VALVE** – Safety device designed to automatically stop or restrict the flow of gas if an underground pipe is broken or severed.

**GAS DAY** - Means a period of twenty-four consecutive hours, beginning and ending at 9:00 a.m. Central Clock Time.

**INTERRUPTION** - A cessation of transportation or retail natural gas service deemed necessary by the Company.

**NOMINATION** - The daily dk volume of natural gas requested by customer for transportation and delivery to the customer at the delivery point during a gas day.

**PIPELINE** - The transmission company(s) delivering natural gas into the Company's system.

**RATE** - Shall mean and include every compensation, charge, fare, toll, rental and classification, demanded, observed, charged or collected by the Company for any service, product, or commodity, offered by the Company to the public. This includes rules, regulations, practices or contracts affecting any such compensation, charge, fare, toll, rental or classification.

**RECEIPT POINT** - The intertie between the Company and the interconnecting pipeline(s) at which point the Company assumes custody of the gas being transported.

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SHIPPER – The party with whom the pipeline has entered into a service agreement for transportation services.

#### III. CUSTOMER OBLIGATIONS:

1. APPLICATION FOR SERVICE - A customer desiring gas service must make 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 to a customer or discontinue 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 gas service in the absence of application or contract 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 gas 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 required by the Company in accordance with §V.6.

2. SERVICE AVAILABILITY - Gas will normally be delivered at a standard pressure of four ounces. Delivery of gas service at pressures greater than the standard operating pressure may be available and will require a consultation with the Company to determine availability.
3. INPUT RATING - All new customers whose consumption of gas for any purpose will exceed an input of 2,500,000 Btu per hour, metered at a single delivery point, shall consult with the Company and furnish details of estimated hourly input rates for all gas utilization equipment. Where system design capacity permits, such customers may be served on a firm basis. Where system design capacity is limited, and at the Company's sole discretion, the

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Company will serve all such new customers on an interruptible basis only. Architects, contractors, heating engineers and installers, and all others should consult with the Company before proceeding to design, erect or redesign such installations for the use of natural gas. This will ensure that such equipment will conform to the Company's ability to adequately serve such installations with gas.

4. ACCESS TO CUSTOMER'S PREMISES – The Company's 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.
5. COMPANY PROPERTY – The customers shall exercise reasonable diligence in protecting the Company's property on their premises, and shall be liable to the Company in case of loss or damage caused by their negligence or that of their employees.
6. INTERFERENCE WITH 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.
7. RELOCATED LINES – Where the Company's facilities are located on a public or private utility easement and there is a building encroachment(s) over gas facilities (Company-owned main, Company-owned service line or customer-owned service line) the customer shall be charged for line relocation on the basis of actual costs incurred by the Company, including any required easements or permits.
8. NOTIFICATION OF LEAKS – The customer shall immediately notify the Company at its office of any escape of gas in or about the customer's premises.

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9. **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.
10. **REPORTING REQUIREMENTS** – The customer shall furnish the Company all information as may be required or appropriate to comply with reporting requirements of duly constituted authorities having jurisdiction over the matter herein.
11. **QUALITY OF GAS** - The gas tendered to the Company shall conform to the applicable quality specifications of the Pipeline's tariff which at a minimum shall comport to Chapter 3, Section 1 (c)(iv) of the Commission's Rules.

#### IV. **LIABILITY:**

1. **CONTINUITY OF SERVICE** - The Company will use all reasonable care to provide continuous service but does not assume responsibility for a regular and uninterrupted supply of gas service and will not be liable for any loss, injury, death, or damage resulting from the use of service, or arising from or caused by the interruption or curtailment of the same, except when such loss, injury or damage results from the negligence of the Company.
2. **CUSTOMER'S EQUIPMENT** - Neither by inspection or non-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 or leased by the customer from third parties. The customer is responsible for the proper installation and maintenance of all structures, equipment, lines, appliances, or devices on the customer's side of the point of delivery, and for the natural gas after it passes the point of delivery. The customer must assume the duties of inspecting all structures including the house piping, chimneys, flues and appliances on the customer's side of the point of delivery to ensure all are in working order. It is the Company's

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obligation to supply satisfactory service, and any use of equipment by the customer that prevents the Company from carrying out this obligation must be corrected by the customer.

- a. In the event the Company needs to turn a customer's gas meter on, and a customer's equipment needs to be restarted, the customer may consent to, and accept responsibility for, the relighting of any pilot lights on equipment on customer's side of the meter. If verbal consent of customer is given at the time of scheduling the gas meter turn on, Company personnel will turn gas meter on and inspect for gas use. If no gas use is detected at that time, the gas meter will be left on and the customer can relight any pilot lights on equipment on customer's side of the meter at their convenience. If gas use is detected, Company personnel will turn gas meter off and advise customer to have their system checked. The Company will only turn the gas meter on after customer's system has been checked and no gas use is detected.
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 gas or from the presence or operation of the Company's structures, equipment, lines, or devices on the customer's premises, except loss, injuries, death, or damages resulting from the negligence of the Company.
4. **INDEMNIFICATION** – The customer agrees to indemnify and hold the 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 the Company's negligent or wrongful acts under and during the term of service.
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,

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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. If volumes of the customer's gas are destroyed while in the Company's possession by an event of force majeure, the obligations of the parties shall terminate with respect to the volumes lost.

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 public enemies 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 lines of pipe, line freeze-ups, sudden partial or sudden entire failure of gas 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 authorizations 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.

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#### V. GENERAL TERMS AND CONDITIONS:

1. AGREEMENT - Upon request of the Company, the customer may be required to enter into an agreement for any service.
2. RATE OPTIONS - Where more than one rate schedule is available for the same class of service, the Company will assist the customer in selecting the applicable rate schedule(s). The Company is not required to change a customer from one rate schedule to another more often than once in twelve months unless there is a material change in the customer's load which alters the availability and/or applicability of such rate(s), or unless a change becomes necessary as a result of an order issued by the Commission or a court having jurisdiction. The Company will not be required to make any change in a fixed term contract except as provided therein.
3. RULES FOR APPLICATION OF GAS SERVICE -
  - a. Residential Gas Service is available to any residential customer for domestic purposes only. Residential Gas Service is defined as service for general domestic household purposes in space occupied as living quarters, designed for occupancy by one family with separate cooking facilities. Typical service would include the following: single private residences, single apartments, mobile homes with separate meters and auxiliary buildings on the same premise as the living quarters, used for residential purposes by the residential customer. This is not an all-inclusive list.
  - b. Non-residential Gas Service is defined as service provided to a business enterprise in space occupied and operated for non-residential purposes. Typical service would include stores, offices, shops, restaurants, sorority and fraternity houses, boarding houses, hotels, service garages, wholesale houses, filling stations, barber shops, beauty parlors, master metered apartment houses, common areas of shopping malls or apartments (such as halls or basements), churches, elevators, schools and facilities located away from the home site. This is not an all-inclusive list.
  - c. The definitions above are based upon the supply of service to the premises in its entirety through a single delivery and metering point.

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Separate supply for the same customer at other points of consumption shall be separately metered and billed.

- d. If separate metering is not practical for premises using gas for both domestic purposes and for conducting business (or for nonresidential purposes), the customer will be billed under the predominate use policy. Under this policy, the customer's combined service is billed under the rate (residential or non-residential) applicable to the type of service which constitutes greater than 50% of the total connected load.
  - e. These rules will not change the classification of existing customers who were served gas prior to October 1, 1988 except in the event of a different customer taking responsibility for the account.
  - f. Other classes of service furnished by the Company shall be defined in applicable rate schedules or in rules and regulations pertaining thereto. Service to customers for which no specific rate schedule is applicable shall be billed under the nonresidential rates.
4. DISPATCHING - Transportation customers will adhere to gas dispatching policies and procedures established by the Company to facilitate transportation service. The Company will inform the customer of any changes in dispatching policies that may affect transportation services as they occur.
5. RULES COVERING GAS SERVICE - The rules and regulation for providing gas service are in accordance with the Code of Federal Regulations (49CFR Part 192 - Transportation of Natural and Other Gas by Pipeline). Customers needing information in regards to the rules and regulations for providing gas service may contact the Company to discuss by phone or to arrange an appointment at the Company's Sheridan Office to review the Code of Federal Regulations. The customer shall be responsible for compliance with all local, state and federal regulations for all gas piping and appliances located downstream of the outlet of the gas meter.
6. CUSTOMER DEPOSITS - The Company may require a deposit from an applicant for gas service (applicant) or an existing customer in accordance with Chapter 3, Section 7 of the Wyoming Public Service Commission's Rules:

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The Company may require a deposit to guarantee payment for each service. This deposit shall not be considered as an advance payment of bills but shall be held as security for payment of service rendered. The Company may refuse service to an applicant or discontinue service to a customer for failure to comply with customer deposit requirements. The Company shall apply the policies governing customer deposits uniformly.

- a. The Company may require a deposit if:
  - i. A prior service account with the Company remains unpaid and undisputed at the time of application for service;
  - ii. Service from the Company has been discontinued for:
    - A. Nonpayment of any undisputed delinquent bill;
    - B. Failure to reimburse the Company for damages due to the customer's negligent or intentional actions; or
    - C. Acquisition, diversion or use of service without the authorization of or knowledge by the Company.
  - iii. Information provided upon application for service is materially false or a misrepresentation;
  - iv. The application is for initial service with the Company or the applicant did not have service with the Company for a period of at least 12 consecutive months during the past four years;
  - v. The applicant or non-residential customer is unable to pass an objective credit screen. In order to pass the objective credit screen, the applicant or non-residential customer must fulfill one or a combination of the following:
    - A. Received 12 consecutive months of service from the Company, with the undisputed portions of the 12 most recent bills paid in full when due;

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- B. Have a favorable credit rating with a third-party credit reporting agency; or
- C. Receive a favorable credit rating from the Company's financial risk assessment tool.
- vi. The request is for service at an address where a former customer with an undisputed delinquent bill for service still resides or conducts business;
- vii. The applicant for service, or the customer, has been brought within the jurisdiction of the bankruptcy court, or has had a receiver appointed in a state court proceeding, within the five year period immediately preceding the request for service; or
- viii. The Company has determined that it has a significant financial risk in continuing to provide service to a specific non-residential customer. The Company and the customer may attempt to reach a deposit agreement. If the Company and the customer are unable to reach an agreement, the Company shall file a confidential petition requesting expedited review and Commission approval prior to collecting the customer deposit. The petition shall contain the basis for the Company's determination, the amount of deposit sought and sufficient information for the Commission to contact the customer.
- b. Unless otherwise ordered by the Commission, the Company shall not require a deposit as a condition of new or continued utility service based upon any criterion not specifically authorized by the Wyoming Public Service Commission's Rules.
- c. Unless otherwise ordered by the Commission, the required deposit shall not exceed the total amount of the customer's estimated bill for three months of highest use based on the premises' monthly bills during the immediate previous 12-month period. If billing information

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for the immediate previous 12-month period is not available, the deposit will be based on anticipated service characteristics and anticipated load.

- d. The Company shall retain records showing:
  - i. The name and address of each customer making the deposit;
  - ii. The date and amount of the deposit; and
  - iii. Each accounting transaction concerning the deposit.
- e. The Company shall provide the customer a non-assignable receipt or other record of deposit, showing the date and amount received.
- f. The Company shall calculate simple interest on deposits at the Commission Authorized Interest Rate described in Chapter 1, Section 2(a)(xv) of the Wyoming Public Service Commission's Rules. Interest shall apply only to deposits held for at least six months, but shall accrue from the initial date of deposit through the date the deposit is returned to the customer.
- g. The Company may accept a written guarantee from an acceptable guarantor in lieu of a deposit to pay a customer's bill. After the Company has verified the customer's identity, the customer shall agree to permit the Company to provide the customer's account information to the guarantor upon the customer's default.
- h. Deposits and any unpaid interest earned on deposits shall be applied as a credit to the customer's bill, unless requested by the customer to be refunded, when:
  - i. The accrued interest equals or exceeds \$10.00. The Company shall apply the credit at least annually;

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- ii. A residential customer has received 12 consecutive months of service, with no cause to discontinue service; and the customer's bills have been paid when due;
- iii. A commercial or industrial customer has received 12 consecutive months of service, with no cause to discontinue service; the customer's bills have been paid when due; and the customer passes the Company's objective credit screen; or
- iv. Service is discontinued. The Company shall not require the customer to provide the original receipt in order for the deposit to be returned. Any credit balance on the account after the deposit is applied shall be refunded to the customer. If the Company is unable to make the refund due to lack of knowledge of the customer's location, additional interest will not accrue after the service discontinuation date. The Company shall manage such deposits as unclaimed property as required by Wyoming law (W.S. § 34-24-109).

#### 7. METERING AND MEASUREMENT:

- a. Meters and associated devices shall be installed in a reasonable location that is the shortest safe distance to the customer's building, accessible for reading, testing, inspection, removal and where such activities will minimize interference and inconvenience to the customer and the Company. Under no circumstances shall any meter be removed or relocated except by authorized Company personnel. The Company will furnish appropriate metering at the point of connection to the customer. The customer shall provide and maintain, without cost to the Company, a suitable location accessible for metering and installation of equipment required to provide service. The Company has the right to clear its services, connections and rights-of-way of any interfering tree, shrub, or other obstruction or to require the customer to clear and remove the interfering obstruction at the customer's expense.

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- b. All meters furnished by the Company are property of the Company and only Company-authorized personnel shall install, remove, test, adjust or conduct any repair or maintenance work thereon. The Company shall install and maintain at its own expense all equipment necessary to regulate and measure the commodity delivered for billing.
- c. The customer may install, operate and maintain at its sole expense, equipment for the purpose of measuring the amount of natural gas delivered over any measurement period (Customer meter), provided the equipment shall not interfere with such delivery or with the Company's meter.
- d. Each meter will be read by the Company authorized personnel at a minimum of monthly intervals, as nearly as possible on the corresponding day of each month. Bills shall show the meter readings at the beginning and end of the billing period, the date of the meter readings, the units consumed, the class of service and other information necessary to enable the customer to readily re-compute the amount of the bill. Each bill shall bear upon its face the date of the bill and the latest date it may be paid without penalty. An estimated reading may be utilized if a reading cannot be obtained or if it is not feasible to read the meter. Estimated meter readings shall be clearly identified on the bill. The amount of such an estimated bill will be adjusted as necessary when the next actual reading is obtained.
- e. The Company will meter the volume of natural gas delivered to the customer at the delivery point. Such meter measurement will be conclusive upon both parties unless such meter is found to be inaccurate, in which case the quantity supplied to the customer shall be determined by as correct an estimate as it is possible to make, taking into consideration the time of year, the schedule of the customer's operations and other pertinent facts.

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- f. Meter Testing
  - 1. Company's Testing - The Company's ongoing meter testing program is set forth in Rate 136.
  - 2. Customer's Request - Upon request of the customer, the Company will complete a meter test of customer's meter. If the customer requests a test of the accuracy of the Company's meter used on the customer's premises, the following provisions shall apply:
    - i. If the meter has not been tested within 12 months, the Company shall perform the test within a reasonable time without charge to the customer. The Company shall notify the customer of the time when the Company will conduct the test so the customer or the customer's representative may be present.
    - ii. If the meter has been tested within 12 months, the Company shall notify the customer the cost to perform the test. The Company shall notify the customer of the time when the Company will conduct the test.
    - iii. The Company shall promptly advise the customer of the test results.
    - iv. If a meter is found to be in non-compliance with the Company's approved meter testing program, the Company shall refund the payment the customer advanced for the meter test and shall repair or replace the meter. The Company shall also adjust and refund to the customer the overpayment of preceding bills, in accordance with §V.10. No refund is required from the Company except to the customer last served by the meter prior to testing. If the Company has under collected, the customer shall pay the adjusted costs in accordance with §V.10.
    - v. The meter accuracy test charge amount is provided in §VI.1.g.

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- vi. If such test shows the average error of the meter to be 2% or less, the customer will pay for the test if the meter has already been tested within the previous twelve months. See §VI.1.g. for the applicable charges.
  - vii. If a tested meter shows an average error greater than plus or minus 2%, the Company will refund any overbilling, and the customer will pay any underbilling, in accordance with §V.10.
8. MEASUREMENT UNIT FOR BILLING PURPOSES - The measurement unit for billing purposes shall be one (1) decatherm (dk), unless otherwise specified. Billing will be calculated to the nearest one-tenth (1/10) dk. One dk equals 10 therms or 1,000,000 Btu's. Dk's shall be calculated by the application of a thermal factor to the volumes metered. This thermal factor consists of:
- a. An altitude adjustment factor used to convert metered volumes at local sales base pressure to a standard pressure base of 14.73 psia, and
  - b. A Btu adjustment factor used to reflect the heating value of the gas delivered.
9. UNIT OF VOLUME FOR MEASUREMENT –
- a. The standard unit of volume for purpose of measurement shall be one (1) cubic foot of gas at either local sales base pressure or 14.73 psia, as appropriate, and at a temperature base of sixty degrees Fahrenheit (60° F). Local sales base pressure is defined as four (4) ounces per square inch gauge (psig) pressure plus local average atmospheric pressure. The methods below describe the means to convert to this standard:
    - 1. For the majority of customers where natural gas is measured with positive displacement or turbine meters, correction to local sales base pressure shall be made for actual pressure and temperature with factors calculated from Boyle's and Charles' Laws. Boyle's Law states that gas contracts proportionately to pressure increase and expands proportionately to pressure decreases.

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2. Where gas is delivered at 20 psig or more, the deviation of the natural gas from Boyle's Law shall be determined by application of Supercompressibility Factors for Natural Gas. Supercompressibility will be calculated in the corrector using the Pipeline Research Committee International (PRCI) supercompressibility calculation found in the "Manual for the Determination of Supercompressibility Factors for Natural Gas", dated December 1962. For hand-billed accounts, application of supercompressibility factors will be waived on monthly billed volumes of 250 dk or less.
  - b. Customers needing more information in regards to Supercompressibility Factors may contact the Company to discuss by phone or to arrange an appointment at the Company's Sheridan Office to review the PRCI publication referenced above.
  - c. Each service meter shall clearly indicate the units of measurement. If the Company invoices customers in a different unit of measurement than the service meter indicates, the conversion factor shall be stated on the customer bill. In cases where special types of meters are used or where the readings of a meter must be multiplied by a constant to obtain the units consumed, that information shall be placed on the customer bill. When service is discontinued, a bill for final usage will be processed within 30 days following discontinuance.
10. BILLING ADJUSTMENTS –
- a. In accordance with Wyo. Stat. § 37-2-218, if the Company charged, collected or received any rate or rates in excess of the rates fixed in the Company's tariff, the Company shall immediately refund to the customer the difference between the rates fixed in the tariff and the rates charged, collected or received. This shall also apply to meter errors described in §V.7.
  - b. If the Company undercharged a customer as a result of a meter or metering inaccuracy or other continuing problem under the Company's control, the Company may bill the customer in accordance with Wyo. Stat.

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§ 37-2-222, for the amount of unmetered natural gas rendered in the 183 days immediately prior to the date the Company remedies the meter inaccuracy. The typical time period over which the undercharge may be collected shall be 12 consecutive months. The customer may elect to pay over a shorter period, or the Company may allow repayment over a longer period. This shall also apply to meter errors described in §V.7.

#### 11. PRIORITY OF SERVICE AND ALLOCATION OF CAPACITY- Priority of Service from Highest to Lowest

- a. Priority 1 - Firm sales services.
- b. Priority 2 - Small interruptible sales and small interruptible gas transportation service at the maximum rate on a pro rata basis.
- c. Priority 3 - Large interruptible sales and large interruptible transportation service at the maximum rate on a pro rata basis.
- d. Priority 4 - Small interruptible sales and transportation services from the highest rate to the lowest rate on a pro rata basis where equal rates are applicable among customers.
- e. Priority 5 - Large interruptible sales and transportation services from the highest rate to the lowest rate on a pro rata basis where equal rates are applicable among customers.
- f. Priority 6 - Gas scheduled to clear imbalances.

Montana-Dakota shall have the right, in its sole discretion, to deviate from the above schedule when necessary for system operational reasons and if following the above schedule would cause an interruption in service to a customer who is not contributing to an operational problem on Montana-Dakota's system.

Montana-Dakota reserves the right to provide service to customers with a lower priority while service to higher priority customers is being curtailed due to restrictions at a given delivery or receipt point. When such restrictions are eliminated, Montana-Dakota will reinstate sales and/or transportation of gas according to each customer's original priority.

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12. EXCESS FLOW VALVES – In accordance with Federal Pipeline Safety Regulations 49 CFR 192.383, the Company will install an excess flow valve on an existing service line at the customer's request on a mutually agreeable date. The actual cost of the installation will be assessed to the customer. Montana-Dakota will provide a cost estimate to the customer before installing the excess flow valve.
13. LATE PAYMENT - Amounts billed will be considered past due if not paid by the due date shown on the bill. An amount equal to the percentage set forth in §VI.2. will be applied to any unpaid balance existing at the immediate subsequent billing date, provided however, that such amount shall not apply where a bill is in dispute or a formal complaint is being processed. All payments received will apply to the customer's account prior to calculating the late payment charge. Those payments applied shall satisfy the oldest portion of the bill first.
14. RETURNED CHECK CHARGE - A charge as set forth in §VI.1.b. will be collected by the Company for any check not honored by the customer's financial institution for any reason.
15. MANUAL METER READING CHARGE – A charge as set forth in Rate 100, §VI.1.c. will be assessed monthly for customer(s) who have requested, and received Company approval, to have their meter read manually each month in lieu of an AMR-equipped meter read. Customers agree to contract for the manual reading of the meter for minimum period of one year.
16. TAX CLAUSE
- a. In addition to the charges provided for in the gas 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:
1. 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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400 N 4<sup>th</sup> Street  
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2. Any payment under any gas franchise ordinance amounting to more than 1% annually of the gross gas revenue derived by the Company from gas business within the corporate limits of the municipality, political subdivision, or other entity, imposing the payment.
  - b. The charges to be added to the customers' service bills under this clause shall be limited to the customers within the corporate limits of the municipality, political subdivision, or other entity imposing the tax.
17. UTILITY CUSTOMER SERVICES:
- a. The following services will be performed at no charge regardless of the time of performance:
    1. Fire and explosions calls.
    2. Investigate hazardous condition on customer premises, such as gas leaks, odor complaints, combustion gas fumes.
    3. Maintenance or repair of Company-owned facilities on the customer's premises.
    4. Pilot relights necessary due to an interruption in gas service deemed to be the Company's responsibility.
  - b. The following service calls will be performed at no charge during the Company's normal business hours of 8:00 a.m. to 5:00 p.m. Monday through Friday local time:
    1. A reconnection of service to an existing facility (cut-in) or a discontinuation of service (cut-out).
    2. High bills or inadequate service complaints.
    3. Location of underground Company facilities for contractors, builders, plumbers, etc.

### 18. UTILITY SERVICES PERFORMED AFTER NORMAL BUSINESS HOURS – For service requested by customers after the Company's normal business

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hours defined in §V.17.b. and on Saturday, Sunday, or legal holidays, a charge will be made for labor at the overtime service rate plus the cost of any required materials.

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

To ensure the Company can service the customer during normal business hours, the customer's call must be received by 12:00 p.m. on a regular workday for a disconnection or reconnection of service that same day. For calls received after 12:00 p.m. on a regular workday, customers will be advised that overtime service rates will apply if service is required that day and the work cannot be completed during normal working hours. Service may be scheduled for a future workday to avoid overtime charges.

19. NOTICE TO DISCONTINUE GAS SERVICE – Customers desiring to have their gas service discontinued shall notify the Company during regular business hours, at least one business day before service is to be discontinued. Such notice shall be by letter or telephone call to the Company's Customer Service Center. Saturdays, Sundays and legal holidays are not considered business days.
20. INSTALLING TEMPORARY METERING FACILITIES OR SERVICE - A customer requesting a temporary meter installation and service will be charged on the basis of direct costs incurred by the Company
21. RECONNECTION FEE FOR SEASONAL OR TEMPORARY CUSTOMER – A customer who requests reconnection of service, at a location where same customer discontinued the same service during the preceding 12-month period, will be charged a reconnection fee as follows:

Residential – The Basic Service Charge applicable during the period service was not being used, as well as the reconnection fee set forth in §VI.1.e. during normal business hours. Standard overtime rates will be applied for reconnecting service after normal business hours.

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Non-Residential – The Basic Service Charge applicable during the period while service was not being used. However, the reconnection charge applicable to seasonal business concerns such as irrigation, swimming facilities, grain drying and asphalt processing shall be the Basic Service Charge applicable during the period while service was not being used less the Distribution Delivery Charge revenue collected during the period in-service for usage above the annual authorized usage by rate class (Small Firm General = 156 dk and Large Firm General = 1,256 dk). A reconnection fee as set forth in §VI.1.e. will also apply during normal business hours. Standard overtime rates will be applied for reconnecting service after normal business hours.

Transportation customers who cease service and then resume service within the succeeding 12 months shall be subject to a reconnection charge as set forth in §VI.1.f. whenever reinstallation of the required remote data acquisition equipment is necessary.

22. DISCONTINUANCE OF SERVICE FOR NONPAYMENT OF BILLS – All amounts billed for service 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 amounts billed, such service may be discontinued by the Company in accordance with Chapter 3, Section 9 of the Wyoming Public Service Commission's Rules.

- a. Discontinuation Notice – The Company may discontinue service by reason of nonpayment after issuing a disconnect notice and upon not less than 7 days' notice of proposed termination for residential customers and not less than 3 days' notice for nonresidential customers. The disconnect notice will be mailed or delivered to the account holder or by telephone after customer verification and mailed to any third party previously designated by the account holder. Additional notice may be provided electronically. The notice shall contain:
  1. The name of the person whose account is delinquent and the service address to be discontinued;
  2. The amount of the delinquent bill;

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3. The effective date of the notice and the date on or after which service is to be discontinued;
  4. The Company's specific address and telephone number for information regarding how to avoid service discontinuation;
  5. The names of agencies or organizations that have notified the Company that they render assistance to eligible persons who are unable to pay their utility bills; and
  6. A statement advising the customer how to contact the Commission if discontinuation is disputed.
- b. Landlord Account Holders – When the Company is discontinuing service for nonpayment by a landlord, the Company shall post, mail, or deliver to each known tenant a written notice, excluding the dollar amount, informing the tenant only of the impending disconnection and advising each tenant it has 15 days to arrange directly for service, as permitted by the available facilities. The tenant shall not be held responsible for the landlord's delinquent utility billings. The Company will post the notice at a central location on or in the rental building if all tenants cannot be identified.
- c. The Company will notify the customer that, if prior to the initial date for the disconnection of service, the customer provides the Company with written verification from a health care provider responsible for the care of customer or his/her co-habitants stating that their health or safety would be seriously endangered if service were discontinued, the Company shall extend the date for discontinuation set forth in the notice by 15 days (22 days total) to allow for bill payment.
- d. The Company shall attempt to make actual contact with the customer either in person or by telephone, after the customer verification, before discontinuing service during the cold weather period of November 1 through April 30.

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- e. The Company shall also provide notice of discontinuation or account delinquency to a third party if the customer or person acting for the customer has requested that the Company do so after the customer identification verification. The Company shall advise the Customer that the right to request third-party notification does not create third-party liability for payment.
- f. If the customer defaults, the Company shall provide the discontinuation notice to the guarantor and the customer simultaneously. The guarantor's service shall not be subject to discontinuation as a result of the customer's default.
- g. The Company shall remove a guarantor when:
  - 1. The customer has received 12 consecutive months of service with no cause for discontinuation, bills have been paid when due and the customer passes an objective credit screen;
  - 2. The guarantor has paid all amounts due for service through the date the Company received the request to terminate the guarantor agreement; or
  - 3. An additional agreement with the Company is in place.
- h. Reconnection After Nonpayment - To have service restored after discontinuation of service for nonpayment, a residential or a nonresidential customer must first pay a charge for reconnection as set forth in §VI.1.d., Service Charges, and must also pay the delinquent balance in full or execute a deferred payment agreement, if eligible. The Company may also require a deposit to secure payment of future gas bills. See §V.6 Customer Deposits.

To ensure the Company can service the customer during normal business hours, the customer's call must be received by 12:00 p.m. on a regular workday for a disconnection or reconnection of service that same day. For calls received after 12:00 p.m. on a regular workday, customers will be advised that overtime service rates will apply if service is required that day and the work cannot be completed during

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normal working hours. Service may be scheduled for a future workday to avoid overtime charges.

- i. Discontinuation - The Company may discontinue service between 8:00 a.m. to 4:00 p.m., Monday through Thursday if not a legal holiday or the day preceding a legal holiday without further notice when:
  - 1. The notification period has elapsed and the delinquent account has not been paid; or
  - 2. Acceptable payment arrangements have not been made with the Company.
- j. The Company shall assist persons who are unable to pay their natural gas service bills with determining available government assistance.

#### 23. PROHIBITIONS AGAINST SERVICE DISCONTINUATION - The Company shall not terminate service for bill nonpayment under the following conditions:

- 1. On a legal holiday as defined by Wyoming Statute §8-4-101, or the day before such a legal holiday;
- 2. During the period from December 24 through January 2, inclusive;
- 3. On any day in which the Company cannot reconnect service;
- 4. If the customer enters into an arrangement with the Company for payment of the delinquent billing over a reasonable time and the customer complies with payment arrangements;
- 5. If there are monies owed due to meter or other billing error, and the customer complies with payment arrangements;
- 6. At a previous address for a different class of service;
- 7. For nonutility services or appliance or merchandise provided by, or sold by, the Company to the customer;

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8. If the customer is paying the gas service bills on time, even though a prior customer with an undisputed delinquent bill for service resides or conducts business at the same address;
9. If a gas service bill, or part of a bill, is legitimately in dispute, and if the customer duly pays the gas service bill, or bill portion, not in dispute;
10. If the temperature for the community closest to the customer's location is forecasted by the National Weather Service or other reputable source to be below 32°F in the impending 48 hours, or if conditions are otherwise especially dangerous to health, and the customer is:
  - a. A residential customer;
  - b. A non-residential customer providing service essential for the protection of public health, safety or welfare; and;
  - c. Unable to pay for service in accordance with the Company's billing requirements and is actively seeking government assistance or has exhausted such assistance; or
  - d. Able to only pay for service in installments; or
11. If a customer pays a bill on time for a specific service at a specific location, even though the customer is receiving another service that is subject to discontinuation for bill nonpayment.

#### 24. DISCONTINUANCE OF SERVICE FOR CAUSES OTHER THAN NONPAYMENT OF BILLS -The Company reserves the right to discontinue service for any of the following reasons:

- a. In the event of customer use of equipment in such a manner as to adversely affect the Company's equipment or service to others.
- b. In the event of tampering with the equipment furnished and owned by the Company.

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- c. For violation of or noncompliance with the Company's rules on file with the Commission.
  - d. For failure of the customer to fulfill the contractual obligations imposed as conditions of obtaining service.
  - e. 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
  - f. The Company may discontinue service for causes other than non-payment after issuing a discontinuance notice in accordance with §V.22 a and §V.22 d. The discontinuation of service for causes other than non-payment may occur on the days and during the hours as stated in §V.22 i.
  - g. 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.
  - h. The Company may discontinue service without advance notice for reasons of safety, health, cooperation with civil authorities, fraudulent use, tampering with or destroying Company facilities.
  - i. The Company may collect a reconnect fee, as prescribed in §VI.1.d. before restoring gas service which has been discontinued for the above causes.
25. UNAUTHORIZED USE OF SERVICE - Unauthorized use of service is defined as any deliberate interference or tampering with a Company meter, pressure regulator, registration, connections, equipment, seals, procedures or records resulting in a loss of revenue to the Company. Unauthorized service includes reconnection of service that has been discontinued, without the Company's consent.

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- a. Types of unauthorized use of service includes, but is not limited to, tampering or unauthorized reconnection by the following methods:
1. Bypass piping around meter.
  2. Bypass piping installed in place of meter.
  3. Meter reversed.
  4. Meter index disengaged or removed.
  5. Service or equipment tampered with or piping connected ahead of meter.
  6. Tampering with meter or pressure regulator that affects the accurate registration of gas usage.
  7. Gas being used after service has been discontinued by the Company.
  8. Gas being used after service has been discontinued by the Company as a result of a new customer turning gas on without the proper connect request.
- b. Any charges for damage to Company property will be billed to the customer. The customer may also be charged for:
1. Time, material and transportation costs used in investigation or surveillance.
  2. Estimated charge for non-metered gas.
  3. On-premise time to correct situation.
  4. A minimum fee of \$30.00 will apply, §VI (1)(d).
- All such charges shall be at current standard or customary amounts being charged for similar services, equipment, facilities and labor by the Company.
- c. Reconnection of Service:  
Customer service discontinued for any of the above reasons shall be reconnected after a customer has furnished satisfactory evidence of compliance with Company's rules and conditions of service, and paid any service charges which are due, including:

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1. All delinquent bills, if any;
  2. The amount of any Company revenue loss attributable to said unauthorized use of service;
  3. Expenses incurred by the Company in replacing or repairing the meter or other equipment, costs incurred in preparation of the bill, and costs outlined in paragraph b. above;
  4. Applicable Reconnection fee; and
  5. A cash deposit, the amount of which will not exceed the maximum amount determined in accordance with §V.6 Customer Deposits.
26. RATE FOR 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 percent.
27. REFUSAL TO SERVE NEW CUSTOMERS OR EXPAND EXISTING SERVICE – The Company may refuse to provide, expand or materially change service to a requesting customer when:
- a. The Company does not have adequate facilities to render the service requested and the customer is not willing to comply with the Company's gas service extension policy tariffs.
  - b. The requested service appears to be unsafe or likely to adversely affect service to another customer; or
  - c. The requesting customer is indebted to the utility for service previously rendered and satisfactory payment arrangements have not been made with the Company.
    1. If indebtedness for service rendered at a former location is in dispute, the requesting customer shall be provided service at the new location upon complying with the Company's deposit requirements and paying the amount in dispute. Upon settlement of the disputed amount, any balance due the customer shall be refunded with accrued interest at the Commission Authorized

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Interest Rate described in Chapter 1, Section 2(a)(xv) of the Wyoming Public Service Commission's Rules.

2. The Company shall not refuse service to a new customer because of debts of a previous customer at the same location.
  3. The Company may refuse service due to unpaid line extension charges for facilities serving the location.
28. SEE ALSO THE FOLLOWING RATES FOR SPECIAL PROVISIONS:
- Rate 119 - Interruptible Gas Service Extension Policy
  - Rate 120 - Firm Gas Service Extension Policy
  - Rate 122 - AutoPay Plan
  - Rate 124 - Replacement, Relocation and Repair of Gas Service Lines
  - Rate 125 - Balanced Billing Plan
  - Rate 136 - Rule Covering Company Meter Testing Program

### VI. MISCELLANEOUS CHARGES

	Amount or Reference
1. Service Charges	
a. Consumer deposits	\$V.6.
b. Returned check	\$30.00
c. Manual Meter Reading Charge	\$26.05
d. Reconnect charge after discontinuation of service for nonpayment or other causes	
- During normal business hours 8:00 a.m. - 5:00 p.m. local time	\$30.00
- After normal business hours	Minimum of \$140.00

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- e. Minimum reconnect charge applicable to seasonal or temporary customers (See Rate 100 §V.21)
  - During normal business hours \$30.00 minimum
  - After normal business hours Minimum of \$140.00
- f. Reconnection charge applicable to transport customers when electronic metering must be reinstalled \$160.00
- g. Special test of meter at customer's request (see Rate 100 §V.7f.2. as to when this charge is applicable)
  - Meter error more than  $\pm 2\%$  None
  - Meter error within  $\pm 2\%$  and meter was tested within the prior 12 months Labor & materials Minimum of \$30.00
- h. Service request after normal business hours Materials & Labor Minimum of \$140.00
- i. Firm service main extension Rate 120
- j. Interruptible service main extension Rate 119

	Per Month	Approx. Annual Percent
2. Late Payment Charges – Undisputed (on unpaid balance)	1%	12%

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### SUMMARY BILLING PLAN Rate 115

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#### Availability:

Under the Company's Summary Billing Plan, customers are provided an optional billing arrangement under which a customer's multiple premises may be consolidated into one billing statement each month. This billing arrangement is available in all communities served by the Company for customers who voluntarily agree to participate in the Summary Billing Plan and who continue to meet the availability and terms and conditions of the plan.

The Company may limit the number of premises participating in the plan and exclude services based on rate and/or customer class or credit standing with the Company. Seasonal, short-term, or temporary customers will not be allowed to enroll. Participation in other optional programs such as Balanced Billing may also limit a customer's ability to participate in this billing arrangement. This is not an all-inclusive list of exclusions and service enrollment is at the Company's sole discretion.

#### General Terms and Conditions:

1. A customer requesting Summary Billing must provide 45 days advanced notice of their request to enroll.
2. Customer agrees to contract for Summary Billing for a minimum of one year.
3. Each service enrolled in the Summary Billing Plan shall be billed at the otherwise applicable rate schedule.
4. The Company, at its sole discretion, will select the bill date for an enrolled customer's Summary Bill.
5. Enrolled customers need only make one payment each month covering the total amount due for all services included in the Summary Bill.
6. Payment policies remain in effect for each customer participating in the plan. Any determination of delinquencies will be based on the bill date of the Summary Bill.
  - a. If a customer participating in the Summary Billing Plan falls into arrears, the Company, at its sole discretion, may discontinue this optional billing arrangement and revert the services into separate billing statements.

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#### SUMMARY BILLING PLAN Rate 115

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7. Either the customer or the Company may cancel a customer's Summary Billing Plan with a 45-day advanced notice of cancellation. Upon cancellation of the plan, a customer's services will revert into separate billing statements.
  - a. Upon cancellation of a Summary Billing Plan, the customer may not request the establishment of a new Summary Billing Plan for at least one year after cancellation.
8. The Company will not be liable for any customer costs which may result from any refusals, delays or failures resulting from requests for, or changes to, a customer's Summary Billing Plan.

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### INTERRUPTIBLE GAS SERVICE EXTENSION POLICY Rate 119

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The policy of Montana-Dakota Utilities Co. for gas extensions necessary to provide interruptible sales or interruptible transportation service to customers is as follows:

1. Contribution
  - a. Prior to construction, the customer shall contribute an amount equal to the total cost of construction including all gas main extensions, valves, service line(s), cathodic protection equipment, regulators, meters (excluding remote data acquisition equipment), any required payments made by the Company to the transmission pipeline to accommodate the extensions, and other costs as adjusted for federal and state income taxes.
  - b. The contribution shall be made by:
    - i. A one-time payment prior to construction, or
    - ii. The customer may post a bond, irrevocable letter of credit, or a written guarantee commitment in the amount of the total contribution required prior to construction. Such bond, issued by a bonding company authorized to do business in the state, letter of credit, or written guarantee commitment, shall be effective for a five-year period commencing at the plant in service date, and is subject to approval and acceptance by the Company. If at the end of the original five-year term, a contribution requirement exists for the subject project, the surety or guarantor shall pay the Company for such contribution requirement, or
    - iii. Customer, upon approval by Company, may finance the amount of the required contribution subject to the following conditions: 1) maximum contribution to be financed shall be determined by the Company at its sole discretion, 2) maximum term shall be five years, 3) interest will be charged at the Company's current cost of debt determined at the time of construction.

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- c. Upon completion of construction, the contribution amount will be adjusted to reflect actual costs, and an additional charge may be levied or a refund may be made.
  - d. Remote data acquisition equipment costs shall be subject to the terms and conditions specified in Transportation Service Rates 81 and 82.
2. Refund
- a. If within the five-year period from the extension(s) in service date, the total of the customer's contribution and actual margin paid to the Company equals or exceeds the total present value of the revenue requirement associated with the extension, Company shall refund the amount exceeding the revenue requirement on the following basis:
    - i. Annually, beginning at the 2nd anniversary of the extension(s) in-service date, the Company will refund to the customer, the amount exceeding the total present value of the revenue requirement at a rate of 50% of the current year margin associated with the customer's actual throughput.
    - ii. Customers who have posted a bond, letter of credit, or a written guarantee commitment will be notified of any reduction in surety or guarantee requirements based on the above calculation.
    - iii. No refunds will be made for amounts less than \$25.
  - b. Interest will be calculated annually by the Company on any refund amounts and shall be equal to the Commission Authorized Interest Rate in Chapter 1, Section 2(a)(xv) of the Wyoming Public Service Commission's Rules.
  - c. No refund shall be made by the Company after the five-year refund period has expired, and in no case shall the refund, excluding interest, exceed the amount of contribution made by the customer.

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# Montana-Dakota Utilities Co.

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 3  
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### FIRM GAS SERVICE EXTENSION POLICY Rate 120

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The policy of Montana-Dakota Utilities Co. for gas extensions necessary to provide firm sales or firm transportation service to customers is as follows:

#### A. General Rules Applicable to all Firm Service Extensions

1. An extension will be constructed without a contribution if the estimated capital expenditure is cost justified as defined in Paragraph B.
2. The Company may require customer or developer cost participation if the estimated capital expenditure is not cost justified as specified in Paragraph B.
3. The extension will be considered cost justified if the calculated Maximum Allowable Investment equals or exceeds the estimated capital expenditure using the following formula:

Maximum Allowable Investment =

$$\frac{(\text{Annual Basic Service Charge} + (\text{Project Estimated Annual Dk x} \\ \text{Distribution Delivery Charge or Demand Charge}))}{\text{Levelized Annual} \\ \text{Revenue Requirement Factor}}$$

Levelized Annual Revenue Requirement Factor is defined as the annual rate required to recover the present value of a project over the life of a project. The Levelized Annual Revenue Requirement Factor – 13.313%

4. Cost of the extension shall include the gas main extension(s), valves, service line(s), cathodic protection equipment, any required payments made by the Company to the transmission pipeline company to accommodate the extension(s), and other costs up to, and including, the riser.

The service line is that portion of the gas service extending from the gas main to the connection at the house regulator and/or meter.

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### FIRM GAS SERVICE EXTENSION POLICY Rate 120

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5. Where cost participation is required, such extension is subject to execution of the Company's standard agreement for extensions by the customer or the developer and Company.
6. A refund will be made in accordance with §B.2. a-c as required within a five-year period from the extension(s) in service date. Interest will be calculated annually by the Company on any refund amounts and shall be equal to the interest rate applicable to customer deposits as established in Chapter 1, Section 2(a)(xv) of the Wyoming Public Service Commission's Rules.

No refund shall be made by Company after the five-year refund period and in no case shall the refund excluding interest, exceed the amount of the contribution.

7. The Company reserves the right to charge customer the cost associated with providing service to customer if service is not initiated within 12 months of such installation.

#### B. Customer Extensions

Cost participation for extensions where customers will be immediately available for service is as follows:

1. Contribution –
  - a. When a contribution is required, the customer(s) shall pay the Company the portion of the capital expenditure exceeding the footage allowance or Maximum Allowable Investment as determined in accordance with Paragraph B.
  - b. The contribution shall be made by:
    - i. A one-time payment prior to construction, or

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### FIRM GAS SERVICE EXTENSION POLICY Rate 120

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- ii. Payment of 25% of the contribution prior to construction and the balance in no more than twenty-four equal monthly installments. If customer discontinues service within the twenty-four month period, the balance will be due and payable upon discontinuance of service, or
  - iii. Customer may post a bond, irrevocable letter of credit, or a written guarantee commitment in the amount of the required contribution prior to construction. Such bond, issued by a bonding company authorized to do business in the state, letter of credit, or written guarantee commitment, shall be effective for the original five-year term and is subject to approval and acceptance by the Company. If at the end of the original five-year term, a contribution requirement exists in the subject project based on a recalculated maximum expenditure, the surety or guarantor shall reimburse the Company for such recalculated contribution requirement, or
  - iv. Customer, upon approval by Company, may finance with the Company the amount of the required contribution subject to the following conditions: 1) maximum contribution to be financed shall be determined by the Company at its sole discretion, 2) maximum term shall be five years, 3) interest will be charged at the Company's current cost of debt determined at the time of construction.
- c. Upon completion of construction, the contribution amount will be adjusted to reflect actual footage or installed costs, and an additional charge may be levied or a refund may be made.
  - d. If within the five-year period from the extension(s) in service date, the number of active customers and/or related volumes exceeds the projections, the Company shall recompute the contribution requirement.

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### FIRM GAS SERVICE EXTENSION POLICY Rate 120

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- e. The recalculated contribution requirement shall be collected from the new applicant(s).
- 2. Refund -
  - a. The Company will refund to the original contributor(s) the amount required to reduce their contribution to the recalculated contribution requirement as defined in Paragraph 1.d. and 1.e. above. No refunds will be made for amounts less than \$25. Customers who have posted a bond, letter of credit, or written guarantee commitment will be notified of any reduction in surety or guarantee requirements.
  - b. No refunds will be made until the new applicants begin taking service from the Company.
  - c. If the addition of new customers will increase the contribution required from existing customer(s), the extension will be considered a new extension and treated separately.
- 3. Incremental Extension Surcharge -
  - a. The Company, in its sole discretion, may offer an Incremental Extension Surcharge (Surcharge) to groups of customers requesting service totaling 10 or more when the total estimated cost would otherwise have been prohibitive under the Company's present rates and gas service extension policy. The contribution requirement to be collected under the Surcharge shall be the amount of the capital expenditure in excess of the Maximum Allowable Investment determined in accordance with Paragraph A.3.
    - i. A minimum up-front payment of \$100.00 will be collected from each customer who signs an agreement to participate in the expansion.

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- ii. For projects that are expected to be recovered within a 5-year period, the Surcharge shall be set at a fixed monthly charge of \$5.00 per month plus \$1.50 per dk.
- iii. For projects that are not expected to be recovered within a 5-year period, the Surcharge shall be set at a fixed monthly charge of \$5.00 per month plus a volumetric surcharge designed to provide recovery of the contribution requirement in a 5-year period.
- b. The Surcharge shall remain in effect until the net present value of the contribution requirement, calculated using a discount rate equal to the overall rate of return authorized in the last rate case, is collected.
- c. The Surcharge shall apply to all customers connecting to natural gas service within the extension area until the contribution requirement is satisfied.
- d. The net present value of the Surcharge will be treated as a contribution-in-aid of construction for accounting purposes.

#### C. Developer Extensions

Cost participation may be required for extensions such as a subdivision or mobile home court, in which a developer is installing roads, utilities, etc., before housing is built.

- 1. Contribution –
  - a. When a contribution is required, the developer shall pay the Company the portion of the capital expenditure exceeding the Maximum Allowable Investment as determined in accordance with Paragraph B.2.

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### FIRM GAS SERVICE EXTENSION POLICY Rate 120

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- b. The contribution shall be made by:
    - i. A one-time payment prior to construction, or
    - ii. Developer may post a bond, irrevocable letter of credit, or a written guarantee commitment in the amount of the required contribution prior to construction. Such bond, issued by a bonding company authorized to do business in the state, letter of credit, or a written guarantee commitment, shall be effective for the original five-year term and is subject to approval and acceptance by the Company. If at the end of the original five-year term, a contribution requirement exists in the subject project based on a recalculated maximum expenditure, the surety shall reimburse the Company for such recalculated contribution requirement, or
    - iii. Customer, upon approval by Company, may finance with the Company the amount of the required contribution subject to the following conditions: 1) maximum contribution to be financed shall be determined by the Company at its sole discretion, 2) maximum term shall be five years, 3) interest will be charged at the Company's current cost of debt determined at the time of construction.
  - c. Upon completion of construction, the contribution amount will be adjusted to reflect actual installed costs, and an additional charge may be levied or a refund may be made.
2. Refund -
- a. If within the five-year period from the extension(s) in service date, the number of active customers and related volumes exceeds the projections, the Company shall recompute the contribution requirement by recalculating the Maximum Allowable Investment. Such recalculation shall be done annually based upon the anniversary of the extension(s) in service date.

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W.P.S.C. Tariff No. 3  
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### FIRM GAS SERVICE EXTENSION POLICY Rate 120

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- b. The Company will refund to the developer the amount required to reduce their contribution to the recalculated contribution requirement. No refunds will be made for amounts less than \$25. Developers who have posted a bond, letter of credit, or written guarantee commitment will be notified of any reduction in surety or guarantee requirements.
- c. If the addition of new customer(s) will increase the contribution required from the developer, the extension will be considered a new extension and treated separately.

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W.P.S.C. Tariff No. 3  
Original Sheet No. 140

### AUTOPAY PLAN Rate 122

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#### Availability:

The AutoPay Plan provides customers the option to automatically have their gas service bill, including miscellaneous charges, deducted from their checking account. This option is available in all communities served by the Company to all customers who voluntarily agree to participate in the AutoPay Plan and who have not issued two or more NSF checks to the Company in the preceding 12 month period and are not currently utilizing the Low Income Energy Assistance Program (LIEAP).

#### General Terms and Conditions:

1. All provisions set forth in customer's otherwise applicable standard rate schedule shall apply.
2. The Company will issue a bill each month to the customer.
3. The bill will indicate that the amount shown in the "Amount Due" column will be automatically deducted from the customer's checking account each month on the due date indicated on the customer's bill.
4. All customers who accept the AutoPay Plan shall sign an authorization form.
5. The Company has the right to remove a customer from the AutoPay Plan if the financial institution has advised the Company of two NSF check instances within the preceding 12 month period. Thereafter, customer shall be again eligible to participate in the AutoPay Plan in the future providing that the customer has complied with the "Availability" section above.
6. Customers utilizing the AutoPay Plan who subsequently use the LIEAP will be removed from the AutoPay Plan by the Company.
7. The customer may cancel the use of the AutoPay Plan option by notifying the Company in writing.

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W.P.S.C. Tariff No. 3  
Original Sheet No. 150

### REPLACEMENT, RELOCATION AND REPAIR OF GAS SERVICE LINES Rate 124

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1. Where service line location changes are required due to building encroachments (a building is being constructed or is already located over a service line, etc.), the customer, shall be charged on the basis of direct costs incurred by the Company.
2. Whenever a service line is damaged by the customer or someone under the employ of the customer necessitating the service line to be either repaired or replaced by the Company in whole or in substantial part, such work shall be charged for on a direct cost basis. If the damage was caused by independent contractors, not in the employ of the customer, the charges shall be billed directly to such contractor.
3. Service line changes necessary to increase the size and capacity of an existing service line because of increased demand shall be treated in accordance with the Firm Gas Service Extension Policy Rate 120.

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## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 3  
Original Sheet No. 160

### BALANCED BILLING PLAN Rate 125

Page 1 of 2

#### 1. SCOPE

- A. The Balanced Billing Plan (Plan) provides gas customers with a method of paying for gas usage to avoid the highs and lows associated with normal monthly billing. The customer's monthly bill is computed by taking an average of the usage during the previous twelve months'. Current energy rates are then applied to this average monthly usage to calculate the current payment due. Qualified customers with less than 12 month's history at their current premises are also allowed to enroll in the Plan.
- B. Monthly bills rendered under this Plan, as indicated in Paragraph A. above, will be based upon a moving average consumption and will normally change each month. The moving average will change slightly each month and thus appropriate dollar adjustments will be made to the billed amount each month.
- C. The provisions of this Plan are applicable to all residential customers and to certain nonresidential gas customers served. Accordingly, the following nonresidential customers do not qualify for this Plan:
  - 1. Industrial, municipal, or inter-departmental gas customers.
  - 2. Combination customers who have electric demand meters – neither the gas nor electric usage qualifies for the Plan.
  - 3. Interruptible or otherwise controlled customers.
  - 4. Seasonal, short-term or temporary customers.
  - 5. Customers whose accounts are delinquent and who have not entered into a deferred payment agreement.
  - 6. Customers whose usage patterns are not sufficiently predictable so as to permit estimation on an annual basis with a reasonable degree of certainty.

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## State of Wyoming Gas Rate Schedule

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W.P.S.C. Tariff No. 3  
Original Sheet No. 161

### BALANCED BILLING PLAN Rate 125

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#### 2. PROCEDURE

- A. Customers must contact the Company to request enrollment in the Balanced Billing Plan.
- B. If the customer's account is current and otherwise qualifies for enrollment in the Plan as provided in Section 1.C., the customer will be so informed at the time of customer's request and the customer's account record in the Customer Information System will be so coded.
- C. As indicated in Section 1.C.5., customers who are delinquent cannot qualify for the Plan unless they are able to pay any amounts past due or enter into a deferred payment agreement with the Company. The customer agrees to pay a reasonable fixed amount each month in addition to the Balanced Billing Plan payment amount until such arrears are paid in full.
- D. Customers enrolled in the Plan will continue to be billed under the Plan provisions until they request removal or they are sixty days in arrears and are removed from the Plan by the Company.
- E. If a customer desires to be removed from the Plan, the customer must contact the Company to request withdrawal from the Plan. Removal from plan will be effective following contact regarding withdrawal. Upon such removal the total unpaid balance becomes due at the next billing cycle. If a credit balance exists it may be refunded or applied to the next cycle billing, at the customer's discretion.
- F. If a customer is removed from the Plan due to delinquency as indicated above, the total unpaid balance in their account becomes due and payable.

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## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 3  
Original Sheet No. 170

### **RULE COVERING COMPANY METER TESTING PROGRAM Rate 136**

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#### **APPLICABILITY:**

The policy of Montana-Dakota Utilities Co. for the testing of gas meters in compliance with Chapter 3, Section 18 of the Wyoming Public Service Commission's Rules.

#### **NEW METERS:**

1. This meter test schedule shall not apply to meters with capacity in excess of 650 cubic feet per hour (cfh) at 0.5 inch water column (wc). Such meters shall continue to be tested and adjusted or repaired, if necessary, at a periodic interval of at least once in ten years. Meter supplier(s) shall provide test data for all new meters.
2. New meters received from a manufacturer shall be subjected to testing on a random sample basis of five percent (5%) of the total received at full load and light load. If unsatisfactory, all meters in the shipment shall be tested, and repaired if necessary, or the shipment shall be returned to the manufacturer. As new or replacement equipment is placed into service, pertinent information describing and identifying such equipment will be submitted to the Wyoming Public Service Commission.

#### **METER TEST PROGRAM:**

1. All active meters, 650 cfh and smaller, will be combined into a single random test program. The population of meters shall come from the state of Wyoming, North Dakota, Minnesota, Montana and South Dakota. At the time the random selection is made, meters more than ten years old and active meters that have not been tested in the last ten years will be placed into an installation class defined model installation date lot to be part of a random population for testing.
2. All active meters will be assigned to lots on the basis of installation date. The meters to be sampled will be divided into lots based on manufacturer, type, and last install date in five year groups. The minimum number of samples taken from each lot will be as specified by Military Standard No. 414, Sample Procedures and Table for Inspection by Variables for Percent Defective, inspection level IV with specification limits of +/- 2.0%.

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Original Sheet No. 171

### RULE COVERING COMPANY METER TESTING PROGRAM Rate 136

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3. The meters tested within the random test program will include meters selected via a computer generation random selection process and meters pulled from the customers' premises in correlation with service technicians being on-site for other service related work not including meter testing requested by the customer or initiated by the Company.
4. Lot acceptability will be determined by the standard deviation method based on single sample, double specification limit, variability unknown, for an acceptable quality level of 15% as follows:
  - a. A meter lot for which the sample is satisfactory will remain in service.
  - b. A meter lot for which the sample fails may remain in service if it passed the previous year and if no more than 10% of the sample registers over 102%.
  - c. A meter lot for which the sample fails will be removed if the lot failed the previous year or if more than 10% of the sample registers over 102%.
    - i. If evaluation determines the group is homogeneous, then the entire group will be removed.
    - ii. If group is not homogeneous and a subset of the group is found defective, that subset will be removed. A failed lot of meters will be removed from service for testing and repair within one year.
5. The Company will report the results of the meter test program annually. The test period will cover the fiscal year July 1 to June 30 with a report available to the Commission by April of each year.

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### RULE COVERING COMPANY METER TESTING PROGRAM Rate 136

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#### METER TEST EQUIPMENT:

<u>TYPE</u>	<u>MANUFACTURER</u>	<u>USED FOR</u>	<u>DEGREE OF ACCURACY</u>	<u>CALIBRATION INTERVAL</u>
Snap Series III	American (Ser. No. XU-3097)	Gas Meter Standard	±0.13%	36 Months
Snap Series III	American (Ser. No. XU-3403)	Gas Meter Standard	±0.13%	36 Months
Snap Series III	American (Ser. No. L61108-238)	Gas Meter Standard	±0.13%	36 Months
Model 6	Dresser (Ser. No. 9325089/9325158)	Gas Meter Standard	+0.55%	5 Years
Model 6	Dresser (Ser. No. 9390008/9390014)	Gas Meter Standard	+0.55%	5 Years

1. The interval for the calibration of above listed test equipment is 3 years for the Snap provers and 5 years for the Model 6 prover. The test equipment is either sent to the factory to be calibrated or a factory representative comes on site to calibrate the test equipment.
2. The factors that influence the accuracy are temperature and humidity. Since the testing is conducted indoors where temperature is maintained well within the range of 55 and 85 degrees F° and humidity is maintained below 90%, the test equipment maintains accuracy during the testing of meters.
3. All apparatus used for test and calibration purposes shall be cared for and maintained as recommended in the manufacturer's operating and

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### RULE COVERING COMPANY METER TESTING PROGRAM Rate 136

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maintenance manuals. Appropriate carrying cases designed for the purpose shall be used when such equipment is transported to or from its normal service location for the purposes of performing tests, normal maintenance repairs, or recalibration.

4. Meters and other equipment which will be used as a reference standard to certify other equipment shall be kept in a temperature stable environment, and shall be calibrated annually except as otherwise stated herein. Bell provers, transfer provers or sonic nozzles shall be recertified at not more than five-year intervals and after being moved or dimensionally altered. Recertification shall be accomplished by use of standard-cubic foot bottles, by strapping or by optical measurement techniques, the latter being the preferable method.
5. Meters and other equipment which are used as a reference standard shall only be used for calibration purposes, and shall not be used for trouble shooting, corrective maintenance or any other activity which might jeopardize the integrity of the instrument for calibration accuracy. Calibrating meters equate a cubic foot of gas with the amount of gas that occupies one cubic foot, dry, at 60° F at 14.73 pounds per square inch absolute.
6. Calibration of the items used by the utility for reference standards shall be accomplished by an instrument with a higher degree of accuracy than the item being calibrated with the accuracy of said instrument being traceable to the National Institute of Standards and Technology (NIST).
7. Whenever any gas meter is tested, the test record shall be preserved, including the information necessary for identifying the meter, the reason for making the test, the reading of the meter upon removal from service and the result of the test, together with all data taken at the time of the test in sufficiently complete form to permit the convenient checking of the methods employed and the calculations. The record shall be kept for the life of the meter. The standard used to make this test shall be in a current calibration status. Each item of portable test equipment shall be marked with a tag or adhesive label to show the last calibration date.

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## State of Wyoming Gas Rate Schedule

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W.P.S.C. Tariff No. 3  
Original Sheet No. 180

### SERVICE INTERRUPTION REPORTING PLAN Rate 137

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The following sets forth the Company's Service Interruptions and Reporting Plan as required in Chapter 3, Sections 3, 27, and 28 of the Wyoming Public Service Commission (Commission) Rules, applicable to service provided by the Company in its Wyoming service territories.

- A. The Company shall make all reasonable efforts to avoid interruptions of service and, when interruptions occur, the Company shall re-establish service in a timely and safe manner.
- B. The Company shall submit a written, confidential list of contact names and telephone numbers to be used when a service interruption occurs. The list shall:
  - 1. Be resubmitted each January and July, whether or not the contact person(s) have changed since the last submittal
  - 2. Be updated as soon as a contact changes;
  - 3. Include contact information to communicate with individuals who are knowledgeable about service interruptions, the estimated duration and the possible causes of service interruptions; and
  - 4. Include contact information to communicate with individual(s) who are available to confer with the Commission at all times.
- C. The Company shall notify the Commission of all planned major service interruptions at least 48 hours in advance, except in emergencies.
- D. The Company shall make reasonable effort to provide affected customers two business days' notice of a planned service interruption.
- E. The Company shall make reasonable efforts to establish mutual aid agreements with other entities to assist in the recovery of large scale service interruptions, natural disasters or other significant events.

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Original Sheet No. 181

### SERVICE INTERRUPTION REPORTING PLAN Rate 137

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F. Definitions of Major Service Interruptions – Reportable incidents that will or are likely to produce significant detrimental effects to customers, facilities or public safety shall be reported to the Commission within two hours of the incident by contracting the Commission's Service Interruption Reporting Telephone (SIRT) number. Reportable Incident shall be defined as:

1. An event that causes loss to the operator or others and results in:
  - a. Estimated property damage of at least \$50,000;
  - b. Death, in-patient hospitalization, damage to the Company's property which substantially affects service to the public or is otherwise significant in the judgement of the Company;
2. Any incident reportable to the National Response Center:
  - a. An event that involves a release of gas from a pipeline, or of liquefied natural gas, liquefied petroleum gas, refrigerant gas or gas from an LNG facility, and that results in one or more of the following:
    - i. A death, or personal injury necessitating in-patient hospitalization;
    - ii. Estimated property damage of \$50,000 or more, including loss to the operator and others, or both, but excluding cost of gas lost; or
    - iii. Unintentional estimated gas loss of three million cubic feet or more.
  - b. An event that results in an emergency shutdown of an LNG facility. Activation of an emergency shutdown system for reasons other than an actual emergency does not constitute an incident.
3. Any service interruption, planned or otherwise occurring, that results in:
  - a. Loss of service to 25 gas meters or customers, whichever is greater;
  - b. An evacuation that displaces 25 people or more.

G. Commission Notification Requirements:

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**Effective Date:** Service rendered on and after

**Issued By:** Travis R. Jacobson  
Director – Regulatory Affairs

**Docket No.:** 30013-415-GR-24



# Montana-Dakota Utilities Co.

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 3  
Original Sheet No. 182

### SERVICE INTERRUPTION REPORTING PLAN Rate 137

Page 3 of 4

1. The Commission will be notified within two (2) hours of the known commencement of a Reportable Incident using the Commission's Service Interruption Reporting Telephone number (SIRT). Within 24 hours, the Company will follow up with an email report or as otherwise directed by the Commission.
2. Reports to the Commission shall include, but not be limited to:
  - a. Location and geographic extent;
  - b. Damage assessment, explaining the risks and likely effects on the public, the utility's customers, other utilities and telecommunications services;
  - c. Date and time the service interruption began;
  - d. Number of customers or individuals affected;
  - e. Cause, if known;
  - f. Estimated time of service restoration and basis for estimate;
  - g. Any deaths or injuries;
  - h. Efforts being undertaken to restore service;
  - i. Efforts being undertaken to assist affected individuals;
  - j. Other governmental agencies notified;
  - k. Contact information for reporting individual(s);
  - l. If the event is ongoing, the time interval until the Commission will be updated; and
  - m. Any other information that may be necessary to assess threats or damage.

#### H. Commission Reporting Requirements:

1. Quarterly reports of all Service Interruptions, other than meter testing or change outs will be filed with the Commission within 30 days after the end of each calendar quarter in conformance with Section 28 of the Wyoming Public Service Commission's Rules.

**Date Filed:** October 31, 2024

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Director – Regulatory Affairs

**Docket No.:** 30013-415-GR-24



# Montana-Dakota Utilities Co.

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

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W.P.S.C. Tariff No. 3  
Original Sheet No. 183

### SERVICE INTERRUPTION REPORTING PLAN Rate 137

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Page 4 of 4

2. These records shall be retained by the Company for a minimum of six years.
3. The Company shall annually review its Service Interruption Reporting Plan with any proposed modifications and definitions of major or minor service interruptions specific to the utility's system, filed with the Commission by May 1. If, after the Company's review, there is no change to the Service Interruption Reporting Plan, the Company shall so notify the Commission by letter by May 1.

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**Docket No.:** 30013-415-GR-24

## Tariffs Reflecting Proposed Changes



# Montana-Dakota Utilities Co.

~~A Subsidiary of MDU Resources Group, Inc.~~

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 23  
Original Title Sheet

### TITLE SHEET

WYOMING P.S.C. TARIFF NO. 23

Including  
Schedule of Rates for Natural Gas Service  
and Rules

OF

MONTANA-DAKOTA UTILITIES CO.,  
~~A Subsidiary of MDU Resources Group, Inc.~~

400 N 4th Street

BISMARCK, NORTH DAKOTA 58501

Filed with the  
WYOMING PUBLIC SERVICE COMMISSION

Date Filed: ~~May 23, 2019~~ October 31, 2024

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Director – Regulatory Affairs

Docket No.: 30013-~~351-GR-19~~ 415-GR-24



# Montana-Dakota Utilities Co.

~~A Subsidiary of MDU Resources Group, Inc.~~

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 23  
~~1<sup>st</sup> Revised Original~~ Sheet No. 1  
~~Canceling Original Sheet No. 1~~

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**Docket No.:** 30013-~~361-GT-204~~115-GR-24



# Montana-Dakota Utilities Co.

~~A Subsidiary of MDU Resources Group, Inc.~~

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. ~~23~~

Original Sheet No. 2

### COMMUNITIES SERVED

#### NATURAL GAS SERVICE

Big Horn  
Buffalo  
Colony  
Cowley

Kaycee  
Lovell  
Powell  
\*Sheridan  
Story

\* Designates District Office

Montana-Dakota Sheridan District Office  
2324 Dry Ranch Road  
Sheridan, WY 82801  
1.800.638.3278

**Date Filed:** ~~May 23, 2019~~ October 31, 2024

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Director - Regulatory Affairs

**Docket No.:** 30013-~~351 GR~~ 19415-GR-24

# State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 23

40<sup>th</sup> Revised Original Sheet No. 3

~~Canceling 39<sup>th</sup> Revised Sheet No. 3~~

## RATE SUMMARY SHEET

Page 1 of 1

Rate Schedule	Sheet No.	Basic Service Charge	Distribution Delivery/ <u>Demand</u> Charge	Cost of Gas 1/ Current Surcharge		Total	Total Rate per Dk
				Fuel Charge	Adjustment		
<b>Residential Rate 60</b>	10	<u>\$0.62 per day</u> <u>\$0.879 per day</u>	<u>\$0.507</u> <u>\$0.767</u>	\$4.158	(\$0.562)	\$3.596	<u>\$4.103</u> <u>\$4.363</u>
<b>Firm General Service Rate 70</b>	20	<u>\$0.910 per day</u>	<u>\$0.989</u>				<u>\$4.585</u>
Meters rated < 500 cubic feet		<u>\$0.67 per day</u>	<u>\$0.725</u>	\$4.158	(\$0.562)	\$3.596	<u>\$4.321</u>
Meters rated > 500 cubic feet		<u>\$1.80 per day</u> <u>\$1.826 per day</u>	<u>\$0.525</u> <u>\$0.786</u>	\$4.158	(\$0.562)	\$3.596	<u>\$4.121</u> <u>\$4.382</u>
<b>Small Interruptible Gas Rate 71</b>	30	<u>\$150.00 per month</u>	<u>\$0.413</u>				<u>\$4.009</u>
Maximum		<u>\$145.00 per month</u>	<u>\$0.420</u>	\$4.158	(\$0.562)	\$3.596	<u>\$4.016</u>
Minimum		<u>\$145.00 per month</u>	<u>\$0.077</u>	\$4.158	(\$0.562)	\$3.596	<u>\$3.673</u>
<b>Optional Seasonal Gas Service Rate 72</b>	40	<u>\$0.910 per day</u>	<u>\$0.989</u>				<u>\$5.147</u>
Meters rated < 500 cubic feet		<u>\$0.67 per day</u>	<u>\$0.725</u>	\$4.720	(\$0.562)	\$4.158	<u>\$4.883</u>
Meters rated > 500 cubic feet		<u>\$1.80 per day</u> <u>\$1.826 per day</u>	<u>\$0.525</u> <u>\$0.786</u>	\$4.720	(\$0.562)	\$4.158	<u>\$4.683</u> <u>\$4.944</u>
<b><u>Firm General Contracted Demand Service Rate 74</u></b>	<u>42</u>						
<u>Meters rated &lt; 500 cubic feet</u>		<u>\$0.910 per day</u>					
<u>Meters rated &gt; 500 cubic feet</u>		<u>\$1.826 per day</u>					
<u>Distribution Demand Charge</u>			<u>\$6.890</u>				<u>\$6.890</u>
<u>Cost of Gas</u>							
<u>Capacity Charge</u>							
<b>Transportation Service</b>							
Small Interruptible Rate 81	50	<u>\$150.00 per month</u>	<u>\$0.413</u>				<u>\$0.413</u>
Maximum		<u>\$145.00 per month</u>	<u>\$0.420</u>				<u>\$0.420</u>
Minimum		<u>\$145.00 per month</u>	<u>\$0.077</u>				<u>\$0.077</u>
Large Interruptible Rate 82		<u>\$415.00 per month</u>	<u>\$0.140</u>				<u>\$0.140</u>
Maximum		<u>\$250.00 per month</u>	<u>\$0.149</u>				<u>\$0.149</u>
Minimum		<u>\$250.00 per month</u>	<u>\$0.035</u>				<u>\$0.035</u>
<b>Large Interruptible Gas Rate 85</b>	60	<u>\$415.00 per month</u>	<u>\$0.140</u>				<u>\$3.736</u>
Maximum		<u>\$250.00 per month</u>	<u>\$0.149</u>	\$4.158	(\$0.562)	\$3.596	<u>\$3.745</u>
Minimum		<u>\$250.00 per month</u>	<u>\$0.035</u>	\$4.158	(\$0.562)	\$3.596	<u>\$3.631</u>

1/ Refer to Rate 88 Sheet No. 70-76.

**Date Filed:** ~~September 9~~October 31, 2024

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Service rendered on and  
after ~~October 1, 2024~~

**Issued By:** Travis R. Jacobson  
Director - Regulatory Affairs

**Docket No.:** 30013-414-GP-24415-GR-24  
**Record No.:** -



# Montana-Dakota Utilities Co.

A Subsidiary of MDU Resources Group, Inc.

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

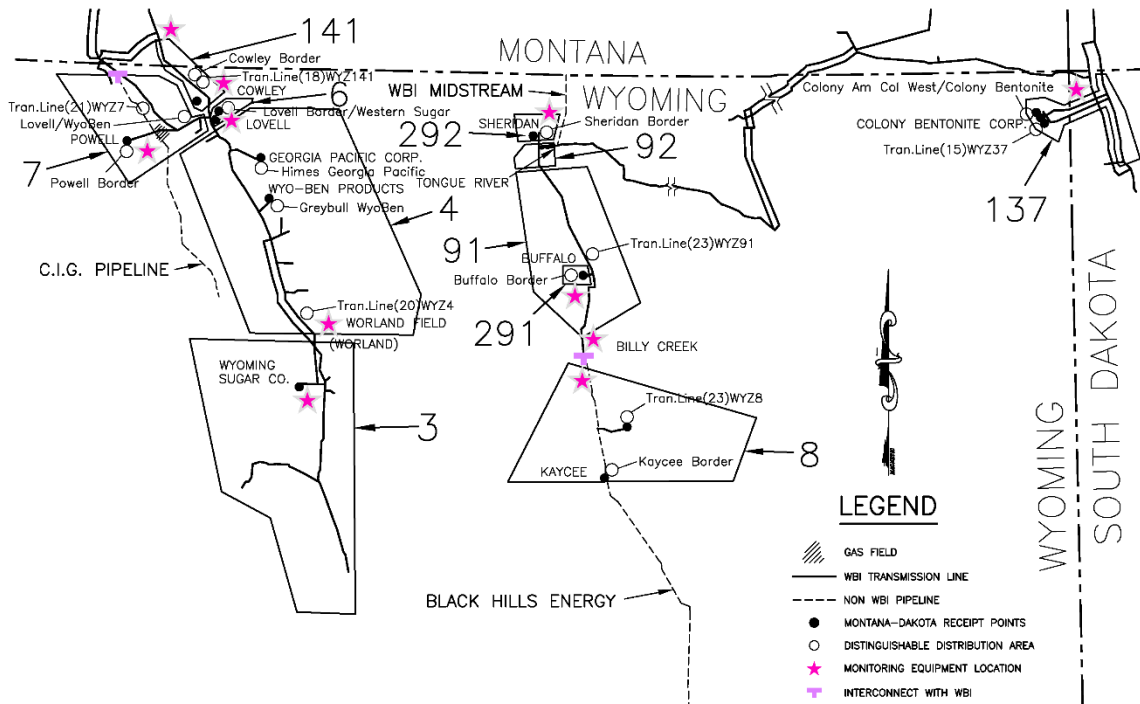
W.P.S.C. Tariff No. **23**

**2<sup>nd</sup> Revised Original** Sheet No. 5

**Canceling 1<sup>st</sup> Revised Sheet No. 5**

### THERMAL ZONE BOUNDARIES

Page 1 of 1



Distribution Area	Wobbe Index	Docket Established	Date Established	Prior Wobbe Index	Prior Docket	Change in Service Notice Date
3	1367	9458 Sub 99	1/1/1987			
4	1309	30013-409-GT-24	8/1/2024	1372	9458	TBD
6	1366	9458 Sub 99	1/1/1987			
7	1369	9458 Sub 99	1/1/1987			
8	1357	30013-GT-90-12	11/1/1990			
91	1310	30013-274-GA-13	10/18/2013			
92	1299	30013-274-GA-13	10/18/2013			
137	TBD	30013-404-GT-24	4/4/2024			
141	1334	30013-274-GA-13	10/18/2013			
291	1329	30013-355-GP-19	1/21/2020			
292	1339	30013-355-GP-19	1/21/2020			

Larger View of Thermal Zone Map:

<https://www.montana-dakota.com/wp-content/uploads/PDFs/Rates-Tariffs/Wyoming/NaturalGas/wythermalzonemap.pdf>

Date Filed: **July 31, 2024** ~~October 31, 2024~~

Effective Date: Service rendered on and after **August 1, 2024**

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**Record No. 17576**



# Montana-Dakota Utilities Co.

~~A Subsidiary of MDU Resources Group, Inc.~~

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. ~~23~~  
Original Sheet No. 10

### RESIDENTIAL GAS SERVICE Rate 60

Page 1 of 1

#### Availability:

In all communities served for all domestic uses except for resale. See Rate 100, §V. General Terms and Conditions, Paragraph 3, for definition of class of service.

#### Rate:

Basic Service Charge: ~~\$0.620.879~~ per day

Distribution Delivery Charge: ~~\$0.5070.767~~ per dk

Cost of Gas: Determined Monthly- See Rate Summary Sheet for Current Rate

#### Minimum Bill:

Basic Service Charge.

#### Payment:

Billed amounts 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, §V. General Terms and Conditions, Paragraph 13, or any amendments or alterations thereto.

#### Cost of Gas:

The cost of gas includes all applicable cost of gas items as defined in Purchased Gas Cost Adjustment Rate 88 or any amendments or alterations thereto. The cost of gas component is subject to change on a monthly basis.

#### General Terms and Conditions:

The foregoing schedule is subject to Rates 100 through 136 and any ~~amendments~~ or alterations thereto or additional rules and regulations promulgated by the Company under the laws of the state.

Date Filed: ~~February 3, 2020~~ October 31, 2024

Effective Date: Service rendered on and after ~~March 1, 2020~~

Issued By: ~~Tamie A. Aberle~~ Travis R. Jacobson  
Director – Regulatory Affairs

Docket No.: 30013-~~351-GR-19~~ 415-GR-24



# Montana-Dakota Utilities Co.

~~A Subsidiary of MDU Resources Group, Inc.~~

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. ~~23~~

Original Sheet No. 20

### FIRM GENERAL GAS SERVICE Rate 70

Page 1 of ~~21~~

#### Availability:

In all communities served for all general service purposes except for resale. See Rate 100, §V. General Terms and Conditions, Paragraph 3, for definition of class of service.

#### Rate:

For customers with meters rated under 500 cubic feet per hour

Basic Service Charge: ~~\$0.67~~0.910 per day

Distribution Delivery Charge: ~~\$0.72~~0.989 per dk

~~For customers with meters rated  
under 500 cubic feet per hour~~

For customers with meters rated over 500 cubic feet per hour

Basic Service Charge: ~~\$1.80~~1.826 per day

Distribution Delivery Charge: ~~\$0.52~~0.786 per dk

~~For customers with meters rated  
over 500 cubic feet per hour~~

Cost of Gas: Determined Monthly- See Rate Summary Sheet for Current Rate

#### Minimum Bill:

Basic Service Charge.

#### Payment:

Billed amounts 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, §V. General Terms and Conditions, Paragraph 13, or any amendments or alterations thereto.

Date Filed: ~~February 3, 2020~~October 31, 2024

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Director – Regulatory Affairs

Docket No.: 30013-~~351-GR-19~~415-GR-24



# Montana-Dakota Utilities Co.

~~A Subsidiary of MDU Resources Group, Inc.~~

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. ~~23~~  
Original Sheet No. ~~24~~20

### FIRM GENERAL GAS SERVICE Rate 70

Page ~~2~~1 of ~~2~~1

#### Cost of Gas:

The cost of gas includes all applicable cost of gas items as defined in Purchased Gas Cost Adjustment Rate 88 or any amendments or alterations thereto. The cost of gas component is subject to change on a monthly basis.

#### General Terms and Conditions:

The foregoing schedule is subject to Rates 100 through 136 and any amendments or alterations thereto or additional rules and regulations promulgated by the Company under the laws of the state.

Date Filed: ~~May 23, 2019~~October 31, 2024

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Director – Regulatory Affairs

Docket No.: 30013-~~351-GR-19~~415-GR-24



# Montana-Dakota Utilities Co.

~~A Subsidiary of MDU Resources Group, Inc.~~

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. ~~23~~  
Original Sheet No. 30

### SMALL INTERRUPTIBLE GENERAL GAS SERVICE Rate 71

Page 1 of 3

#### Availability:

In all communities served for all interruptible general gas service customers whose interruptible natural gas load will exceed an input rate of 2,500,000 Btu per hour, metered at a single delivery point and whose average use of natural gas will not exceed 50,000 dk annually. The rates herein are applicable only to customer's interruptible load. The customer's firm natural gas requirements must be separately metered or specified in a firm service agreement. The customer's firm load shall be billed at Firm General Gas Service Rate 70. For interruption purposes, the maximum daily firm requirement shall be set forth in the firm service agreement.

#### Rate:

Basic Service Charge: ~~\$145.00~~ \$150.00 per month

Distribution Delivery Charge: Maximum Minimum  
~~\$0.4200~~ .413 per dk \$0.077 per dk

Cost of Gas: Determined Monthly- See Rate Summary Sheet for Current Rate

#### Minimum Bill:

Basic Service Charge.

#### Payment:

Billed amounts 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, §V. General Terms and Conditions, Paragraph 13, or any amendments or alterations thereto.

#### Cost of Gas:

The cost of gas includes all applicable cost of gas as defined in Purchased Gas Cost Adjustment Rate 88 or any amendments or alterations thereto. The cost of gas component is subject to change on a monthly basis.

Date Filed: ~~February 3, 2020~~ October 31, 2024

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# Montana-Dakota Utilities Co.

~~A Subsidiary of MDU Resources Group, Inc.~~

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. ~~23~~

Original Sheet No. 31

### SMALL INTERRUPTIBLE GENERAL GAS SERVICE Rate 71

Page 2 of 3

#### General Terms and Conditions:

1. **PRIORITY OF SERVICE** - Deliveries of gas under this schedule shall be subject at all times to the prior demands of customers served on the Company's firm gas service rates. The customers taking service hereunder agree that the Company, without prior notice, shall have the right to curtail or interrupt such service whenever, in the Company's sole judgment, it may be necessary to do so to protect the interest of its customers whose capacity requirements are otherwise and hereby given preference. The priority of service and allocation of capacity shall be accomplished in accordance with the Priority of Service Schedule set forth in Rate 100, §V. General Terms and Conditions, Paragraph 11.
2. **PENALTY FOR FAILURE TO CURTAIL OR INTERRUPT** - If the customer fails to curtail or interrupt their use of gas hereunder when requested to do so by the Company, any gas taken shall be billed at the charges applicable under Firm General Gas Service Rate 70 (excluding the Basic Service Charge), plus either an amount equal to any penalty payment(s) or overrun charges the Company is required to make to its interconnecting pipeline(s) under the terms of its contract(s) as a result of such failure to curtail or interrupt, or \$50.00 per dk of gas used in excess of the volume of gas to which the customer was requested to curtail or interrupt, whichever amount is greater. The Company, in its discretion, may shut off the customer's supply of gas in the event of the customer's failure to curtail or interrupt use of gas when requested to do so by the Company.
3. **AGREEMENT** - Upon request of the Company, the customer may be required to enter into an agreement for service hereunder. If mutually agreed to by the Company and customer, the term of service reflected in such agreement may be amended. Upon expiration of service, the customer may apply for and receive, at the sole discretion of the Company, gas service under another appropriate rate schedule for the customer's operations.
4. **OBLIGATION TO NOTIFY COMPANY OF CHANGE IN DAILY OPERATIONS** - The customer will be required as specified in the service agreement to notify Company of an anticipated change in daily operations.

**Date Filed:** ~~May 23, 2019~~ October 31, 2024

**Effective Date:** Service rendered on and after ~~March 1, 2020~~

**Issued By:** ~~Tamie A. Aberle~~ Travis R. Jacobson  
Director – Regulatory Affairs

**Docket No.:** 30013-~~351-GR-19~~ 415-GR-24



# Montana-Dakota Utilities Co.

~~A Subsidiary of MDU Resources Group, Inc.~~

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. ~~23~~

Original Sheet No. 32

### SMALL INTERRUPTIBLE GENERAL GAS SERVICE Rate 71

Page 3 of 3

Failure to comply with requirements specified in the service agreement may result in the assessment of penalties to the customer equal to the penalty amounts the Company must pay to the interconnecting pipeline caused by customer action.

5. METERING REQUIREMENTS - Remote data acquisition equipment (telemetering equipment) required by the Company for a single customer installation for daily measurement will be purchased and installed by the Company prior to the initiation of service hereunder.

The customer may be required, upon consultation with the Company, to contribute towards additional metering equipment necessary for daily measurement by the Company, depending on the location of the customer to the Company's network facilities. This would include customers located in remote areas or in areas with topography that does not allow for transmission of information to existing telemetering equipment infrastructure. Enhancements and/or modifications to these services may be required to ensure equipment functionality. Such enhancements or modifications shall be completed at the direction of the Company with all associated costs the customer's responsibility. Any interruption in such services must be promptly remedied or service under this tariff will be suspended until satisfactory corrections have been made.

Consultation between the customer and the Company regarding telemetering requirements shall occur prior to execution of the required service agreement.

6. RULES - The foregoing schedule is subject to Rates 100 through 136 and any amendments or alterations thereto or additional rules and regulations promulgated by the Company under the laws of the state.

**Date Filed:** ~~February 3, 2020~~ October 31, 2024

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# Montana-Dakota Utilities Co.

~~A Subsidiary of MDU Resources Group, Inc.~~

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. ~~23~~

Original Sheet No. 40

### OPTIONAL SEASONAL GENERAL GAS SERVICE Rate 72

Page 1 of 2

#### Availability:

In all communities served for all seasonal general service uses where customer's primary utilization of gas occurs during the summer months, including but not limited to irrigation, swimming facilities, grain drying, and asphalt processing. See Rate 100, §V. General Terms and Conditions, Paragraph 3, for definition of class of service.

#### Rate:

For customers with meters rated under 500 cubic feet per hour

Basic Service Charge: ~~\$0.67~~0.910 per day

Distribution Delivery Charge: ~~\$0.72~~0.989 per dk

~~For customers with meters rated under 500 cubic feet per hour~~

For customers with meters rated over 500 cubic feet per hour

Basic Service Charge: ~~\$1.80~~1.826 per day

Distribution Delivery Charge: ~~\$0.52~~0.786 per dk

~~For customers with meters rated over 500 cubic feet per hour~~

#### Cost of Gas:

Winter- Service rendered  
October 1 through March 31

Determined Monthly - See Rate  
Summary Sheet for Current Rate

Summer- Service rendered  
April 1 through September 30

Determined Monthly - See Rate  
Summary Sheet for Current Rate

#### Minimum Bill:

Basic Service Charge.

Date Filed: ~~February 3, 2020~~October 31, 2024

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after ~~March 1, 2020~~

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Director – Regulatory Affairs

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# Montana-Dakota Utilities Co.

~~A Subsidiary of MDU Resources Group, Inc.~~

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. ~~23~~  
Original Sheet No. 41

### OPTIONAL SEASONAL GENERAL GAS SERVICE Rate 72

Page 2 of 2

#### Payment:

Billed amounts 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, §V. General Terms and Conditions, Paragraph 13, or any amendments or alterations thereto.

#### Cost of Gas:

The cost of gas includes all applicable cost of gas items as defined in Purchased Gas Cost Adjustment Rate 88 or any amendments or alterations thereto. The cost of gas component is subject to change on a monthly basis.

#### General Terms and Conditions:

1. TERM - The customer agrees to contract for service under the Optional Seasonal General Gas Service Rate 72 for a minimum of one year.
2. RULES - The foregoing schedule is subject to Rates 100 through 136 and any amendments or alterations thereto or additional rules and regulations promulgated by the Company under the laws of the state.

Date Filed: ~~May 23, 2019~~ October 31, 2024

Effective Date: Service rendered on and  
after ~~March 1, 2020~~

Issued By: ~~Tamie A. Aberle~~ Travis R. Jacobson  
Director – Regulatory Affairs

Docket No.: 30013-~~351 GR 19~~ 415-GR-24



# Montana-Dakota Utilities Co.

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 3  
Original Sheet No. 42

### FIRM GENERAL CONTRACTED DEMAND SERVICE Rate 74

Page 1 of 2

#### Availability:

In all communities served applicable to non-residential customers with standby natural gas generators and, available on an optional basis to, customers qualifying for service under the interruptible service tariffs that have requested, and received approval from the Company, for gas service under this rate.

#### Rate:

##### Basic Service Charge:

For customers with meters rated under 500 cubic feet per hour    \$0.910 per day  
For customers with meters rated over 500 cubic feet per hour    \$1.826 per day

Distribution Demand Charge:                      \$6.890 per dk per month of billing demand

Capacity Charge per                                      Determined Monthly – See Rate Summary  
Monthly Demand dk:                                      Sheet for Current Rate

Cost of Gas:    Determined Monthly – See Rate Summary  
Commodity per dk:    Sheet for Current Rate

#### Minimum Bill:

Basic Service Charge, Distribution Demand Charge, and Capacity Charge.

#### Payment:

Billed amounts 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, §V.13, or any amendments or alterations thereto.

#### Determination of Monthly Billing Demand:

Customer's billing demand will be determined in consultation with the Company. Customer's actual demand will be reviewed annually and, if warranted, a new monthly billing demand established.

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**Docket No.:** 30013-415-GR-24



# Montana-Dakota Utilities Co.

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 3  
Original Sheet No. 43

### FIRM GENERAL CONTRACTED DEMAND SERVICE Rate 74

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#### Cost of Gas:

The cost of gas includes all applicable cost of gas items as defined in Purchased Gas Cost Adjustment Rate 88 or any amendments or alterations thereto. The cost of gas component is subject to change on a monthly basis.

#### Metering Requirements:

1. Service provided for under tariff must be separately metered from customer's other gas services.
2. Remote data acquisition equipment (telemetry equipment) may be required by the Company for a single customer installation for daily measurement.
3. Customer may be required, upon consultation with the Company, to contribute towards any additional metering equipment necessary for daily measurement by the Company, depending on the location of the customer to the Company's network facilities. Enhancements and/or modifications to these services may be required to ensure equipment functionality. Such enhancements or modifications shall be completed at the direction of the Company with all associated costs the Customer's responsibility. Any interruption in such services must be promptly remedied or service under this tariff will be suspended until satisfactory corrections have been made.
4. Consultation between the customer and the Company regarding telemetry requirements shall occur prior to meter installation.

#### General Terms and Conditions:

1. Customers with standby gas generators required to take service under this schedule are not required to execute a contract. Other customers choosing to take service under this schedule will be required to execute a contract applicable for a minimum period of one year.
2. The foregoing schedule is subject to Rates 100 through 136 and any amendments or alterations therefore or additional rules and regulations promulgated by the Company under the laws of the state.

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# Montana-Dakota Utilities Co.

~~A Subsidiary of MDU Resources Group, Inc.~~

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. ~~23~~  
Original Sheet No. 50

### TRANSPORTATION SERVICE Rates 81 and 82

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#### Availability:

This service is applicable for transportation of natural gas to customer's premises (metered at a single delivery point) through Company's distribution facilities. In order to obtain transportation service, customer must qualify under an applicable gas transportation service rate; meet the general terms and conditions of service provided hereunder; and enter into a gas transportation agreement upon request by the Company.

#### Small Interruptible General Gas Transportation Service Rate 81:

Transportation service is available for all general gas service customers whose interruptible natural gas load will exceed an input rate of 2,500,000 Btu per hour, metered at a single delivery point, and whose average interruptible use of natural gas will not exceed 50,000 dk annually. The customer's firm natural gas requirements must be separately metered or specified in a firm service agreement. The customer's firm load shall be treated and billed in accordance with the provisions of Firm General Gas Service Rate 70.

#### Large Interruptible General Gas Transportation Service Rate 82:

Transportation service is available for all general gas service customers whose average interruptible natural gas load will exceed 50,000 dk annually as metered at a single delivery point. The customer's firm natural gas requirements must be separately metered or specified in a firm service agreement. The customer's firm load shall be treated and billed in accordance with the provisions of Firm General Gas Service Rate 70.

#### Rate:

Under Rates 81 or 82 the customer shall pay a negotiated rate not more than the maximum rate or less than the minimum rate specified below. (The per dk charge is applicable to all dk of natural gas transported under the terms of this rate.) In the event customer also takes service under Rate 71 or Rate 85, the Basic Service Charge applicable under Rate 81 or Rate 82 shall be waived.

#### Basic Service Charge:

Rate 81	<del>\$145.00</del> 150.00 per month-1/
Rate 82	<del>\$250.00</del> 415.00 per month-2/

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# Montana-Dakota Utilities Co.

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## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. ~~23~~  
Original Sheet No. 50

### TRANSPORTATION SERVICE Rates 81 and 82

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- ~~1/ In the event customer takes service through one meter under both Rates 71 and 81, Basic Service Charge under Rate 81 shall be waived.~~
- ~~2/ In the event customer takes service through one meter under both Rates 85 and 82, Basic Service Charge under Rate 82 shall be waived.~~

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# Montana-Dakota Utilities Co.

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## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. ~~23~~  
Original Sheet No. 51

### TRANSPORTATION SERVICE Rates 81 and 82

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~~Under Rates 81 or 82 the customer shall pay a negotiated rate not more than the maximum rate or less than the minimum rate specified below. (The per dk charge is applicable to all dk of natural gas transported under the terms of this rate.)~~

<u>Transportation Charges:</u>	<u>Rate 81</u>	<u>Rate 82</u>
Maximum Rate per dk	<del>\$0.4290</del> .413	<del>\$0.1490</del> .140
Minimum Rate per dk	\$0.077	\$0.035

#### General Terms and Conditions:

1. CRITERIA FOR SERVICE - In order to receive the service, the customer must qualify under one of the Company's applicable natural gas transportation service rates and comply with the general terms and conditions of the service provided herein. The customer is responsible for making all arrangements for transporting the gas from its source to the Company's interconnection with the delivering pipeline(s).
2. REQUEST FOR GAS TRANSPORTATION SERVICE - To qualify for gas transportation service a customer must request the service pursuant to the provisions set forth herein. The service shall be provided only to the extent that the Company's existing operating capacity permits.
3. MULTIPLE SERVICES THROUGH ONE METER:
  - a. In the event the customer desires firm sales service in addition to gas transportation service, the customer shall request such firm volume requirements, and upon approval by Company, such firm volume requirements shall be set forth in a firm service agreement. For billing purposes, the level of volumes so specified or the actual volume used, whichever is lower, shall be billed at Rate 70. Volumes delivered in excess of such firm volumes shall be billed at the applicable gas transportation rate. The customer has the option to install, at their

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## State of Wyoming Gas Rate Schedule

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Original Sheet No. 52

### TRANSPORTATION SERVICE Rates 81 and 82

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expense, piping necessary for separate measurement of sales and transportation volumes.

- b. The customer shall pay, in addition to charges specified in the applicable gas transportation rate schedule, charges under all other applicable rate schedules for any service in addition to that provided herein (irrespective of whether the customer receives only gas transportation service in any billing period).
4. **PRIORITY OF SERVICE** – The Company shall have the right to curtail or interrupt deliveries without being required to give previous notice of intention to curtail or interrupt, whenever, in its judgment, it may be necessary to do so to protect the interest of its customers whose capacity requirements are otherwise and hereby given preference. The priority of service and allocation of capacity shall be accomplished in accordance with General Terms and Conditions, §V. Paragraph 11 of Conditions of Service Rate 100.
5. **PENALTY FOR FAILURE TO CURTAIL OR INTERRUPT** - If the customer fails to curtail or interrupt their use of gas hereunder when requested to do so by the Company, any gas taken above that received on the customer's behalf, shall be billed at the charges applicable under Firm General Gas Service Rate 70 (excluding the Basic Service Charge), plus either an amount equal to any penalty payments or overrun charges the Company is required to make to its interconnecting pipeline(s) under the terms of its contract(s) as a result of such failure to curtail or interrupt, or \$50.00 per dk of gas used in excess of the volume of gas to which the customer was requested to curtail or interrupt, whichever amount is greater.

The Company, in its discretion, may shut off the customer's supply of gas in the event of the customer's failure to curtail or interrupt use of gas when requested to do so by the Company.

6. **CUSTOMER USE OF NON-DELIVERED VOLUMES** - In the event the customer's gas is not being delivered to the receipt point for any reason and the customer continues to take gas, the customer shall be subject to any

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W.P.S.C. Tariff No. ~~23~~  
Original Sheet No. 53

### TRANSPORTATION SERVICE Rates 81 and 82

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applicable penalties or charges set forth in Paragraph 5. Gas volumes supplied by Company will be billed at Firm General Service Rate 70 ~~(distribution delivery and cost of gas)~~ (excluding Basic Service Charge). The Company is under no obligation to notify customer of non-delivered volumes.

7. REPLACEMENT OR SUPPLEMENTAL SALES SERVICE - In the event the customer's transportation volumes are not available for any reason, the customer may take interruptible sales service if such service is available. The availability of interruptible sales service shall be determined at the sole discretion of the Company.
8. ELECTION OF SERVICE:
  - a. Prior to the initiation of service hereunder, the customer shall make an election of its requirements under each applicable rate schedule for the entire term of service. If mutually agreed to by the Company and the customer, the term of service may be amended. Upon expiration of service, the customer may apply for and receive, at the sole discretion of the Company, gas service under the appropriate sales rate schedule for the customer's operations.
  - b. Transportation customers who cease service and then resume service within the succeeding 12 months shall be subject to a reconnection charge as specified in Rate 100, General Terms and Conditions, §V. Paragraph ~~19~~21.
9. DAILY IMBALANCE:
  - a. To the extent practicable, the customer and the Company agree to the daily balancing of volumes of gas received and delivered on a thermal basis. Such balancing is subject to the customer's request and the Company's discretion to vary scheduled receipts and deliveries within existing Company operating limitations.
  - b. In the event that the deviation between scheduled daily volumes and actual daily volumes of gas used by the customer causes the Company to incur any additional costs from its interconnecting pipeline(s), the

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### TRANSPORTATION SERVICE Rates 81 and 82

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customer shall be solely responsible for all such penalties, fines, fees or costs incurred. If more than one customer has caused the Company to incur these additional costs, all costs (excluding those associated with Company's firm deliveries) will be prorated to each customer based on the customer's over – or – undertake as a percentage of the total.

- c. The Company may waive any penalty associated with Company adjustments to end-use customer nominations in those instances where the Company, due to operating limitations, is required to adjust end-use transportation customer nominations and such Company adjustments create a penalty situation, or preclude a customer from correcting an imbalance which results in a penalty.

10. MONTHLY IMBALANCE – The customer's monthly imbalance is the difference between the amount of gas received by the Company on the customer's behalf and the customer's actual metered use. Monthly imbalances will not be carried forward to the next calendar month.

- a. Undertake Purchase Payment – If the monthly imbalance is due to more gas delivered on the customer's behalf than the actual volumes used, the Company shall pay the customer an Undertake Purchased Payment in accordance with the following schedule:

% Monthly Imbalance	Undertake Purchase Rate
0 – 5%	100% Cash-out Mechanism
> 5 – 10%	85% Cash-out Mechanism
> 10 – 15%	70% Cash-out Mechanism
> 15 – 20%	60% Cash-out Mechanism
> 20%	50% Cash-out Mechanism

Where the Cash-out Mechanism is equal to the lesser of the Company's WACOG or the Index Price, as defined in Paragraph 10(c).

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# Montana-Dakota Utilities Co.

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## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. ~~23~~  
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### TRANSPORTATION SERVICE Rates 81 and 82

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- b. Overtake Charge – If the monthly imbalance is due to more gas actually used by the customer than volumes delivered on their behalf, the customer shall pay the Company an Overtake Charge in accordance with the following schedule:

% Monthly Imbalance	Overtake Charge Rate
0 – 5%	100% Cash-in Mechanism
> 5 – 10%	115% Cash-in Mechanism
> 10 – 15%	130% Cash-in Mechanism
> 15 – 20%	140% Cash-in Mechanism
> 20%	150% Cash-in Mechanism

Where the Cash-in Mechanism is equal to the greater of the Company's WACOG or the Index Price, as defined in Paragraph 10(c).

- c. The Index Price shall be the arithmetic average of the "Weekly Weighted Averages Prices" published by Gas Daily for CIG Rockies and Northern Ventura during the given month. The Company's WACOG (Weighted Average Cost of Gas) includes the commodity cost of gas and applicable transportation charges including the fuel cost of transportation.

#### 11. METERING REQUIREMENTS:

- a. Remote data acquisition equipment (telemetry equipment) required by the Company for a single customer installation for daily measurement will be purchased and installed by the Company prior to the initiation of service hereunder.
- b. The customer may be required, upon consultation with the Company, to contribute towards additional metering equipment necessary for daily measurement by the Company, depending on the location of the customer to the Company's network facilities. Enhancements and/or modifications to these services may be required to ensure equipment functionality. Such enhancements or modifications shall be completed at

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## State of Wyoming Gas Rate Schedule

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Original Sheet No. 56

### TRANSPORTATION SERVICE Rates 81 and 82

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the direction of the Company with all associated costs the customer's responsibility. Any interruption in such services must be promptly remedied or service under this tariff will be suspended until satisfactory corrections have been made.

- c. Consultation between the customer and the Company regarding telemetering requirements shall occur prior to execution of the required service agreement.

#### 12. DAILY NOMINATION REQUIREMENTS:

- a. The customer or the customer's shipper or agent shall advise the Gas Supply Department, via the Company's Electronic Bulletin Board in accordance with FERC timelines, of the dk requirements the customer has requested to be delivered at each delivery point the following day. The customer's daily nomination shall be its best estimate of the expected utilization for the gas day. Unless other arrangements are made, the customer will be required to nominate for the non-business days involved prior to weekends and holidays.
- b. All nominations should include shipper and/or agent defined begin and end dates. Shippers and/or agents may nominate for periods longer than 1 day, provided the nomination begin and end dates are within the term of the service agreement.
- c. The Company has the sole right to refuse receipt of any volumes which exceed the maximum daily contract quantity and at no time shall the Company be required to accept quantities of gas for the customer in excess of the quantities of gas to be delivered to the customer.
- d. At no time shall the Company have the responsibility to deliver gas in excess of the customer's nomination.

- 13. WARRANTY - The customer, the customer's agent, or the customer's shipper warrants that it will have title to all gas it tenders or causes to be tendered to

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# Montana-Dakota Utilities Co.

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## State of Wyoming Gas Rate Schedule

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### TRANSPORTATION SERVICE Rates 81 and 82

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the Company, and such gas shall be free and clear of all liens and adverse claims and the customer, the customer's agent, or the customer's shipper shall indemnify the Company against all damages, costs, and expenses of any nature whatsoever arising from every claim against said gas.

14. FACILITY EXTENSIONS - If facilities are required in order to furnish gas transportation service, and those facilities are in addition to the facilities required to furnish firm gas service, the customer shall pay for those additional facilities and their installation in accordance with the Company's applicable natural gas extension policy. The Company may remove such facilities when service hereunder is terminated.
15. PAYMENT - Billed amounts 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, §V. General Terms and Conditions, Paragraph 13, or any amendments or alterations thereto.
16. AGREEMENT - Upon request of the Company, customer may be required to enter into an agreement for service hereunder.
17. RULES - The foregoing schedule is subject to Rates 100 through 136 and any amendments or alterations thereto or additional rules and regulations promulgated by the Company under the laws of the state.

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# Montana-Dakota Utilities Co.

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## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. ~~23~~

Original Sheet No. 60

### LARGE INTERRUPTIBLE GENERAL GAS SERVICE Rate 85

Page 1 of 3

#### Availability:

In all communities served for all interruptible general gas service customers whose average interruptible natural gas load will exceed 50,000 dk annually as metered at a single delivery point. The rates herein are applicable only to customer's interruptible load. The customer's firm natural gas requirements must be separately metered or specified in a firm service agreement. The customer's firm load shall be billed at Firm General Gas Service Rate 70. For interruption purposes, the maximum daily firm requirement shall be set forth in the firm service agreement.

The Company reserves the right to refuse the initiation of service under this rate schedule based on the availability of gas supply.

#### Rate:

Basic Service Charge: ~~\$250.00~~\$115.00 per month

Distribution Delivery Charge: Maximum Minimum  
~~\$0.14~~\$0.140 per dk \$0.035 per dk

Cost of Gas: Determined Monthly – See Rate Summary Sheet for Current Rate

The Company and the customer reserve the right to execute a contract for gas supply at a mutually agreed upon rate different from the rate specified above, subject to Wyoming Public Service Commission approval of such contract rate.

#### Minimum Bill:

Basic Service Charge.

#### Payment:

Billed amounts 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, §V. General Terms and Conditions, Paragraph 13, or any amendments or alterations thereto.

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## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. ~~23~~  
Original Sheet No. 61

### LARGE INTERRUPTIBLE GENERAL GAS SERVICE Rate 85

Page 2 of 3

#### Cost of Gas:

The cost of gas includes all applicable cost of gas items as defined in Purchased Gas Cost Adjustment Rate 88 or any amendments or alterations thereto. The cost of gas component is subject to change on a monthly basis.

#### General Terms and Conditions:

1. PRIORITY OF SERVICE - Deliveries of gas under this schedule shall be subject at all times to the prior demands of customers, served on the Company's firm gas service rates. Customers taking service hereunder agree that the Company, without prior notice, shall have the right to curtail or interrupt such service whenever, in Company's sole judgment, it may be necessary to do so to protect the interest of its customers whose capacity requirements are otherwise and hereby given preference. The priority of service and allocation of capacity shall be accomplished in accordance with the Priority of Service Schedule set forth in §V. Paragraph 11 of Conditions of Service Rate 100.
2. PENALTY FOR FAILURE TO CURTAIL OR INTERRUPT - If the customer fails to curtail or interrupt their use of gas hereunder when requested to do so by the Company, any gas taken shall be billed at the Firm General Gas Service Rate 70 (excluding the Basic Service Charge), plus either an amount equal to any penalty payment(s) or overrun charges the Company is required to make to its interconnecting pipeline(s) under the terms of its contract(s) as a result of such failure to curtail or interrupt, or \$50.00 per dk of gas used in excess of the volume of gas to which customer was requested to curtail or interrupt, whichever amount is greater. The Company, in its discretion, may shut off customer's supply of gas in the event of the customer's failure to curtail or interrupt use of gas when requested to do so by the Company.
3. AGREEMENT - Upon request of the Company, the customer may be required to enter into an agreement for service hereunder. If mutually agreed to by the Company and the customer, the term of service reflected in such agreement may be amended. Upon expiration of service, the customer may apply for and receive, at the sole discretion of the Company, gas service under another appropriate rate schedule for the customer's operations.

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Original Sheet No. 62

### LARGE INTERRUPTIBLE GENERAL GAS SERVICE Rate 85

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4. OBLIGATION TO NOTIFY COMPANY OF CHANGE IN DAILY OPERATIONS – The customer will be required as specified in the service agreement to notify the Company of an anticipated change in daily operations. Failure to comply with requirements specified in the service agreement may result in the assessment of penalties to the customer equal to the penalty amounts the Company must pay to the interconnecting pipeline caused by the customer's action.
5. METERING REQUIREMENTS - Remote data acquisition equipment (telemetering equipment) required by the Company for a single customer installation for daily measurement will be installed by the Company, prior to the initiation of service hereunder.

The customer may be required, upon consultation with the Company, to contribute towards additional metering equipment necessary for daily measurement by the Company, depending on the location of the customer to the Company's network facilities. This would include customers located in remote areas or in areas with topography that does not allow for transmission of information to existing telemetering equipment infrastructure. Enhancements and/or modifications to these services may be required to ensure equipment functionality. Such enhancements or modifications shall be completed at the direction of the Company with all associated costs the customer's responsibility. Any interruption in such services must be promptly remedied or service under this tariff will be suspended until satisfactory corrections have been made.

Consultation between the customer and the Company regarding telemetering requirements shall occur prior to execution of the required service agreement.

6. RULES - The foregoing schedule is subject to Rates 100 through 136 and any amendments or alterations thereto or additional rules and regulations promulgated by the Company under the laws of the state.

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## State of Wyoming Gas Rate Schedule

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Original Sheet No. 70

### **PURCHASED GAS COST ADJUSTMENT** **Rate 88**

Page 1 of 6

#### **1. Applicability:**

This rate schedule constitutes a Purchased Gas Cost Adjustment (PGA) provision and specifies the procedure to be utilized to adjust the rates for gas sold under Montana-Dakota's rate schedules in order to reflect: (a) changes in Montana-Dakota's average cost of gas supply and (b) amortization of the Unrecovered Purchase Gas Cost Account.

#### **2. Effective Date and Limitation on Adjustments:**

- (a) The effective dates of the PGA shall be service rendered on and after the first day of each month, unless the Commission shall otherwise order.
- (b) Montana-Dakota shall file an adjustment to reflect changes in its average cost of gas supply only when the amount of such adjustment is at least 25 (twenty-five) cents per dk. The adjustment to be effective October 1 shall be filed each year, regardless of the amount of the change.

#### **3. Purchased Gas Cost Adjustment:**

- (a) The monthly PGA shall reflect changes in Montana-Dakota's cost of gas supply as compared to the cost of gas supply approved in its most recent PGA. The cost of gas supply shall be the sum of all prudent costs incurred in obtaining gas for general system supply. General system supply is defined as gas available for use by all customers served under retail sales rate schedules. The cost of gas supply shall include, but not be limited to, all demand, commodity, storage, gathering, and transportation charges incurred by Montana-Dakota for such gas supply; the revenue requirement at the authorized Wyoming return on prepaid demand and commodity charges and gas storage balances, required to maintain the system gas supply; and hedging program gains, losses and transaction costs related to system gas supply.
- (b) The PGA shall be computed as follows:
  - (1) Demand costs shall include all annual gathering, transportation and storage demand charges at current rates.

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## State of Wyoming Gas Rate Schedule

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Original Sheet No. 71

### **PURCHASED GAS COST ADJUSTMENT Rate 88**

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- (2) Commodity costs shall include all annual gathering, transportation and storage charges at current rates.
- (3) The gas commodity cost shall reflect all commodity related gas costs estimated to be in effect for the month the PGA will be in effect and annual dk requirements.
- (4) The return on prepaid demand and commodity balances and storage balances shall reflect the revenue requirement on the average of the thirteen monthly balances. The revenue requirement shall be calculated by multiplying the average balance by the authorized rate of return, as adjusted for Federal income taxes on the equity component of the capital structure.

The cost per dk for the month is the sum of the above divided by annual, weather normalized dk deliveries for the most recent twelve month period adjusted to reflect losses.

(c) Monthly gas costs shall be calculated as follows:

- (1) Demand costs for firm and interruptible sales customers shall be apportioned to all state jurisdictions served by Montana-Dakota on the basis of the overall ratio of each state's Maximum Daily Delivery Quantity (MDDQ).

(2) Demand costs for firm general contracted demand customers shall be stated on the incremental MDDQ basis.

(2)(3) All commodity costs and other costs associated with the acquisition of gas for general system supply shall be apportioned to each state on the basis of total dks sold in each state, regardless of the actual points of delivery of such gas.

(3)(4) The revenue requirement related to prepaid demand and commodity charges and gas storage balances shall be included

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# Montana-Dakota Utilities Co.

~~A Subsidiary of MDU Resources Group, Inc.~~

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

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on a per dk basis. The prepaid demand and storage balances shall be apportioned to all states on the basis of each state's MDDQ. The prepaid commodity charges shall be apportioned to

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all states on the basis of annual dks sold in each state. The unit cost shall be calculated using a thirteen month average balance by multiplying the average balance by the authorized rate of return as adjusted for Federal income taxes on the equity component of the capital structure. The resulting revenue requirement shall be divided by the weather normalized dk deliveries for the most recent twelve month period adjusted to reflect losses.

~~(4)~~(5) All costs related to specific end-use transactions shall not be included in the cost of gas supply determination but shall be directly billed to the customer(s) contracting for such service.

- (d) The PGA shall be uniformly applied to all of Montana-Dakota's rate schedules pursuant to the Commission's Order in Docket No. 9458 Sub 91.

#### **4. Surcharge Adjustment:**

All sales rate schedules shall be subject to a Surcharge Adjustment to be effective on October 1 of each year. The Surcharge Adjustment per dk sold shall reflect amortization of the applicable balance in the Unrecovered Purchased Gas Cost Account calculated by dividing the applicable balance by the estimated dk sales for the twelve months following the effective date of the adjustment.

#### **5. Unrecovered Purchased Gas Cost Account:**

- (a) Items to be included in the Unrecovered Purchased Gas Cost Account, as calculated in accordance with Subsection 5(b) are:
- (1) Charges for gas supply which Montana-Dakota is unable to reflect in a Purchased Gas Cost Adjustment by reason of the twenty-five cent minimum limitation set forth in Subsection 2(b).

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- (2) Amounts of increased/decreased charges for gas supplies which were paid during any period after the effective date of the most recent PGA, but not yet included in sales rates.
  - (3) Refunds received from supplier(s) with respect to gas supply. Such refunds received shall be credited to the Unrecovered Purchased Gas Cost Account.
  - (4) Capacity release revenue allocated to Wyoming.
  - (5) Carrying charges or credits as specified by Subsection 5(b)(2).
  - (6) Demand costs recovered from the firm general contracted demand sales customers will be credited to the residential and firm general service customers.
- (b) (1) The amount to be included in the Unrecovered Purchased Gas Cost Account in order to reflect the items specified in Subsections 5(a)(1), (2), and (3) shall be calculated as follows:
- (i) Montana-Dakota shall first determine each month the unit cost for that month's natural gas supply as adjusted to levelize demand charges.
- Such adjustment to levelize supplier(s) demand charges shall be calculated as follows:
- The suppliers' annual (calendar or fiscal) demand charges, which are payable in equal monthly payments, shall be accumulated in a prepaid account (FERC Account 165). Each month a portion of such accumulated prepaid amount shall be amortized to cost of natural gas purchased (FERC Account 804). Such monthly amortization shall be based on a rate calculated by dividing the annual supplier(s) demand charges by

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projected annual natural gas sales units (calendar or fiscal, as appropriate). The resulting per unit rate shall then be multiplied by the projected natural gas unit sales for the current month. Such amount shall constitute the monthly

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amortization of prepaid supplier(s) demand charges to cost of natural gas supply.

(ii) Montana-Dakota shall then subtract from each month's unit cost the unit cost for gas supply which is reflected in the currently effective PGA.

(iii) The resulting difference (which may be positive representing an undercollection; which is defined as current gas costs exceeding gas costs recovered in rates; or negative representing an overcollection; which is defined as gas costs recovered in rates exceeding current gas costs) shall be multiplied by the dks sold during that month under each rate schedule. The resulting amounts shall be reflected in an Unrecovered Purchased Gas Cost Account.

~~(iv) In making such calculations, no distinction shall be made in the Unrecovered Purchased Gas Cost Account between the various sales rate schedules.~~

(2) Interest will be calculated and credited to Account 191 each month as follows:

(i) The balance in Account 191, to which interest will apply, will be the balance at the end of the immediately preceding month. Interest will be paid on net overcollections. The Company shall offset any cumulative undercollections against cumulative overcollections in the computation of interest to be paid. Interest shall be credited monthly to Account 191 at one-twelfth of the Commission Authorized Interest Rate described in Chapter 1, Section 2 (a)(xv) of the Wyoming Public Service Commission's Rules.

(ii) In no case shall the Company receive interest for net undercollections.

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- (c) Reduction of Amounts in the Unrecovered Purchased Gas Cost Account:
- (1) The amounts in the Unrecovered Purchased Gas Cost Account shall be decreased each month by an amount determined by multiplying the currently effective surcharge adjustment included in rates for that month (as calculated in Section 4) by the dks sold during that month under each rate schedule. The account shall be increased in the event the adjustment is a negative amount.
  - (2) The amount amortized each month shall be applied pro rata between the amounts in the Unrecovered Purchased Gas Cost Account specified in Subsections 5(a)(1), (2), (3), (4) and the amounts in the Unrecovered Purchased Gas Cost Account specified in Subsection 5(a)(5).

#### **6. Time and Manner of Filing:**

- (a) Each filing by Montana-Dakota shall be made by means of revised PGA and rate schedule tariff sheets identifying the amounts of the adjustments and the resulting currently effective PGA rates. Montana-Dakota shall file to change the PGA at least 20 days prior to the proposed effective date.
- (b) Each filing shall be accompanied by detailed computations which clearly show the derivation of the relevant amounts. Each filing shall contain an accompanying statement that supports the Company's gas acquisition practices as required by the Wyoming Public Service Commission.
- (c) Each filing shall also contain the information necessary to comply with Chapter 3, Section 26 of the Wyoming Public Service Commission's Rules.

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#### I. PURPOSE:

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

The Company undertakes to furnish service subject to the Rules of the Public Service Commission of Wyoming and as supplemented by these general provisions, as now in effect or as may hereafter be lawfully established.

#### II. DEFINITIONS:

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

AGENT – The party authorized by the transportation service customer to act on that customer's behalf.

APPLICANT - A customer requesting Company to provide service.

COMMISSION AND COMMISSIONER - The Public Service Commission of Wyoming or a member thereof respectively.

COMPANY - Montana-Dakota Utilities Co. (Montana-Dakota).

COMPANY'S OPERATING CONVENIENCE - The utilization, under certain circumstances, of facilities or practices not ordinarily employed which contribute to the overall efficiency of Company's operations. This does not refer to the customer's convenience nor to the use of facilities or adoption of practices required to comply with applicable laws, ordinances, rules or regulations, or similar requirements of public authorities.

CURTAILMENT - A reduction of transportation or retail natural gas service deemed necessary by the Company.

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

**DELIVERY POINT** - The point at which customer assumes custody of the gas being transported. This point will normally be at the outlet of the Company's meter(s) located on the customer's premises.

**EXCESS FLOW VALVE** – Safety device designed to automatically stop or restrict the flow of gas if an underground pipe is broken or severed.

**GAS DAY** - Means a period of twenty-four consecutive hours, beginning and ending at 9:00 a.m. Central Clock Time.

**INTERRUPTION** - A cessation of transportation or retail natural gas service deemed necessary by the Company.

**NOMINATION** - The daily dk volume of natural gas requested by customer for transportation and delivery to the customer at the delivery point during a gas day.

**PIPELINE** - The transmission company(s) delivering natural gas into the Company's system.

**RATE** - Shall mean and include every compensation, charge, fare, toll, rental and classification, demanded, observed, charged or collected by the Company for any service, product, or commodity, offered by the Company to the public. This includes rules, regulations, practices or contracts affecting any such compensation, charge, fare, toll, rental or classification.

**RECEIPT POINT** - The intertie between the Company and the interconnecting pipeline(s) at which point the Company assumes custody of the gas being transported.

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SHIPPER – The party with whom the pipeline has entered into a service agreement for transportation services.

#### III. CUSTOMER OBLIGATIONS:

1. APPLICATION FOR SERVICE - A customer desiring gas service must make 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 to a customer or discontinue 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 gas service in the absence of application or contract 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 gas 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 required by the Company in accordance with §V.6.

2. SERVICE AVAILABILITY - Gas will normally be delivered at a standard pressure of four ounces. Delivery of gas service at pressures greater than the standard operating pressure may be available and will require a consultation with the Company to determine availability.
3. INPUT RATING - All new customers whose consumption of gas for any purpose will exceed an input of 2,500,000 Btu per hour, metered at a single delivery point, shall consult with the Company and furnish details of estimated hourly input rates for all gas utilization equipment. Where system design capacity permits, such customers may be served on a firm basis. Where system design capacity is limited, and at the Company's sole discretion, the

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Company will serve all such new customers on an interruptible basis only. Architects, contractors, heating engineers and installers, and all others should consult with the Company before proceeding to design, erect or redesign such installations for the use of natural gas. This will ensure that such equipment will conform to the Company's ability to adequately serve such installations with gas.

4. ACCESS TO CUSTOMER'S PREMISES – The Company's 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.
5. COMPANY PROPERTY – The customers shall exercise reasonable diligence in protecting the Company's property on their premises, and shall be liable to the Company in case of loss or damage caused by their negligence or that of their employees.
6. INTERFERENCE WITH 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.
7. RELOCATED LINES – Where the Company's facilities are located on a public or private utility easement and there is a building encroachment(s) over gas facilities (Company-owned main, Company-owned service line or customer-owned service line) the customer shall be charged for line relocation on the basis of actual costs incurred by the Company, including any required easements or permits.
8. NOTIFICATION OF LEAKS – The customer shall immediately notify the Company at its office of any escape of gas in or about the customer's premises.

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9. 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.
10. REPORTING REQUIREMENTS – The customer shall furnish the Company all information as may be required or appropriate to comply with reporting requirements of duly constituted authorities having jurisdiction over the matter herein.
11. QUALITY OF GAS - The gas tendered to the Company shall conform to the applicable quality specifications of the Pipeline's tariff which at a minimum shall comport to Chapter 3, Section 1 (c)(iv) of the Commission's Rules.

#### IV. LIABILITY:

1. CONTINUITY OF SERVICE - The Company will use all reasonable care to provide continuous service but does not assume responsibility for a regular and uninterrupted supply of gas service and will not be liable for any loss, injury, death, or damage resulting from the use of service, or arising from or caused by the interruption or curtailment of the same, except when such loss, injury or damage results from the negligence of the Company.
2. CUSTOMER'S EQUIPMENT - Neither by inspection or non-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 or leased by the customer from third parties. The customer is responsible for the proper installation and maintenance of all structures, equipment, lines, appliances, or devices on the customer's side of the point of delivery, and for the natural gas after it passes the point of delivery. The customer must assume the duties of inspecting all structures including the house piping, chimneys, flues and appliances on the customer's side of the point of delivery to ensure all are in working order. It is the Company's

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obligation to supply satisfactory service, and any use of equipment by the customer that prevents the Company from carrying out this obligation must be corrected by the customer.

a. In the event the Company needs to turn a customer's gas meter on, and a customer's equipment needs to be restarted, the customer may consent to, and accept responsibility for, the relighting of any pilot lights on equipment on customer's side of the meter. If verbal consent of customer is given at the time of scheduling the gas meter turn on, Company personnel will turn gas meter on and inspect for gas use. If no gas use is detected at that time, the gas meter will be left on and the customer can relight any pilot lights on equipment on customer's side of the meter at their convenience. If gas use is detected, Company personnel will turn gas meter off and advise customer to have their system checked. The Company will only turn the gas meter on after customer's system has been checked and no gas use is detected.

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 gas or from the presence or operation of the Company's structures, equipment, lines, or devices on the customer's premises, except loss, injuries, death, or damages resulting from the negligence of the Company.
4. INDEMNIFICATION- – The customer agrees to indemnify and hold the 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 the Company's negligent or wrongful acts under and during the term of service.
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,

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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. If volumes of the customer's gas are destroyed while in the Company's

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possession by an event of force majeure, the obligations of the parties shall terminate with respect to the volumes lost.

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 public enemies 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 lines of pipe, line freeze-ups, sudden partial or sudden entire failure of gas 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 authorizations 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.

#### V. GENERAL TERMS AND CONDITIONS:

1. AGREEMENT - Upon request of the Company, the customer may be required to enter into an agreement for any service.
2. RATE OPTIONS - Where more than one rate schedule is available for the same class of service, the Company will assist the customer in selecting the applicable rate schedule(s). The Company is not required to change a

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# Montana-Dakota Utilities Co.

~~A Subsidiary of MDU Resources Group, Inc.~~

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

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customer from one rate schedule to another more often than once in twelve months unless there is a material change in the customer's load which alters the availability and/or applicability of such rate(s), or unless a change becomes necessary as a result of an order issued by the Commission or a court having jurisdiction. The Company will not be required to make any change in a fixed term contract except as provided therein.

#### 3. RULES FOR APPLICATION OF GAS SERVICE -

- a. Residential Gas Service is available to any residential customer for domestic purposes only. Residential Gas Service is defined as service for general domestic household purposes in space occupied as living quarters, designed for occupancy by one family with separate cooking facilities. Typical service would include the following: single private residences, single apartments, mobile homes with separate meters and auxiliary buildings on the same premise as the living quarters, used for residential purposes by the residential customer. This is not an all-inclusive list.
- b. Non-residential Gas Service is defined as service provided to a business enterprise in space occupied and operated for non-residential purposes. Typical service would include stores, offices, shops, restaurants, sorority and fraternity houses, boarding houses, hotels, service garages, wholesale houses, filling stations, barber shops, beauty parlors, master metered apartment houses, common areas of shopping malls or apartments (such as halls or basements), churches, elevators, schools and facilities located away from the home site. This is not an all-inclusive list.
- c. The definitions above are based upon the supply of service to the premises in its entirety through a single delivery and metering point. Separate supply for the same customer at other points of consumption shall be separately metered and billed.
- d. If separate metering is not practical for premises using gas for both domestic purposes and for conducting business (or for nonresidential

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purposes), the customer will be billed under the predominate use policy. Under this policy, the customer's combined service is billed under the rate (residential or non-residential) applicable to the type of service which constitutes greater than 50% of the total connected load.

- e. These rules will not change the classification of existing customers who were served gas prior to October 1, 1988 except in the event of a different customer taking responsibility for the account.
  - f. Other classes of service furnished by the Company shall be defined in applicable rate schedules or in rules and regulations pertaining thereto. Service to customers for which no specific rate schedule is applicable shall be billed under the nonresidential rates.
4. DISPATCHING - Transportation customers will adhere to gas dispatching policies and procedures established by the Company to facilitate transportation service. The Company will inform the customer of any changes in dispatching policies that may affect transportation services as they occur.
5. RULES COVERING GAS SERVICE - The rules and regulation for providing gas service are in accordance with the Code of Federal Regulations (49CFR Part 192 - Transportation of Natural and Other Gas by Pipeline). Customers needing information in regards to the rules and regulations for providing gas service may contact the Company to discuss by phone or to arrange an appointment at the Company's Sheridan Office to review the Code of Federal Regulations. The customer shall be responsible for compliance with all local, state and federal regulations for all gas piping and appliances located downstream of the outlet of the gas meter.
6. CUSTOMER DEPOSITS - The Company may require a deposit from an applicant for gas service (applicant) or an existing customer in accordance with Chapter 3, Section 7 of the Wyoming Public Service Commission's Rules:

The Company may require a deposit to guarantee payment for each service. This deposit shall not be considered as an advance payment of bills but shall

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be held as security for payment of service rendered. The Company may refuse service to an applicant or discontinue service to a customer for failure to comply with customer deposit requirements. The Company shall apply the policies governing customer deposits uniformly.

- a. The Company may require a deposit if:
  - i. A prior service account with the Company remains unpaid and undisputed at the time of application for service;
  - ii. Service from the Company has been discontinued for:
    - A. Nonpayment of any undisputed delinquent bill;
    - B. Failure to reimburse the Company for damages due to the customer's negligent or intentional actions; or
    - C. Acquisition, diversion or use of service without the authorization of or knowledge by the Company.
  - iii. Information provided upon application for service is materially false or a misrepresentation;
  - iv. The application is for initial service with the Company or the applicant did not have service with the Company for a period of at least 12 consecutive months during the past four years;
  - v. The applicant or non-residential customer is unable to pass an objective credit screen. In order to pass the objective credit screen, the applicant or non-residential customer must fulfill one or a combination of the following:
    - A. Received 12 consecutive months of service from the Company, with the undisputed portions of the 12 most recent bills paid in full when due;

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- B. Have a favorable credit rating with a third-party credit reporting agency; or
- C. Receive a favorable credit rating from the Company's financial risk assessment tool.
- vi. The request is for service at an address where a former customer with an undisputed delinquent bill for service still resides or conducts business;
- vii. The applicant for service, or the customer, has been brought within the jurisdiction of the bankruptcy court, or has had a receiver appointed in a state court proceeding, within the five year period immediately preceding the request for service; or
- viii. The Company has determined that it has a significant financial risk in continuing to provide service to a specific non-residential customer. The Company and the customer may attempt to reach a deposit agreement. If the Company and the customer are unable to reach an agreement, the Company shall file a confidential petition requesting expedited review and Commission approval prior to collecting the customer deposit. The petition shall contain the basis for the Company's determination, the amount of deposit sought and sufficient information for the Commission to contact the customer.
- b. Unless otherwise ordered by the Commission, the Company shall not require a deposit as a condition of new or continued utility service based upon any criterion not specifically authorized by the Wyoming Public Service Commission's Rules.
- c. Unless otherwise ordered by the Commission, the required deposit shall not exceed the total amount of the customer's estimated bill for three months of highest use based on the premises' monthly bills during the immediate previous 12-month period. If billing information

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for the immediate previous 12-month period is not available, the deposit will be based on anticipated service characteristics and anticipated load.

- d. The Company shall retain records showing:
  - i. The name and address of each customer making the deposit;
  - ii. The date and amount of the deposit; and
  - iii. Each accounting transaction concerning the deposit.
- e. The Company shall provide the customer a non-assignable receipt or other record of deposit, showing the date and amount received.
- f. The Company shall calculate simple interest on deposits at the Commission Authorized Interest Rate described in Chapter 1, Section 2(a)(xv) of the Wyoming Public Service Commission's Rules. Interest shall apply only to deposits held for at least six months, but shall accrue from the initial date of deposit through the date the deposit is returned to the customer.
- g. The Company may accept a written guarantee from an acceptable guarantor in lieu of a deposit to pay a customer's bill. After the Company has verified the customer's identity, the customer shall agree to permit the Company to provide the customer's account information to the guarantor upon the customer's default.
- h. Deposits and any unpaid interest earned on deposits shall be applied as a credit to the customer's bill, unless requested by the customer to be refunded, when:
  - i. The accrued interest equals or exceeds \$10.00. The Company shall apply the credit at least annually;

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- ii. A residential customer has received 12 consecutive months of service, with no cause to discontinue service; and the customer's bills have been paid when due;
- iii. A commercial or industrial customer has received 12 consecutive months of service, with no cause to discontinue service; the customer's bills have been paid when due; and the customer passes the Company's objective credit screen; or
- iv. Service is discontinued. The Company shall not require the customer to provide the original receipt in order for the deposit to be returned. Any credit balance on the account after the deposit is applied shall be refunded to the customer. If the Company is unable to make the refund due to lack of knowledge of the customer's location, additional interest will not accrue after the service discontinuation date. The Company shall manage such deposits as unclaimed property as required by Wyoming law (W.S. § 34-24-109).

#### 7. METERING AND MEASUREMENT:

- a. Meters and associated devices shall be installed in a reasonable location that is the shortest safe distance to the customer's building, accessible for reading, testing, inspection, removal and where such activities will minimize interference and inconvenience to the customer and the Company. Under no circumstances shall any meter be removed or relocated except by authorized Company personnel. The Company will furnish appropriate metering at the point of connection to the customer. The customer shall provide and maintain, without cost to the Company, a suitable location accessible for metering and installation of equipment required to provide service. The Company has the right to clear its services, connections and rights-of-way of any interfering tree, shrub, or other obstruction or to require the customer to clear and remove the interfering obstruction at the customer's expense.

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- b. All meters furnished by the Company are property of the Company and only Company-authorized personnel shall install, remove, test, adjust or conduct any repair or maintenance work thereon. The Company shall install and maintain at its own expense all equipment necessary to regulate and measure the commodity delivered for billing.
- c. The customer may install, operate and maintain at its sole expense, equipment for the purpose of measuring the amount of natural gas delivered over any measurement period (Customer meter), provided the equipment shall not interfere with such delivery or with the Company's meter.
- d. Each meter will be read by the Company authorized personnel at a minimum of monthly intervals, as nearly as possible on the corresponding day of each month. Bills shall show the meter readings at the beginning and end of the billing period, the date of the meter readings, the units consumed, the class of service and other information necessary to enable the customer to readily re-compute the amount of the bill. Each bill shall bear upon its face the date of the bill and the latest date it may be paid without penalty. An estimated reading may be utilized if a reading cannot be obtained or if it is not feasible to read the meter. Estimated meter readings shall be clearly identified on the bill. The amount of such an estimated bill will be adjusted as necessary when the next actual reading is obtained.
- e. The Company will meter the volume of natural gas delivered to the customer at the delivery point. Such meter measurement will be conclusive upon both parties unless such meter is found to be inaccurate, in which case the quantity supplied to the customer shall be determined by as correct an estimate as it is possible to make, taking into consideration the time of year, the schedule of the customer's operations and other pertinent facts.

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- f. Meter Testing
1. Company's Testing - The Company's ongoing meter testing program is set forth in Rate 136.
  2. Customer's Request - Upon request of the customer, the Company will complete a meter test of customer's meter. If the customer requests a test of the accuracy of the Company's meter used on the customer's premises, the following provisions shall apply:
    - i. If the meter has not been tested within 12 months, the Company shall perform the test within a reasonable time without charge to the customer. The Company shall notify the customer of the time when the Company will conduct the test so the customer or the customer's representative may be present.
    - ii. If the meter has been tested within 12 months, the Company shall notify the customer the cost to perform the test. The Company shall notify the customer of the time when the Company will conduct the test.
    - iii. The Company shall promptly advise the customer of the test results.
    - iv. If a meter is found to be in non-compliance with the Company's approved meter testing program, the Company shall refund the payment the customer advanced for the meter test and shall repair or replace the meter. The Company shall also adjust and refund to the customer the overpayment of preceding bills, in accordance with §V.10. No refund is required from the Company except to the customer last served by the meter prior to testing. If the Company has under collected, the customer shall pay the adjusted costs in accordance with §V.10.
  - v. The meter accuracy test charge amount is provided in §VI.1.~~fg~~.

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- vi. If such test shows the average error of the meter to be 2% or less, the customer will pay for the test if the meter has already been tested within the previous twelve months. See §VI.1.fg. for the applicable charges.
  - vii. If a tested meter shows an average error greater than plus or minus 2%, the Company will refund any overbilling, and the customer will pay any underbilling, in accordance with §V.10.
8. MEASUREMENT UNIT FOR BILLING PURPOSES - The measurement unit for billing purposes shall be one (1) decatherm (dk), unless otherwise specified. Billing will be calculated to the nearest one-tenth (1/10) dk. One dk equals 10 therms or 1,000,000 Btu's. Dk's shall be calculated by the application of a thermal factor to the volumes metered. This thermal factor consists of:
- a. An altitude adjustment factor used to convert metered volumes at local sales base pressure to a standard pressure base of 14.73 psia, and
  - b. A Btu adjustment factor used to reflect the heating value of the gas delivered.
9. UNIT OF VOLUME FOR MEASUREMENT –
- a. The standard unit of volume for purpose of measurement shall be one (1) cubic foot of gas at either local sales base pressure or 14.73 psia, as appropriate, and at a temperature base of sixty degrees Fahrenheit (60° F). Local sales base pressure is defined as four (4) ounces per square inch gauge (psig) pressure plus local average atmospheric pressure. The methods below describe the means to convert to this standard:
    - 1. For the majority of customers where natural gas is measured with positive displacement or turbine meters, correction to local sales base pressure shall be made for actual pressure and temperature with factors calculated from Boyle's and Charles' Laws. Boyle's Law states that gas contracts proportionately to pressure increase and expands proportionately to pressure decreases.

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2. Where gas is delivered at 20 psig or more, the deviation of the natural gas from Boyle's Law shall be determined by application of Supercompressibility Factors for Natural Gas. Supercompressibility will be calculated in the corrector using the Pipeline Research Committee International (PRCI) supercompressibility calculation found in the "Manual for the Determination of Supercompressibility Factors for Natural Gas", dated December 1962. For hand-billed accounts, application of supercompressibility factors will be waived on monthly billed volumes of 250 dk or less.

- b. Customers needing more information in regards to Supercompressibility Factors may contact the Company to discuss by phone or to arrange an appointment at the Company's Sheridan Office to review the PRCI publication referenced above.
- c. Each service meter shall clearly indicate the units of measurement. If the Company invoices customers in a different unit of measurement than the service meter indicates, the conversion factor shall be stated on the customer bill. In cases where special types of meters are used or where the readings of a meter must be multiplied by a constant to obtain the units consumed, that information shall be placed on the customer bill. When service is discontinued, a bill for final usage will be processed within 30 days following discontinuance.

#### 10. BILLING ADJUSTMENTS –

- a. In accordance with Wyo. Stat. § 37-2-218, if the Company charged, collected or received any rate or rates in excess of the rates fixed in the Company's tariff, the Company shall immediately refund to the customer the difference between the rates fixed in the tariff and the rates charged, collected or received. This shall also apply to meter errors described in §V.7.
- b. If the Company undercharged a customer as a result of a meter or metering inaccuracy or other continuing problem under the Company's control, the Company may bill the customer in accordance with Wyo. Stat.

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§ 37-2-222, for the amount of unmetered natural gas rendered in the 183 days immediately prior to the date the Company remedies the meter inaccuracy. The typical time period over which the undercharge may be collected shall be 12 consecutive months. The customer may elect to pay over a shorter period, or the Company may allow repayment over a longer period. This shall also apply to meter errors described in §V.7.

#### 11. PRIORITY OF SERVICE AND ALLOCATION OF CAPACITY- Priority of Service from Highest to Lowest

- a. Priority 1 - Firm sales services.
- b. Priority 2 - Small interruptible sales and small interruptible gas transportation service at the maximum rate on a pro rata basis.
- c. Priority 3 - Large interruptible sales and large interruptible transportation service at the maximum rate on a pro rata basis.
- d. Priority 4 - Small interruptible sales and transportation services from the highest rate to the lowest rate on a pro rata basis where equal rates are applicable among customers.
- e. Priority 5 - Large interruptible sales and transportation services from the highest rate to the lowest rate on a pro rata basis where equal rates are applicable among customers.
- f. Priority 6 - Gas scheduled to clear imbalances.

Montana-Dakota shall have the right, in its sole discretion, to deviate from the above schedule when necessary for system operational reasons and if following the above schedule would cause an interruption in service to a customer who is not contributing to an operational problem on Montana-Dakota's system.

Montana-Dakota reserves the right to provide service to customers with a lower priority while service to higher priority customers is being curtailed due to restrictions at a given delivery or receipt point. When such restrictions are eliminated, Montana-Dakota will reinstate sales and/or transportation of gas according to each customer's original priority.

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12. EXCESS FLOW VALVES – In accordance with Federal Pipeline Safety Regulations 49 CFR 192.383, the Company will install an excess flow valve on an existing service line at the customer's request on a mutually agreeable date. The actual cost of the installation will be assessed to the customer. Montana-Dakota will provide a cost estimate to the customer before installing the excess flow valve.

13. LATE PAYMENT - Amounts billed will be considered past due if not paid by the due date shown on the bill. An amount equal to the percentage set forth in §VI.2. will be applied to any unpaid balance existing at the immediate subsequent billing date, provided however, that such amount shall not apply where a bill is in dispute or a formal complaint is being processed. All payments received will apply to the customer's account prior to calculating the late payment charge. Those payments applied shall satisfy the oldest portion of the bill first.

14. RETURNED CHECK CHARGE - A charge as set forth in §VI.1.b. will be collected by the Company for any check not honored by the customer's financial institution for any reason.

15. MANUAL METER READING CHARGE – A charge as set forth in Rate 100, §VI.1.c. will be assessed monthly for customer(s) who have requested, and received Company approval, to have their meter read manually each month in lieu of an AMR-equipped meter read. Customers agree to contract for the manual reading of the meter for minimum period of one year.

#### ~~45~~16. TAX CLAUSE

a. In addition to the charges provided for in the gas 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:

1. 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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2. Any payment under any gas franchise ordinance amounting to more than 1% annually of the gross gas revenue derived by the Company from gas business within the corporate limits of the municipality, political subdivision, or other entity, imposing the payment.

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

~~46~~17. UTILITY CUSTOMER SERVICES:

- a. The following services will be performed at no charge regardless of the time of performance:
1. Fire and explosions calls.
  2. Investigate hazardous condition on customer premises, such as gas leaks, odor complaints, combustion gas fumes.
  3. Maintenance or repair of Company-owned facilities on the customer's premises.
  4. Pilot relights necessary due to an interruption in gas service deemed to be the Company's responsibility.
- b. The following service calls will be performed at no charge during the Company's normal business hours of 8:00 a.m. to 5:00 p.m. Monday through Friday local time:
1. A reconnection of service to an existing facility (cut-in) or a discontinuation of service (cut-out).
  - ~~2. Lighting pilots, in connection with establishing service when working cut-in orders.~~
  - ~~3~~2. High bills or inadequate service complaints.
  - ~~4~~3. Location of underground Company facilities for contractors, builders, plumbers, etc.

~~47~~18. UTILITY SERVICES PERFORMED AFTER NORMAL BUSINESS HOURS – For service requested by customers after the Company's normal business

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hours defined in §V.~~46~~~~17~~.b. and on Saturday, Sunday, or legal holidays, a charge will be made for labor at the overtime service rate plus the cost of any required materials.

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

To ensure the Company can service the customer during normal business hours, the customer's call must be received by 12:00 p.m. on a regular workday for a disconnection or reconnection of service that same day. For calls received after 12:00 p.m. on a regular workday, customers will be advised that overtime service rates will apply if service is required that day and the work cannot be completed during normal working hours. Service may be scheduled for a future workday to avoid overtime charges.

~~48~~19. NOTICE TO DISCONTINUE GAS SERVICE – Customers desiring to have their gas service discontinued shall notify the Company during regular business hours, at least one business day before service is to be discontinued. Such notice shall be by letter or telephone call to the Company's Customer Service Center. Saturdays, Sundays and legal holidays are not considered business days.

20. INSTALLING TEMPORARY METERING FACILITIES OR SERVICE - A customer requesting a temporary meter installation and service will be charged on the basis of direct costs incurred by the Company

~~19~~21. RECONNECTION FEE FOR SEASONAL OR TEMPORARY CUSTOMER – A customer who requests reconnection of service, at a location where same customer discontinued the same service during the preceding 12-month period, will be charged a reconnection fee as follows:

Residential – The Basic Service Charge applicable during the period service was not being used, as well as the reconnection fee set forth in §VI.1.~~de~~. during normal business hours. Standard overtime rates will be applied for reconnecting service after normal business hours.

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# Montana-Dakota Utilities Co.

~~A Subsidiary of MDU Resources Group, Inc.~~

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

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Non-Residential – The Basic Service Charge applicable during the period while service was not being used. However, the reconnection charge applicable to seasonal business concerns such as irrigation, swimming facilities, grain drying and asphalt processing shall be the Basic Service Charge applicable during the period while service was not being used less the Distribution Delivery Charge revenue collected during the period in-service for usage above the annual authorized usage by rate class (Small Firm General = ~~154~~156 dk and Large Firm General = ~~1,214~~1,256 dk). A reconnection fee as set forth in §VI.1.~~de~~. will also apply during normal

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business hours. Standard overtime rates will be applied for reconnecting service after normal business hours.

Transportation customers who cease service and then resume service within the succeeding 12 months shall be subject to a reconnection charge as set forth in §VI.1.~~ef~~. whenever reinstallation of the required remote data acquisition equipment is necessary.

~~2022~~. DISCONTINUANCE OF SERVICE FOR NONPAYMENT OF BILLS – All amounts billed for service 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 amounts billed, such service may be discontinued by the Company in accordance with Chapter 3, Section 9 of the Wyoming Public Service Commission's Rules.

- a. Discontinuation Notice – The Company may discontinue service by reason of nonpayment after issuing a disconnect notice and upon not less than 7 days' notice of proposed termination for residential customers and not less than 3 days' notice for nonresidential customers. The disconnect notice will be mailed or delivered to the account holder or by telephone after customer verification and mailed to any third party previously designated by the account holder. Additional notice may be provided electronically. The notice shall contain:
  1. The name of the person whose account is delinquent and the service address to be discontinued;
  2. The amount of the delinquent bill;
  3. The effective date of the notice and the date on or after which service is to be discontinued;
  4. The Company's specific address and telephone number for information regarding how to avoid service discontinuation;

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5. The names of agencies or organizations that have notified the Company that they render assistance to eligible persons who are unable to pay their utility bills; and
  6. A statement advising the customer how to contact the Commission if discontinuation is disputed.
- b. Landlord Account Holders – When the Company is discontinuing service for nonpayment by a landlord, the Company shall post, mail, or deliver to each known tenant a written notice, excluding the dollar amount, informing the tenant only of the impending disconnection and advising each tenant it has 15 days to arrange directly for service, as permitted by the available facilities. The tenant shall not be held responsible for the landlord's delinquent utility billings. The Company will post the notice at a central location on or in the rental building if all tenants cannot be identified.
  - c. The Company will notify the customer that, if prior to the initial date for the disconnection of service, the customer provides the Company with written verification from a health care provider responsible for the care of customer or his/her co-habitants stating that their health or safety would be seriously endangered if service were discontinued, the Company shall extend the date for discontinuation set forth in the notice by 15 days (22 days total) to allow for bill payment.
  - d. The Company shall attempt to make actual contact with the customer either in person or by telephone, after the customer verification, before discontinuing service during the cold weather period of November 1 through April 30.
  - e. The Company shall also provide notice of discontinuation or account delinquency to a third party if the customer or person acting for the customer has requested that the Company do so after the customer identification verification. The Company shall advise the Customer that the right to request third-party notification does not create third-party liability for payment.

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- f. If the customer defaults, the Company shall provide the discontinuation notice to the guarantor and the customer simultaneously. The guarantor's service shall not be subject to discontinuation as a result of the customer's default.
- g. The Company shall remove a guarantor when:
1. The customer has received 12 consecutive months of service with no cause for discontinuation, bills have been paid when due and the customer passes an objective credit screen;
  2. The guarantor has paid all amounts due for service through the date the Company received the request to terminate the guarantor agreement; or
  3. An additional agreement with the Company is in place.
- h. Reconnection After Nonpayment - To have service restored after discontinuation of service for nonpayment, a residential or a nonresidential customer must first pay a charge for reconnection as set forth in §VI.1.~~ed.~~, Service Charges, and must also pay the delinquent balance in full or execute a deferred payment agreement, if eligible. The Company may also require a deposit to secure payment of future gas bills. See §V.6 Customer Deposits.
- To ensure the Company can service the customer during normal business hours, the customer's call must be received by 12:00 p.m. on a regular workday for a disconnection or reconnection of service that same day. For calls received after 12:00 p.m. on a regular workday, customers will be advised that overtime service rates will apply if service is required that day and the work cannot be completed during normal working hours. Service may be scheduled for a future workday to avoid overtime charges.
- i. Discontinuation - -The Company may discontinue service between 8:00 a.m. to 4:00 p.m., Monday through Thursday if not a legal holiday or the day preceding a legal holiday without further notice when:

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1. The notification period has elapsed and the delinquent account has not been paid; or
2. Acceptable payment arrangements have not been made with the Company.

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- j. The Company shall assist persons who are unable to pay their natural gas service bills with determining available government assistance.

~~24~~23. PROHIBITIONS AGAINST SERVICE DISCONTINUATION - The Company shall not terminate service for bill nonpayment under the following conditions:

1. On a legal holiday as defined by Wyoming Statute §8-4-101, or the day before such a legal holiday;
2. During the period from December 24 through January 2, inclusive;
3. On any day in which the Company cannot reconnect service;
4. If the customer enters into an arrangement with the Company for payment of the delinquent billing over a reasonable time and the customer complies with payment arrangements;
5. If there are monies owed due to meter or other billing error, and the customer complies with payment arrangements;
6. At a previous address for a different class of service;
7. For nonutility services or appliance or merchandise provided by, or sold by, the Company to the customer;
8. If the customer is paying the gas service bills on time, even though a prior customer with an undisputed delinquent bill for service resides or conducts business at the same address;
9. If a gas service bill, or part of a bill, is legitimately in dispute, and if the customer duly pays the gas service bill, or bill portion, not in dispute;
10. If the temperature for the community closest to the customer's location is forecasted by the National Weather Service or other reputable source to be below 32°F in the impending 48 hours, or if conditions are otherwise especially dangerous to health, and the customer is:

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### CONDITIONS OF SERVICE Rate 100

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- a. A residential customer;
  - b. A non-residential customer providing service essential for the protection of public health, safety or welfare; and:
  - c. Unable to pay for service in accordance with the Company's billing requirements and is actively seeking government assistance or has exhausted such assistance; or
  - d. Able to only pay for service in installments; or
11. If a customer pays a bill on time for a specific service at a specific location, even though the customer is receiving another service that is subject to discontinuation for bill nonpayment.

#### ~~2224~~.DISCONTINUANCE OF SERVICE FOR CAUSES OTHER THAN NONPAYMENT OF BILLS -The Company reserves the right to discontinue service for any of the following reasons:

- a. In the event of customer use of equipment in such a manner as to adversely affect the Company's equipment or service to others.
- b. In the event of tampering with the equipment furnished and owned by the Company.
- c. For violation of or noncompliance with the Company's rules on file with the Commission.
- d. For failure of the customer to fulfill the contractual obligations imposed as conditions of obtaining service.
- e. 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

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- f. The Company may discontinue service for causes other than non-payment after issuing a discontinuance notice in accordance with §V.~~2022~~ a and §V.~~2022~~ d. The discontinuation of service for causes other than non-payment may occur on the days and during the hours as stated in §V.~~2022~~ i.
- g. 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.
- h. The Company may discontinue service without advance notice for reasons of safety, health, cooperation with civil authorities, fraudulent use, tampering with or destroying Company facilities.
- i. The Company may collect a reconnect fee, as prescribed in §VI.1.~~ed~~. before restoring gas service which has been discontinued for the above causes.

~~2325~~. UNAUTHORIZED USE OF SERVICE - Unauthorized use of service is defined as any deliberate interference or tampering with a Company meter, pressure regulator, registration, connections, equipment, seals, procedures or records resulting in a loss of revenue to the Company. Unauthorized service includes reconnection of service that has been discontinued, without the Company's consent.

- a. Types of unauthorized use of service includes, but is not limited to, tampering or unauthorized reconnection by the following methods:
  - 1. Bypass piping around meter.
  - 2. Bypass piping installed in place of meter.
  - 3. Meter reversed.
  - 4. Meter index disengaged or removed.
  - 5. Service or equipment tampered with or piping connected ahead of meter.

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6. Tampering with meter or pressure regulator that affects the accurate registration of gas usage.
7. Gas being used after service has been discontinued by the Company.
8. Gas being used after service has been discontinued by the Company as a result of a new customer turning gas on without the proper connect request.

- b. Any charges for damage to Company property will be billed to the customer. The customer may also be charged for:

1. Time, material and transportation costs used in investigation or surveillance.
2. Estimated charge for non-metered gas.
3. On-premise time to correct situation.
4. A minimum fee of \$30.00 will apply, ~~§VI~~ (1)(~~ed~~).

All such charges shall be at current standard or customary amounts being charged for similar services, equipment, facilities and labor by the Company.

- c. Reconnection of Service:  
Customer service discontinued for any of the above reasons shall be reconnected after a customer has furnished satisfactory evidence of compliance with Company's rules and conditions of service, and paid any service charges which are due, including:
1. All delinquent bills, if any;
  2. The amount of any Company revenue loss attributable to said unauthorized use of service;
  3. Expenses incurred by the Company in replacing or repairing the meter or other equipment, costs incurred in preparation of the bill, and costs outlined in paragraph b. above;
  4. Applicable Reconnection fee; and
  5. A cash deposit, the amount of which will not exceed the maximum amount determined in accordance with §V.6 Customer Deposits.

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### CONDITIONS OF SERVICE Rate 100

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~~24~~26. RATE FOR 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 percent.

~~25~~27. REFUSAL TO SERVE NEW CUSTOMERS OR EXPAND EXISTING SERVICE – The Company may refuse to provide, expand or materially change service to a requesting customer when:

- a. The Company does not have adequate facilities to render the service requested and the customer is not willing to comply with the Company's gas service extension policy tariffs.
- b. The requested service appears to be unsafe or likely to adversely affect service to another customer; or
- c. The requesting customer is indebted to the utility for service previously rendered and satisfactory payment arrangements have not been made with the Company.
  1. If indebtedness for service rendered at a former location is in dispute, the requesting customer shall be provided service at the new location upon complying with the Company's deposit requirements and paying the amount in dispute. Upon settlement of the disputed amount, any balance due the customer shall be refunded with accrued interest at the Commission Authorized Interest Rate described in Chapter 1, Section 2(a)(xv) of the Wyoming Public Service Commission's Rules.
  2. The Company shall not refuse service to a new customer because of debts of a previous customer at the same location.
  3. The Company may refuse service due to unpaid line extension charges for facilities serving the location.

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~~2<sup>nd</sup> Revised~~Original Sheet No. 111

~~Canceling 1<sup>st</sup> Revised Sheet No. 111~~

### CONDITIONS OF SERVICE

#### Rate 100

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#### ~~2628.~~ SEE ALSO THE FOLLOWING RATES FOR SPECIAL PROVISIONS:

- Rate 119 - Interruptible Gas Service Extension Policy
- Rate 120 - Firm Gas Service Extension Policy
- Rate 122 - AutoPay Plan
- Rate 124 - Replacement, Relocation and Repair of Gas Service Lines
- Rate 125 - Balanced Billing Plan
- Rate 136 - Rule Covering Company Meter Testing Program

### VI. MISCELLANEOUS CHARGES

	Amount or Reference
1. Service Charges	
a. Consumer deposits	§V.6.
b. Returned check	\$30.00
<del>c.</del> <u>Manual Meter Reading Charge</u>	<u>\$26.05</u>
<del>d.</del> <u>Reconnect charge after discontinuation of service for nonpayment or other causes</u>	
- During normal business hours 8:00 a.m. – 5:00 p.m. local time	\$30.00
- After normal business hours	Minimum of \$140.00
<del>e.</del> <u>Minimum reconnect charge applicable to seasonal or temporary customers (See Rate 100 §V.1921)</u>	
- During normal business hours	\$30.00 minimum
- After normal business hours	Minimum of \$140.00
<del>f.</del> <u>Reconnection charge applicable to transport customers when electronic metering must be reinstalled</u>	\$160.00

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State of Wyoming  
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~~Canceled Original Sheet No. 112~~

CONDITIONS OF SERVICE  
Rate 100

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- ~~fg.~~ Special test of meter at customer's request (see Rate 100 §V.7f.2. as to when this charge is applicable)
  - Meter error more than ±2% None
  - Meter error within ±2% and meter was tested within the prior 12 months Labor & materials Minimum of \$30.00
- ~~gh.~~ Service request after normal business hours Materials & Labor Minimum of \$140.00
- ~~hi.~~ Firm service main extension Rate 120
- ~~ij.~~ Interruptible service main extension Rate 119

		Per	Approx.
		Month	Annual
		1%	Percent
2.	Late Payment Charges – Undisputed (on unpaid balance)		12%



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### SUMMARY BILLING PLAN Rate 115

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#### Availability:

Under the Company's Summary Billing Plan, customers are provided an optional billing arrangement under which a customer's multiple premises may be consolidated into one billing statement each month. This billing arrangement is available in all communities served by the Company for customers who voluntarily agree to participate in the Summary Billing Plan and who continue to meet the availability and terms and conditions of the plan.

The Company may limit the number of premises participating in the plan and exclude services based on rate and/or customer class or credit standing with the Company. Seasonal, short-term, or temporary customers will not be allowed to enroll. Participation in other optional programs such as Balanced Billing may also limit a customer's ability to participate in this billing arrangement. This is not an all-inclusive list of exclusions and service enrollment is at the Company's sole discretion.

#### General Terms and Conditions:

1. A customer requesting Summary Billing must provide 45 days advanced notice of their request to enroll.
2. Customer agrees to contract for Summary Billing for a minimum of one year.
3. Each service enrolled in the Summary Billing Plan shall be billed at the otherwise applicable rate schedule.
4. The Company, at its sole discretion, will select the bill date for an enrolled customer's Summary Bill.
5. Enrolled customers need only make one payment each month covering the total amount due for all services included in the Summary Bill.
6. Payment policies remain in effect for each customer participating in the plan. Any determination of delinquencies will be based on the bill date of the Summary Bill.
  - a. If a customer participating in the Summary Billing Plan falls into arrears, the Company, at its sole discretion, may discontinue this optional billing arrangement and revert the services into separate billing statements.

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### SUMMARY BILLING PLAN Rate 115

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7. Either the customer or the Company may cancel a customer's Summary Billing Plan with a 45-day advanced notice of cancellation. Upon cancellation of the plan, a customer's services will revert into separate billing statements.
  - a. Upon cancellation of a Summary Billing Plan, the customer may not request the establishment of a new Summary Billing Plan for at least one year after cancellation.
8. The Company will not be liable for any customer costs which may result from any refusals, delays or failures resulting from requests for, or changes to, a customer's Summary Billing Plan.

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## State of Wyoming Gas Rate Schedule

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### INTERRUPTIBLE GAS SERVICE EXTENSION POLICY Rate 119

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The policy of Montana-Dakota Utilities Co. for gas extensions necessary to provide interruptible sales or interruptible transportation service to customers is as follows:

1. Contribution
  - a. Prior to construction, the customer shall contribute an amount equal to the total cost of construction including all gas main extensions, valves, service line(s), cathodic protection equipment, regulators, meters (excluding remote data acquisition equipment), any required payments made by the Company to the transmission pipeline to accommodate the extensions, and other costs as adjusted for federal and state income taxes.
  - b. The contribution shall be made by:
    - i. A one-time payment prior to construction, or
    - ii. The customer may post a bond, irrevocable letter of credit, or a written guarantee commitment in the amount of the total contribution required prior to construction. Such bond, issued by a bonding company authorized to do business in the state, letter of credit, or written guarantee commitment, shall be effective for a five-year period commencing at the plant in service date, and is subject to approval and acceptance by the Company. If at the end of the original five-year term, a contribution requirement exists for the subject project, the surety or guarantor shall pay the Company for such contribution requirement, or
    - iii. Customer, upon approval by Company, may finance the amount of the required contribution subject to the following conditions: 1) maximum contribution to be financed shall be determined by the Company at its sole discretion, 2) maximum term shall be five years, 3) interest will be charged at the Company's current cost of debt determined at the time of construction.

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### INTERRUPTIBLE GAS SERVICE EXTENSION POLICY Rate 119

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- c. Upon completion of construction, the contribution amount will be adjusted to reflect actual costs, and an additional charge may be levied or a refund may be made.
  - d. Remote data acquisition equipment costs shall be subject to the terms and conditions specified in Transportation Service Rates 81 and 82.
2. Refund
- a. If within the five-year period from the extension(s) in service date, the total of the customer's contribution and actual margin paid to the Company equals or exceeds the total present value of the revenue requirement associated with the extension, Company shall refund the amount exceeding the revenue requirement on the following basis:
    - i. Annually, beginning at the 2nd anniversary of the extension(s) in-service date, the Company will refund to the customer, the amount exceeding the total present value of the revenue requirement at a rate of 50% of the current year margin associated with the customer's actual throughput.
    - ii. Customers who have posted a bond, letter of credit, or a written guarantee commitment will be notified of any reduction in surety or guarantee requirements based on the above calculation.
    - iii. No refunds will be made for amounts less than \$25.
  - b. Interest will be calculated annually by the Company on any refund amounts and shall be equal to the Commission Authorized Interest Rate in Chapter 1, Section 2(a)(xv) of the Wyoming Public Service Commission's Rules.
  - c. No refund shall be made by the Company after the five-year refund period has expired, and in no case shall the refund, excluding interest, exceed the amount of contribution made by the customer.

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# Montana-Dakota Utilities Co.

~~A Subsidiary of MDU Resources Group, Inc.~~

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. ~~23~~  
Original Sheet No. 130

### FIRM GAS SERVICE EXTENSION POLICY Rate 120

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The policy of Montana-Dakota Utilities Co. for gas extensions necessary to provide firm sales or firm transportation service to customers is as follows:

#### A. General Rules Applicable to all Firm Service Extensions

1. An extension will be constructed without a contribution if the estimated capital expenditure is cost justified as defined in Paragraph B.
2. The Company may require customer or developer cost participation if the estimated capital expenditure is not cost justified as specified in Paragraph B.
3. The extension will be considered cost justified if the calculated Maximum Allowable Investment equals or exceeds the estimated capital expenditure using the following formula:

Maximum Allowable Investment =

$$\frac{(\text{Annual Basic Service Charge} + (\text{Project Estimated Annual Dk x} \\ \text{Distribution Delivery Charge or Demand Charge}))}{\text{Levelized Annual} \\ \text{Revenue Requirement Factor}}$$

Levelized Annual Revenue Requirement Factor is defined as the annual rate required to recover the present value of a project over the life of a project. The Levelized Annual Revenue Requirement Factor – 13.313%

4. Cost of the extension shall include the gas main extension(s), valves, service line(s), cathodic protection equipment, any required payments made by the Company to the transmission pipeline company to accommodate the extension(s), and other costs up to, and including, the riser.

The service line is that portion of the gas service extending from the gas main to the connection at the house regulator and/or meter.

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# Montana-Dakota Utilities Co.

~~A Subsidiary of MDU Resources Group, Inc.~~

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. ~~23~~  
Original Sheet No. 131

### FIRM GAS SERVICE EXTENSION POLICY Rate 120

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5. Where cost participation is required, such extension is subject to execution of the Company's standard agreement for extensions by the customer or the developer and Company.
6. A refund will be made in accordance with §B.2. a-c as required within a five-year period from the extension(s) in service date. Interest will be calculated annually by the Company on any refund amounts and shall be equal to the interest rate applicable to customer deposits as established in Chapter 1, Section 2(a)(xv) of the Wyoming Public Service Commission's Rules.

No refund shall be made by Company after the five-year refund period and in no case shall the refund excluding interest, exceed the amount of the contribution.

7. The Company reserves the right to charge customer the cost associated with providing service to customer if service is not initiated within 12 months of such installation.

#### B. Customer Extensions

Cost participation for extensions where customers will be immediately available for service is as follows:

1. Contribution –
  - a. When a contribution is required, the customer(s) shall pay the Company the portion of the capital expenditure exceeding the footage allowance or Maximum Allowable Investment as determined in accordance with Paragraph B.
  - b. The contribution shall be made by:
    - i. A one-time payment prior to construction, or

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# Montana-Dakota Utilities Co.

~~A Subsidiary of MDU Resources Group, Inc.~~

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

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Original Sheet No. 132

### FIRM GAS SERVICE EXTENSION POLICY Rate 120

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- ii. Payment of 25% of the contribution prior to construction and the balance in no more than twenty-four equal monthly installments. If customer discontinues service within the twenty-four month period, the balance will be due and payable upon discontinuance of service, or
  - iii. Customer may post a bond, irrevocable letter of credit, or a written guarantee commitment in the amount of the required contribution prior to construction. Such bond, issued by a bonding company authorized to do business in the state, letter of credit, or written guarantee commitment, shall be effective for the original five-year term and is subject to approval and acceptance by the Company. If at the end of the original five-year term, a contribution requirement exists in the subject project based on a recalculated maximum expenditure, the surety or guarantor shall reimburse the Company for such recalculated contribution requirement, or
  - iv. Customer, upon approval by Company, may finance with the Company the amount of the required contribution subject to the following conditions: 1) maximum contribution to be financed shall be determined by the Company at its sole discretion, 2) maximum term shall be five years, 3) interest will be charged at the Company's current cost of debt determined at the time of construction.
- c. Upon completion of construction, the contribution amount will be adjusted to reflect actual footage or installed costs, and an additional charge may be levied or a refund may be made.
- d. If within the five-year period from the extension(s) in service date, the number of active customers and/or related volumes exceeds the projections, the Company shall recompute the contribution requirement.

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# Montana-Dakota Utilities Co.

~~A Subsidiary of MDU Resources Group, Inc.~~

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### FIRM GAS SERVICE EXTENSION POLICY Rate 120

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- e. The recalculated contribution requirement shall be collected from the new applicant(s).
- 2. Refund -
  - a. The Company will refund to the original contributor(s) the amount required to reduce their contribution to the recalculated contribution requirement as defined in Paragraph 1.d. and 1.e. above. No refunds will be made for amounts less than \$25. Customers who have posted a bond, letter of credit, or written guarantee commitment will be notified of any reduction in surety or guarantee requirements.
  - b. No refunds will be made until the new applicants begin taking service from the Company.
  - c. If the addition of new customers will increase the contribution required from existing customer(s), the extension will be considered a new extension and treated separately.
- 3. Incremental Extension Surcharge -
  - a. The Company, in its sole discretion, may offer an Incremental Extension Surcharge (Surcharge) to groups of customers requesting service totaling 10 or more when the total estimated cost would otherwise have been prohibitive under the Company's present rates and gas service extension policy. The contribution requirement to be collected under the Surcharge shall be the amount of the capital expenditure in excess of the Maximum Allowable Investment determined in accordance with Paragraph A.3.
    - i. A minimum up-front payment of \$100.00 will be collected from each customer who signs an agreement to participate in the expansion.

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# Montana-Dakota Utilities Co.

~~A Subsidiary of MDU Resources Group, Inc.~~

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### FIRM GAS SERVICE EXTENSION POLICY Rate 120

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- ii. For projects that are expected to be recovered within a 5-year period, the Surcharge shall be set at a fixed monthly charge of \$5.00 per month plus \$1.50 per dk.
- iii. For projects that are not expected to be recovered within a 5-year period, the Surcharge shall be set at a fixed monthly charge of \$5.00 per month plus a volumetric surcharge designed to provide recovery of the contribution requirement in a 5-year period.
- b. The Surcharge shall remain in effect until the net present value of the contribution requirement, calculated using a discount rate equal to the overall rate of return authorized in the last rate case, is collected.
- c. The Surcharge shall apply to all customers connecting to natural gas service within the extension area until the contribution requirement is satisfied.
- d. The net present value of the Surcharge will be treated as a contribution-in-aid of construction for accounting purposes.

#### C. Developer Extensions

Cost participation may be required for extensions such as a subdivision or mobile home court, in which a developer is installing roads, utilities, etc., before housing is built.

- 1. Contribution –
  - a. When a contribution is required, the developer shall pay the Company the portion of the capital expenditure exceeding the Maximum Allowable Investment as determined in accordance with Paragraph B.2.

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# Montana-Dakota Utilities Co.

~~A Subsidiary of MDU Resources Group, Inc.~~

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Original Sheet No. 135

### FIRM GAS SERVICE EXTENSION POLICY Rate 120

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- b. The contribution shall be made by:
    - i. A one-time payment prior to construction, or
    - ii. Developer may post a bond, irrevocable letter of credit, or a written guarantee commitment in the amount of the required contribution prior to construction. Such bond, issued by a bonding company authorized to do business in the state, letter of credit, or a written guarantee commitment, shall be effective for the original five-year term and is subject to approval and acceptance by the Company. If at the end of the original five-year term, a contribution requirement exists in the subject project based on a recalculated maximum expenditure, the surety shall reimburse the Company for such recalculated contribution requirement, or
    - iii. Customer, upon approval by Company, may finance with the Company the amount of the required contribution subject to the following conditions: 1) maximum contribution to be financed shall be determined by the Company at its sole discretion, 2) maximum term shall be five years, 3) interest will be charged at the Company's current cost of debt determined at the time of construction.
  - c. Upon completion of construction, the contribution amount will be adjusted to reflect actual installed costs, and an additional charge may be levied or a refund may be made.
2. Refund -
- a. If within the five-year period from the extension(s) in service date, the number of active customers and related volumes exceeds the projections, the Company shall recompute the contribution requirement by recalculating the Maximum Allowable Investment. Such recalculation shall be done annually based upon the anniversary of the extension(s) in service date.

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# Montana-Dakota Utilities Co.

~~A Subsidiary of MDU Resources Group, Inc.~~

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Bismarck, ND 58501

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Original Sheet No. 136

### FIRM GAS SERVICE EXTENSION POLICY Rate 120

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- b. The Company will refund to the developer the amount required to reduce their contribution to the recalculated contribution requirement. No refunds will be made for amounts less than \$25. Developers who have posted a bond, letter of credit, or written guarantee commitment will be notified of any reduction in surety or guarantee requirements.
- c. If the addition of new customer(s) will increase the contribution required from the developer, the extension will be considered a new extension and treated separately.

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# Montana-Dakota Utilities Co.

~~A Subsidiary of MDU Resources Group, Inc.~~

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## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. ~~23~~

~~1<sup>st</sup> Revised~~Original Sheet No. 140

~~Canceled~~Original Sheet No. 140

### AUTOPAY PLAN Rate 122

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#### Availability:

The AutoPay Plan provides customers the option to automatically have their gas service bill, including miscellaneous charges, deducted from their checking account. This option is available in all communities served by the Company to all customers who voluntarily agree to participate in the AutoPay Plan and who have not issued two or more NSF checks to the Company in the preceding 12 month period and are not currently utilizing the Low Income Energy Assistance Program (LIEAP).

#### General Terms and Conditions:

1. All provisions set forth in customer's otherwise applicable standard rate schedule shall apply.
2. The Company will issue a bill each month to the customer.
3. The bill will indicate that the amount shown in the "Amount Due" column will be automatically deducted from the customer's checking account each month on the due date indicated on the customer's bill.
4. All customers who accept the AutoPay Plan shall sign an authorization form.
5. The Company has the right to remove a customer from the AutoPay Plan if the financial institution has advised the Company of two NSF check instances within the preceding 12 month period. Thereafter, customer shall be again eligible to participate in the AutoPay Plan in the future providing that the customer has complied with the "Availability" section above.
6. Customers utilizing the AutoPay Plan who subsequently use the LIEAP will be removed from the AutoPay Plan by the Company.
7. The customer may cancel the use of the AutoPay Plan option by notifying the Company in writing.

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## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. ~~23~~  
Original Sheet No. 150

### REPLACEMENT, RELOCATION AND REPAIR OF GAS SERVICE LINES Rate 124

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1. Where service line location changes are required due to building encroachments (a building is being constructed or is already located over a service line, etc.), the customer, shall be charged on the basis of direct costs incurred by the Company.
2. Whenever a service line is damaged by the customer or someone under the employ of the customer necessitating the service line to be either repaired or replaced by the Company in whole or in substantial part, such work shall be charged for on a direct cost basis. If the damage was caused by independent contractors, not in the employ of the customer, the charges shall be billed directly to such contractor.
3. Service line changes necessary to increase the size and capacity of an existing service line because of increased demand shall be treated in accordance with the Firm Gas Service Extension Policy Rate 120.

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# Montana-Dakota Utilities Co.

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## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. ~~23~~  
Original Sheet No. 160

### BALANCED BILLING PLAN Rate 125

Page 1 of 2

#### 1. SCOPE

- A. The Balanced Billing Plan (Plan) provides gas customers with a method of paying for gas usage to avoid the highs and lows associated with normal monthly billing. The customer's monthly bill is computed by taking an average of the usage during the previous twelve months'. Current energy rates are then applied to this average monthly usage to calculate the current payment due. Qualified customers with less than 12 month's history at their current premises are also allowed to enroll in the Plan.
- B. Monthly bills rendered under this Plan, as indicated in Paragraph A. above, will be based upon a moving average consumption and will normally change each month. The moving average will change slightly each month and thus appropriate dollar adjustments will be made to the billed amount each month.
- C. The provisions of this Plan are applicable to all residential customers and to certain nonresidential gas customers served. Accordingly, the following nonresidential customers do not qualify for this Plan:
1. Industrial, municipal, or inter-departmental gas customers.
  2. Combination customers who have electric demand meters – neither the gas nor electric usage qualifies for the Plan.
  3. Interruptible or otherwise controlled customers.
  4. Seasonal, short-term or temporary customers.
  5. Customers whose accounts are delinquent and who have not entered into a deferred payment agreement.
  6. Customers whose usage patterns are not sufficiently predictable so as to permit estimation on an annual basis with a reasonable degree of certainty.

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Original Sheet No. 161

### BALANCED BILLING PLAN Rate 125

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#### 2. PROCEDURE

- A. Customers must contact the Company to request enrollment in the Balanced Billing Plan.
- B. If the customer's account is current and otherwise qualifies for enrollment in the Plan as provided in Section 1.C., the customer will be so informed at the time of customer's request and the customer's account record in the Customer Information System will be so coded.
- C. As indicated in Section 1.C.5., customers who are delinquent cannot qualify for the Plan unless they are able to pay any amounts past due or enter into a deferred payment agreement with the Company. The customer agrees to pay a reasonable fixed amount each month in addition to the Balanced Billing Plan payment amount until such arrears are paid in full.
- D. Customers enrolled in the Plan will continue to be billed under the Plan provisions until they request removal or they are sixty days in arrears and are removed from the Plan by the Company.
- E. If a customer desires to be removed from the Plan, the customer must contact the Company to request withdrawal from the Plan. Removal from plan will be effective following contact regarding withdrawal. Upon such removal the total unpaid balance becomes due at the next billing cycle. If a credit balance exists it may be refunded or applied to the next cycle billing, at the customer's discretion.
- F. If a customer is removed from the Plan due to delinquency as indicated above, the total unpaid balance in their account becomes due and payable.

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# Montana-Dakota Utilities Co.

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## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 23  
Original Sheet No. 170

### **RULE COVERING COMPANY METER TESTING PROGRAM Rate 136**

Page 1 of 4

#### APPLICABILITY:

The policy of Montana-Dakota Utilities Co. for the testing of gas meters in compliance with Chapter 3, Section 18 of the Wyoming Public Service Commission's Rules.

#### NEW METERS:

1. This meter test schedule shall not apply to meters with capacity in excess of 650 cubic feet per hour (cfh) at 0.5 inch water column (wc). Such meters shall continue to be tested and adjusted or repaired, if necessary, at a periodic interval of at least once in ten years. Meter supplier(s) shall provide test data for all new meters.
2. New meters received from a manufacturer shall be subjected to testing on a random sample basis of five percent (5%) of the total received at full load and light load. If unsatisfactory, all meters in the shipment shall be tested, and repaired if necessary, or the shipment shall be returned to the manufacturer. As new or replacement equipment is placed into service, pertinent information describing and identifying such equipment will be submitted to the Wyoming Public Service Commission.

#### METER TEST PROGRAM:

1. All active meters, 650 cfh and smaller, will be combined into a single random test program. The population of meters shall come from the state of Wyoming, North Dakota, Minnesota, Montana and South Dakota. At the time the random selection is made, meters more than ten years old and active meters that have not been tested in the last ten years will be placed into an installation class defined model installation date lot to be part of a random population for testing.
2. All active meters will be assigned to lots on the basis of installation date. The meters to be sampled will be divided into lots based on manufacturer, type, and last install date in five year groups. The minimum number of samples taken from each lot will be as specified by Military Standard No. 414, Sample Procedures and Table for Inspection by Variables for Percent Defective, inspection level IV with specification limits of +/- 2.0%.

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# Montana-Dakota Utilities Co.

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### RULE COVERING COMPANY METER TESTING PROGRAM Rate 136

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3. The meters tested within the random test program will include meters selected via a computer generation random selection process and meters pulled from the customers' premises in correlation with service technicians being on-site for other service related work not including meter testing requested by the customer or initiated by the Company.
4. Lot acceptability will be determined by the standard deviation method based on single sample, double specification limit, variability unknown, for an acceptable quality level of 15% as follows:
  - a. A meter lot for which the sample is satisfactory will remain in service.
  - b. A meter lot for which the sample fails may remain in service if it passed the previous year and if no more than 10% of the sample registers over 102%.
  - c. A meter lot for which the sample fails will be removed if the lot failed the previous year or if more than 10% of the sample registers over 102%.
    - i. If evaluation determines the group is homogeneous, then the entire group will be removed.
    - ii. If group is not homogeneous and a subset of the group is found defective, that subset will be removed. A failed lot of meters will be removed from service for testing and repair within one year.
5. The Company will report the results of the meter test program annually. The test period will cover the fiscal year July 1 to June 30 with a report available to the Commission by ~~December~~April of each year.

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# Montana-Dakota Utilities Co.

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## State of Wyoming Gas Rate Schedule

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~~1<sup>st</sup> Revised~~Original Sheet No. 172

~~Canceled~~Original Sheet No. 172

### RULE COVERING COMPANY METER TESTING PROGRAM Rate 136

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#### METER TEST EQUIPMENT:

<u>TYPE</u>	<u>MANUFACTURER</u>	<u>USED FOR</u>	<u>DEGREE OF ACCURACY</u>	<u>CALIBRATION INTERVAL</u>
Snap Series III	American (Ser. No. XU-3097)	Gas Meter Standard	±0.13%	36 Months
Snap Series III	American (Ser. No. XU-3403)	Gas Meter Standard	±0.13%	36 Months
Snap Series III	American (Ser. No. L61108-238)	Gas Meter Standard	±0.13%	36 Months
Model 6	Dresser (Ser. No. 9325089/9325158)	Gas Meter Standard	+0.55%	5 Years
Model 6	Dresser (Ser. No. 9390008/9390014)	Gas Meter Standard	+0.55%	5 Years

1. The interval for the calibration of above listed test equipment is 3 years for the Snap provers and 5 years for the Model 6 prover. The test equipment is either sent to the factory to be calibrated or a factory representative comes on site to calibrate the test equipment.
2. The factors that influence the accuracy are temperature and humidity. Since the testing is conducted indoors where temperature is maintained well within the range of 55 and 85 degrees F° and humidity is maintained below 90%, the test equipment maintains accuracy during the testing of meters.
3. All apparatus used for test and calibration purposes shall be cared for and maintained as recommended in the manufacturer's operating and

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~~1<sup>st</sup> Revised~~Original Sheet No. 173

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### RULE COVERING COMPANY METER TESTING PROGRAM Rate 136

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maintenance manuals. Appropriate carrying cases designed for the purpose shall be used when such equipment is transported to or from its normal service location for the purposes of performing tests, normal maintenance repairs, or recalibration.

4. Meters and other equipment which will be used as a reference standard to certify other equipment shall be kept in a temperature stable environment, and shall be calibrated annually except as otherwise stated herein. Bell provers, transfer provers or sonic nozzles shall be recertified at not more than five-year intervals and after being moved or dimensionally altered. Recertification shall be accomplished by use of standard-cubic foot bottles, by strapping or by optical measurement techniques, the latter being the preferable method.
5. Meters and other equipment which are used as a reference standard shall only be used for calibration purposes, and shall not be used for trouble shooting, corrective maintenance or any other activity which might jeopardize the integrity of the instrument for calibration accuracy. Calibrating meters equate a cubic foot of gas with the amount of gas that occupies one cubic foot, dry, at 60° F at 14.73 pounds per square inch absolute.
6. Calibration of the items used by the utility for reference standards shall be accomplished by an instrument with a higher degree of accuracy than the item being calibrated with the accuracy of said instrument being traceable to the National Institute of Standards and Technology (NIST).
7. Whenever any gas meter is tested, the test record shall be preserved, including the information necessary for identifying the meter, the reason for making the test, the reading of the meter upon removal from service and the result of the test, together with all data taken at the time of the test in sufficiently complete form to permit the convenient checking of the methods employed and the calculations. The record shall be kept for the life of the meter. The standard used to make this test shall be in a current calibration status. Each item of portable test equipment shall be marked with a tag or adhesive label to show the last calibration date.

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# Montana-Dakota Utilities Co.

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## State of Wyoming Gas Rate Schedule

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Original Sheet No. 180

### SERVICE INTERRUPTION REPORTING PLAN Rate 137

Page 1 of 4

The following sets forth the Company's Service Interruptions and Reporting Plan as required in Chapter 3, Sections 3, 27, and 28 of the Wyoming Public Service Commission (Commission) Rules, applicable to service provided by the Company in its Wyoming service territories.

- A. The Company shall make all reasonable efforts to avoid interruptions of service and, when interruptions occur, the Company shall re-establish service in a timely and safe manner.
- B. The Company shall submit a written, confidential list of contact names and telephone numbers to be used when a service interruption occurs. The list shall:
  - 1. Be resubmitted each January and July, whether or not the contact person(s) have changed since the last submittal
  - 2. Be updated as soon as a contact changes;
  - 3. Include contact information to communicate with individuals who are knowledgeable about service interruptions, the estimated duration and the possible causes of service interruptions; and
  - 4. Include contact information to communicate with individual(s) who are available to confer with the Commission at all times.
- C. The Company shall notify the Commission of all planned major service interruptions at least 48 hours in advance, except in emergencies.
- D. The Company shall make reasonable effort to provide affected customers two business days' notice of a planned service interruption.
- E. The Company shall make reasonable efforts to establish mutual aid agreements with other entities to assist in the recovery of large scale service interruptions, natural disasters or other significant events.

**Date Filed:** ~~February 3, 2020~~ October 31, 2024

**Effective Date:** Service rendered on and after ~~March 1, 2020~~

**Issued By:** ~~Tamie A. Aberle~~ Travis R. Jacobson  
Director – Regulatory Affairs

**Docket No.:** 30013-~~351-GR-19~~ 15-GR-24



# Montana-Dakota Utilities Co.

~~A Subsidiary of MDU Resources Group, Inc.~~

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. ~~23~~  
Original Sheet No. 181

### SERVICE INTERRUPTION REPORTING PLAN Rate 137

Page 2 of 4

F. Definitions of Major Service Interruptions – Reportable incidents that will or are likely to produce significant detrimental effects to customers, facilities or public safety shall be reported to the Commission within two hours of the incident by contracting the Commission's Service Interruption Reporting Telephone (SIRT) number. Reportable Incident shall be defined as:

1. An event that causes loss to the operator or others and results in:
  - a. Estimated property damage of at least \$50,000;
  - b. Death, in-patient hospitalization, damage to the Company's property which substantially affects service to the public or is otherwise significant in the judgement of the Company;
2. Any incident reportable to the National Response Center:
  - a. An event that involves a release of gas from a pipeline, or of liquefied natural gas, liquefied petroleum gas, refrigerant gas or gas from an LNG facility, and that results in one or more of the following;
    - i. A death, or personal injury necessitating in-patient hospitalization;
    - ii. Estimated property damage of \$50,000 or more, including loss to the operator and others, or both, but excluding cost of gas lost; or
    - iii. Unintentional estimated gas loss of three million cubic feet or more.
  - b. An event that results in an emergency shutdown of an LNG facility. Activation of an emergency shutdown system for reasons other than an actual emergency does not constitute an incident.
3. Any service interruption, planned or otherwise occurring, that results in:
  - a. Loss of service to 25 gas meters or customers, whichever is greater;
  - b. An evacuation that displaces 25 people or more.

G. Commission Notification Requirements:

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# Montana-Dakota Utilities Co.

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Original Sheet No. 182

### SERVICE INTERRUPTION REPORTING PLAN Rate 137

Page 3 of 4

1. The Commission will be notified within two (2) hours of the known commencement of a Reportable Incident using the Commission's Service Interruption Reporting Telephone number (SIRT). Within 24 hours, the Company will follow up with an email report or as otherwise directed by the Commission.
2. Reports to the Commission shall include, but not be limited to:
  - a. Location and geographic extent;
  - b. Damage assessment, explaining the risks and likely effects on the public, the utility's customers, other utilities and telecommunications services;
  - c. Date and time the service interruption began;
  - d. Number of customers or individuals affected;
  - e. Cause, if known;
  - f. Estimated time of service restoration and basis for estimate;
  - g. Any deaths or injuries;
  - h. Efforts being undertaken to restore service;
  - i. Efforts being undertaken to assist affected individuals;
  - j. Other governmental agencies notified;
  - k. Contact information for reporting individual(s);
  - l. If the event is ongoing, the time interval until the Commission will be updated; and
  - m. Any other information that may be necessary to assess threats or damage.

#### H. Commission Reporting Requirements:

1. Quarterly reports of all Service Interruptions, other than meter testing or change outs will be filed with the Commission within 30 days after the end of each calendar quarter in conformance with Section 28 of the Wyoming Public Service Commission's Rules.

**Date Filed:** ~~February 3, 2020~~ October 31, 2024

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Director – Regulatory Affairs

**Docket No.:** 30013-~~351 GR~~ 19415-GR-24



# Montana-Dakota Utilities Co.

~~A Subsidiary of MDU Resources Group, Inc.~~

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. ~~23~~  
Original Sheet No. 183

### SERVICE INTERRUPTION REPORTING PLAN Rate 137

Page 4 of 4

2. These records shall be retained by the Company for a minimum of six years.
3. The Company shall annually review its Service Interruption Reporting Plan with any proposed modifications and definitions of major or minor service interruptions specific to the utility's system, filed with the Commission by May 1. If, after the Company's review, there is no change to the Service Interruption Reporting Plan, the Company shall so notify the Commission by letter by May 1.

**Date Filed:** ~~February 3, 2020~~ October 31, 2024

**Effective Date:** Service rendered on and after ~~March 1, 2020~~

**Issued By:** ~~Tamie A. Aberle~~ Travis R. Jacobson  
Director – Regulatory Affairs

**Docket No.:** 30013-~~351 GR~~ 19415-GR-24

MONTANA-DAKOTA UTILITIES CO.

Before the Public Service Commission of Wyoming

Docket No. 30013-415-GR-24

Direct Testimony

Of

Nicole A. Kivisto

1   **Q.   Please state your name and business address.**

2   A.           My name is Nicole A. Kivisto, and my business address is 1200  
3           West Century Avenue, Bismarck, North Dakota 58506.

4   **Q.   By whom are you employed and in what capacity?**

5   A.           I am the President and Chief Executive Officer (CEO) of MDU  
6           Resources Group, Inc. (MDU Resources). I also continue to serve as  
7           President and CEO of Montana-Dakota Utilities Co. (Montana-Dakota or  
8           Company), Cascade Natural Gas Corporation, and Intermountain Gas  
9           Company which are all subsidiaries of MDU Resources. These  
10          subsidiaries, combined with Great Plains Natural Gas Co. (Great Plains),  
11          a division of Montana-Dakota, are collectively referred to as the MDU  
12          Utilities Group.

13   **Q.   Please describe your duties and responsibilities with Montana-**  
14   **Dakota.**

15   A.           I have executive responsibility for the development, coordination,  
16          and implementation of strategies and policies relative to operations of the

1           above-mentioned companies that, in combination, serve 1.2 million  
2           customers in eight states.

3   **Q.   Please outline your educational and professional background.**

4   A.           I hold a Bachelor's Degree in Accounting from Minnesota State  
5           University Moorhead. I began working for MDU Resources/Montana-  
6           Dakota in 1995 and have been in my current capacity since January 2024.  
7           I was the President and CEO of Montana-Dakota, Cascade Natural Gas  
8           Corporation, Intermountain Gas Company, and Great Plains from January  
9           2015 until also assuming my present position in January 2024.

10               Prior to that I was the Vice President-Operations of Montana-  
11           Dakota and Great Plains for one year. Before that I was the Vice  
12           President, Controller, and Chief Accounting Officer for MDU Resources for  
13           nearly four years and held other finance related positions prior to that.

14   **Q.   Have you testified in other proceedings before regulatory bodies?**

15   A.           Yes. I have previously presented testimony before this  
16           Commission, the Public Service Commissions of North Dakota and  
17           Montana, the Public Utilities Commissions of Idaho, South Dakota, and  
18           Minnesota, the Public Utility Commission of Oregon and the Washington  
19           Utilities and Transportation Commission.

20   **Q.   What is the purpose of your testimony?**

21   A.           The purpose of my testimony is to provide an overview of Montana-  
22           Dakota's gas operations in the state of Wyoming. I will also provide an  
23           overview of the Company's request for a gas rate increase and discuss

1 the policies and reasons underlying the major aspects of the request.

2 Finally, I will introduce the other Company witnesses who will present

3 testimony and exhibits in further support of the Company's request.

4 **Q. Please provide a summary of Montana-Dakota's gas operations in**  
5 **Wyoming.**

6 A. Montana-Dakota provides natural gas service to approximately  
7 20,300 customers in 9 communities in Wyoming, operating approximately  
8 735 miles of distribution mains and approximately 467 miles of service  
9 lines. The customer base is 88 percent residential and 12 percent  
10 commercial and industrial. As of December 31, 2023, the Company had  
11 35 full and part-time employees who live and work throughout our  
12 Wyoming electric and gas service area.

13 Montana-Dakota's Wyoming district office is located in Sheridan,  
14 Wyoming. Additionally, there are gas related service technicians and  
15 construction employees headquartered in Lovell and Powell. A gas  
16 service technician is also located in Buffalo. In addition to Sheridan, these  
17 three Wyoming communities are deemed strategic to the safe and reliable  
18 operation of the Company's natural gas distribution system.

19 Montana-Dakota's customers have toll-free access to the Customer  
20 Experience Team and the Credit Center to place routine utility service  
21 requests and inquiries from 7:30 a.m. to 6:30 p.m. local time, Monday  
22 through Friday and emergency calls on a 24-hour basis. A scheduling  
23 center, part of the Customer Experience Team, transmits electronic service

1 orders to the mobile terminals placed in our fleet of service and  
2 construction vehicles. This network allows the Company to respond  
3 quickly to customer requests and emergency situations.

4 **Q. Please provide more information regarding the customers the**  
5 **Company serves.**

6 A. The residential, firm general service, and small interruptible  
7 customers use natural gas primarily for space and water heating. As  
8 such, Montana-Dakota's system has a low load factor with peak gas  
9 requirements occurring during the winter. Summer loads are small by  
10 comparison. The total annual natural gas used by our Wyoming customers  
11 is 6,353,775 Dk as identified for the test period in this proceeding.

12 **Q. Please describe the basic elements that make up the total costs of**  
13 **providing natural gas service.**

14 A. For a natural gas distribution utility, the basic elements which make  
15 up the cost of providing natural gas service are the cost of gas delivered at  
16 the town border stations in its service territory and the cost of distributing  
17 the gas from the town border station to the end use customer. It is the  
18 second of these two elements, the distribution costs, which are the subject  
19 of this application for a general rate increase.

20 The natural gas the Company purchases from suppliers is a  
21 commodity like wheat or corn, the price of which is not regulated. The  
22 cost of delivering the gas to the Company's distribution system at the town  
23 border station is regulated by the FERC. These gas costs are passed on

1 to customers on a dollar-for-dollar basis as specified in the Commission  
2 approved Purchased Gas Cost Adjustment tariff. The gas portion of the  
3 cost of providing natural gas service currently comprises about 57 percent  
4 of a typical residential bill for gas service.

5 The distribution cost portion of the Company's cost of service is the  
6 subject of this proceeding. This element includes the costs of new  
7 distribution investments, replacement of aging infrastructure, operation  
8 and maintenance expenses, depreciation, taxes, and the opportunity to  
9 earn a return on the Company's investments in facilities that provide  
10 natural gas service. Distribution costs are currently 43 percent of a typical  
11 residential bill.

12 **Q. Ms. Kivisto, did you authorize the filing of the rate application in this**  
13 **proceeding?**

14 A. Yes, I did.

15 **Q. Why has Montana-Dakota filed this application for a natural gas rate**  
16 **increase?**

17 A. Montana-Dakota is requesting an increase in its gas rates because  
18 our current rates do not reflect the cost of providing natural gas service to  
19 Montana-Dakota's Wyoming customers. For the twelve months ending  
20 December 31, 2023, the Company's Rate of Return was 2.668 percent.  
21 This is below the last authorized Rate of Return of 7.081 percent in Docket  
22 No. 30013-351-GR-19.

1   **Q.    When was the Company's last general rate case?**

2    A.           The Company's last rate case was Docket No. 30013-351-GR-19,  
3           which resulted in an increase of \$831,349 or a 5.50 percent overall  
4           increase. Final rates in the case became effective on and after March 1,  
5           2020.

6   **Q.    What is the amount of the increase requested?**

7    A.           As will be fully explained by other Company witnesses, the  
8           Company is requesting \$2,587,652 which represents a 14.3 percent  
9           increase based on a 2023 test year adjusted for known and measurable  
10          changes through 2024. This increase represents an average yearly  
11          increase of 2.9 percent per year.

12   **Q.    How would this increase affect the Company's residential**  
13          **customers?**

14   A.           The Company's residential class of customers would see an  
15          increase of 18.7 percent, or an increase of approximately 3.7 percent per  
16          year. As a result, an individual residential customer using 7.4 Dk per  
17          month will see an increase of approximately \$9.81 per month.

18   **Q.    Can you briefly explain the additional revenue requirement?**

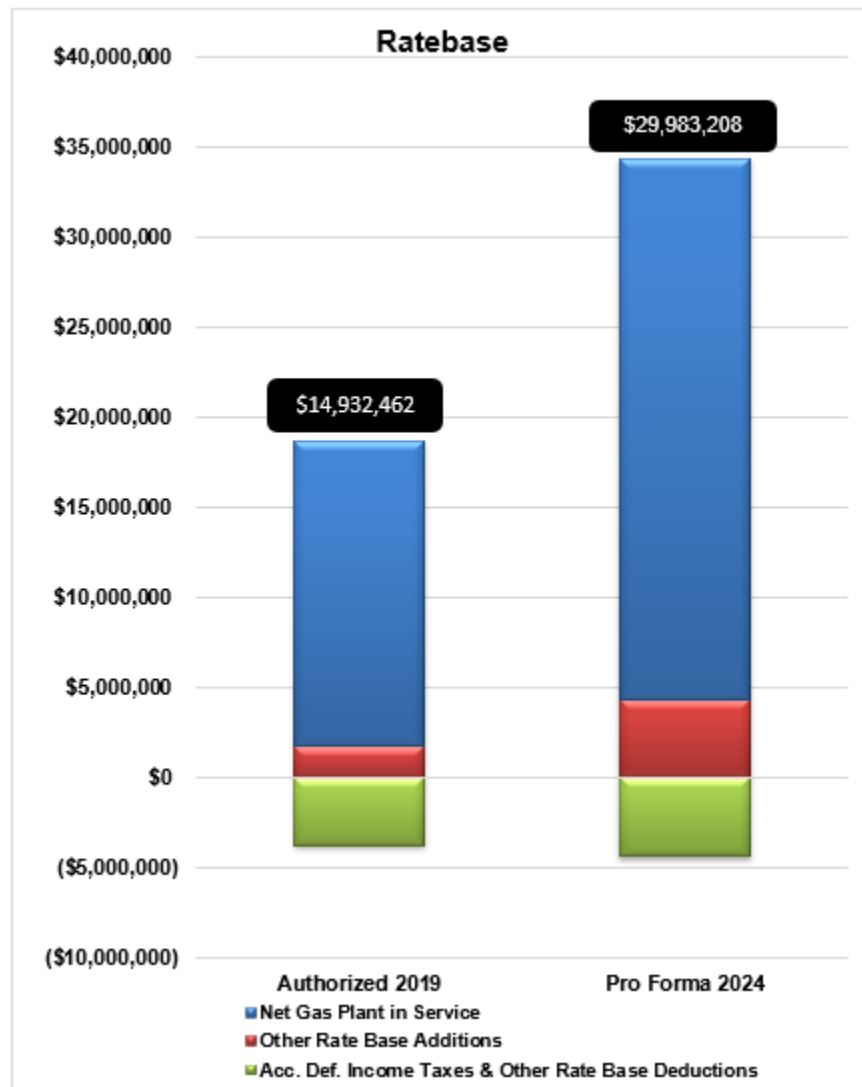
19   A.           As shown in the table below, the \$2.6 million increase in revenue is  
20          driven primarily by:

	Amount (in millions)
O&M Increase	\$1.1
Rate Base	0.6
SSIP	0.4
Depreciation	0.4
Change in ROE	0.3
Other .	0.4
Change in Margin	(0.6)
	<u>\$2.6</u>

Montana-Dakota's cost of doing business in Wyoming is increasing despite the Company's effort to control costs and increase efficiency. The Company is experiencing a \$1.1 million increase in O&M expenses due to increased labor, benefits, software maintenance costs, and vehicles and work equipment. Rate base investment since the last case, including the significant investments in the System Safety Integrity Program (SSIP) referenced in the testimony of Mr. Jesse Volk, represents \$1.0 million of the increase. Increases in depreciation expense, primarily driven by the investment in rate base (and somewhat offset by the implementation of the updated depreciation studies supported in the testimony of Mr. Larry E. Kennedy), results in a revenue requirement increase of approximately \$0.4 million. Finally, the proposed change in return on equity and other various items increase the revenue requirement by \$0.3 million each. These increases are partially offset by an increase in margin that has reduced the revenue requirement by \$0.6 million.

1    **Q.     How has the Company's investments driven the need for an increase**  
2    **at this time?**

3    A.            As depicted in the graph below, the Company's net adjusted rate  
4            base has grown approximately \$15 million or 101 percent when compared  
5            to the Authorized 2019 rate base.



6  
7            As shown in the table below, the Company's total O&M costs have  
8            increased over those in the Company's last gas rate case. After adjusting  
9            the 2019 Authorized O&M to exclude the cost of gas, the Company's Pro

1           Forma O&M expenses are projected to increase approximately 33  
2           percent. This represents a 5.90 percent compounded increase per year  
3           since the last filing.

	Authorized 2019	Pro Forma 2024	Variance	Percent Variance
Cost of Gas	\$9,564,389	\$11,170,244	\$1,605,855	16.79%
Labor	1,854,004	2,401,883	547,879	29.55%
Benefits	393,741	492,920	99,179	25.19%
Vehicles and Work Equipment	160,060	248,358	88,298	55.17%
Software Maintenance	118,110	213,267	95,157	80.57%
Insurance	105,238	168,092	62,854	59.73%
Rent	55,714	121,497	65,783	118.07%
Regulatory Commission	53,745	95,965	42,220	78.56%
Other O&M	651,468	767,628	116,160	17.83%
Total O&M Expense	\$12,956,469	\$15,679,854	\$2,723,385	21.02%
Total Excluding Cost of Gas	\$3,392,080	\$4,509,610	\$1,117,530	32.95%

4

5   **Q.     How have the Company's labor expenses changed since the last**  
6   **case?**

7   A.           Montana-Dakota's projected labor expenses for the year ending  
8           December 2024 have increased approximately 30 percent since the 2019  
9           rate case which represents a 5.31 percent compounded year over year  
10          increase.

11               Additionally, Montana-Dakota, like many other organizations in the  
12           country, is experiencing additional turnover pressures within its labor force,  
13           particularly with respect to an increasing percentage of the workforce  
14           being of traditional retirement age. These additional pressures, when  
15           combined with the current competitive job market, have resulted in  
16           increased labor market costs, particularly for those in entry level, trade,

1 and positions requiring specialized skills.

2 On March 18, 2024, Montana-Dakota finalized its labor contract  
3 with the System Council U-13 of the IBEW. This contract, which runs  
4 through April 2026, defined an approximate 6.00 percent labor expense  
5 increase per year. This increase was necessary to ensure the Company is  
6 able to successfully compete in the labor market and retain skilled  
7 employees capable of maintaining safe and reliable service for customers.  
8 The effect of the contract is discussed in the testimony of Ms. Tara R.  
9 Vesey.

10 **Q. Have there been other increases in expenses since the last case?**

11 A. Montana-Dakota has seen other increases to O&M expenses since  
12 the last case, such as benefits, software maintenance, and vehicles and  
13 work equipment.

14 The operation and maintenance expenses associated with benefits have  
15 increased approximately \$99,000 or over 25 percent since the 2019 rate  
16 case which represents a 4.60 percent compounded year over year  
17 increase. Vehicles and work equipment increased approximately \$88,000  
18 primarily due to increased depreciation rates for Power Operated  
19 Equipment within the gas study supported by Mr. Larry E. Kennedy.  
20 Finally, software maintenance expense increased approximately \$95,000  
21 from the 2019 rate case due to increases in license renewals and  
22 mandated security needs.

1   **Q.    Have you performed a depreciation study for inclusion in this**  
2       **request?**

3    A.       Yes. Depreciation studies for Montana-Dakota's gas and common  
4       plant in service were performed by Mr. Kennedy of Concentric Advisors,  
5       ULC. Mr. Kennedy has provided testimony on behalf of the Company  
6       which is based on plant in service as of December 31, 2021. The impact  
7       of the depreciation study results in a Wyoming gas jurisdiction decrease of  
8       approximately \$461,000 in the revenue requirement, as compared to the  
9       previously approved rates. However, despite the lower overall  
10      depreciation rates from the currently approved rates, the Company's  
11      overall depreciation expense is \$386,000 higher than the previously  
12      approved rates due to the approximately 101 percent increase in gross  
13      plant investment since the last case.

14   **Q.    What incremental investments are included in this case as pro forma**  
15       **December 2024?**

16   A.       The Company has included incremental investments for 2024 of  
17      approximately \$7.3 million and are as follows:

18       •   Distribution plant investment of approximately \$6.8 million,  
19           including the Sheridan Town Border Station and distribution mains  
20           and service line replacements and upgrades required to maintain  
21           safe and reliable service, as discussed in greater detail by Mr.  
22           Shawn Nieuwsma and Mr. Jesse Volk;

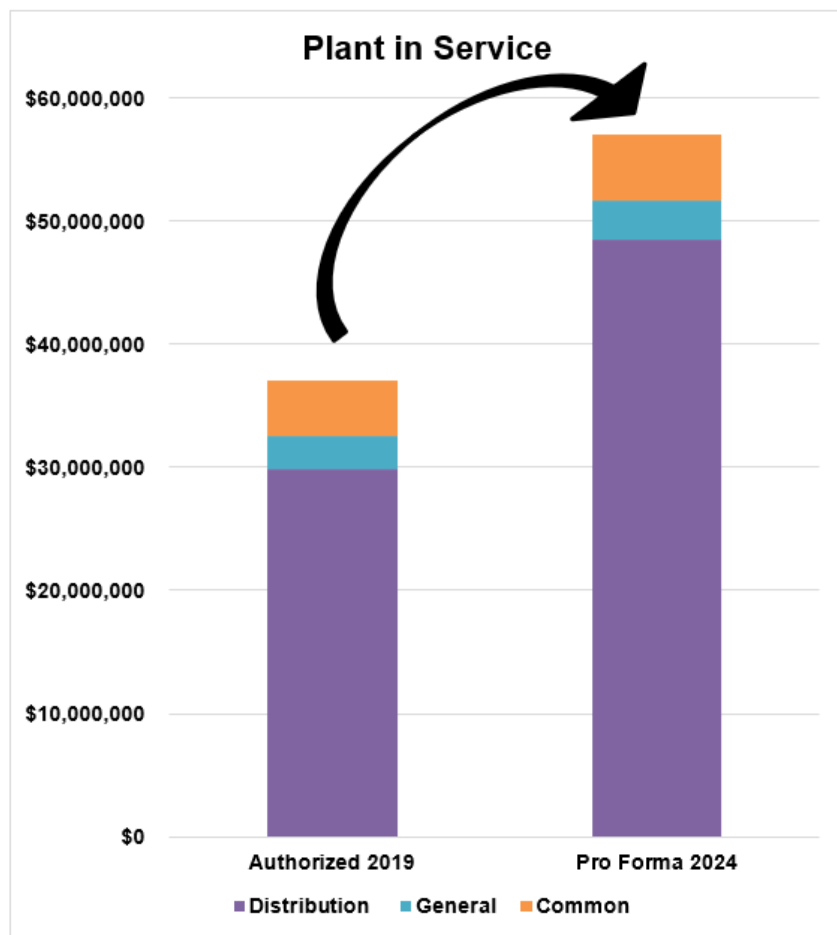
- 1                   • General plant additions of approximately \$236,000 primarily
- 2                   associated with work equipment, and leak survey equipment; and
- 3                   • Common plant additions of approximately \$119,000, primarily
- 4                   associated with structures and improvements, Toughbook
- 5                   Replacements, and Bill Printing Equipment.

6                   The table below shows the investment in plant assigned and allocated to

7                   Wyoming gas operations from Authorized 2019 to Pro Forma 2024. These

8                   investments include significant improvements in SSIP, Mains, Services,

9                   and Meters.



1   **Q.    Would you please describe the current investment in distribution**  
2       **facilities to improve system safety and reliability?**

3    A.       Montana Dakota has a SSIP that accounts for a substantial portion  
4           of the Company's natural gas distribution investment. These  
5           replacements address the high-risk systems based on results of Montana-  
6           Dakota's integrity management program that is covered in more detail by  
7           Mr. Volk.

8           Furthermore, due to reliability concerns, Montana-Dakota has  
9           identified the need to upgrade the Town Border Station (TBS) in Sheridan.  
10          The upgrade is necessary and further explained by Mr. Nieuwsma.

11   **Q.    How will the requested increase affect the various classes of**  
12       **customers?**

13   A.       The allocation of revenue is based on the Class Cost of Service Study,  
14           which is supported by Mr. Ronald J. Amen. The proposed percentage  
15           change in rates by customer class are as follows:

<u>Rate Class</u>	<u>Overall Class Impact</u>
Residential Service	18.7%
Firm General Service	7.6%
Small Interruptible Service	0.0%
Large Interruptible Service	0.10%
Total	14.3%

16

1   **Q.     What return is Montana-Dakota requesting in this case?**

2   A.       Montana-Dakota is requesting an overall return of 7.823 percent,  
3       inclusive of a return on equity (ROE) of 10.8 percent. Ms. Ann E. Bulkley's  
4       analysis indicates that a 10.8 percent ROE is fully justified and supported  
5       based on the results of her studies.

6   **Q.     Please identify the witnesses who will testify on behalf of Montana-**  
7       **Dakota in this proceeding.**

8   A.       Following is a list of witnesses who will provide testimony  
9       and/or exhibits in support of the Company's application:

- 10       • Ms. Tammy J. Nygard, Controller for MDU Utilities Group, will testify  
11       regarding the overall cost of capital, capital structure, and overall debt  
12       costs.
- 13       • Ms. Ann E. Bulkley, Principal for The Brattle Group, will testify  
14       regarding the appropriate cost of common equity and the  
15       reasonableness of the capital structure for Montana-Dakota's Wyoming  
16       gas operations.
- 17       • Mr. Shawn Nieuwsma, Director of Gas Supply for Montana-Dakota, will  
18       testify regarding the Company's Sheridan Town Border Station capital  
19       expenditures.
- 20       • Mr. Jesse Volk, System Integrity Manager for Montana-Dakota will  
21       testify regarding the Company's SSIP and the Company's SSIP  
22       projects capital expenditures.

- 1 • Mr. Larry E. Kennedy, Senior Vice President for Concentric Advisors,  
2 ULC., will testify regarding the depreciation studies for Montana-  
3 Dakota's gas and common operations of the plant in service as of  
4 December 31, 2021, that supports the proposed depreciation rates in  
5 this filing.
- 6 • Ms. Tara R. Vesey, Regulatory Affairs Manager for Montana-Dakota,  
7 will testify regarding the total revenue requirement and pro forma  
8 volumes in this case.
- 9 • Mr. Ron J. Amen, Managing Partner for Atrium Economics, LLC, will  
10 testify regarding Montana-Dakota's embedded class cost of service  
11 study and proposed rate design.
- 12 • Ms. Stephanie Bosch, Regulatory Affairs Manager for Montana-Dakota,  
13 will testify regarding proposed tariff changes.

14 **Q. Ms. Kivisto, are the rates requested in this proceeding just and**  
15 **reasonable?**

16 A. In my opinion, the proposed rates are just and reasonable as they  
17 are reflective of the total costs being incurred by Montana-Dakota to  
18 provide safe and reliable natural gas service to its customers. The  
19 proposed rates will provide Montana-Dakota an opportunity to earn a fair  
20 and reasonable return on its Wyoming gas operations.

21 **Q. Does this complete your direct testimony?**

22 A. Yes, it does.

MONTANA-DAKOTA UTILITIES CO.  
Before the Public Service Commission of  
Wyoming Docket No. 30013-415-GR-24  
Direct Testimony  
Of  
Tammy J. Nygard

1    **Q.    Please state your name and business address.**

2    A.            My name is Tammy J. Nygard and my business address is 400  
3            North Fourth Street, Bismarck, North Dakota 58501.

4    **Q.    By whom are you employed and in what capacity?**

5    A.            I am the Controller for Montana-Dakota Utilities Co. (Montana-  
6            Dakota), Cascade Natural Gas Corporation (Cascade) and Intermountain  
7            Gas Company (Intermountain), subsidiaries of MDU Resources Group,  
8            Inc. (MDU Resources) as well as Great Plains Natural Gas Co. (Great  
9            Plains), a division of Montana-Dakota, collectively the MDU Utilities  
10           Group.

11   **Q.    Please describe your duties and responsibilities with Montana-**  
12   **Dakota.**

13   A.            I am responsible for providing leadership and management of the  
14            accounting and the financial forecasting/planning functions, including the  
15            analysis and reporting of all financial transactions for the MDU Utilities  
16            Group.

1   **Q.     Please outline your educational and professional background.**

2   A.           I graduated from the University of Mary with a Bachelor of Science  
3               degree in Accounting and Computer Information Systems. I have over 22  
4               years of experience in the utility industry. During my tenure with the MDU  
5               Utilities Group, I have held positions of increasing responsibility, including  
6               Financial Analyst for Montana-Dakota, Director of Accounting and Finance  
7               for Cascade, and now as MDU Utilities Group Controller.

8   **Q.     What is the purpose of your testimony in this proceeding?**

9   A.           I am responsible for presenting Statement E.

10  **Q.     Were these statements and the data contained therein prepared by**  
11  **you or under your supervision?**

12  A.           Yes, they were.

13  **Q.     Are they true to the best of your knowledge and belief?**

14  A.           Yes, they are.

15  **Q.     Please explain Statement E.**

16  A.           Statement E shows the utility capital structure of Montana-Dakota  
17               for the twelve months ended December 31, 2023, and the pro forma  
18               capital structure for 2024. Statement E includes the associated costs of  
19               debt and common equity. This capital structure and the associated costs  
20               serve as the basis for the overall rate of return requested by Montana-  
21               Dakota in this rate filing of 7.823 percent. The basis for the requested  
22               10.80 percent return on equity contained within the overall requested rate  
23               of return is supported by the testimony of Ms. Ann E. Bulkley.

1                   The components of the 2024 pro forma annual rate of return, which  
2                   are used by Ms. Tara R. Vesey to calculate the revenue requirement, are:

	<u>Ratio</u>	<u>Cost</u>	<u>Weighted Cost</u>
Long Term Debt	44.735%	4.728%	2.115%
Short Term Debt	5.088%	5.681%	0.289%
Common Equity	<u>50.177%</u>	10.800%	<u>5.419%</u>
Rate of Return	<u>100.000%</u>		<u>7.823%</u>

3

4   **Q.     How does the Company finance its gas utility operations and**  
5           **determine the amount of equity and debt to be included in its capital**  
6           **structure?**

7   A.           As a regulated public utility, the Company has a duty and obligation  
8           to provide safe and reliable service to its customers across its service  
9           territory while prudently balancing cost and risk. In order to fulfill its service  
10          obligations, the Company is making significant capital expenditures for  
11          new plant investment throughout its service territory, especially in mains  
12          and services, including System Safety and Integrity Projects (SSIP) and  
13          town border stations. These new investments also have associated  
14          operating and maintenance costs. Through its financial planning process,  
15          the Company determines the amounts of necessary financing required to  
16          support these activities. Montana-Dakota finances its operations with a  
17          target of 50 percent common equity capital structure at year end. Capital  
18          expenditure investments are financed through a mix of internally  
19          generated funds, the utilization of the Company's short-term credit line  
20          and the issuance of additional debt and common equity financing as

1 required to maintain targeted capital ratios and finance the combined utility  
2 operations.

3

4 **Q. What does Statement E, Schedule E-1 show?**

5 A. The debt costs reflected on Statement E, Schedule E-1, page 1 is a  
6 summary showing the Company's long-term debt and the associated cost  
7 of debt on December 31, 2023 and for pro forma 2024. The Company did  
8 not issue any new long-term debt in 2023. In July 2024, the Company had  
9 \$60 million of senior notes mature and has issued long-term debt of \$125  
10 million, partially to replace the \$60 million senior notes.

11 Page 2 shows the cost and the debt balance by issue on December  
12 31, 2023. Page 3 shows the pro forma cost and the debt balance by issue  
13 on December 31, 2024, including the additional \$125 million of long-term  
14 debt previously discussed.

15 **Q. Please describe Statement E, Schedule E-2.**

16 A. Schedule E-2 presents the twelve-month average short-term debt  
17 balance for 2023 and pro forma 2024 as well as the average cost of short-  
18 term debt. A twelve-month average of short-term debt is used in the cost  
19 of capital calculation to reflect the seasonality in the short-term debt  
20 balance. Short-term debt is historically at or near its peak in December  
21 and the twelve-month average calculation is more reflective of the  
22 borrowing level than a year-end balance.

1    **Q.     What does Statement E, Schedule E-3 show?**

2    A.            The schedule presents the common equity balance on December  
3            31, 2023 and the pro forma balance for December 31, 2024.

4    **Q.     Does this conclude your direct testimony?**

5    A.            Yes, it does.

MONTANA-DAKOTA UTILITIES CO.  
BEFORE THE WYOMING PUBLIC SERVICE COMMISSION  
DOCKET NO. 30013-415-GR-24  
PREPARED DIRECT TESTIMONY OF  
ANN E. BULKLEY

1   **Q1.   Please state your name and business address.**

2   A1.   My name is Ann E. Bulkley. My business address is One Beacon Street, Suite 2600,  
3       Boston, Massachusetts 02108. I am a Principal at The Brattle Group (“Brattle”), a  
4       consulting firm that advises clients on regulatory finance and ratemaking issues.

5   **Q2.   On whose behalf are you submitting this testimony?**

6   A2.   I am submitting this direct testimony before the Wyoming Public Service Commission  
7       (“Commission”) on behalf of Montana-Dakota Utilities Co, which is a wholly-owned  
8       subsidiary of MDU Resources Group, Inc. (“MDU”). My testimony addresses the  
9       regulated natural gas utility operations of Montana-Dakota Utilities Co. within Wyoming  
10      (“Montana-Dakota” or the “Company”).

11   **Q3.   Please describe your background and professional experience in the energy and**  
12       **utility industries.**

13   A3.   I hold a Bachelor’s degree in Economics and Finance from Simmons College and a  
14       Master’s degree in Economics from Boston University, and have more than 25 years of  
15       experience consulting to the energy industry. I have provided testimony regarding  
16       financial matters, including the cost of capital, before numerous regulatory agencies. I  
17       have advised energy and utility clients on a wide range of financial and economic issues,  
18       with primary concentrations in valuation and utility rate matters. Many of these

1 assignments have included the determination of the cost of capital for valuation and  
2 ratemaking purposes. A summary of my professional and educational background is  
3 presented in Exhibit No.\_\_(AEB-2), Schedule 1.

4 **I. PURPOSE AND OVERVIEW OF DIRECT TESTIMONY**

5 **Q4. What is the purpose of your direct testimony?**

6 A4. The purpose of my direct testimony is to present evidence and provide a recommendation  
7 regarding Montana-Dakota's return on equity ("ROE") for its natural gas utility operations  
8 to be used for ratemaking purposes. I also address the appropriateness of the Company's  
9 proposed capital structure. My analyses and recommendations are supported by the data  
10 presented in Exhibit No. \_\_(AEB-2), Schedules 2 through 13, which were prepared by  
11 me or under my direction.

12 **Q5. Please provide a brief overview of the analyses that support your ROE**  
13 **recommendation.**

14 A5. I have estimated the market-based cost of equity by applying traditional estimation  
15 methodologies to a proxy group of comparable utilities, including the constant growth form  
16 of the Discounted Cash Flow ("DCF") model, the Capital Asset Pricing Model ("CAPM"),  
17 the Empirical Capital Asset Pricing Model ("ECAPM"), and a Bond Yield Risk Premium  
18 ("BYRP" or "Risk Premium") analysis. My recommendation also takes into consideration  
19 the business and regulatory risk of the Company relative to the proxy group, and the  
20 Company's proposed capital structure as compared with the capital structures of the  
21 operating utilities of the proxy group companies. While I do not make specific adjustments

to my ROE recommendation for these factors, I do consider them in the aggregate when determining where my recommended ROE falls within the range of the analytical results.

**Q6. How is the remainder of your direct testimony organized?**

A6. The remainder of my direct testimony is organized as follows:

- Section II provides a summary of my analyses and conclusions.
- Section III reviews the regulatory guidelines pertinent to the development of the cost of capital.
- Section IV discusses current and projected capital market conditions and the effect of those conditions on the Company's cost of equity.
- Section V explains my selection of the proxy group.
- Section VI describes my cost of equity analyses and the basis for my recommended ROE in this proceeding.
- Section VII provides a discussion of specific regulatory, business, and financial risks that have a direct bearing on the ROE to be authorized for the Company in this case.
- Section VIII provides an assessment of the reasonableness of the Company's proposed capital structure.
- Section IX presents my conclusions and recommendations.

**II. SUMMARY OF ANALYSIS AND CONCLUSIONS**

**Q7. Please summarize the key factors that you consider your analyses and upon which you base your recommended ROE.**

A7. My analyses and recommendations consider the following:

- The United States ("U.S.") Supreme Court's *Hope* and *Bluefield* decisions established the standards for determining a fair and reasonable authorized ROE for public utilities, including consistency of the allowed return with the returns of other businesses having similar risk, adequacy of the return to provide access to capital

and support credit quality, and the requirement that the result lead to just and reasonable rates.<sup>1</sup>

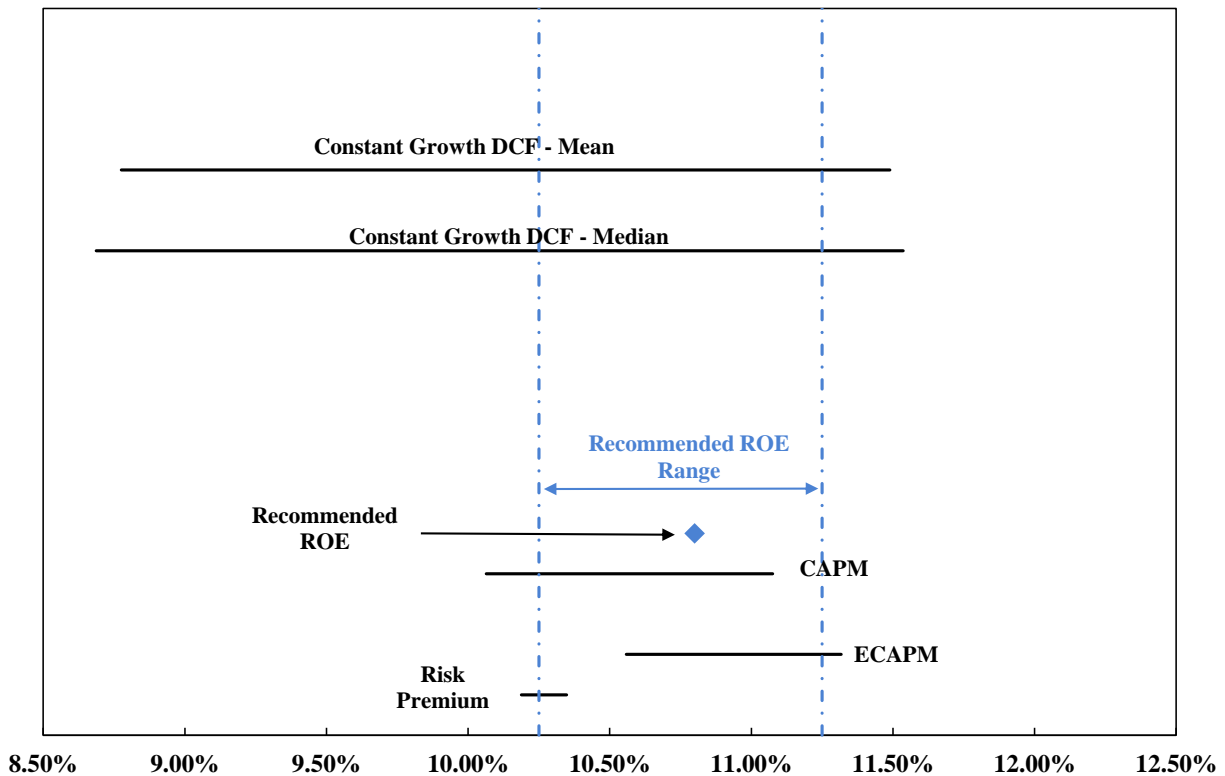
- The effect of current and prospective capital market conditions on the cost of equity estimation models and on investors' return requirements.
- The results of several analytical approaches that provide estimates of the Company's cost of equity. Because the Company's authorized ROE should be a forward-looking estimate over the period during which the rates will be in effect, these analyses rely on forward-looking inputs and assumptions (*e.g.*, projected analyst growth rates in the DCF model, forecasted risk-free rate and market risk premium in the CAPM analysis.)
- Although the companies in my proxy group are generally comparable to Montana-Dakota, each company is unique, and no two companies have the exact same business and financial risk profiles. Accordingly, I consider the Company's regulatory, business, and financial risks relative to a proxy group of comparable companies in determining where the Company's ROE should fall within the reasonable range of analytical results to appropriately account for any residual differences in risk.

**Q8. What are the results of the models that you have used to estimate the market-based cost of equity for Montana-Dakota?**

**A8.** Figure 1 summarizes the range of results produced by the cost of equity analyses.

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<sup>1</sup> Federal Power Commission v. Hope Natural Gas Co., 320 U.S. 591 (1944) ("Hope"); Bluefield Waterworks & Improvement Co., v. Public Service Commission of West Virginia, 262 U.S. 679 (1923) ("Bluefield").

**Figure 1: Summary of Cost of Equity Analytical Results**

As shown, the range of results across all methodologies is wide. While it is common to consider multiple models to estimate the cost of equity, it is particularly important when the range of results varies considerably across methodologies. As a result, my ROE recommendation considers the range of results of analyses, as well as the company-specific risk factors and current and prospective capital market conditions expected during the time when rates set in this case would be in effect.

**Q9. What is your recommended ROE for the Company in this proceeding?**

A9. Considering the analytical results of the market-based cost of equity models, current and prospective capital market conditions and the Company's regulatory, business, and financial risk relative to the proxy group, I conclude that an ROE in the range of 10.25

percent to 11.25 percent is reasonable, and within that range, I recommend an ROE of 10.80 percent.

**Q10. Is the Company's requested capital structure reasonable?**

A10. The Company's proposed equity ratio of 50.177% percent is well within the range of the actual capital structures of the utility operating subsidiaries of the proxy group companies and is below the average of the proxy group. Further, the Company's proposed equity ratio is reasonable considering that credit rating agencies have identified in their outlook for the utility sector significant risks such as elevated interest rates and inflation, record levels of capital spending, and the need to fund capital spending in a credit supportive manner.

**III. REGULATORY GUIDELINES**

**Q11. Please describe the principles that guide the establishment of the cost of capital for a regulated utility.**

A11. The U.S. Supreme Court's precedent-setting *Hope* and *Bluefield* cases established the standards for determining the fairness or reasonableness of a utility's allowed ROE. Among the standards established by the Court in those cases are: (1) consistency with other businesses having similar or comparable risks; (2) adequacy of the return to support credit quality and access to capital; and (3) the principle that the result reached, as opposed to the methodology employed, is the controlling factor in arriving at just and reasonable rates.<sup>2</sup>

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<sup>2</sup> *Bluefield*, 262 U.S. at 692-93; *Hope*, 320 U.S. at 603.

1 **Q12. Has the Commission provided similar guidance in establishing the appropriate return**  
 2 **on common equity?**

3 A12. Yes. In Docket No. 20000-ER-03-198, PacifiCorp's 2003 rate case, the Commission stated  
 4 that:

5 Consistent with the discretion given to the Commission in examining cases  
 6 and reaching a just result (discussed generally, *infra*), there are no precise  
 7 bases in Wyoming law to guide the Commission in determining a utility's  
 8 rate of return on equity. Therefore, the Commission must apply its informed  
 9 judgment to all of the evidence in the case. In this traditional rate-base rate-  
 10 of-return case, the Commission must determine the cost of capital, and we  
 11 are guided by the earnings and capital attraction standards of *Bluefield*  
 12 *Water Works & Improvement Co. v. Public Service Commission of West*  
 13 *Virginia*, 262 U. S. 679 (1923); and *Federal Power Comm'n v. Hope*  
 14 *Natural Gas Co.*, 320 U. S. 391 (1944); accepted in Wyoming in *In re*  
 15 *Northern Utilities*, 70 Wyo. 275, 249 P.2d 769 (Wyo. 1952). A public utility  
 16 remains entitled to rates which will permit it a reasonable opportunity to  
 17 earn a return on its investment properly reflecting the risk of the business  
 18 and which will reasonably preserve the financial soundness of the company  
 19 and allow it to raise the capital needed to provide service in the public  
 20 interest. Having said that, we also acknowledge that the measurement of the  
 21 required level of return is not a matter of simple mathematics but is a matter  
 22 requiring judgment and the employment of discretion. The United States  
 23 Supreme Court, in *Hope, supra*, noted that a "just and reasonable end result"  
 24 is the desired outcome and that it is the end reached, rather than the method  
 25 employed in achieving it, that should control.<sup>3</sup>

26 This guidance is in accordance with the *Hope* and *Bluefield* decisions and the principles  
 27 that I have employed to estimate the cost of equity and recommend and ROE for the  
 28 Company, including the principle that an allowed rate of return must be sufficient to enable  
 29 regulated companies like Montana-Dakota to attract capital on reasonable terms.

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<sup>3</sup> In the Application of PacifiCorp for a Retail Electric Utility Rate Increase of \$41.8 Million Per Year, Docket No. 20000-ER-03-198 (Record No. 8310), Order at 13 (Feb. 28, 2004).

**Q13. Why is it important for a utility to have a reasonable opportunity to earn a return that is adequate to attract capital at reasonable terms?**

A13. An ROE that is adequate to attract capital at reasonable terms enables the Company to continue to provide safe, reliable gas service while maintaining its financial integrity. The authorized return should be commensurate with returns expected elsewhere in the market for investments of equivalent risk. If it is not, debt and equity investors will seek alternative investment opportunities for which the expected return reflects the perceived risks, thereby inhibiting the Company's ability to attract capital at reasonable cost, which negatively affects customers.

**Q14. Is a utility's ability to attract capital also affected by the ROEs that are authorized for other utilities?**

A14. Yes. Utilities compete directly for capital with other investments of similar risk, which include other electric, natural gas, and water utilities nationally. Therefore, the ROE authorized for a utility sends an important signal to investors regarding whether there is regulatory support for financial integrity, dividends, growth, and fair compensation for business and financial risk within that jurisdiction generally, and for that utility particularly. The cost of capital represents an opportunity cost to investors. If higher returns are available elsewhere for other investments of comparable risk over the same time-period, investors have an incentive to direct their capital to those alternative investments. Thus, an authorized ROE significantly below authorized ROEs for other utilities can inhibit the utility's ability to attract capital for investment.

While Montana-Dakota is committed to investing the required capital to provide safe and reliable service, because Montana-Dakota is a wholly-owned subsidiary of MDU, the

1 Company competes with the other MDU subsidiaries for discretionary investment capital.  
2 In determining how to allocate its finite discretionary capital resources, it would be  
3 reasonable for MDU to consider the authorized ROE of each of its subsidiaries.

4 **Q15. What is the standard for setting the ROE in any jurisdiction?**

5 A15. The stand-alone ratemaking principle is a foundation of jurisdictional ratemaking. This  
6 principle requires that the rates that are charged in any operating jurisdiction be for the  
7 costs incurred in that jurisdiction. The stand-alone ratemaking principle ensures that  
8 customers in each jurisdiction only pay for the costs of the service provided in that  
9 jurisdiction, which is not influenced by the business operations in other operating  
10 companies. Consistent with this principle, the cost of equity analysis is performed for an  
11 individual operating company as a stand-alone entity. As such, I have evaluated the  
12 investor-required return for Montana-Dakota's gas operations in Wyoming.

13 **Q16. Does the fact that the Company is a subsidiary of MDU, a publicly-traded company,**  
14 **affect your analysis?**

15 A16. No. In this proceeding, consistent with the stand-alone ratemaking principle, it is  
16 appropriate to establish the cost of equity for the Company, not its publicly-traded entity,  
17 MDU. More importantly, however, it is appropriate to establish a cost of equity and capital  
18 structure that provide the Company the ability to attract capital on reasonable terms on a  
19 stand-alone basis and within MDU.

**Q17. Are the regulatory framework, the authorized ROE, and equity ratio important to the financial community?**

A17. Yes. The regulatory framework is one of the most important factors in investors' assessments of risk. Specifically, the authorized ROE and equity ratio for regulated utilities is very important for determining the degree of regulatory support for reinforcing a utility's creditworthiness and financial stability in the jurisdiction. To the extent authorized returns in a jurisdiction are lower than the returns that have been authorized more broadly, such actions are considered by both debt and equity investors in the overall risk assessment of the regulatory jurisdiction in which the company operates.

**Q18. What are your conclusions regarding regulatory guidelines?**

A18. The ratemaking process is premised on the principle that, in order for investors and companies to commit the capital needed to provide safe and reliable utility services, a utility must have a reasonable opportunity to recover the return of, and the market-required return on, its invested capital. Accordingly, the Commission's order in this proceeding should establish rates that provide the Company with a reasonable opportunity to earn an ROE that is adequate to attract capital at reasonable terms and sufficient to ensure its financial integrity. It is important for the ROE authorized in this proceeding to take into consideration current and projected capital market conditions, as well as investors' expectations and requirements for both risks and returns. Because utility operations are capital-intensive, regulatory decisions should enable the utility to attract capital at reasonable terms under a variety of economic and financial market conditions. Providing the opportunity to earn a market-based cost of capital supports the financial integrity of the Company, which is in the interest of both customers and shareholders.

**IV. CAPITAL MARKET CONDITIONS**

**Q19. Why is it important to analyze capital market conditions?**

A19. The models used to estimate the cost of equity rely on market data and thus the results of those models can be affected by prevailing market conditions at the time the analysis is performed. While the ROE established in a rate proceeding is intended to be forward-looking, the analyst uses current and projected market data, including stock prices, dividends, growth rates, and interest rates, in the cost of equity estimation models to estimate the investor-required return for the subject company.

Analysts and regulatory commissions recognize that current market conditions affect the results of the cost of equity estimation models. As a result, it is important to consider the effect of the market conditions on these models when determining an appropriate range for the ROE, and the ROE to be used for ratemaking purposes for a future period. If investors do not expect current market conditions to be sustained in the future, it is possible that the cost of equity estimation models will not provide an accurate estimate of investors' required return during that rate period. Therefore, it is important to consider projected market data to estimate the return for that forward-looking period.

**Q20. Do changes in capital market conditions since the Company's last rate proceeding indicate an increase in the cost of equity?**

A20. Yes. Changes in core inflation and long-term bond yields since the Company's last rate proceeding demonstrates an increase in the cost of equity since that time. As shown in Figure 2, short-term and long-term interest rates as well as core inflation have increased substantially since the Commission adopted the settlement which include an authorized ROE of 9.35 percent in the Company's last rate proceeding in 2020. For example, long-

term interest rates have increased by more than 230 basis points. While inflation has declined from its peak in 2022, it remains above the level at the time of the last rate proceeding and the Federal Reserve’s target of 2 percent.

**Figure 2: Change in Market Conditions Since Company’s Last Rate Case<sup>4</sup>**

Docket	Date	30-Day Avg		Core Inflation Rate	Auth'd ROE
		Federal Funds Rate	30 Year Treasury Bond Yield		
Decision - Docket No. 30013-351-GR-19	2020-03-17	0.25%	1.76%	2.10%	9.35%
Current	2024-09-30	4.83%	4.07%	3.26%	
Change since Docket No. 30013-351-GR-19 (Decision)		4.58%	2.31%	1.16%	

**Q21. What has the level of inflation been over the past few years?**

A21. As shown in Figure 3, core inflation increased steadily beginning in early 2021, rising from 1.40 percent in January 2021 to a high of 6.64 percent in September 2022, which was the largest 12-month increase since 1982.<sup>5</sup> Since that time, while core inflation has declined in response to the Federal Reserve’s monetary policy, it continues to remain significantly above the Federal Reserve’s target level of 2.0 percent.

In addition, I also considered the ratio of unemployed persons per job opening, which was 0.9 in August 2024 (the most recent data available at the time of writing) and has been consistently below 1.0 since April 2021, despite the Federal Reserve’s accelerated policy

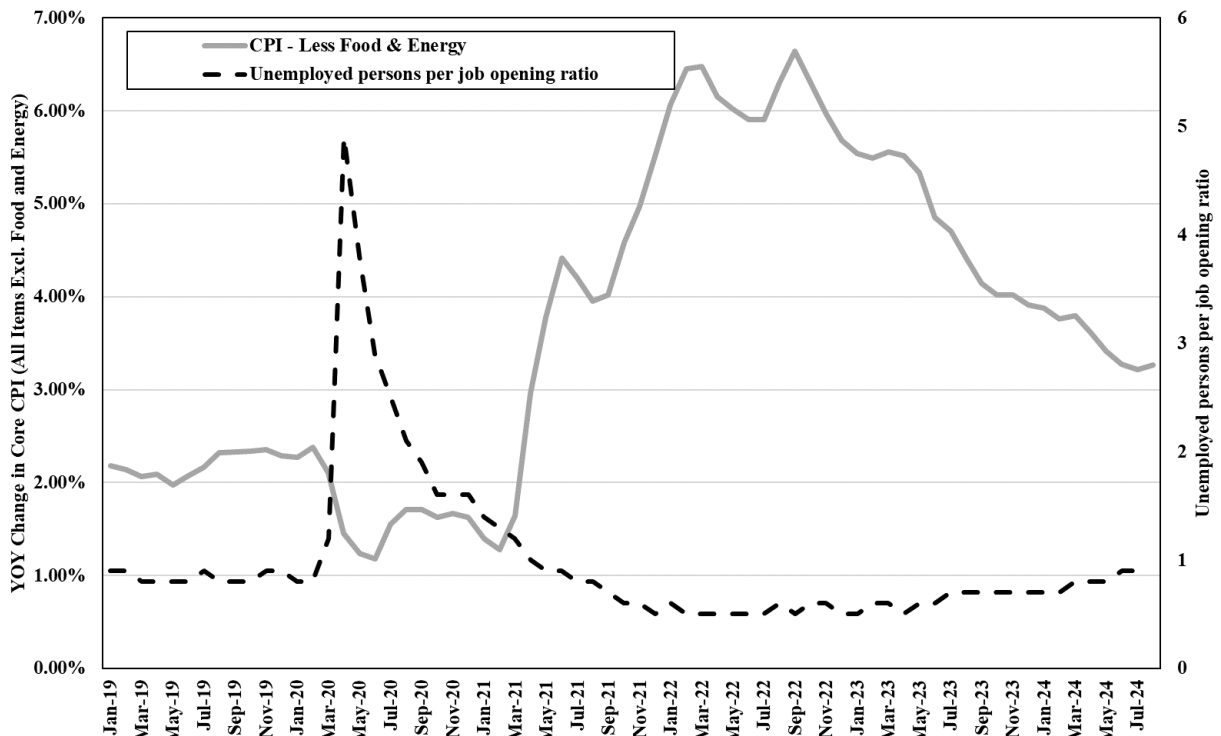
<sup>4</sup> St. Louis Federal Reserve Bank; Bureau of Labor Statistics.

<sup>5</sup> *Bloomberg*, Pickert, Reade, “Core US Inflation Rises to 40-Year High, Securing Big Fed Hike”, October 13, 2022.

Figure 3 presents the year-over-year (“YOY”) change in core inflation, as measured by the Consumer Price Index (“CPI”) excluding food and energy prices as published by the Bureau of Labor Statistics. I considered core inflation because it is the preferred inflation indicator of the Federal Reserve for determining the direction of monetary policy. Core inflation is preferred by the Federal Reserve because it removes the effect of food and energy prices, which can be highly volatile.

normalization. This indicates sustained strength in the labor market. Given the Federal Reserve's dual mandate of maximum employment and price stability, the strength in the labor market allowed the federal reserve to focus on the priority of reducing inflation and pursue the necessary restrictive monetary policy needed to reduce inflation.

**Figure 3: Core Inflation and Unemployed Persons-to-Job Openings,  
January 2019 to August 2024<sup>6</sup>**



**Q22. What policy actions has the Federal Reserve enacted to respond to increased inflation?**

**A22.** The dramatic increase in inflation prompted the Federal Reserve to pursue an aggressive normalization of monetary policy, removing the accommodative policy programs used to mitigate the economic effects of COVID-19. Between the March 2022 Federal Open

<sup>6</sup> Bureau of Labor Statistics.

1 Market Committee (“FOMC”) meeting and the July 2023 FOMC meeting, the Federal  
2 Reserve increased the target federal funds rate through a series of increases from a range  
3 of 0.00 – 0.25 percent to a range of 5.25 percent to 5.50 percent. As discussed below, in  
4 light of the progress on reducing inflation and the balancing of the dual mandate, the  
5 Federal Reserve lowered the federal funds rate by 50 basis points at its September 2024  
6 meeting to a range of 4.75 percent to 5.00 percent.

7 **Q23. Did the yields on long-term government bonds increase in response to inflation and**  
8 **the Federal Reserve’s normalization of monetary policy?**

9 A23. Yes. As the Federal Reserve substantially increased the federal funds rate in response to  
10 increased levels of inflation that persisted for longer than originally projected, longer-term  
11 interest rates increased. As shown in Figure 4, since the Federal Reserve’s December 2021  
12 meeting, the yield on 10-year Treasury bonds has increased by over 230 basis points,  
13 increasing from 1.47 percent on December 15, 2021 to 3.81 percent at the end of September  
14 2024.

**Figure 4: 10-Year Treasury Bond Yield, January 2021 through September 30, 2024<sup>7</sup>****Q24. What is the expected path of monetary policy over the near-term?**

A24. While over the past two years the risks associated with inflation have far exceeded the risks associated with the labor market, Chairman Powell's current view is that the risks associated with both inflation and the labor market have become more balanced given the effectiveness of restrictive monetary policy in combatting inflation. The Federal Reserve cut the interest rate by 50 basis points and Chairman Powell noted "with an appropriate recalibration of our policy stance, strength in the labor market can be maintained in a context of moderate growth and inflation moving sustainably down to 2 percent."<sup>8</sup> This will help to achieve the Federal Reserve's dual mandate of maximum employment and

<sup>7</sup> S&P Capital IQ Pro.

<sup>8</sup> Transcript of Chair Powell's Press Conference, September 18, 2024.

price stability with the 50 basis points cut in the interest rate. Chairman Powell also noted that while there was a 50 basis point reduction in the fed funds rate at the September FOMC meeting they “are not on any preset course” and will “continue to make our decisions meeting to meeting.”<sup>9</sup> Chairman Powell noted the timing and pace of any further rate reductions will depend on “incoming data, the evolving outlook and the balance of risks.”<sup>10</sup> Chairman Powell further explained that reducing the federal funds rate too quickly could hinder the progress on inflation while too slowly could unduly weaken the economic activity, leading the FOMC to conclude that they will carefully assess incoming data before making any further decisions on policy rate changes.

**Q25. Has there been additional macroeconomic data since the rate cut in September 2024?**

A25. Yes. The September 2024 jobs report indicated that U.S. job gains increased by the most in six months and the unemployment rate fell to 4.1 percent. Reuters noted that this data points to a resilient economy that likely does not need the Federal Reserve to deliver large interest rate cuts for the rest of this year.<sup>11</sup>

**Q26. What are expectations for the yields on long-term government bonds?**

A26. Economists consider the expected policy of the Federal Reserve in the development of their forecasts of long-term government bond yields and, prior to the FOMC’s decision to reduce the federal funds rate at the September 2024 meeting, had projected a decrease in the federal funds rate. For example, *Blue Chip Financial Forecasts* provides a forecast of both the federal funds rate and the yield on the 30-year Treasury bond. In the most recent

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<sup>9</sup> *Id.*

<sup>10</sup> *Id.*

<sup>11</sup> *Reuters*, Mutikani, Lucia, “Blowout US employment report reinforces economy’s resilience.”, October 4, 2024.

published *Blue Chip Financial Forecasts* report, economists projected the federal funds rate to decline from 4.6 percent in Q4/2024 to 3.3 percent in Q1/2026.<sup>12</sup> However, economists' consensus estimate of the yield on the 30-year Treasury bond is expected to remain relatively stable over the same time period. The yield on the 30-year Treasury bond as reported by *Blue Chip Financial Forecasts* is expected to range from 4.1 percent in Q4/2024 to 4.0 percent in Q1/2026.<sup>13</sup> Therefore, economists, who consider the expected policy of the Federal Reserve, expect the yield on the 30-year Treasury bond to remain elevated over the near-term.

**Q27. What are your conclusions regarding the effect of current market conditions on the cost of equity for the Company?**

A27. Due to their effect on the estimated cost of equity, it is important that current and projected market conditions be considered in setting the forward-looking ROE in this proceeding. As shown in Figure 2, long-term interest rates are higher as compared to the Company's last rate proceeding. Further, while the FOMC decreased the federal funds rate at its September 2024 meeting, economists have considered the expected path of monetary policy and are forecasting interest rates to remain at elevated levels during the period that the Company's rates will be in effect. As a result, the cost of equity is directionally higher than at the time that the Commission authorized the ROE in the Company's 2019 rate proceeding.

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<sup>12</sup> *Blue Chip Financial Forecasts*, Vol. 43, No. 10, October 1, 2024, at 2.

<sup>13</sup> *Id.*

**V. PROXY GROUP SELECTION**

**Q28. Please provide a brief profile of Montana-Dakota.**

A28. Montana-Dakota is a wholly owned subsidiary of MDU. The Company provides natural gas service to approximately 20,300 customers in 9 communities in Wyoming.<sup>14</sup> As of December 31, 2023, the Company's net utility natural gas plant in Wyoming was approximately \$24.99 million.<sup>15</sup> In addition, the Company had total natural gas sales in Wyoming in 2023 of approximately 2.8 million dth.<sup>16</sup> Wyoming accounted for approximately 2 percent of MDU's total natural gas retail sales revenue in 2023.<sup>17</sup> Montana-Dakota Utilities Co. currently has an investment-grade long-term rating of BBB+ (Outlook: Negative) from S&P and BBB+ (Outlook: Stable) from Fitch.<sup>18</sup>

**Q29. Why have you used a group of proxy companies to estimate the cost of equity for Montana-Dakota?**

A29. In this proceeding, the cost of equity is being estimated for a natural gas utility company that is not itself publicly traded. Because the cost of equity is a market-based concept and the Company's operations do not make up the entirety of a publicly traded entity, it is necessary to establish a group of companies that is both publicly traded and comparable to the Company in certain fundamental business and financial respects to serve as its "proxy" for purposes of estimating the cost of equity.

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<sup>14</sup> Montana-Dakota Utilities Co., W.P.S.C Tariff No. 2, Natural Gas Service, Effective Date March 1, 2020.

<sup>15</sup> Data provided by Company.

<sup>16</sup> Montana-Dakota Utilities Co. 2023 Annual Report to the Wyoming Public Service Commission at 38.

<sup>17</sup> MDU Resources Group, Inc., Form 2023 SEC Form 10-K at 15.

<sup>18</sup> S&P Global Ratings, November 23, 2024 and Fitch Ratings, August 9, 2024.

Even if the Company was a publicly-traded entity, it is possible that transitory events could bias its market value over a given period. A significant benefit of using a proxy group is that it moderates the effects of unusual events that may be associated with any one company. The proxy companies used in my analyses all possess a set of operating and risk characteristics that are substantially comparable to the Company, and thus provide a reasonable basis to estimate the appropriate cost of equity for the Company.

**Q30. How did you select the companies included in your proxy group?**

A30. I began with the group of 9 companies that *Value Line* classifies as Natural Gas Distribution Utilities and applied the following screening criteria to select companies that:

- pay consistent quarterly cash dividends, because such companies cannot be analyzed using the constant growth DCF model;
- have investment grade long-term issuer ratings from S&P and/or Moody's;
- have positive long-term earnings growth forecasts from at least two utility industry equity analysts;
- derive more than 70.00 percent of their total operating income from regulated operations;
- derive more than 60.00 percent of regulated operating income from gas distribution operations; and,
- were not parties to a merger or transformative transaction during the analytical periods relied on.

**Q31. What is the composition of your proxy group?**

A31. The screening criteria discussed above is shown in Exhibit No.\_\_(AEB-2), Schedule 3 and results in a proxy group consisting of the companies shown in Figure 5.

**Figure 5: Proxy Group**

<b>Company</b>	<b>Ticker</b>
Atmos Energy Corporation	ATO
NiSource Inc.	NI
Northwest Natural Gas Company	NWN
ONE Gas, Inc.	OGS
Southwest Gas Corporation	SWX
Spire, Inc.	SR

## **VI. COST OF EQUITY ESTIMATION**

### **Q32. Please briefly discuss the ROE in the context of a regulated utility.**

A32. The rate of return for a regulated utility is the weighted average cost of capital, in which the costs of the individual sources of capital are weighted by their respective proportion (*i.e.*, book values) in the utility's capital structure. The ROE is the cost rate applied to the equity capital in calculating the rate of return. While the costs of debt and preferred stock can be directly observed, the cost of equity is market-based and, therefore, must be estimated based on observable market data when establishing the ROE.

### **Q33. How is the required cost of equity determined?**

A33. The required cost of equity is estimated by using analytical techniques that rely on market-based data to quantify investor expectations regarding equity returns, adjusted for certain incremental costs and risks. Informed judgment is then applied to determine where the company's cost of equity falls within the range of results produced by multiple analytical techniques. The key consideration in determining the cost of equity is to ensure that the methodologies employed reasonably reflect investors' views of the financial markets in general, as well as the subject company (in the context of the proxy group), in particular.

**Q34. What methods did you use to estimate the cost of equity for the Company in this proceeding?**

A34. I consider the results of the constant growth form of the DCF model, the CAPM, the ECAPM, and a BYRP analysis. A reasonable cost of equity estimate appropriately considers alternative methodologies and the reasonableness of their individual and collective results.

**Q35. Is it important to use more than one analytical approach?**

A35. Yes. Because the cost of equity is not directly observable, it must be estimated based on both quantitative and qualitative information. When faced with the task of estimating the cost of equity, analysts and investors are inclined to gather and evaluate as much relevant data as reasonably can be analyzed. Several models have been developed to estimate the cost of equity, and I use multiple approaches to estimate the cost of equity. As a practical matter, however, all of the models available for estimating the cost of equity are subject to limiting assumptions or other methodological constraints. Consequently, many well-regarded finance texts recommend using multiple approaches when estimating the cost of equity. For example, Copeland, Koller, and Murrin<sup>19</sup> suggest using the CAPM and Arbitrage Pricing Theory model, while Brigham and Gapenski<sup>20</sup> recommend the CAPM, DCF, and BYRP approaches.

Further, each model relies on different assumptions, certain of which better reflect current and projected market conditions at different times. For example, the CAPM and ECAPM

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<sup>19</sup> Tom Copeland, Tim Koller and Jack Murrin, *Valuation: Measuring and Managing the Value of Companies* (3<sup>rd</sup> ed. 2000), at 214.

<sup>20</sup> Eugene Brigham and Louis Gapenski, *Financial Management: Theory and Practice* (7<sup>th</sup> ed. 1994), at 341.

analyses rely directly on interest rates as an assumption in the models and therefore may more directly reflect the market conditions expected when the Company's rates are in effect. Accordingly, it is important to use multiple analytical approaches to ensure that the cost of equity results reflect market conditions that are expected during the period that the Company's rates will be in effect.

**A. Constant Growth DCF Model**

**Q36. Please describe the DCF approach.**

A36. The DCF approach is based on the theory that a stock's current price represents the present value of all expected future cash flows. In its most general form, the DCF model is expressed as follows:

$$P_0 = \frac{D_1}{(1+k)} + \frac{D_2}{(1+k)^2} + \dots + \frac{D_\infty}{(1+k)^\infty} \quad [1]$$

Where  $P_0$  represents the current stock price,  $D_1 \dots D_\infty$  are all expected future dividends, and  $k$  is the discount rate, or required COE. Equation [1] is a standard present value calculation that can be simplified and rearranged into the following form:

$$k = \frac{D_0(1+g)}{P_0} + g \quad [2]$$

Equation [2] is often referred to as the Constant Growth DCF model in which the first term is the expected dividend yield and the second term is the expected long-term growth rate.

**Q37. What assumptions are required for the constant growth DCF model?**

A37. The constant growth DCF model requires the following assumptions: (1) a constant growth rate for earnings and dividends; (2) a stable dividend payout ratio; (3) a constant price-to-earnings ratio; and (4) a discount rate greater than the expected growth rate. To the extent that any of these assumptions are violated, considered judgment and/or specific adjustments should be applied to the results.

**Q38. What market data did you use to calculate the dividend yield in your constant growth DCF model?**

A38. The dividend yield in my constant growth DCF model is based on the proxy companies' current annual dividend and average closing stock prices over the 30-, 90-, and 180-trading days as of September 30, 2024.

**Q39. Why did you use three averaging periods for stock prices?**

A39. In my constant growth DCF model, I use an average of recent trading days to calculate the term  $P_0$  in the DCF model to ensure that the cost of equity is not skewed by anomalous events that may affect stock prices on any given trading day. The averaging period should also be reasonably representative of expected capital market conditions over the long term.

**Q40. Did you make any adjustments to the dividend yield to account for periodic growth in dividends?**

A40. Yes. Because utility companies tend to increase their quarterly dividends at different times throughout the year, it is reasonable to assume that dividend increases will be evenly distributed over calendar quarters. Given that assumption, it is reasonable to apply one-half of the expected annual dividend growth rate for purposes of calculating the expected

1 dividend yield component of the DCF model. This adjustment ensures that the expected  
2 first-year dividend yield is, on average, representative of the coming twelve-month period,  
3 and does not overstate the aggregated dividends to be paid during that time.

4 **Q41. Why is it important to select appropriate measures of long-term growth in applying**  
5 **the DCF model?**

6 A41. In its constant growth form, the DCF model (*i.e.*, Equation [2] shown previously) assumes  
7 a single long-term growth rate in perpetuity. In order to reduce the long-term growth rate  
8 to a single measure, one must assume that the dividend payout ratio remains constant and  
9 that earnings per share (“EPS”), dividends per share, and book value per share all grow at  
10 the same constant rate. However, over the long run, dividend growth can only be sustained  
11 by earnings growth, meaning earnings are the fundamental driver of a company’s ability  
12 to pay dividends. Therefore, projected EPS growth is the appropriate measure of a  
13 company’s long-term growth. In contrast, changes in a company’s dividend payments are  
14 based on management decisions related to cash management and other factors. For  
15 example, a company may decide to retain earnings rather than pay out a portion of those  
16 earnings to shareholders through dividends. Therefore, dividend growth rates are less  
17 likely than earnings growth rates to accurately reflect investor perceptions of a company’s  
18 growth prospects. Accordingly, I have incorporated a number of sources of long-term EPS  
19 growth rates into the constant growth DCF model.

**Q42. What sources of long-term growth rates did you rely on in your constant growth DCF model?**

A42. My constant growth DCF model incorporates three sources of long-term projected EPS growth rates: (1) *Zacks Investment Research (Zacks)*; (2) Yahoo! Finance; and (3) *Value Line*.

**Q43. How do you calculate the range of results for the constant growth DCF models?**

A43. I calculate the low-end result for the constant growth DCF model using the minimum growth rate of the three sources (*i.e.*, the lowest of the *Zacks*, Yahoo! Finance, and *Value Line* projected EPS growth rates) for each of the proxy group companies. I use a similar approach to calculate a high-end result, using the maximum growth rate of the three sources for each proxy group company. Lastly, I also calculate results using the average EPS growth rate from all three sources for each proxy group company.

**Q44. Please summarize the results of your constant growth DCF analyses.**

A44. Exhibit No.\_\_(AEB-2), Schedule 4 and Figure 6 summarize the results of the constant growth DCF models.

**Figure 6: Summary of Constant Growth DCF Results**

	Minimum Growth Rate	Average Growth Rate	Maximum Growth Rate
<b>Mean Results:</b>			
30-Day Avg. Stock Price	8.59%	9.87%	11.30%
90-Day Avg. Stock Price	8.79%	10.06%	11.50%
180-Day Avg. Stock Price	8.95%	10.23%	11.66%
Average	8.78%	10.05%	11.49%
<b>Median Results:</b>			
30-Day Avg. Stock Price	8.48%	9.83%	11.33%
90-Day Avg. Stock Price	8.72%	10.05%	11.57%
180-Day Avg. Stock Price	8.86%	10.17%	11.71%
Average	8.69%	10.02%	11.54%

**B. CAPM Analysis****Q45. Please briefly describe the Capital Asset Pricing Model.**

A45. The CAPM is a risk premium approach that estimates the cost of equity for a given security as a function of a risk-free return plus a risk premium to compensate investors for the non-diversifiable or “systematic” risk of that security.<sup>21</sup> This second component is the product of the market risk premium and the beta coefficient, which measures the relative riskiness of the security being evaluated.

The CAPM is defined by four components, each of which must theoretically be a forward-looking estimate:

$$K_e = r_f + \beta(r_m - r_f) \quad [3]$$

Where:

<sup>21</sup> Systematic risk is the risk inherent in the entire market or market segment, which cannot be diversified away using a portfolio of assets. Unsystematic risk is the risk of a specific company that can, theoretically, be mitigated through portfolio diversification.

$K_e$  = the required market ROE;

$\beta$  = the beta coefficient of an individual security;

$r_f$  = the risk-free rate of return; and

$r_m$  = the required return on the market as a whole.

In this specification, the term  $(r_m - r_f)$  represents the market risk premium. According to the theory underlying the CAPM, because unsystematic risk can be diversified away, investors should only be concerned with systematic or non-diversifiable risk. Systematic risk is measured by beta, which is a measure of the volatility of a security as compared to the market as a whole. Beta is defined as:

$$\beta = \frac{\text{Covariance}(r_e, r_m)}{\text{Variance}(r_m)} \quad [4]$$

*Variance* ( $r_m$ ) represents the variance of the market return, which is a measure of the uncertainty of the general market. *Covariance* ( $r_e, r_m$ ) represents the covariance between the return on a specific security and the general market, which reflects the extent to which the return on that security will respond to a given change in the general market return. Thus, beta represents the risk of the security relative to the general market.

**Q46. What risk-free rate did you use in your CAPM analyses?**

A46. I rely on three sources for my estimate of the risk-free rate: (1) the current 30-day average yield on 30-year U.S. Treasury bonds, which is 4.07 percent;<sup>22</sup> (2) the average projected 30-year U.S. Treasury bond yield for the first quarter of 2025 through the first quarter of

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<sup>22</sup> S&P IQ Pro, as of September 30, 2024.

2026, which is 4.02 percent;<sup>23</sup> and (3) the average projected 30-year U.S. Treasury bond yield for 2026 through 2030, which is 4.30 percent.<sup>24</sup>

**Q47. What beta coefficients did you use in your CAPM analysis?**

A47. As shown in Exhibit No.\_\_(AEB-2), Schedule 5, I use the beta coefficients for the proxy group companies as reported by *Bloomberg* and *Value Line*. The beta coefficients reported by *Bloomberg* are calculated using ten years of weekly returns relative to the S&P 500 Index. The beta coefficients reported by *Value Line* are calculated based on five years of weekly returns relative to the New York Stock Exchange Composite Index. Additionally, as shown in Exhibit No.\_\_(AEB-2), Schedule 5, I also considered an additional CAPM analysis that relies on the long-term average utility beta coefficient for the companies in my proxy group from 2013 through 2023, which are presented in Exhibit No.\_\_(AEB-2), Schedule 6.

**Q48. How do you estimate the market risk premium in the CAPM?**

A48. I estimate the market risk premium as the difference between the implied expected equity market return and the risk-free rate. As shown in Exhibit No.\_\_(AEB-2), Schedule 7, the expected market return is calculated using the constant growth DCF model discussed previously as applied to the companies in the S&P 500 Index. Based on an estimated market capitalization-weighted dividend yield of 1.52 percent and a weighted long-term growth rate of 10.45 percent, the estimated required market return for the S&P 500 Index as of September 30, 2024 is 12.04 percent.

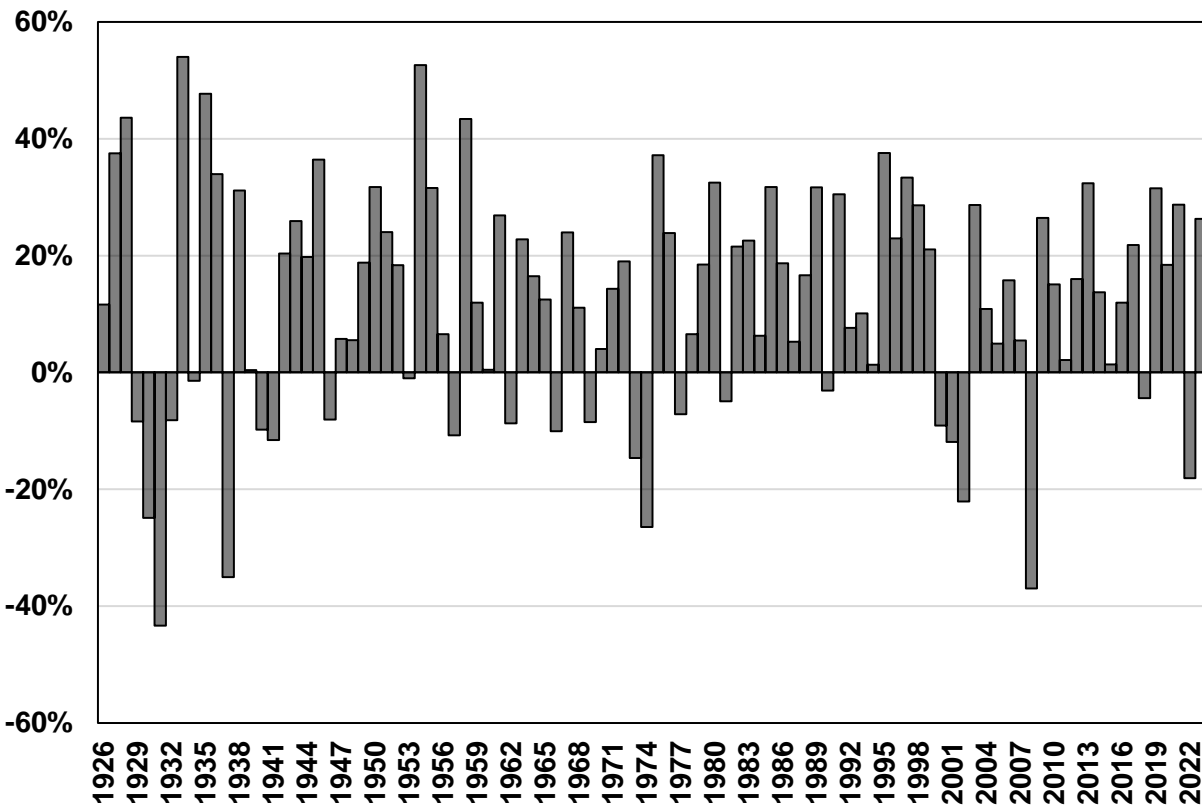
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<sup>23</sup> *Blue Chip Financial Forecasts*, Vol. 43, No. 10, October 1, 2024, at 2.

<sup>24</sup> *Blue Chip Financial Forecasts*, Vol. 43, No. 6, May 31, 2024, at 14.

1 **Q49. How does the expected market return compare to observed historical market**  
2 **returns?**

3 A49. As show in Figure 7, given the range of annual equity returns that have been observed over  
4 the past century, a current expected market return of 12.04 percent is reasonable. In 52 out  
5 of the past 98 years (or approximately 53 percent of observations), the realized equity  
6 market return was at least 12.04 percent or greater.

**Figure 7: Realized U.S. Equity Market Returns (1926–2023)<sup>25</sup>**

**Q50. Did you consider another form of the CAPM in your analysis?**

**A50.** Yes. I have also considered the results of an ECAPM in estimating the cost of equity for the Company.<sup>26</sup> The ECAPM calculates the product of the adjusted beta coefficient and the market risk premium and applies a weight of 75.00 percent to that result. The model then applies a 25.00 percent weight to the market risk premium without any effect from the beta coefficient. The results of the two calculations are summed, along with the risk-free rate, to produce the ECAPM result, as noted in Equation [5] below:

<sup>25</sup> Depicts total annual returns on large company stocks, as reported in the 2022 *Kroll SBBI Yearbook* for 1926-2022 and from S&P Capital IQ Professional for 2023.

<sup>26</sup> See, e.g., Roger A. Morin, *New Regulatory Finance*, Public Utilities Reports, Inc., June 1, 2006, at 189.

$$k_e = r_f + 0.75\beta(r_m - r_f) + 0.25(r_m - r_f) \quad [5]$$

Where:

$k_e$  = the required market ROE;

$\beta$  = adjusted beta coefficient of an individual security;

$r_f$  = the risk-free rate of return; and,

$r_m$  = the required return on the market as a whole.

The ECAPM addresses the tendency of the “traditional” CAPM to underestimate the cost of equity for companies with low beta coefficients such as regulated utilities. In that regard, the ECAPM is not redundant to the use of adjusted betas in the traditional CAPM, but rather it recognizes the results of academic research indicating that the risk-return relationship is different (in essence, flatter) than estimated by the CAPM, meaning that the CAPM underestimates the cost of equity for companies with a beta less than 1.0 and overestimates the cost of equity for companies with a beta greater than 1.0.<sup>27</sup>

Consistent with my CAPM, my application of the ECAPM uses the forward-looking market risk premium estimates, the three yields on 30-year Treasury securities noted earlier as the risk-free rate, and the current *Bloomberg*, current *Value Line*, and long-term *Value Line* beta coefficients.

**Q51. What are the results of your CAPM and ECAPM analyses?**

A51. The results of my CAPM and ECAPM analyses are summarized in Figure 8, as well as presented in Exhibit No.\_\_(AEB-2), Schedule 5.

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<sup>27</sup> *Id.*, at 191.

**Figure 8: CAPM and ECAPM Results**

	30-Year Treasury Bond Yield		
	Current 30-Day Avg	Near-Term Projected	Longer-Term Projected
CAPM:			
Current <i>Value Line</i> Beta	11.05%	11.04%	11.07%
Current Bloomberg Beta	10.15%	10.13%	10.20%
Long-term Avg. <i>Value Line</i> Beta	10.08%	10.06%	10.13%
ECAPM:			
Current <i>Value Line</i> Beta	11.30%	11.29%	11.32%
Current Bloomberg Beta	10.62%	10.61%	10.66%
Long-term Avg. <i>Value Line</i> Beta	10.57%	10.56%	10.61%

**C. BYRP Analysis****Q52. Please describe your BYRP analysis.**

A52. In general terms, this approach is based on the fundamental principle that equity investors bear the residual risk associated with equity ownership and therefore require a premium over the return they would have earned as bondholders. In other words, because returns to equity holders have greater risk than returns to bondholders, equity holders require a higher return for that incremental risk. Thus, risk premium approaches estimate the cost of equity as the sum of the equity risk premium and the yield on a particular class of bonds. In my analysis, I use actual authorized returns for natural gas utilities as the historical measure of the cost of equity to determine the risk premium.

**Q53. What is the fundamental relationship between the equity risk premium and interest rates?**

A53. It is important to recognize both academic literature and market evidence indicating that the equity risk premium (as used in this approach) is inversely related to the level of interest rates (*i.e.*, as interest rates increase, the equity risk premium decreases, and vice versa).

Consequently, it is important to develop an analysis that: (1) reflects the inverse relationship between interest rates and the equity risk premium; and (2) relies on recent and expected market conditions. The analysis presented in Exhibit No.\_\_(AEB-2), Schedule 8 establishes that relationship using a regression of the risk premium as a function of Treasury bond yields. When the authorized ROEs serve as the measure of required equity returns and the long-term Treasury bond yield is defined as the relevant measure of interest rates, the risk premium is the difference between those two points.<sup>28</sup>

**Q54. Is the BYRP analysis relevant to investors?**

A54. Yes. Investors are aware of authorized ROEs in other jurisdictions and they consider those awards as a benchmark for a reasonable level of equity returns for utilities of comparable risk operating in other jurisdictions. Because my BYRP analysis is based on authorized ROEs for utility companies relative to corresponding Treasury yields, it provides relevant information to assess the return expectations of investors in the current interest rate environment.

**Q55. What did your BYRP analysis reveal?**

A55. As shown in Figure 9, from January 1980 through September 2024, there was a strong negative relationship between risk premia and interest rates. To estimate that relationship, I conducted a regression analysis using the following equation:

$$RP = a + b(T) \quad [6]$$

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<sup>28</sup> See e.g., S. Keith Berry, "Interest Rate Risk and Utility Risk Premia during 1982-93," *Managerial and Decision Economics*, Vol. 19, No. 2, March 1998 (the author used a similar methodology, including using authorized ROEs as the relevant data source, and came to similar conclusions regarding the inverse relationship between risk premia and interest rates). See also, Robert S. Harris, "Using Analysts' Growth Forecasts to Estimate Shareholder Required Rates of Return," *Financial Management*, Spring 1986, at 66.

1       Where:

2                $RP$  = Risk Premium (difference between allowed ROEs and the yield on 30-year  
3               U.S. Treasury bonds)

4                $a$  = intercept term

5                $b$  = slope term

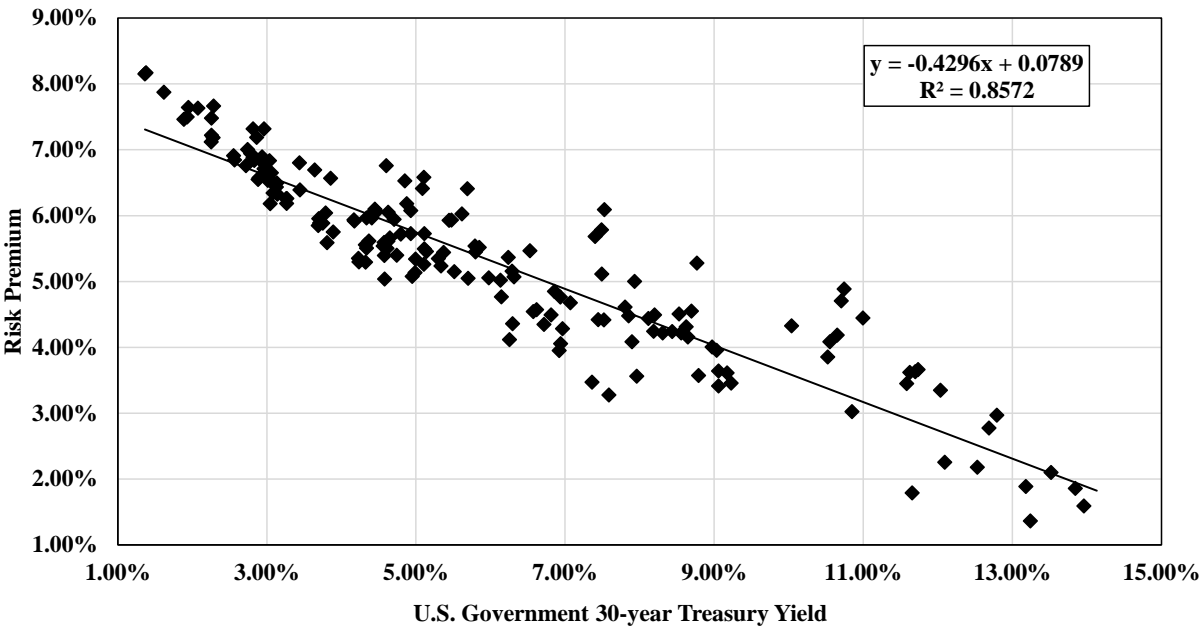
6                $T$  = 30-year U.S. Treasury bond yield

7       Data regarding authorized ROEs were derived from the natural gas utility rate cases over  
8       this period as reported by RRA.<sup>29</sup> The equation's coefficients are statistically significant  
9       at the 99.00 percent level.

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<sup>29</sup> The data was screened to eliminate limited issue rider cases, transmission cases, and cases that were silent with respect to the authorized ROE.

Figure 9: Risk Premium Regression Analysis



**Q56. What are the results of your BYRP analysis?**

A56. Figure 10 presents the results of my BYRP analysis, which is also presented in more detail in Exhibit No. \_\_\_\_(AEB-2), Schedule 8.

Figure 10: BYRP Results

	30-Year Treasury Bond Yield		
	Current	Near-Term	Longer-Term
	30-Day Avg	Projected	Projected
Bond Yield Risk Premium	10.22%	10.19%	10.35%

**Q57. How did the results of the BYRP inform your recommended ROE for Montana-Dakota?**

A57. I have considered the results of the BYRP analysis in setting my recommended ROE for Montana-Dakota. As noted above, investors consider the ROE determination by a regulator when assessing the risk of that company as compared to utilities of comparable

1 risk operating in other jurisdictions. The BYRP analysis takes into account this comparison  
2 by estimating the return expectations of investors based on the current and past ROE  
3 awards of natural gas utilities across the U.S.

4 **VII. REGULATORY AND BUSINESS RISKS**

5 **Q58. Do the results of the cost of equity analyses alone provide an appropriate estimate of**  
6 **the cost of equity for the Company?**

7 A58. No. These results provide only a range of the appropriate estimate of the Company's cost  
8 of equity. Several additional factors must be considered when determining where the  
9 Company's cost of equity falls within the range of analytical results. These risk factors,  
10 discussed below, should be considered with respect to their overall effect on the  
11 Company's risk profile relative to the proxy group.

12 **A. Small Size Risk**

13 **Q59. Is there a risk to a firm associated with small size?**

14 A59. Yes. Both the financial and academic communities have long accepted the proposition that  
15 the cost of equity for small firms is subject to a "size effect." While empirical evidence of  
16 the size effect often is based on studies of industries other than regulated utilities, utility  
17 analysts also have noted the risk associated with small market capitalizations. Specifically,  
18 an analyst for Ibbotson Associates noted:

19 For small utilities, investors face additional obstacles, such as a smaller  
20 customer base, limited financial resources, and a lack of diversification

1 across customers, energy sources, and geography. These obstacles imply a  
2 higher investor return.<sup>30</sup>

3 **Q60. How does the smaller size of a utility affect its business risk?**

4 A60. In general, smaller companies are less able to withstand adverse events that affect their  
5 revenues and expenses. The impact of weather variability, the loss of large customers to  
6 bypass opportunities, or the destruction of demand as a result of general macroeconomic  
7 conditions or fuel price volatility will have a proportionately greater impact on the earnings  
8 and cash flow volatility of smaller utilities. Similarly, capital expenditures for non-revenue  
9 producing investments, such as system maintenance and replacements, will put  
10 proportionately greater pressure on customer costs, potentially leading to customer attrition  
11 or demand reduction. Taken together, these risks affect the return required by investors for  
12 smaller companies.

13 **Q61. How does Montana-Dakota's natural gas operations in Wyoming compare in size to**  
14 **the companies in the proxy group companies?**

15 A61. The Company's natural gas distribution operations are substantially smaller than the  
16 median for the proxy group companies in terms of market capitalization. While Montana-  
17 Dakota is not publicly-traded on a stand-alone basis, as shown on Exhibit No.\_\_(AEB-2),  
18 Schedule 9, Montana-Dakota's common equity based on its proposed test year rate base  
19 and equity ratio is substantially smaller than the median market capitalization of the proxy  
20 group companies.

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<sup>30</sup> Michael Annin, "Equity and the Small-Stock Effect," *Public Utilities Fortnightly*, October 15, 1995.

**Q62. How did you estimate the size premium for Montana-Dakota?**

A62. Given this relative size information, it is possible to estimate the impact of size on the cost of equity for the Company using *Kroll* Cost of Capital Navigator data that estimates the stock risk premia based on the size of a company's market capitalization.<sup>31</sup> As shown in Exhibit No.\_\_(AEB-2), Schedule 9, the median market capitalization of the proxy group is approximately \$4.43 billion, which corresponds to the fifth decile of *Kroll's* market capitalization data.<sup>32</sup> Based on *Kroll's* analysis, that decile corresponds to a size premium of 0.95 percent (*i.e.*, 95 basis points). In comparison, Montana-Dakota's common equity of approximately \$15.02 million falls within the tenth decile, which corresponds to a size premium of 4.70 percent (*i.e.*, 470 basis points). The difference between the size premium for the Company and the size premium for the proxy group is 375 basis points (*i.e.*, 4.70 percent minus 0.95 percent).

**Q63. Have utility companies been included in the *Kroll* size premium study conducted?**

A63. Yes. For example, as shown in Exhibit 7.2 of the *Kroll* (formerly *Duff & Phelps*) 2019 Valuation Handbook, OGE Energy Corp. had the largest market capitalization of the companies contained in the fourth decile, which indicates that *Kroll* has included utility companies in its size risk premium study.<sup>33</sup>

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<sup>31</sup> *Kroll*, Cost of Capital Navigator – Size Premium: Annual data as of 12/21/2023.

<sup>32</sup> *Id.*

<sup>33</sup> *Kroll*, Valuation Handbook: Guide to Cost of Capital, 2019, Exhibit 7.2.

1 **Q64. Is the size premium applicable to companies in regulated industries such as natural**  
 2 **gas utilities?**

3 A64. Yes. For example, Zepp (2003) provided the results of two studies that showed evidence  
 4 of the required risk premium for small water utilities. The first study, which was conducted  
 5 by the Staff of the California Public Utilities Commission, computed proxies for beta risk  
 6 using accounting data from 1981 through 1991 for 58 water utilities and concluded that  
 7 smaller water utilities had greater risk and required higher returns on equity than larger  
 8 water utilities.<sup>34</sup> The second study examined the differences in required returns over the  
 9 period of 1987 through 1997 for two large and two small water utilities in California. As  
 10 Zepp (2003) showed, the required return for the two small water utilities calculated using  
 11 the DCF model was on average 99 basis points higher than the two larger water utilities.<sup>35</sup>

12 Additionally, Chrétien and Coggins (2011) studied the CAPM and its ability to estimate  
 13 the risk premium for the utility industry, and in particular subgroups of utilities.<sup>36</sup> The  
 14 article considered the CAPM, the Fama-French three-factor model, and a model similar to  
 15 the ECAPM, which as previously discussed, I have also considered in estimating the cost  
 16 of equity for the Company. In the study, the Fama-French three-factor model explicitly  
 17 included an adjustment to the CAPM for risk associated with size. As Chrétien and  
 18 Coggins (2011) show, the beta coefficient on the size variable for the U.S. natural gas

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<sup>34</sup> Thomas M. Zepp, "Utility Stocks and the Size Effect—Revisited," *The Quarterly Review of Economics and Finance*. Vol. 43, No. 3, 2003, at 578-582.

<sup>35</sup> *Id.*

<sup>36</sup> Stéphane Chrétien and Frank Coggins, "Cost Of Equity For Energy Utilities: Beyond The CAPM," *Energy Studies Review*, Vol. 18, No. 2, 2011.

1 utility group was positive and statistically significant indicating that small size risk was  
 2 relevant for regulated natural gas utilities.<sup>37</sup>

3 **Q65. Have regulators in other jurisdictions made a specific risk adjustment to the cost of**  
 4 **equity results based on a company's small size?**

5 A65. Yes. For example, in Order No. 15, the Regulatory Commission of Alaska ("RCA")  
 6 concluded that Alaska Electric Light and Power Company ("AEL&P") was riskier than the  
 7 proxy group companies due to small size as well as other business risks. The RCA did  
 8 "not believe that adopting the upper end of the range of ROE analyses in this case, without  
 9 an explicit adjustment, would adequately compensate AEL&P for its greater risk."<sup>38</sup> Thus,  
 10 the RCA awarded AEL&P an ROE of 12.875 percent, which was 108 basis points above  
 11 the highest cost of equity estimate from any model presented in the case.<sup>39</sup> Similarly, the  
 12 RCA has also noted that small size, as well as other business risks such as its substantial  
 13 transmission assets, weather risk, alternative rate mechanisms, gas supply risk, geographic  
 14 isolation and economic conditions, increased the risk of ENSTAR Natural Gas Company.<sup>40</sup>  
 15 Ultimately, the RCA concluded that:

16 Although we agree that the risk factors identified by ENSTAR increase its  
 17 risk, we do not attempt to quantify the amount of that increase. Rather, we  
 18 take the factors into consideration when evaluating the remainder of the  
 19 record and the recommendations presented by the parties. After applying  
 20 our reasoned judgment to the record, we find that 11.875% represents a fair  
 21 ROE for ENSTAR.<sup>41</sup>

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<sup>37</sup> *Id.*

<sup>38</sup> Regulatory Commission of Alaska, Docket No. U-10-29, Order No. 15, September 2, 2011, at 37.

<sup>39</sup> *Id.*, at 32 and 37.

<sup>40</sup> Regulatory Commission of Alaska, Docket No. U-16-066, Order No. 19, September 22, 2017, at 50-52.

<sup>41</sup> *Ibid.*

1 Additionally, the Minnesota Public Utilities Commission (“Minnesota PUC”) authorized  
 2 an ROE for Otter Tail Power Company (“Otter Tail”) above the mean DCF results as a  
 3 result of multiple factors, including Otter Tail’s small size. The Minnesota PUC stated:

4 The record in this case establishes a compelling basis for selecting an ROE  
 5 above the mean average within the DCF range, given Otter Tail’s unique  
 6 characteristics and circumstances relative to other utilities in the proxy  
 7 group. These factors include the company’s relatively smaller size,  
 8 geographically diffuse customer base, and the scope of the Company’s  
 9 planned infrastructure investments.<sup>42</sup>

10 Finally, in Opinion Nos. 569 and 569-A, the Federal Energy Regulatory Commission  
 11 (“FERC”) adopted a size premium adjustment in its CAPM estimates for electric utilities.  
 12 In those decisions, the FERC noted that “the size adjustment was necessary to correct for  
 13 the CAPM’s inability to fully account for the impact of firm size when determining the  
 14 cost of equity.”<sup>43</sup>

15 **Q66. How have you considered the smaller size of Montana-Dakota in your**  
 16 **recommendation?**

17 A66. While I have estimated the effect of Montana-Dakota’s small size on the ROE, I am not  
 18 proposing a specific adjustment for this risk factor. Rather, I have considered the small  
 19 size of Montana-Dakota’s natural gas operations in Wyoming, along with the other risk  
 20 factors present for the Company, in determining where, within the range of analytical  
 21 results, my recommended ROE for the Company should fall.

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<sup>42</sup> Order in Docket No. E017/GR-15-1033, In the Matter of the Application of Otter Tail Power Company for Authority to Increase Rates for Electric Service in the State of Minnesota (May 1, 2017) at 55.

<sup>43</sup> *Ass’n. of Businesses Advocating Tariff Equity, et. al., v. Midcontinent Indep. Sys. Operator, Inc., et. al.*, 171 FERC ¶ 61,154 (2020), at ¶ 75. The U.S. Court of Appeals recently vacated FERC Order No. 569 decisions that related to its risk premium model and remanded the case to FERC to reopen the proceedings. However, in its decision, the Court did not reject FERC’s inclusion of the size premium to estimate the CAPM. (*See*, United States Court of Appeals Case No. 16-1325, Decision No. 16-1325, August 9, 2022 at 20).

**B. Flotation Cost**

**Q67. What are flotation costs?**

A67. Flotation costs are the costs associated with the sale of new issues of common stock. These costs include out-of-pocket expenditures for preparation, filing, underwriting, and other issuance costs.

**Q68. Why is it important to consider flotation costs in the allowed ROE?**

A68. A regulated utility must have the opportunity to earn an ROE that is both competitive and compensatory to attract and retain new investors. To the extent that a company is denied the opportunity to recover prudently incurred flotation costs, actual returns will fall short of expected (or required) returns, thereby diluting equity share value.

**Q69. Are flotation costs part of the utility's invested costs or part of the utility's expenses?**

A69. Flotation costs are part of the invested costs of the utility, which are properly reflected on the balance sheet under "paid in capital." They are not current expenses, and, therefore, are not reflected on the income statement. Rather, like investments in rate base or the issuance costs of long-term debt, flotation costs are incurred over time. As a result, the great majority of a utility's flotation cost is incurred prior to the test year but remains part of the cost structure that exists during the test year and beyond, and as such, should be recognized for ratemaking purposes. Therefore, it is irrelevant whether an issuance occurs during the test year or is planned for the test year because failure to allow recovery of past flotation costs may deny Montana-Dakota the opportunity to earn its required rate of return in the future.

1 **Q70. Can you provide an example of why a flotation cost adjustment is necessary to**  
2 **compensate investors for the capital they have invested?**

3 A70. Yes. Suppose MDU Resources issues stock with a value of \$100, and an equity investor  
4 invests \$100 in MDU Resources in exchange for that stock. Further suppose that, after  
5 paying the flotation costs associated with the equity issuance, which include fees paid to  
6 underwriters and attorneys, among others, MDU Resources ends up with only \$97 of  
7 issuance proceeds, rather than the \$100 the investor contributed. MDU Resources invests  
8 that \$97 in plant used to serve its customers, which becomes part of rate base. Absent a  
9 flotation cost adjustment, the investor will thereafter earn a return on only the \$97 invested  
10 in rate base, even though she contributed \$100. Making a small flotation cost adjustment  
11 gives the investor a reasonable opportunity to earn the authorized return, rather than the  
12 lower return that results when the authorized return is applied to an amount less than what  
13 the investor contributed.

14 **Q71. Is the date of MDU Resources' last issued common equity important in the**  
15 **determination of flotation costs?**

16 A71. No. As shown in Exhibit No.\_\_(AEB-2), Schedule 10, MDU Resources closed on equity  
17 issuances of approximately \$58 million and \$54 million (for a total of 4.7 million shares  
18 of common stock) in November 2002 and February 2004, respectively. The vintage of the  
19 issuance, however, is not particularly important because the investor suffers a shortfall in  
20 every year that she should have a reasonable opportunity to earn a return on the full amount  
21 of capital that she has contributed. Returning to my earlier example, the investor who  
22 contributed \$100 is entitled to a reasonable opportunity to earn a return on \$100 not only  
23 in the first year after the investment, but in every subsequent year in which she has the

\$100 invested. Leaving aside depreciation, which is dealt with separately, there is no basis to conclude that the investor is entitled to earn a return on \$100 in the first year after issuance, but thereafter is entitled to earn a return on only \$97. As long as the \$100 is invested, the investor should have a reasonable opportunity to earn a return on the entire amount.

**Q72. Is the need to consider flotation costs eliminated because Montana-Dakota is a wholly-owned subsidiary of MDU?**

A72. No. Although Montana-Dakota is a wholly-owned subsidiary of MDU, it is appropriate to consider flotation costs because wholly-owned subsidiaries receive equity capital from their parent and provide returns on the capital that roll up to the parent, which is designated to attract and raise capital based upon the returns of those subsidiaries. To deny recovery of issuance costs associated with the capital that is invested in the subsidiaries ultimately penalizes the investors that fund the utility operations and could inhibit the utility's ability to obtain new equity capital at a reasonable cost.

**Q73. Is the need to consider flotation costs recognized by the academic and financial communities?**

A73. Yes. The need to reimburse shareholders for the lost returns associated with equity issuance costs is recognized by the academic and financial communities in the same spirit that investors are reimbursed for the costs of issuing debt. This treatment is consistent with the philosophy of a fair rate of return. According to Dr. Shannon Pratt:

Flotation costs occur when new issues of stock or debt are sold to the public. The firm usually incurs several kinds of flotation or transaction costs, which reduce the actual proceeds received by the firm. Some of these are direct out-of-pocket outlays, such as fees paid to underwriters, legal expenses, and

prospectus preparation costs. Because of this reduction in proceeds, the firm's required returns on these proceeds equate to a higher return to compensate for the additional costs. Flotation costs can be accounted for either by amortizing the cost, thus reducing the cash flow to discount, or by incorporating the cost into the cost of capital. Because flotation costs are not typically applied to operating cash flow, one must incorporate them into the cost of capital.<sup>44</sup>

**Q74. How did you calculate the flotation costs for MDU Resources?**

A74. My flotation cost calculation is based on the costs of issuing equity that were incurred by MDU Resources in its two most recent common equity issuances. That flotation cost percentage is then applied to the proxy group in the DCF analysis to estimate the impact on the cost of equity associated with flotation costs. As shown in Exhibit No.\_\_(AEB-2), Schedule 10, based on the flotation costs previously incurred by MDU, the average impact on the proxy group's cost of equity is 15 basis points (*i.e.*, 0.15 percent).

**Q75. Do your final cost of equity results include an adjustment for flotation cost recovery?**

A75. No. While the final ROE results do not incorporate an explicit adjustment for flotation costs, similar to the small size premium, I have considered the effect of flotation costs, along with the other risk factors present for the Company, in determining where, within the range of analytical results, my recommended ROE for the Company should fall.

**C. Capital Expenditures**

**Q76. What are the Company's projected capital expenditure requirements over the next few years?**

A76. As of December 31, 2023, the Company had net utility plant of approximately \$24.99 million, and the Company currently projects capital expenditures for 2025 through 2029 of

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<sup>44</sup> Shannon P. Pratt, *Cost of Capital Estimation and Applications* (2<sup>nd</sup> ed. 2002), at 220-221.

1 approximately \$35 million,<sup>45</sup> which represent approximately 139 percent of its current net  
2 utility plant.

3 **Q77. How do Montana-Dakota's capital expenditure requirements compare to those of the**  
4 **proxy group companies?**

5 A77. As shown Exhibit No.\_\_(AEB-2), Schedule 11, I have calculated the ratio of expected  
6 capital expenditures to net utility plant for Montana-Dakota and each of the companies in  
7 the proxy group by dividing each company's projected capital expenditures for the period  
8 from 2025 through 2029 by its total net utility plant as of December 31, 2023. As shown,  
9 Montana-Dakota's ratio of capital expenditures as a percentage of net utility plant is  
10 substantially higher than the median for the proxy group companies, and in fact, is the  
11 highest amongst the proxy group companies.

12 **Q78. How is the Company's risk profile affected by their substantial capital expenditure**  
13 **requirements?**

14 A78. As with any utility faced with substantial capital expenditure requirements, the Company's  
15 risk profile may be adversely affected in two significant and related ways: (1) the  
16 heightened level of investment increases the risk of under-recovery or delayed recovery of  
17 the invested capital; and (2) an inadequate return would put downward pressure on key  
18 credit metrics.

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<sup>45</sup> Data provided by the Company.

**Q79. Do credit rating agencies recognize the risks associated with significant capital expenditures?**

A79. Yes. From a credit perspective, the additional pressure on cash flows associated with high levels of capital expenditures exerts corresponding pressure on credit metrics and, therefore, credit ratings. To that point, S&P explains the importance of regulatory support for a significant amount of capital projects:

When applicable, a jurisdiction's willingness to support large capital projects with cash during construction is an important aspect of our analysis. This is especially true when the project represents a major addition to rate base and entails long lead times and technological risks that make it susceptible to construction delays. Broad support for all capital spending is the most credit-sustaining. Support for only specific types of capital spending, such as specific environmental projects or system integrity plans, is less so, but still favorable for creditors. Allowance of a cash return on construction work-in-progress or similar ratemaking methods historically were extraordinary measures for use in unusual circumstances, but when construction costs are rising, cash flow support could be crucial to maintain credit quality through the spending program. Even more favorable are those jurisdictions that present an opportunity for a higher return on capital projects as an incentive to investors.<sup>46</sup>

Recently, S&P evaluated the capital expenditure trends in the utility sector, noting that the balance between operating with negative discretionary cash flow from operations offset by reliable access to capital markets for financing may be tested through ever-increasing capital expenditure requirements as a result of the transformation of the energy sector through the focus on low/no carbon generation, electrification, and the replacement of aging infrastructure:

Some companies have been unable to support financial metrics consistent with former ratings as their discretionary cash flow deteriorated. This trend was a significant contributor to the sector seeing the median rating decline to 'BBB+' from 'A-' for the first time in 2022. What is less clear is whether

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<sup>46</sup> S&P Global Ratings, "Assessing U.S. Investor-Owned Utility Regulatory Environments," August 10, 2016, at 7.

or not management teams will take steps to forestall another step down in credit quality as high capital outlays persist. So far in 2023, we have not seen evidence that equity issuance is keeping pace with debt issuance to fill ever-deepening discretionary cash flow shortfalls, but time will tell.

.....

Despite the improvement in the economic outlook, we expect inflation, high interest rates, higher capital spending, and the strategic decision by many companies to operate with only minimal financial cushion from their downgrade thresholds to continue to pressure the industry's credit quality. We are cautious about the durability of the current stable ratings outlook given persistently high capital spending that now supports a trend of deterioration in discretionary cash flow. Without a commensurate focus on balance sheet preservation through equity support of discretionary cash flow deficits, limited financial cushions could give rise to another round of negative rating actions. The question then comes back to management priorities and financial policy decisions, or utilities may be faced with another step down in the median ratings.<sup>47</sup>

Therefore, to the extent that Montana-Dakota's rates do not permit the opportunity to recover its capital investments on a regular and timely basis, the Company will face increased recovery risk and thus increased pressure on its credit metrics.

**Q80. Does the Company currently have a capital tracking mechanism to recover the costs associated with its capital expenditures plan between rate cases?**

A80. No. Montana-Dakota currently has not requested approval to recover capital investment costs between rate cases utilizing a capital tracking mechanism. Therefore, Montana-Dakota depends entirely on rate case filings for capital cost recovery. However, significant capital programs like Montana-Dakota's generally receive cost recovery through infrastructure and capital trackers. As shown in Exhibit No.\_\_(AEB-2), Schedule 12,

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<sup>47</sup> S&P Global Ratings, "Record CapEx Fuels Growth Along With Credit Risk For North American Investor-Owned Utilities," September 12, 2023, at 5, 7-8.

1 approximately 71 percent of the companies in the proxy group currently have mechanisms  
2 for some form of capital cost recovery in place.

3 **Q81. What are your conclusions regarding the effect of the Company's capital spending**  
4 **requirements on its risk profile and cost of capital?**

5 A81. Since Montana-Dakota has the most significant projected capital expenditure program  
6 relative to net utility plant of the proxy group over the next five years, and unlike a number  
7 of the operating subsidiaries of the proxy group does not currently have a capital tracking  
8 mechanism, this results in a risk profile for the Company that is greater than that of the  
9 proxy group, all else being equal.

10 **D. Regulatory Risk**

11 **Q82. How does the regulatory environment affect investors' risk assessments?**

12 A82. The ratemaking process is premised on the principle that, for investors and companies to  
13 commit the capital needed to provide safe and reliable utility service, the subject utility  
14 must have the opportunity to recover the return of, and the market-required return on,  
15 invested capital. Regulatory commissions recognize that because utility operations are  
16 capital intensive, their decisions should enable the utility to attract capital at reasonable  
17 terms, and that doing so balances the long-term interests of investors and customers.  
18 Utilities must finance their operations and thus require the opportunity to earn a reasonable  
19 return on their invested capital to maintain their financial profiles. The Company is no  
20 exception. Therefore, the regulatory environment is one of the most important factors  
21 considered in both debt and equity investors' risk assessments.

1 From the perspective of debt investors, the authorized return should enable the utility to  
2 generate the cash flow needed to meet its near-term financial obligations, make the capital  
3 investments needed to maintain and expand its systems, and maintain the necessary levels  
4 of liquidity to fund unexpected events. This financial liquidity must be derived not only  
5 from internally-generated funds, but also by efficient access to capital markets. Moreover,  
6 because fixed income investors have many investment alternatives, even within a given  
7 market sector, a utility's financial profile must be adequate on a relative basis to ensure its  
8 ability to attract capital under a variety of economic and financial market conditions.

9 Equity investors require that the authorized return be adequate to provide a risk-comparable  
10 return on the equity portion of the utility's capital investments. Because equity investors  
11 are the residual claimants on the utility's cash flows (*i.e.*, the equity return is subordinate  
12 to interest payments), they are particularly concerned with the strength of regulatory  
13 support and its effect on future cash flows.

14 **Q83. Do credit rating agencies consider regulatory risk in establishing a company's credit**  
15 **rating?**

16 A83. Yes. Both S&P and Moody's consider the overall regulatory framework in establishing  
17 credit ratings. Moody's establishes credit ratings based on four key factors: (1) regulatory  
18 framework; (2) the ability to recover costs and earn returns; (3) diversification; and (4)  
19 financial strength, liquidity and key financial metrics. Of these criteria, regulatory  
20 framework and the ability to recover costs and earn returns are each given a broad rating

factor of 25.00 percent. Therefore, Moody’s assigns regulatory risk a 50.00 percent weighting in the overall assessment of business and financial risk for regulated utilities.<sup>48</sup>

S&P also identifies the regulatory framework as an important factor in credit ratings for regulated utilities, stating: “we assess regulatory advantage because the influence of the regulatory framework and regime is of critical importance. It defines the environment in which a utility operates and has a significant bearing on a utility’s financial performance.”<sup>49</sup>

S&P identifies four specific factors that it uses to assess the credit implications of the regulatory jurisdictions of investor-owned regulated utilities: (1) regulatory stability; (2) tariff-setting procedures and design; (3) financial stability; and (4) regulatory independence and insulation.<sup>50</sup>

**Q84. How does the regulatory environment in which a utility operates affect its access to and cost of capital?**

A84. The regulatory environment can significantly affect both the access to and cost of capital in several ways. First, the proportion and cost of debt capital available to utility companies are influenced by the rating agencies’ assessment of the regulatory environment. As noted by Moody’s, “[u]tility rates are set in a political/regulatory process rather than a competitive or free-market process; thus, the regulatory framework is a key determinant of the credit quality of a utility.”<sup>51</sup> Moody’s further highlighted the relevance of a stable and predictable regulatory environment to a utility’s credit quality, noting: “[t]he regulatory

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<sup>48</sup> Moody’s Investors Service, Rating Methodology: Regulated Electric and Gas Utilities, August 6, 2024, at 2.

<sup>49</sup> Standard & Poor’s Global Ratings, “Sector-Specific Corporate Methodology,” April 4, 2024, at 147.

<sup>50</sup> *Id.*

<sup>51</sup> Moody’s Investors Service, Rating Methodology: Regulated Electric and Gas Utilities, August 6, 2024, at 8.

1 framework is important because it provides the basis for decisions that affect utilities,  
 2 including rate-setting as well as the consistency and predictability of regulatory decision-  
 3 making.”<sup>52</sup>

4 **Q85. Have you conducted an analysis to compare the cost recovery mechanisms of**  
 5 **Montana-Dakota to the cost recovery mechanisms approved in the jurisdictions in**  
 6 **which the companies in your proxy group operate?**

7 A85. Yes. I have evaluated the regulatory framework in Wyoming based on three factors that  
 8 are important in terms of providing a regulated utility a reasonable opportunity to earn its  
 9 authorized ROE: (1) test year convention (*i.e.*, forecast vs. historical); (2) use of rate design  
 10 or other mechanisms that mitigate volumetric risk and stabilize revenue; and (3) prevalence  
 11 of capital cost recovery between rate cases. Each are described below and are summarized  
 12 in Exhibit No.\_\_(AEB-2), Schedule 12 and are summarized below.

13 Test Year Convention: Montana-Dakota uses a historical test year adjusted for known  
 14 and measurable changes in Wyoming, while 50.0 percent of the utility operating  
 15 subsidiaries of the companies in the proxy group use either fully forecasted or partially  
 16 forecasted test years. Forecast test years have been relied on for several years and  
 17 produce cost estimates that are more reflective of future costs, which results in more  
 18 accurate recovery of incurred costs and mitigates the regulatory lag associated with  
 19 historical test years. As Lowry, Hovde, Getachew, and Makos explain in their 2010  
 20 report, *Forward Test Years for US Electric Utilities*:

21 This report provides an in depth discussion of the test year issue. It includes  
 22 the results of empirical research which explores why the unit costs of

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<sup>52</sup> *Id.*

electric IOUs are rising and shows that utilities operating under forward test years realize higher returns on capital and have credit ratings that are materially better than those of utilities operating under historical test years. The research suggests that shifting to a future test year is a prime strategy for rebuilding utility credit ratings as insurance against an uncertain future.<sup>53</sup>

Volumetric Risk: Montana-Dakota has protection against volumetric risk in Wyoming through customer charges that recover a high percentage of the Company's fixed cost. By comparison, approximately 92 percent of the utility operating subsidiaries of the proxy group companies have some form of revenue stabilization through either decoupling, formula-based rates, and/or straight-fixed variable rate design that allow them to break the link between customer usage and revenues.

Capital Cost Recovery: As noted previously, Montana-Dakota does not have a capital tracking mechanism to recover capital investment costs between rate cases. However, approximately 71 percent of the utility operating subsidiaries of the proxy group companies have some form of capital cost recovery mechanism.

**Q86. What is the effect on Montana-Dakota of having relatively fewer timely cost recovery mechanisms?**

A86. The lack of timely cost recovery mechanisms can result in regulatory lag. Regulatory lag occurs when a regulated utility is not able to recover its just and reasonable costs of providing service to customers on a timely basis. Regulatory lag is reflected in a utility's financial performance through earnings attrition, which is the inability of the utility to earn

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<sup>53</sup> M.N. Lowry, D. Hovde, L. Getachew, and M. Makos, Forward Test Years for US Electric Utilities, prepared for Edison Electric Institute, August 2010, at 1.

its authorized ROE due to delays in the recovery of allowable costs that have been incurred to provide regulated service to customers.

**Q87. Is there evidence that Montana-Dakota has been unable to earn its authorized ROE?**

A87. Yes. As shown in Figure 11, Montana-Dakota's natural gas operations in Wyoming has significantly under-earned its authorized ROE in the last five years. Over this period, the average earned ROE on the Company's natural gas operations in Wyoming was 3.08 percent, as compared with the average authorized ROE of 9.38 percent, for an average under-earning of 558 basis points per year. Further, comparing the Company's actual earned equity return in 2023 to the yield on the 30-year Treasury bonds shown in Figure 2, demonstrates that the earned return to equity investors is currently lower than the return on risk-free investments.

**Figure 11: Montana-Dakota's Earned vs. Authorized ROE (2019-2023)**

	<b>Earned ROE</b>	<b>Authorized ROE</b>	<b>Earnings Differential (bps)</b>
2019	2.167%	9.50%	-733
2020	4.231%	9.35%	-512
2021	6.702%	9.35%	-265
2022	5.194%	9.35%	-416
2023	0.721%	9.35%	-863
<b>Average</b>	<b>3.803%</b>	<b>9.38%</b>	<b>-558</b>

**Q88. What are your conclusions regarding the perceived risks related to the regulatory environment in Wyoming?**

A88. Both Moody's and S&P have identified the supportiveness of the regulatory environment as an important consideration in developing their overall credit ratings for regulated utilities. Considering the regulatory adjustment mechanisms of the Company relative to

1 the proxy group, many of the companies in the proxy group have more timely cost recovery  
2 between rate proceedings than Montana-Dakota has in Wyoming. Moreover, the Company  
3 has significantly under-earned its authorized ROE in each of the last five years. For these  
4 reasons, I conclude that Montana-Dakota has greater than average regulatory risk relative  
5 to the proxy group.

6 **VIII. CAPITAL STRUCTURE**

7 **Q89. Is the capital structure of the Company an important consideration in the**  
8 **determination of the appropriate ROE?**

9 A89. Yes. The equity ratio is the primary indicator of financial risk for a regulated utility. All  
10 else equal, a higher debt ratio increases the risk to investors. Specifically, for debt holders,  
11 higher debt ratios result in a greater portion of the available cash flow being required to  
12 meet debt service, thereby increasing the risk associated with the payments on debt. The  
13 result of increased risk is a higher interest rate. Further, the incremental risk of a higher  
14 debt ratio is more significant for common equity shareholders, whose claim on the cash  
15 flow of the Company is secondary to debt holders. Therefore, the greater the debt service  
16 requirement, the less cash flow is available for common equity holders.

17 **Q90. What is the Company's proposed capital structure?**

18 A90. The Company proposes to establish a capital structure consisting of 50.177 percent  
19 common equity, 44.735 percent long-term debt and 5.088 percent short-term debt.

1 **Q91. Did you conduct any analysis to determine if this requested equity ratio was**  
2 **reasonable?**

3 A91. Yes. I compared the Company's proposed capital structure relative to the actual capital  
4 structures of the utility operating subsidiaries of the companies in the proxy group. The  
5 cost of equity is estimated based on the return that is derived from companies in the proxy  
6 group that are deemed to be comparable in risk to the Company; however, those companies  
7 must be publicly-traded in order to apply the cost of equity models. The operating utility  
8 subsidiaries of the proxy group companies are most risk-comparable to the Company, and  
9 thus it is reasonable to look to the average capital structure of the operating utilities of the  
10 proxy group to benchmark the equity ratios for the Company. Specifically, I have  
11 calculated the average proportion of common equity, long-term debt, preferred equity, and  
12 short-term debt for the most recent three years for each of the utility operating subsidiaries  
13 of the proxy group companies. As shown on Exhibit No.\_\_(AEB-2), Schedule 13, the  
14 common equity ratios for operating subsidiaries of the proxy group companies over the  
15 past three years ranged from 45.22 percent to 60.03 percent, with an average of 52.26  
16 percent. Therefore, Montana-Dakota's proposed equity ratio is well within the range of  
17 equity ratios for the utility operating subsidiaries of the proxy group companies, and, in  
18 fact, is below the average.

19 **Q92. Are there other factors to be considered in setting the Company's capital structure?**

20 A92. Yes, there are other factors that should be considered in setting the Company's capital  
21 structure, namely the challenges that the credit rating agencies have highlighted as placing  
22 pressure on the credit metrics for utilities.

1 For example, while Moody’s recently revised its outlook for the utility sector from  
 2 “negative” to “stable”, Moody’s continues to note that high interest rates and increased  
 3 capital spending will place pressure on credit metrics. Thus, Moody’s highlights  
 4 constructive regulatory outcomes that promote timely cost recovery as a key factor in  
 5 supporting utility credit quality.<sup>54</sup>

6 S&P also recently revised its outlook for the industry; however, S&P downgraded its  
 7 outlook from stable to negative.<sup>55</sup> S&P noted that for the fifth consecutive year it expects  
 8 downgrades will exceed upgrades with the industry facing significant risks over the near-  
 9 term as a result of physical risks due to climate change, increased levels of capital spending  
 10 and cash-flow deficits that are not being “funded in a sufficiently credit supportive  
 11 manner”.<sup>56</sup> In regard to the effect of increased capital spending, S&P noted:

12 The industry's capital spending remains at record levels, supporting  
 13 initiatives for safety, reliability, energy transition, and growth. We consider  
 14 these trends long term and expect that capital spending will only continue  
 15 to increase over this decade.

16 Accordingly, cash flow deficits have increased, pressuring the industry's  
 17 credit quality. For 2024, our base case assumes that the industry will fund  
 18 its approximate \$85 billion of cash flow deficits with about \$40 billion in  
 19 asset sales and equity issuance.

20 For 2023, the industry's actual equity issuance was considerably below our  
 21 expectations, resulting in a weakening of financial performance and credit  
 22 quality. If this trend persists, credit quality will again likely experience  
 23 pressure in 2024.<sup>57</sup>

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<sup>54</sup> Moody’s Investors Service, Outlook, “Outlook turns stable on low prices and credit-supportive regulation,” September 7, 2023.

<sup>55</sup> S&P Global Ratings, “Rising Risks: Outlook For North American Investor-Owned Regulated Utilities Weakens,” February 14, 2024.

<sup>56</sup> *Id* at 4.

<sup>57</sup> *Id.* at 6-8.

1 Fitch Ratings (“Fitch”) has stated that it is maintaining a “deteriorating outlook” on the  
 2 U.S. utility sector in 2024 based on elevated capital spending and continuing higher interest  
 3 rates that place pressure on credit metrics. Fitch notes that bill affordability will remain a  
 4 major issue for the industry that could affect future regulatory outcomes, and that while it  
 5 expects authorized ROEs to start trending up with the increase in interest rates, albeit with  
 6 a lag, given the uncertain macroeconomic environment and bill pressure on customers, the  
 7 lag could be longer than in previous cycles.<sup>58</sup>

8 The credit ratings agencies’ continued concerns over the negative effects of inflation,  
 9 higher interest rates, and increased capital expenditures underscore the importance of  
 10 maintaining adequate cash flow metrics for the Company in the context of this proceeding.

11 **Q93. Will the capital structure and ROE authorized in this proceeding affect the**  
 12 **Company’s access to capital at reasonable rates?**

13 A93. Yes. The level of earnings authorized by the Commission directly affects the Company’s  
 14 ability to fund its operations with internally-generated funds. Both bond investors and  
 15 rating agencies expect a significant portion of ongoing capital investments to be financed  
 16 with internally-generated funds. In addition, it is important to recognize that because a  
 17 utility’s investment horizon is very long, investors require the assurance of a sufficiently  
 18 high return to satisfy the long-term financing requirements of the assets placed into service.  
 19 Those assurances, which often are measured by the relationship between internally-  
 20 generated cash flows and debt (or interest expense), depend quite heavily on the capital

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<sup>58</sup> FitchRatings, “North American Utilities, Power & Gas Outlook 2024,” December 6, 2023.

1 structure. As a consequence, both the ROE and capital structure are very important to debt  
2 and equity investors, particularly given the capital market conditions discussed previously.

3 **IX. CONCLUSION AND RECOMMENDATION**

4 **Q94. What is your conclusion regarding a fair ROE for Montana-Dakota?**

5 A94. Figure 12 summarizes the results of my cost of equity analyses. Based on these results, the  
6 qualitative analyses presented in my Direct Testimony, the business and financial risks of  
7 Montana-Dakota compared to the proxy group, and current and prospective conditions in  
8 capital markets, it is my view that an ROE of 10.80 percent is reasonable and would fairly  
9 balance the interests of customers and shareholders.

1

**Figure 12: Summary of Analytical Results**

<i>Constant Growth DCF</i>			
	Minimum	Average	Maximum
	Growth Rate	Growth Rate	Growth Rate
Mean Results:			
30-Day Avg. Stock Price	8.59%	9.87%	11.30%
90-Day Avg. Stock Price	8.79%	10.06%	11.50%
180-Day Avg. Stock Price	8.95%	10.23%	11.66%
Average	8.78%	10.05%	11.49%
Median Results:			
30-Day Avg. Stock Price	8.48%	9.83%	11.33%
90-Day Avg. Stock Price	8.72%	10.05%	11.57%
180-Day Avg. Stock Price	8.86%	10.17%	11.71%
Average	8.69%	10.02%	11.54%
<i>CAPM / ECAPM / Bond Yield Risk Premium</i>			
	30-Year Treasury Bond Yield		
	Current	Near-Term	Longer-Term
	30-Day Avg	Projected	Projected
CAPM:			
Current <i>Value Line</i> Beta	11.05%	11.04%	11.07%
Current Bloomberg Beta	10.15%	10.13%	10.20%
Long-term Avg. <i>Value Line</i> Beta	10.08%	10.06%	10.13%
ECAPM:			
Current <i>Value Line</i> Beta	11.30%	11.29%	11.32%
Current Bloomberg Beta	10.62%	10.61%	10.66%
Long-term Avg. <i>Value Line</i> Beta	10.57%	10.56%	10.61%
Bond Yield Risk Premium	10.22%	10.19%	10.35%

2

3 **Q95. What is your conclusion regarding the Company's proposed capital structure?**

4 A95. The Company's proposed capital structure consisting of 50.177 percent common equity,  
5 44.735 percent long-term debt, and 5.088 percent short-term debt is reasonable when  
6 compared to the capital structures of the companies in the proxy group. Further,  
7 considering the impact of current and projected market conditions on the cash flows of

1 utilities as raised by the credit rating agencies, the Company's proposed capital structure  
2 is reasonable and should be adopted for ratemaking purposes.

3 **Q96. Does this conclude your direct testimony?**

4 A96. Yes.

## Ann E. Bulkley

### PRINCIPAL

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Boston

508.981.0866

[Ann.Bulkley@brattle.com](mailto:Ann.Bulkley@brattle.com)

With more than 25 years of experience in the energy industry, Ms. Bulkley specializes in regulatory economics for the electric and natural gas and water utility sectors, including valuation of regulated and unregulated utility assets, cost of capital, and capital structure issues.

Ms. Bulkley has extensive state and federal regulatory experience, and she has provided expert testimony on the cost of capital in nearly 100 regulatory proceedings before 32 state regulatory commissions and the Federal Energy Regulatory Commission (FERC).

In addition to her regulatory experience, Ms. Bulkley has provided valuation and appraisal services for a variety of purposes, including the sale or acquisition of utility assets, regulated ratemaking, ad valorem tax disputes, and other litigation purposes. In addition, she has experience in the areas of contract and business unit valuation, strategic alliances, market restructuring, and regulatory and litigation support.

Ms. Bulkley is a Certified General Appraiser licensed in the Commonwealth of Massachusetts and the State of New Hampshire.

Prior to joining Brattle, Ms. Bulkley was a Senior Vice President at an economic consultancy and held senior positions at several other consulting firms.

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#### AREAS OF EXPERTISE

- Regulatory Economics, Finance & Rates
- Regulatory Investigations & Enforcement
- Tax Controversy & Transfer Pricing
- Electricity Litigation & Regulatory Disputes
- M&A Litigation

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## EDUCATION

- **Boston University**  
MA in Economics
- **Simmons College**  
BA in Economics and Finance

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## PROFESSIONAL EXPERIENCE

- **The Brattle Group (2022–Present)**  
Principal
- **Concentric Energy Advisors, Inc. (2002–2021)**  
Senior Vice President  
Vice President  
Assistant Vice President  
Project Manager
- **Navigant Consulting, Inc. (1997–2002)**  
Project Manager
- **Reed Consulting Group (1995-1997)**  
Consultant- Project Manager
- **Cahners Publishing Company (1995)**  
Economist

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## SELECTED CONSULTING EXPERIENCE & EXPERT TESTIMONY

### REGULATORY ANALYSIS AND RATEMAKING

Have provided a range of advisory services relating to regulatory policy analysis and many aspects of utility ratemaking, with specific services including:

- Cost of capital and return on equity testimony, cost of service and rate design analysis and testimony, development of ratemaking strategies
- Development of merchant function exit strategies

- Analysis and program development to address residual energy supply and/or provider of last resort obligations
- Stranded costs assessment and recovery  
Performance-based ratemaking analysis and design
- Many aspects of traditional utility ratemaking (e.g., rate design, rate base valuation)

#### **COST OF CAPITAL**

Have provided expert testimony on the cost of capital and capital structure in nearly 100 regulatory proceedings before state and federal regulatory commissions in the United States.

#### **RATEMAKING**

Have assisted several clients with analysis to support investor-owned and municipal utility clients in the preparation of rate cases. Sample engagements include:

- Assisted several investor-owned and municipal clients on cost allocation and rate design issues including the development of expert testimony supporting recommended rate alternatives.
- Worked with Canadian regulatory staff to establish filing requirements for a rate review of a newly regulated electric utility. Along with analyzing and evaluating rate application, attended hearings and conducted investigation of rate application for regulatory staff and prepared, supported, and defended recommendations for revenue requirements and rates for the company. Additionally, developed rates for gas utility for transportation program and ancillary services.

#### **VALUATION**

Have provided valuation services to utility clients, unregulated generators, and private equity clients for a variety of purposes, including ratemaking, fair value, ad valorem tax, litigation and damages, and acquisition. Appraisal practices are consistent with the national standards established by the Uniform Standards of Professional Appraisal Practice.

Representative projects/clients have included:

- Prepared appraisals of electric utility transmission and distribution assets for ad valorem tax purposes.
- Prepared appraisals of hydroelectric generating facilities for ad valorem tax purposes.
- Conducted appraisals of fossil fuel generating facilities for ad valorem tax purposes.
- Conducted appraisals of generating assets for the purposes of unwinding sale-leaseback agreements.
- For a confidential utility client, prepared valuation of fossil and nuclear generation assets for financing purposes for regulated utility client.

- Conducted a strategic review of the acquisition of nuclear generation assets. Review included the evaluation of the operating costs of the facilities and the long-term liabilities associated with the assets including the decommissioning of the assets.
- Prepared a valuation of a portfolio of generation assets for a large energy utility to be used for strategic planning purposes. Valuation approach included an income approach, a real options analysis, and a risk analysis.
- Assisted clients in the restructuring of NUG contracts through the valuation of the underlying assets. Performed analysis to determine the option value of a plant in a competitively priced electricity market following the settlement of the NUG contract.
- Prepared market valuations of several purchase power contracts for large electric utilities in the sale of purchase power contracts. Assignment included an assessment of the regional power market, analysis of the underlying purchase power contracts, and a traditional discounted cash flow valuation approach, as well as a risk analysis. Analyzed bids from potential acquirers using income and risk analysis approach. Prepared an assessment of the credit issues and value at risk for the selling utility.
- Prepared appraisal of a portfolio of generating facilities for a large electric utility to be used for financing purposes.
- Conducted a valuation of regulated utility assets for the fair value rate base estimate used in electric rate proceedings in Indiana.
- Prepared an appraisal of a fleet of fossil generating assets for a large electric utility to establish the value of assets transferred from utility property.
- Conducted due diligence on an electric transmission and distribution system as part of a buy-side due diligence team.
- Provided analytical support and prepared testimony regarding the valuation of electric distribution system assets in five communities in a condemnation proceeding.
- Prepared feasibility reports analyzing the expected net benefits resulting from municipal ownership of investor-owned utility operations.
- Prepared independent analyses of proposal for the proposed government condemnation of the investor-owned utilities in Maine and the formation of a public power district.
- Valued purchase power agreements in the transfer of assets to a deregulated electric market.

#### **STRATEGIC AND FINANCIAL ADVISORY SERVICES**

Have assisted several clients across North America with analytically-based strategic planning, due diligence, and financial advisory services.

Representative projects include:

- Preparation of feasibility studies for bond issuances for municipal and district steam clients.
- Assisted in the development of a generation strategy for an electric utility. Analyzed various NERC regions to identify potential market entry points. Evaluated potential competitors and alliance partners. Assisted in the development of gas and electric price forecasts. Developed a framework for the implementation of a risk management program.
- Assisted clients in identifying potential joint venture opportunities and alliance partners. Contacted interviewed and evaluated potential alliance candidates based on company-established criteria for several LDCs and marketing companies. Worked with several LDCs and unregulated marketing companies to establish alliances to enter into the retail energy market. Prepared testimony in support of several merger cases and participated in the regulatory process to obtain approval for these mergers.
- Assisted clients in several buy-side due diligence efforts, providing regulatory insight and developing valuation recommendations for acquisitions of both electric and gas properties.

## BULKLEY TESTIMONY LISTING

SPONSOR	DATE	CASE/APPLICANT	DOCKET /CASE NO.	SUBJECT
<b>Arizona Corporation Commission</b>				
Southwest Gas Corporation	02/24	Southwest Gas Corporation	Docket No. G-01551A-23-0341	Return on Equity
UNS Electric	11/22	UNS Electric	Docket No. E-04204A-15-0251	Return on Equity
Tucson Electric Power Company	6/22	Tucson Electric Power Company	Docket No. G-01933A-22-0107	Return on Equity
Southwest Gas Corporation	12/21	Southwest Gas Corporation	Docket No. G-01551A-21-0368	Return on Equity
Arizona Public Service Company	10/19	Arizona Public Service Company	Docket No. E-01345A-19-0236	Return on Equity
Tucson Electric Power Company	04/19	Tucson Electric Power Company	Docket No. E-01933A-19-0028	Return on Equity
Tucson Electric Power Company	11/15	Tucson Electric Power Company	Docket No. E-01933A-15-0322	Return on Equity
UNS Electric	05/15	UNS Electric	Docket No. E-04204A-15-0142	Return on Equity
UNS Electric	12/12	UNS Electric	Docket No. E-04204A-12-0504	Return on Equity
<b>Arkansas Public Service Commission</b>				
Oklahoma Gas and Electric Co	10/21	Oklahoma Gas and Electric Co	Docket No. D-18-046-FR	Return on Equity
Arkansas Oklahoma Gas Corporation	10/13	Arkansas Oklahoma Gas Corporation	Docket No. 13-078-U	Return on Equity
<b>California Public Utilities Commission</b>				
PacifiCorp, d/b/a Pacific Power	5/22	PacifiCorp, d/b/a Pacific Power	Docket No. A-22-05-006	Return on Equity
San Jose Water Company	05/21	San Jose Water Company	A2105004	Return on Equity
<b>Colorado Public Utilities Commission</b>				

SPONSOR	DATE	CASE/APPLICANT	DOCKET /CASE NO.	SUBJECT
Public Service Company of Colorado	01/24	Public Service Company of Colorado	Docket No. 24AL- ____G	Return on Equity
Public Service Company of Colorado	11/22	Public Service Company of Colorado	Docket No. 22AL-0530E	Return on Equity
Public Service Company of Colorado	01/22	Public Service Company of Colorado	Docket No. 22AL-0046G	Return on Equity
Public Service Company of Colorado	07/21	Public Service Company of Colorado	21AL-0317E	Return on Equity
Public Service Company of Colorado	02/20	Public Service Company of Colorado	20AL-0049G	Return on Equity
Public Service Company of Colorado	05/19	Public Service Company of Colorado	19AL-0268E	Return on Equity
Public Service Company of Colorado	01/19	Public Service Company of Colorado	19AL-0063ST	Return on Equity
Atmos Energy Corporation	05/15	Atmos Energy Corporation	Docket No. 15AL-0299G	Return on Equity
Atmos Energy Corporation	04/14	Atmos Energy Corporation	Docket No. 14AL-0300G	Return on Equity
Atmos Energy Corporation	05/13	Atmos Energy Corporation	Docket No. 13AL-0496G	Return on Equity
<b>Connecticut Public Utilities Regulatory Authority</b>				
The Southern Connecticut Gas Company	11/23	The Southern Connecticut Gas Company	Docket No. 23-11-02	Return on Equity
Connecticut Natural Gas Corporation	11/23	Connecticut Natural Gas Corporation	Docket No. 23-11-02	Return on Equity
Connecticut Water Company	10/23	Connecticut Water Company	Docket No. 23-08-32	Return on Equity
United Illuminating	09/22	United Illuminating	Docket No. 22-08-08	Return on Equity
United Illuminating	05/21	United Illuminating	Docket No. 17-12-03RE11	Return on Equity
Connecticut Water Company	01/21	Connecticut Water Company	Docket No. 20-12-30	Return on Equity
Connecticut Natural Gas Corporation	06/18	Connecticut Natural Gas Corporation	Docket No. 18-05-16	Return on Equity

SPONSOR	DATE	CASE/APPLICANT	DOCKET /CASE NO.	SUBJECT
Yankee Gas Services Co. d/b/a Eversource Energy	06/18	Yankee Gas Services Co. d/b/a Eversource Energy	Docket No. 18-05-10	Return on Equity
The Southern Connecticut Gas Company	06/17	The Southern Connecticut Gas Company	Docket No. 17-05-42	Return on Equity
The United Illuminating Company	07/16	The United Illuminating Company	Docket No. 16-06-04	Return on Equity
<b>Federal Energy Regulatory Commission</b>				
Sea Robin Pipeline	12/22	Sea Robin Pipeline	Docket No. RP22-____	Return on Equity
Northern Natural Gas Company	07/22	Northern Natural Gas Company	Docket No. RP22-____	Return on Equity
Transwestern Pipeline Company, LLC	07/22	Transwestern Pipeline Company, LLC	Docket No. RP22-____	Return on Equity
Florida Gas Transmission	02/21	Florida Gas Transmission	Docket No. RP21-441	Return on Equity
TransCanyon	01/21	TransCanyon	Docket No. ER21-1065	Return on Equity
Duke Energy	12/20	Duke Energy	Docket No. EL21-9-000	Return on Equity
Wisconsin Electric Power Company	08/20	Wisconsin Electric Power Company	Docket No. EL20-57-000	Return on Equity
Panhandle Eastern Pipe Line Company, LP	10/19	Panhandle Eastern Pipe Line Company, LP	Docket Nos. RP19-78-000 RP19-78-001	Return on Equity
Panhandle Eastern Pipe Line Company, LP	08/19	Panhandle Eastern Pipe Line Company, LP	Docket Nos. RP19-1523	Return on Equity
Sea Robin Pipeline Company LLC	11/18	Sea Robin Pipeline Company LLC	Docket# RP19-352-000	Return on Equity
Tallgrass Interstate Gas Transmission	10/15	Tallgrass Interstate Gas Transmission	RP16-137	Return on Equity
<b>Idaho Public Utilities Commission</b>				
PacifiCorp d/b/a Rocky Mountain Power	05/24	PacifiCorp d/b/a Rocky Mountain Power	Case No. PAC-E-24-04	Return on Equity
PacifiCorp d/b/a Rocky Mountain Power	05/21	PacifiCorp d/b/a Rocky Mountain Power	Case No. PAC-E-24-04	Return on Equity

SPONSOR	DATE	CASE/APPLICANT	DOCKET /CASE NO.	SUBJECT
Intermountain Gas Co	12/22	Intermountain Gas Co	C-INT-G-22-07	Return on Equity
PacifiCorp d/b/a Rocky Mountain Power	05/21	PacifiCorp d/b/a Rocky Mountain Power	Case No. PAC-E-21-07	Return on Equity
<b>Illinois Commerce Commission</b>				
Illinois American Water	01/24	Illinois American Water	Docket No. 24-0097	Return on Equity
Peoples Gas Light & Coke Company	01/23	Peoples Gas Light & Coke Company	D-23-0069	Return on Equity
North Shore Gas Company	01/23	North Shore Gas Company	D-23-0068	Return on Equity
Illinois American Water	02/22	Illinois American Water	Docket No. 22-0210	Return on Equity
North Shore Gas Company	02/21	North Shore Gas Company	No. 20-0810	Return on Equity
<b>Indiana Utility Regulatory Commission</b>				
Ohio Valley Gas Corporation and Ohio Valley Gas, Inc.	02/24	Ohio Valley Gas Corporation and Ohio Valley Gas, Inc.	Cause No. 46011	Return on Equity
Southern Indiana Gas and Electric Company d/b/a CenterPoint Energy Indiana South	12/23	Southern Indiana Gas and Electric Company d/b/a CenterPoint Energy Indiana South	IURC Cause No. 45990	Return on Equity
Indiana Michigan Power Co.	08/23	Indiana Michigan Power Co.	IURC Cause No. 45933	Return on Equity
Indiana American Water Company	03/23	Indiana and Michigan American Water Company	IURC Cause No. 45870	Return on Equity
Indiana Michigan Power Co.	07/21	Indiana Michigan Power Co.	IURC Cause No. 45576	Return on Equity
Indiana Gas Company Inc.	12/20	Indiana Gas Company Inc.	IURC Cause No. 45468	Return on Equity
Southern Indiana Gas and Electric Company	10/20	Southern Indiana Gas and Electric Company	IURC Cause No. 45447	Return on Equity

SPONSOR	DATE	CASE/APPLICANT	DOCKET /CASE NO.	SUBJECT
Indiana and Michigan American Water Company	09/18	Indiana and Michigan American Water Company	IURC Cause No. 45142	Return on Equity
Indianapolis Power and Light Company	12/17	Indianapolis Power and Light Company	Cause No. 45029	Fair Value
Northern Indiana Public Service Company	09/17	Northern Indiana Public Service Company	Cause No. 44988	Fair Value
Indianapolis Power and Light Company	12/16	Indianapolis Power and Light Company	Cause No.44893	Fair Value
Northern Indiana Public Service Company	10/15	Northern Indiana Public Service Company	Cause No. 44688	Fair Value
Indianapolis Power and Light Company	09/15	Indianapolis Power and Light Company	Cause No. 44576 Cause No. 44602	Fair Value
Kokomo Gas and Fuel Company	09/10	Kokomo Gas and Fuel Company	Cause No. 43942	Fair Value
Northern Indiana Fuel and Light Company, Inc.	09/10	Northern Indiana Fuel and Light Company, Inc.	Cause No. 43943	Fair Value
<b>Iowa Department of Commerce Utilities Board</b>				
Iowa-American Water Company	04/24	Iowa-American Water Company	Docket No. RPU-2024-000_	Return on Equity
MidAmerican Energy Company	06/23	MidAmerican Energy Company	Docket No. RPU-2023-___	Return on Equity
MidAmerican Energy Company	01/22	MidAmerican Energy Company	Docket No. RPU-2022-0001	Return on Equity
Iowa-American Water Company	08/20	Iowa-American Water Company	Docket No. RPU-2020-0001	Return on Equity
<b>Kansas Corporation Commission</b>				
Evergy Kansas	04/23	Evergy Kansas	Docket No. 23-EKCE-775-RTS	Return on Equity
Atmos Energy Corporation	08/15	Atmos Energy Corporation	Docket No. 16-ATMG-079-RTS	Return on Equity
<b>Kentucky Public Service Commission</b>				

SPONSOR	DATE	CASE/APPLICANT	DOCKET /CASE NO.	SUBJECT
Kentucky American Water Company	06/23	Kentucky American Water Company	Docket No. 2023-____	Return on Equity
Kentucky American Water Company	11/18	Kentucky American Water Company	Docket No. 2018-00358	Return on Equity
<b>Maine Public Utilities Commission</b>				
Central Maine Power	08/22	Central Maine Power	Docket No. 2022-00152	Return on Equity
Central Maine Power	10/18	Central Maine Power	Docket No. 2018-194	Return on Equity
<b>Maryland Public Service Commission</b>				
Maryland American Water Company	06/18	Maryland American Water Company	Case No. 9487	Return on Equity
<b>Massachusetts Appellate Tax Board</b>				
Hopkinton LNG Corporation	03/20	Hopkinton LNG Corporation	Docket No.	Valuation of LNG Facility
FirstLight Hydro Generating Company	06/17	FirstLight Hydro Generating Company	Docket No. F-325471 Docket No. F-325472 Docket No. F-325473 Docket No. F-325474	Valuation of Electric Generation Assets
<b>Massachusetts Department of Public Utilities</b>				
Massachusetts Electric Company Nantucket Electric Company d/b/a National Grid	11/23	Massachusetts Electric Company Nantucket Electric Company d/b/a National Grid	DPU 23-150	Return on Equity
National Grid USA	11/20	Boston Gas Company	DPU 20-120	Return on Equity
Berkshire Gas Company	05/18	Berkshire Gas Company	DPU 18-40	Return on Equity
Unitil Corporation	01/04	Fitchburg Gas and Electric	DTE 03-52	Integrated Resource Plan; Gas Demand Forecast
<b>Michigan Public Service Commission</b>				
Upper Michigan Energy Resources Corporation	05/24	Upper Michigan Energy Resources Corporation	Case No. U-21541	Return on Equity

SPONSOR	DATE	CASE/APPLICANT	DOCKET /CASE NO.	SUBJECT
Michigan Gas Utilities Corporation	03/24	Michigan Gas Utilities Corporation	Case No. U-21540	Return on Equity
Indiana Michigan Power Co.	09/23	Indiana Michigan Power Co.	Case No. U-21461	Return on Equity
Michigan Gas Utilities Corporation	03/23	Michigan Gas Utilities Corporation	Case No. U-21366	Return on Equity
Michigan Gas Utilities Corporation	03/21	Michigan Gas Utilities Corporation	Case No. U-20718	Return on Equity
Wisconsin Electric Power Company	12/11	Wisconsin Electric Power Company	Case No. U-16830	Return on Equity
<b>Michigan Tax Tribunal</b>				
New Covert Generating Co., LLC.	03/18	The Township of New Covert Michigan	MTT Docket No. 000248TT and 16-001888-TT	Valuation of Electric Generation Assets
Covert Township	07/14	New Covert Generating Co., LLC.	Docket No. 399578	Valuation of Electric Generation Assets
<b>Minnesota Public Utilities Commission</b>				
ALLETE, Inc. d/b/a Minnesota Power	11/23	Allete, Inc. d/b/a Minnesota Power	D-E-015/GR-23-155	Return on Equity
CenterPoint Energy Resources	11/23	CenterPoint Energy Resources	D-G-008/GR-23-173	Return on Equity
Minnesota Energy Resources Corporation	11/22	Minnesota Energy Resources Corporation	Docket No. G011/GR-22-504	Return on Equity
CenterPoint Energy Resources	11/21	CenterPoint Energy Resources	D-G-008/GR-21-435	Return on Equity
ALLETE, Inc. d/b/a Minnesota Power	11/21	Allete, Inc. d/b/a Minnesota Power	D-E-015/GR-21-630	Return on Equity
Otter Tail Power Company	11/20	Otter Tail Power Company	E017/GR-20-719	Return on Equity
ALLETE, Inc. d/b/a Minnesota Power	11/19	Allete, Inc. d/b/a Minnesota Power	E015/GR-19-442	Return on Equity

SPONSOR	DATE	CASE/APPLICANT	DOCKET /CASE NO.	SUBJECT
CenterPoint Energy Resources Corporation d/b/a CenterPoint Energy Minnesota Gas	10/19	CenterPoint Energy Resources Corporation d/b/a CenterPoint Energy Minnesota Gas	G-008/GR-19-524	Return on Equity
Great Plains Natural Gas Co.	09/19	Great Plains Natural Gas Co.	Docket No. G004/GR-19-511	Return on Equity
Minnesota Energy Resources Corporation	10/17	Minnesota Energy Resources Corporation	Docket No. G011/GR-17-563	Return on Equity
<b>Missouri Public Service Commission</b>				
Ameren Missouri	06/24	Ameren Missouri	File No. ER-2024-0319	Return on Equity
Evergy Missouri West	02/24	Evergy Missouri West	File No. ER-2024-0189	Return on Equity
Ameren Missouri	08/22	Ameren Missouri	File No. ER-2022-0337	Return on Equity
Missouri American Water Company	07/22	Missouri American Water Company	Case No. WR-2022-0303 Case No. SR-2022-0304	Return on Equity
Evergy Missouri West	01/22	Evergy Missouri West	File No. ER-2022-0130	Return on Equity
Evergy Missouri Metro	01/22	Evergy Missouri Metro	File No. ER-2022-0129	Return on Equity
Ameren Missouri	03/21	Ameren Missouri	Docket No. ER-2021-0240 Docket No. GR-2021-0241	Return on Equity
Missouri American Water Company	06/20	Missouri American Water Company	Case No. WR-2020-0344 Case No. SR-2020-0345	Return on Equity
Missouri American Water Company	06/17	Missouri American Water Company	Case No. WR-17-0285 Case No. SR-17-0286	Return on Equity
<b>Montana Public Service Commission</b>				

SPONSOR	DATE	CASE/APPLICANT	DOCKET /CASE NO.	SUBJECT
Montana-Dakota Utilities Co.	11/22	Montana-Dakota Utilities Co.	D2022.11.099	Return on Equity
Montana-Dakota Utilities Co.	06/20	Montana-Dakota Utilities Co.	D2020.06.076	Return on Equity
Montana-Dakota Utilities Co.	09/18	Montana-Dakota Utilities Co.	D2018.9.60	Return on Equity
<b>Public Utilities Commission of Nevada</b>				
Sierra Pacific Power Company d/b/a NV Energy	02/24	Sierra Pacific Power Company d/b/a NV Energy	24-02026	Return on Equity
Nevada Power Company d/b/a NV Energy	06/23	Nevada Power Company d/b/a NV Energy	23-06007	Return on Equity
Nevada Power Company d/b/a NV Energy	03/23	Nevada Power Company d/b/a NV Energy	22-03028	Merger benefits
<b>New Hampshire - Board of Tax and Land Appeals</b>				
Liberty Utilities (EnergyNorth Natural Gas)	07/23	Liberty Utilities (EnergyNorth Natural Gas)	Docket No. DG 23-067	Return on Equity
Liberty Utilities (Granite State Electric)	05/23	Liberty Utilities (Granite State Electric)	Docket No. DE 23-039	Return on Equity
Public Service Company of New Hampshire d/b/a Eversource Energy	11/19 12/19	Public Service Company of New Hampshire d/b/a Eversource Energy	Master Docket No. 28873-14-15-16-17PT	Valuation of Utility Property and Generating Assets
<b>New Hampshire Public Utilities Commission</b>				
Public Service Company of New Hampshire	05/19	Public Service Company of New Hampshire	DE-19-057	Return on Equity
<b>New Hampshire-Merrimack County Superior Court</b>				
Northern New England Telephone Operations, LLC d/b/a FairPoint Communications, NNE	04/18	Northern New England Telephone Operations, LLC d/b/a FairPoint Communications, NNE	220-2012-CV-1100	Valuation of Utility Property

SPONSOR	DATE	CASE/APPLICANT	DOCKET /CASE NO.	SUBJECT
<b>New Hampshire-Rockingham Superior Court</b>				
Eversource Energy	05/18	Public Service Commission of New Hampshire	218-2016-CV-00899 218-2017-CV-00917	Valuation of Utility Property
<b>New Jersey Board of Public Utilities</b>				
New Jersey American Water Company, Inc.	02/24	New Jersey American Water Company, Inc.	WR2401056	Return on Equity
Elizabethtown Gas Company	2/24	Elizabethtown Gas Company	GR24020158	Return on Equity
Public Service Electric and Gas Company	12/23	Public Service Electric and Gas Company	ER23120924 GR23120925	Return on Equity
New Jersey American Water Company, Inc.	01/22	New Jersey American Water Company, Inc.	WR22010019	Return on Equity
Public Service Electric and Gas Company	10/20	Public Service Electric and Gas Company	EO18101115	Return on Equity
New Jersey American Water Company, Inc.	12/19	New Jersey American Water Company, Inc.	WR19121516	Return on Equity
Public Service Electric and Gas Company	04/19	Public Service Electric and Gas Company	EO18060629 GO18060630	Return on Equity
Public Service Electric and Gas Company	02/18	Public Service Electric and Gas Company	GR17070776	Return on Equity
Public Service Electric and Gas Company	01/18	Public Service Electric and Gas Company	ER18010029 GR18010030	Return on Equity
<b>New Mexico Public Regulation Commission</b>				
Southwestern Public Service Company	07/19	Southwestern Public Service Company	19-00170-UT	Return on Equity
Southwestern Public Service Company	10/17	Southwestern Public Service Company	Case No. 17-00255-UT	Return on Equity
Southwestern Public Service Company	12/16	Southwestern Public Service Company	Case No. 16-00269-UT	Return on Equity
Southwestern Public Service Company	10/15	Southwestern Public Service Company	Case No. 15-00296-UT	Return on Equity

SPONSOR	DATE	CASE/APPLICANT	DOCKET /CASE NO.	SUBJECT
Southwestern Public Service Company	06/15	Southwestern Public Service Company	Case No. 15-00139-UT	Return on Equity
<b>New York State Department of Public Service</b>				
Liberty Utilities (New York Water)	5/23	Liberty Utilities (New York Water)	Case 23-W-0235	Return on Equity
New York State Electric and Gas Company	05/22	New York State Electric and Gas Company	22-E-0317	Return on Equity
Rochester Gas and Electric		Rochester Gas and Electric	22-G-0318	
			22-E-0319	
			22-G-0320	
Corning Natural Gas Corporation	07/21	Corning Natural Gas Corporation	Case No. 21-G-0394	Return on Equity
Central Hudson Gas and Electric Corporation	08/20	Central Hudson Gas and Electric Corporation	Electric 20-E-0428 Gas 20-G-0429	Return on Equity
Niagara Mohawk Power Corporation	07/20	National Grid USA	Case No. 20-E-0380 20-G-0381	Return on Equity
Corning Natural Gas Corporation	02/20	Corning Natural Gas Corporation	Case No. 20-G-0101	Return on Equity
New York State Electric and Gas Company	05/19	New York State Electric and Gas Company	19-E-0378	Return on Equity
Rochester Gas and Electric		Rochester Gas and Electric	19-G-0379	
			19-E-0380	
			19-G-0381	
Brooklyn Union Gas Company d/b/a National Grid NY KeySpan Gas East Corporation d/b/a National Grid	04/19	Brooklyn Union Gas Company d/b/a National Grid NY KeySpan Gas East Corporation d/b/a National Grid	19-G-0309 19-G-0310	Return on Equity
Central Hudson Gas and Electric Corporation	07/17	Central Hudson Gas and Electric Corporation	Electric 17-E-0459 Gas 17-G-0460	Return on Equity
Niagara Mohawk Power Corporation	04/17	National Grid USA	Case No. 17-E-0238 17-G-0239	Return on Equity
Corning Natural Gas Corporation	06/16	Corning Natural Gas Corporation	Case No. 16-G-0369	Return on Equity

SPONSOR	DATE	CASE/APPLICANT	DOCKET /CASE NO.	SUBJECT
National Fuel Gas Company	04/16	National Fuel Gas Company	Case No. 16-G-0257	Return on Equity
KeySpan Energy Delivery	01/16	KeySpan Energy Delivery	Case No. 15-G-0058 Case No. 15-G-0059	Return on Equity
New York State Electric and Gas Company Rochester Gas and Electric	05/15	New York State Electric and Gas Company Rochester Gas and Electric	Case No. 15-E-0283 Case No. 15-G-0284 Case No. 15-E-0285 Case No. 15-G-0286	Return on Equity
<b>North Dakota Public Service Commission</b>				
Otter Tail Power Company	11/23	Otter Tail Power Company	Case No. PU-23-____	Return on Equity
Montana-Dakota Utilities Co.	11/23	Montana-Dakota Utilities Co.	Case No. PU-23-____	Return on Equity
Montana-Dakota Utilities Co.	05/22	Montana-Dakota Utilities Co.	C-PU-22-194	Return on Equity
Montana-Dakota Utilities Co.	08/20	Montana-Dakota Utilities Co.	C-PU-20-379	Return on Equity
Northern States Power Company	12/12	Northern States Power Company	C-PU-12-813	Return on Equity
Northern States Power Company	12/10	Northern States Power Company	C-PU-10-657	Return on Equity
<b>Oklahoma Corporation Commission</b>				
Oklahoma Gas & Electric	12/23	Oklahoma Gas & Electric	Cause No. PUD2023-000087	Return on Equity
Oklahoma Gas & Electric	12/21	Oklahoma Gas & Electric	Cause No. PUD 202100164	Return on Equity
Arkansas Oklahoma Gas Corporation	01/13	Arkansas Oklahoma Gas Corporation	Cause No. PUD 201200236	Return on Equity
<b>Oregon Public Service Commission</b>				
PacifiCorp d/b/a Pacific Power & Light	02/24	PacifiCorp d/b/a Pacific Power & Light	Docket No. UE-433	Return on Equity
PacifiCorp d/b/a Pacific Power & Light	03/22	PacifiCorp d/b/a Pacific Power & Light	Docket No. UE-399	Return on Equity

SPONSOR	DATE	CASE/APPLICANT	DOCKET /CASE NO.	SUBJECT
PacifiCorp d/b/a Pacific Power & Light	02/20	PacifiCorp d/b/a Pacific Power & Light	Docket No. UE-374	Return on Equity
<b>Pennsylvania Public Utility Commission</b>				
American Water Works Company Inc.	11/23	Pennsylvania-American Water Company	Docket No. R-2023-3043189 (water) Docket No. R-2023-3043190 (wastewater)	Return on Equity
American Water Works Company Inc.	04/22	Pennsylvania-American Water Company	Docket No. R-2020-3031672 (water) Docket No. R-2020-3031673 (wastewater)	Return on Equity
American Water Works Company Inc.	04/20	Pennsylvania-American Water Company	Docket No. R-2020-3019369 (water) Docket No. R-2020-3019371 (wastewater)	Return on Equity
American Water Works Company Inc.	04/17	Pennsylvania-American Water Company	Docket No. R-2017-2595853	Return on Equity
<b>South Dakota Public Utilities Commission</b>				
MidAmerican Energy Company	05/22	MidAmerican Energy Company	D-NG22-005	Return on Equity
Northern States Power Company	06/14	Northern States Power Company	Docket No. EL14-058	Return on Equity
<b>Texas Public Utility Commission</b>				
CenterPoint Energy Houston	03/24	CenterPoint Energy Houston	D-56211	Return on Equity
AEP Texas	02/24	AEP Texas	D-56165	Return on Equity
Entergy Texas, Inc.	07/22	Entergy Texas, Inc.	D-53719	Return on Equity
Southwestern Public Service Commission	08/19	Southwestern Public Service Commission	Docket No. D-49831	Return on Equity
Southwestern Public Service Company	01/14	Southwestern Public Service Company	Docket No. 42004	Return on Equity
<b>Texas Railroad Commission</b>				

SPONSOR	DATE	CASE/APPLICANT	DOCKET /CASE NO.	SUBJECT
CenterPoint Energy Entex and CenterPoint Energy Texas Gas	10/23	CenterPoint Energy Entex and CenterPoint Energy Texas Gas	2023 Texas Division Rate Case Case No. OS-23-00015513	Return on Equity
<b>Utah Public Service Commission</b>				
PacifiCorp d/b/a Rocky Mountain Power	06/24	PacifiCorp d/b/a Rocky Mountain Power	Docket No. 24-035-04	Return on Equity
PacifiCorp d/b/a Rocky Mountain Power	05/20	PacifiCorp d/b/a Rocky Mountain Power	Docket No. 20-035-04	Return on Equity
<b>Virginia State Corporation Commission</b>				
Virginia American Water Company, Inc.	11/23	Virginia American Water Company, Inc.	Docket No. PUR-2023-00194	Return on Equity
Virginia American Water Company, Inc.	11/21	Virginia American Water Company, Inc.	Docket No. PUR-2021-00255	Return on Equity
Virginia American Water Company, Inc.	11/18	Virginia American Water Company, Inc.	Docket No. PUR-2018-00175	Return on Equity
<b>Washington Utilities Transportation Commission</b>				
Cascade Natural Gas Corporation	03/24	Cascade Natural Gas Corporation	Docket No. UG-240008	Return on Equity
Puget Sound Energy Inc.	02/24	Puget Sound Energy Inc.	Docket No. UE-240004 UG-240005	Return on Equity
PacifiCorp d/b/a Pacific Power & Light	03/23	PacifiCorp d/b/a Pacific Power & Light	Docket No. UE-230172	Return on Equity
Cascade Natural Gas Corporation	06/20	Cascade Natural Gas Corporation	Docket No. UG-200568	Return on Equity
PacifiCorp d/b/a Pacific Power & Light	12/19	PacifiCorp d/b/a Pacific Power & Light	Docket No. UE-191024	Return on Equity
Cascade Natural Gas Corporation	04/19	Cascade Natural Gas Corporation	Docket No. UG-190210	Return on Equity
<b>West Virginia Public Service Commission</b>				

SPONSOR	DATE	CASE/APPLICANT	DOCKET /CASE NO.	SUBJECT
West Virginia American Water Company	05/23	West Virginia American Water Company	Case No. 23-0383-W-42T	Return on Equity
West Virginia American Water Company	04/21	West Virginia American Water Company	Case No. 21-02369-W-42T	Return on Equity
West Virginia American Water Company	04/18	West Virginia American Water Company	Case No. 18-0573-W-42T Case No. 18-0576-S-42T	Return on Equity
<b>Wisconsin Public Service Commission</b>				
Wisconsin Power and Light	04/24	Wisconsin Power and Light	Docket No. 6680-UR-128	Return on Equity
Wisconsin Electric Power Company and Wisconsin Gas LLC	04/24	Wisconsin Electric Power Company and Wisconsin Gas LLC	Docket No. 05-UR-111	Return on Equity
Wisconsin Power and Light	05/23	Wisconsin Power and Light	Docket No. 6680-UR-124	Return on Equity
Wisconsin Electric Power Company and Wisconsin Gas LLC	04/22	Wisconsin Electric Power Company and Wisconsin Gas LLC	Docket No. 05-UR-110	Return on Equity
Wisconsin Public Service Corp.	04/22	Wisconsin Public Service Corp.	6690-UR-127	Return on Equity
Alliant Energy		Alliant Energy		Return on Equity
Wisconsin Electric Power Company and Wisconsin Gas LLC	03/19	Wisconsin Electric Power Company and Wisconsin Gas LLC	Docket No. 05-UR-109	Return on Equity
Wisconsin Public Service Corp.	03/19	Wisconsin Public Service Corp.	6690-UR-126	Return on Equity
<b>Wyoming Public Service Commission</b>				
PacifiCorp d/b/a Rocky Mountain Power	08/24	PacifiCorp d/b/a Rocky Mountain Power	Docket No. 20000-671-ER-24	Return on Equity
PacifiCorp d/b/a Rocky Mountain Power	02/23	PacifiCorp d/b/a Rocky Mountain Power	Docket No. 20000-633-ER-23	Return on Equity
PacifiCorp d/b/a Rocky Mountain Power	03/20	PacifiCorp d/b/a Rocky Mountain Power	Docket No. 20000-578-ER-20	Return on Equity

SPONSOR	DATE	CASE/APPLICANT	DOCKET /CASE NO.	SUBJECT
Montana-Dakota Utilities Co.	05/19	Montana-Dakota Utilities Co.	30013-351-GR-19	Return on Equity

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#### CERTIFICATIONS/ACCREDITATIONS

Certified General Appraiser, licensed in the Commonwealth of Massachusetts

**COST OF EQUITY ANALYSES  
SUMMARY OF RESULTS**

***Constant Growth DCF***

	Minimum Growth Rate	Average Growth Rate	Maximum Growth Rate
Mean Results:			
30-Day Avg. Stock Price	8.59%	9.87%	11.30%
90-Day Avg. Stock Price	8.79%	10.06%	11.50%
180-Day Avg. Stock Price	8.95%	10.23%	11.66%
Average	8.78%	10.05%	11.49%
Median Results:			
30-Day Avg. Stock Price	8.48%	9.83%	11.33%
90-Day Avg. Stock Price	8.72%	10.05%	11.57%
180-Day Avg. Stock Price	8.86%	10.17%	11.71%
Average	8.69%	10.02%	11.54%

***CAPM / ECAPM / Bond Yield Risk Premium***

	30-Year Treasury Bond Yield		
	Current 30-Day Avg	Near-Term Projected	Longer-Term Projected
CAPM:			
Current <i>Value Line</i> Beta	11.05%	11.04%	11.07%
Current Bloomberg Beta	10.15%	10.13%	10.20%
Long-term Avg. <i>Value Line</i> Beta	10.08%	10.06%	10.13%
ECAPM:			
Current <i>Value Line</i> Beta	11.30%	11.29%	11.32%
Current Bloomberg Beta	10.62%	10.61%	10.66%
Long-term Avg. <i>Value Line</i> Beta	10.57%	10.56%	10.61%
Bond Yield Risk Premium	10.22%	10.19%	10.35%

## PROXY GROUP SCREENING DATA AND RESULTS

		[1]	[2]	[3]	[4]	[5]	[6]	[7]
Company	Ticker	Dividends	S&P Credit Rating Between BBB- and AAA	Covered by More Than 1 Analyst	Positive Growth Rates from at least two sources (Value Line, Yahoo! First Call, and Zacks)	% Regulated Operating Income > 70%	% Regulated Natural Gas Operating Income > 60%	Announced Merger
Atmos Energy Corporation	ATO	Yes	A-	Yes	Yes	100.00%	66.30%	No
NiSource Inc.	NI	Yes	BBB+	Yes	Yes	99.89%	67.83%	No
Northwest Natural Gas Company	NWN	Yes	A	Yes	Yes	100.00%	90.55%	No
ONE Gas, Inc.	OGS	Yes	A-	Yes	Yes	100.00%	100.00%	No
Southwest Gas Corporation	SWX	Yes	BBB-	Yes	Yes	86.75%	90.89%	No
Spire, Inc.	SR	Yes	BBB+	Yes	Yes	83.38%	100.00%	No

## Notes:

[1] Bloomberg Professional

[2] Bloomberg Professional

[3] Yahoo! Finance and Zacks

[4] Yahoo! Finance, Value Line Investment Survey, and Zacks

[5] Form 10-K's for 2023, 2022, and 2021

[6] Form 10-K's for 2023, 2022, and 2021

[7] S&amp;P Capital IQ Pro Financial News Releases

## 30-DAY CONSTANT GROWTH DCF

		[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]
Company	Ticker	Annualized Dividend	Stock Price	Dividend Yield	Expected Dividend Yield	Value Line Projected EPS Growth Rate	Yahoo! Finance Projected EPS Growth Rate	Zacks Projected EPS Growth Rate	Average Projected EPS Growth Rate	Cost of Equity: Minimum Growth Rate	Cost of Equity: Mean Growth Rate	Cost of Equity: Maximum Growth Rate
Atmos Energy Corporation	ATO	\$3.22	\$133.50	2.41%	2.50%	7.00%	7.40%	7.00%	7.13%	9.50%	9.63%	9.90%
NiSource Inc.	NI	\$1.06	\$33.46	3.17%	3.30%	9.50%	7.70%	7.00%	8.07%	10.28%	11.36%	12.82%
Northwest Natural Gas Company	NWN	\$1.95	\$39.87	4.89%	5.00%	6.50%	2.80%	n/a	4.65%	7.76%	9.65%	11.55%
ONE Gas, Inc.	OGS	\$2.64	\$70.80	3.73%	3.81%	3.50%	5.00%	5.00%	4.50%	7.29%	8.31%	8.82%
Southwest Gas Corporation	SWX	\$2.48	\$72.18	3.44%	3.55%	10.00%	4.00%	6.00%	6.67%	7.50%	10.22%	13.61%
Spire, Inc.	SR	\$3.02	\$65.59	4.60%	4.73%	4.50%	6.36%	5.00%	5.29%	9.21%	10.01%	11.11%
Mean		\$2.40	\$69.23	3.71%	3.81%	6.83%	5.54%	6.00%	6.05%	8.59%	9.87%	11.30%
Median		\$2.56	\$68.20	3.58%	3.68%	6.75%	5.68%	6.00%	5.98%	8.48%	9.83%	11.33%

## Notes:

[1] Bloomberg Professional as of September 30, 2024

[2] Bloomberg Professional 30-day average as of September 30, 2024

[3] Equals [1]/[2]

[4] Equals [3] x (1 + 0.5 x [8])

[5] Value Line

[6] Yahoo! Finance

[7] Zacks

[8] Equals average of [5], [6], [7]

[9] Equals [3] x (1 + 0.5 x (min([5], [6], [7])) + (min([5], [6], [7])))

[10] Equals [4] + [8]

[11] Equals [3] x (1 + 0.5 x (max([5], [6], [7])) + (max([5], [6], [7])))

## 90-DAY CONSTANT GROWTH DCF

		[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]
Company	Ticker	Annualized Dividend	Stock Price	Dividend Yield	Expected Dividend Yield	Value Line Projected EPS Growth Rate	Yahoo! Finance Projected EPS Growth Rate	Zacks Projected EPS Growth Rate	Average Projected EPS Growth Rate	Cost of Equity: Minimum Growth Rate	Cost of Equity: Mean Growth Rate	Cost of Equity: Maximum Growth Rate
Atmos Energy Corporation	ATO	3.22	\$124.16	2.59%	2.69%	7.00%	7.40%	7.00%	7.13%	9.68%	9.82%	10.09%
NiSource Inc.	NI	1.06	\$30.78	3.44%	3.58%	9.50%	7.70%	7.00%	8.07%	10.56%	11.65%	13.11%
Northwest Natural Gas Company	NWN	1.95	\$37.96	5.14%	5.26%	6.50%	2.80%	n/a	4.65%	8.01%	9.91%	11.80%
ONE Gas, Inc.	OGS	2.64	\$66.14	3.99%	4.08%	3.50%	5.00%	5.00%	4.50%	7.56%	8.58%	9.09%
Southwest Gas Corporation	SWX	2.48	\$72.50	3.42%	3.53%	10.00%	4.00%	6.00%	6.67%	7.49%	10.20%	13.59%
Spire, Inc.	SR	3.02	\$62.70	4.82%	4.94%	4.50%	6.36%	5.00%	5.29%	9.42%	10.23%	11.33%
Mean		\$2.40	\$65.71	3.90%	4.01%	6.83%	5.54%	6.00%	6.05%	8.79%	10.06%	11.50%
Median		\$2.56	\$64.42	3.72%	3.83%	6.75%	5.68%	6.00%	5.98%	8.72%	10.05%	11.57%

## Notes:

[1] Bloomberg Professional as of September 30, 2024

[2] Bloomberg Professional 90-day average as of September 30, 2024

[3] Equals [1]/[2]

[4] Equals [3] x (1 + 0.5 x [8])

[5] Value Line

[6] Yahoo! Finance

[7] Zacks

[8] Equals average of [5], [6], [7]

[9] Equals [3] x (1 + 0.5 x (min([5], [6], [7])) + (min([5], [6], [7]))

[10] Equals [4] + [8]

[11] Equals [3] x (1 + 0.5 x (max([5], [6], [7])) + (max([5], [6], [7]))

**180-DAY CONSTANT GROWTH DCF**

		[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]
Company	Ticker	Annualized Dividend	Stock Price	Dividend Yield	Expected Dividend Yield	Value Line Projected EPS Growth Rate	Yahoo! Finance Projected EPS Growth Rate	Zacks Projected EPS Growth Rate	Average Projected EPS Growth Rate	Cost of Equity: Minimum Growth Rate	Cost of Equity: Mean Growth Rate	Cost of Equity: Maximum Growth Rate
Atmos Energy Corporation	ATO	\$3.22	\$118.94	2.71%	2.80%	7.00%	7.40%	7.00%	7.13%	9.80%	9.94%	10.21%
NiSource Inc.	NI	\$1.06	\$28.63	3.70%	3.85%	9.50%	7.70%	7.00%	8.07%	10.83%	11.92%	13.38%
Northwest Natural Gas Company	NWN	\$1.95	\$37.19	5.24%	5.36%	6.50%	2.80%	n/a	4.65%	8.12%	10.01%	11.91%
ONE Gas, Inc.	OGS	\$2.64	\$63.46	4.16%	4.25%	3.50%	5.00%	5.00%	4.50%	7.73%	8.75%	9.26%
Southwest Gas Corporation	SWX	\$2.48	\$70.20	3.53%	3.65%	10.00%	4.00%	6.00%	6.67%	7.60%	10.32%	13.71%
Spire, Inc.	SR	\$3.02	\$60.50	4.99%	5.12%	4.50%	6.36%	5.00%	5.29%	9.60%	10.41%	11.51%
Mean		\$2.40	\$63.15	4.06%	4.17%	6.83%	5.54%	6.00%	6.05%	8.95%	10.23%	11.66%
Median		\$2.56	\$61.98	3.93%	4.05%	6.75%	5.68%	6.00%	5.98%	8.86%	10.17%	11.71%

Notes:

[1] Bloomberg Professional as of September 30, 2024

[2] Bloomberg Professional 180-day average as of September 30, 2024

[3] Equals [1]/[2]

[4] Equals [3] x (1 + 0.5 x [8])

[5] Value Line

[6] Yahoo! Finance

[7] Zacks

[8] Equals average of [5], [6], [7]

[9] Equals [3] x (1 + 0.5 x (min([5], [6], [7])) + (min([5], [6], [7]))

[10] Equals [4] + [8]

[11] Equals [3] x (1 + 0.5 x (max([5], [6], [7])) + (max([5], [6], [7]))

**CAPITAL ASSET PRICING MODEL**  
**CURRENT RISK FREE RATE AND VALUE LINE BETA**

$$K = R_f + \beta (R_m - R_f)$$

$$K = R_f + 0.25 \times (R_m - R_f) + 0.75 \times \beta \times (R_m - R_f)$$

		[1]	[2]	[3]	[4]	[5]	[6]
Company	Ticker	Current 30-day average of 30-year U.S. Treasury bond yield	Beta	Market Return	Market Risk Premium	Cost of Equity: CAPM	Cost of Equity: ECAPM
Atmos Energy Corporation	ATO	4.07%	0.85	12.04%	7.97%	10.85%	11.15%
NiSource Inc.	NI	4.07%	0.95	12.04%	7.97%	11.64%	11.74%
Northwest Natural Gas Company	NWN	4.07%	0.85	12.04%	7.97%	10.85%	11.15%
ONE Gas, Inc.	OGS	4.07%	0.85	12.04%	7.97%	10.85%	11.15%
Southwest Gas Corporation	SWX	4.07%	0.90	12.04%	7.97%	11.25%	11.44%
Spire, Inc.	SR	4.07%	0.85	12.04%	7.97%	10.85%	11.15%
Mean						11.05%	11.30%
Median						10.85%	11.15%

Notes:

[1] Bloomberg Professional 30-day average as of September 30, 2024

[2] Value Line

[3] Market Return

[4] Equals [3]-[1]

[5] Equals [1] + [2] x [4]

[6] Equals [1] + 0.25 x ([4]) + 0.75 x ([2] x [4])

**CAPITAL ASSET PRICING MODEL**  
**NEAR TERM PROJECTED RISK-FREE RATE AND VALUE LINE BETA**

$$K = R_f + \beta (R_m - R_f)$$

$$K = R_f + 0.25 \times (R_m - R_f) + 0.75 \times \beta \times (R_m - R_f)$$

		[1]	[2]	[3]	[4]	[5]	[6]
Company	Ticker	Near-term projected 30-year U.S. Treasury bond yield (Q1 2025 - Q1 2026)	Beta	Market Return	Market Risk Premium	Cost of Equity: CAPM	Cost of Equity: ECAPM
Atmos Energy Corporation	ATO	4.02%	0.85	12.04%	8.02%	10.84%	11.14%
NiSource Inc.	NI	4.02%	0.95	12.04%	8.02%	11.64%	11.74%
Northwest Natural Gas Company	NWN	4.02%	0.85	12.04%	8.02%	10.84%	11.14%
ONE Gas, Inc.	OGS	4.02%	0.85	12.04%	8.02%	10.84%	11.14%
Southwest Gas Corporation	SWX	4.02%	0.90	12.04%	8.02%	11.24%	11.44%
Spire, Inc.	SR	4.02%	0.85	12.04%	8.02%	10.84%	11.14%
Mean						11.04%	11.29%
Median						10.84%	11.14%

Notes:

[1] Blue Chip Financial Forecasts, Vol. 43, No. 10, October 1, 2024, at 2

[2] Value Line

[3] Market Return

[4] Equals [3]-[1]

[5] Equals [1] + [2] x [4]

[6] Equals [1] + 0.25 x ([4]) + 0.75 x ([2] x [4])

**CAPITAL ASSET PRICING MODEL**  
**LONG-TERM PROJECTED RISK-FREE RATE AND VALUE LINE BETA**

$$K = R_f + \beta (R_m - R_f)$$

$$K = R_f + 0.25 \times (R_m - R_f) + 0.75 \times \beta \times (R_m - R_f)$$

		[1]	[2]	[3]	[4]	[5]	[6]
Company	Ticker	Projected 30-year U.S. Treasury bond yield (2026 - 2030)	Beta	Market Return	Market Risk Premium	Cost of Equity: CAPM	Cost of Equity: ECAPM
Atmos Energy Corporation	ATO	4.30%	0.85	12.04%	7.74%	10.88%	11.17%
NiSource Inc.	NI	4.30%	0.95	12.04%	7.74%	11.66%	11.75%
Northwest Natural Gas Company	NWN	4.30%	0.85	12.04%	7.74%	10.88%	11.17%
ONE Gas, Inc.	OGS	4.30%	0.85	12.04%	7.74%	10.88%	11.17%
Southwest Gas Corporation	SWX	4.30%	0.90	12.04%	7.74%	11.27%	11.46%
Spire, Inc.	SR	4.30%	0.85	12.04%	7.74%	10.88%	11.17%
Mean						11.07%	11.32%
Median						10.88%	11.17%

Notes:

[1] Blue Chip Financial Forecasts, Vol. 43, No. 6, May 31, 2024, at 14

[2] Value Line

[3] Market Return

[4] Equals [3]-[1]

[5] Equals [1] + [2] x [4]

[6] Equals [1] + 0.25 x ([4]) + 0.75 x ([2] x [4])

**CAPITAL ASSET PRICING MODEL**  
**CURRENT RISK FREE RATE AND BLOOMBERG BETA**

$$K = R_f + \beta (R_m - R_f)$$

$$K = R_f + 0.25 \times (R_m - R_f) + 0.75 \times \beta \times (R_m - R_f)$$

		[1]	[2]	[3]	[4]	[5]	[6]
Company	Ticker	Current 30-day average of 30-year U.S. Treasury bond yield	Beta	Market Return	Market Risk Premium	Cost of Equity: CAPM	Cost of Equity: ECAPM
Atmos Energy Corporation	ATO	4.07%	0.74	12.04%	7.97%	9.98%	10.50%
NiSource Inc.	NI	4.07%	0.79	12.04%	7.97%	10.38%	10.79%
Northwest Natural Gas Company	NWN	4.07%	0.69	12.04%	7.97%	9.60%	10.21%
ONE Gas, Inc.	OGS	4.07%	0.76	12.04%	7.97%	10.16%	10.63%
Southwest Gas Corporation	SWX	4.07%	0.82	12.04%	7.97%	10.63%	10.98%
Spire, Inc.	SR	4.07%	0.76	12.04%	7.97%	10.12%	10.60%
Mean						10.15%	10.62%
Median						10.14%	10.62%

Notes:

[1] Bloomberg Professional 30-day average as of September 30, 2024

[2] Bloomberg Professional

[3] Market Return

[4] Equals [3]-[1]

[5] Equals [1] + [2] x [4]

[6] Equals [1] + 0.25 x ([4]) + 0.75 x ([2] x [4])

**CAPITAL ASSET PRICING MODEL**  
**NEAR TERM PROJECTED RISK-FREE RATE AND BLOOMBERG BETA**

$$K = R_f + \beta (R_m - R_f)$$

$$K = R_f + 0.25 \times (R_m - R_f) + 0.75 \times \beta \times (R_m - R_f)$$

		[1]	[2]	[3]	[4]	[5]	[6]
Company	Ticker	Near-term projected 30-year U.S. Treasury bond yield (Q1 2025 - Q1 2026)	Beta	Market Return	Market Risk Premium	Cost of Equity: CAPM	Cost of Equity: ECAPM
Atmos Energy Corporation	ATO	4.02%	0.74	12.04%	8.02%	9.97%	10.49%
NiSource Inc.	NI	4.02%	0.79	12.04%	8.02%	10.37%	10.78%
Northwest Natural Gas Company	NWN	4.02%	0.69	12.04%	8.02%	9.58%	10.20%
ONE Gas, Inc.	OGS	4.02%	0.76	12.04%	8.02%	10.15%	10.62%
Southwest Gas Corporation	SWX	4.02%	0.82	12.04%	8.02%	10.62%	10.98%
Spire, Inc.	SR	4.02%	0.76	12.04%	8.02%	10.11%	10.59%
Mean						10.13%	10.61%
Median						10.13%	10.61%

Notes:

[1] Blue Chip Financial Forecasts, Vol. 43, No. 10, October 1, 2024, at 2

[2] Bloomberg Professional

[3] Market Return

[4] Equals [3]-[1]

[5] Equals [1] + [2] x [4]

[6] Equals [1] + 0.25 x ([4]) + 0.75 x ([2] x [4])

**CAPITAL ASSET PRICING MODEL**  
**LONG-TERM PROJECTED RISK-FREE RATE AND BLOOMBERG BETA**

$$K = R_f + \beta (R_m - R_f)$$

$$K = R_f + 0.25 \times (R_m - R_f) + 0.75 \times \beta \times (R_m - R_f)$$

		[1]	[2]	[3]	[4]	[5]	[6]
Company	Ticker	Projected 30-year U.S. Treasury bond yield (2026 - 2030)	Beta	Market Return	Market Risk Premium	Cost of Equity: CAPM	Cost of Equity: ECAPM
Atmos Energy Corporation	ATO	4.30%	0.74	12.04%	7.74%	10.04%	10.54%
NiSource Inc.	NI	4.30%	0.79	12.04%	7.74%	10.42%	10.83%
Northwest Natural Gas Company	NWN	4.30%	0.69	12.04%	7.74%	9.67%	10.26%
ONE Gas, Inc.	OGS	4.30%	0.76	12.04%	7.74%	10.22%	10.67%
Southwest Gas Corporation	SWX	4.30%	0.82	12.04%	7.74%	10.67%	11.02%
Spire, Inc.	SR	4.30%	0.76	12.04%	7.74%	10.18%	10.64%
Mean						10.20%	10.66%
Median						10.20%	10.66%

Notes:

[1] Blue Chip Financial Forecasts, Vol. 43, No. 6, May 31, 2024, at 14

[2] Bloomberg Professional

[3] Market Return

[4] Equals [3]-[1]

[5] Equals [1] + [2] x [4]

[6] Equals [1] + 0.25 x ([4]) + 0.75 x ([2] x [4])

**CAPITAL ASSET PRICING MODEL**  
**CURRENT RISK FREE RATE AND LONG-TERM VALUE LINE BETA**

$$K = R_f + \beta (R_m - R_f)$$

$$K = R_f + 0.25 \times (R_m - R_f) + 0.75 \times \beta \times (R_m - R_f)$$

		[1]	[2]	[3]	[4]	[5]	[6]
Company	Ticker	Current 30-day average of 30-year U.S. Treasury bond yield	Beta	Market Return	Market Risk Premium	Cost of Equity: CAPM	Cost of Equity: ECAPM
Atmos Energy Corporation	ATO	4.07%	0.75	12.04%	7.97%	10.05%	10.55%
NiSource Inc.	NI	4.07%	0.76	12.04%	7.97%	10.09%	10.58%
Northwest Natural Gas Company	NWN	4.07%	0.71	12.04%	7.97%	9.72%	10.30%
ONE Gas, Inc.	OGS	4.07%	0.74	12.04%	7.97%	9.95%	10.47%
Southwest Gas Corporation	SWX	4.07%	0.83	12.04%	7.97%	10.67%	11.01%
Spire, Inc.	SR	4.07%	0.74	12.04%	7.97%	9.98%	10.49%
Mean						10.08%	10.57%
Median						10.01%	10.52%

Notes:

[1] Bloomberg Professional 30-day average as of September 30, 2024

[2] Source: LT Beta

[3] Market Return

[4] Equals [3]-[1]

[5] Equals [1] + [2] x [4]

[6] Equals [1] + 0.25 x ([4]) + 0.75 x ([2] x [4])

**CAPITAL ASSET PRICING MODEL**  
**NEAR-TERM PROJECTED RISK FREE RATE AND LONG-TERM VALUE LINE BETA**

$$K = R_f + \beta (R_m - R_f)$$

$$K = R_f + 0.25 \times (R_m - R_f) + 0.75 \times \beta \times (R_m - R_f)$$

		[1]	[2]	[3]	[4]	[5]	[6]
Company	Ticker	Near-term projected 30-year U.S. Treasury bond yield (Q1 2025 - Q1 2026)	Beta	Market Return	Market Risk Premium	Cost of Equity: CAPM	Cost of Equity: ECAPM
Atmos Energy Corporation	ATO	4.02%	0.75	12.04%	8.02%	10.04%	10.54%
NiSource Inc.	NI	4.02%	0.76	12.04%	8.02%	10.08%	10.57%
Northwest Natural Gas Company	NWN	4.02%	0.71	12.04%	8.02%	9.71%	10.29%
ONE Gas, Inc.	OGS	4.02%	0.74	12.04%	8.02%	9.94%	10.46%
Southwest Gas Corporation	SWX	4.02%	0.83	12.04%	8.02%	10.66%	11.00%
Spire, Inc.	SR	4.02%	0.74	12.04%	8.02%	9.96%	10.48%
Mean						10.06%	10.56%
Median						10.00%	10.51%

Notes:

[1] Blue Chip Financial Forecasts, Vol. 43, No. 10, October 1, 2024, at 2

[2] Source: LT Beta

[3] Market Return

[4] Equals [3]-[1]

[5] Equals [1] + [2] x [4]

[6] Equals [1] + 0.25 x ([4]) + 0.75 x ([2] x [4])

**CAPITAL ASSET PRICING MODEL**  
**LONG-TERM PROJECTED RISK FREE RATE AND LONG-TERM VALUE LINE BETA**

$$K = R_f + \beta (R_m - R_f)$$

$$K = R_f + 0.25 \times (R_m - R_f) + 0.75 \times \beta \times (R_m - R_f)$$

		[1]	[2]	[3]	[4]	[5]	[6]
Company	Ticker	Projected 30-year U.S. Treasury bond yield (2026 - 2030)	Beta	Market Return	Market Risk Premium	Cost of Equity: CAPM	Cost of Equity: ECAPM
Atmos Energy Corporation	ATO	4.30%	0.75	12.04%	7.74%	10.11%	10.59%
NiSource Inc.	NI	4.30%	0.76	12.04%	7.74%	10.15%	10.62%
Northwest Natural Gas Company	NWN	4.30%	0.71	12.04%	7.74%	9.79%	10.35%
ONE Gas, Inc.	OGS	4.30%	0.74	12.04%	7.74%	10.01%	10.52%
Southwest Gas Corporation	SWX	4.30%	0.83	12.04%	7.74%	10.71%	11.04%
Spire, Inc.	SR	4.30%	0.74	12.04%	7.74%	10.04%	10.54%
Mean						10.13%	10.61%
Median						10.07%	10.56%

Notes:

[1] Blue Chip Financial Forecasts, Vol. 43, No. 6, May 31, 2024, at 14

[2] Source: LT Beta

[3] Market Return

[4] Equals [3]-[1]

[5] Equals [1] + [2] x [4]

[6] Equals [1] + 0.25 x ([4]) + 0.75 x ([2] x [4])

**HISTORICAL BETA**

		[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]
Company	Ticker	12/31/2013	12/31/2014	12/31/2015	12/31/2016	12/31/2017	12/31/2018	12/31/2019	12/31/2020	12/31/2021	12/31/2022	12/31/2023	Average
Atmos Energy Corporation	ATO	0.80	0.80	0.80	0.70	0.70	0.60	0.60	0.80	0.80	0.80	0.85	0.75
NiSource Inc.	NI	0.85	0.85	NMF	NMF	0.60	0.50	0.55	0.85	0.85	0.85	0.90	0.76
Northwest Natural Gas Company	NWN	0.65	0.70	0.65	0.65	0.70	0.60	0.60	0.80	0.85	0.80	0.80	0.71
ONE Gas, Inc.	OGS				0.70	0.70	0.65	0.65	0.80	0.80	0.80	0.80	0.74
Southwest Gas Corporation	SWX	0.80	0.85	0.80	0.75	0.80	0.70	0.70	0.95	0.95	0.90	0.90	0.83
Spire, Inc.	SR	0.65	0.70	0.70	0.70	0.70	0.65	0.65	0.85	0.85	0.85	0.85	0.74
Mean		0.75	0.78	0.74	0.70	0.70	0.62	0.63	0.84	0.85	0.83	0.85	0.75

**Notes:**

[1] Value Line, December 26, 2013

[2] Value Line, December 31, 2014

[3] Value Line, December 30, 2015

[4] Value Line, December 29, 2016

[5] Value Line, December 28, 2017

[6] Value Line, December 27, 2018

[7] Value Line, December 26, 2019

[8] Value Line, December 30, 2020

[9] Value Line, December 29, 2021

[10] Value Line, December 30, 2022

[11] Value Line, December 29, 2023

[12] Average ([1] - [11])

## MARKET RISK PREMIUM DERIVED FROM S&amp;P 500 INDEX

[1] Estimate of the S&amp;P 500 Dividend Yield 1.52%

[2] Estimate of the S&amp;P 500 Growth Rate 10.45%

[3] S&amp;P 500 Estimated Required Market Return 12.04%

		[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]
Name	Ticker	Shares Outst'g	Price	Market Capitalization	Weight in Index	Estimated Dividend Yield	Cap-Weighted Dividend Yield	Bloomberg Long-Term Growth Est.	Cap-Weighted Long-Term Growth Est.
LyondellBasell Industries NV	LYB	325.089	95.9	31,176.04		5.59%		-8.57%	
American Express Co	AXP	710.912	271.2	192,799.33	0.52%	1.03%	0.01%	15.62%	0.08%
Verizon Communications Inc	VZ	4209.52	44.91	189,049.54	0.51%	6.03%	0.03%	3.00%	0.02%
Broadcom Inc	AVGO	4670.576	172.5	805,674.36	2.17%	1.23%	0.03%	16.94%	0.37%
Boeing Co/The	BA	616.167	152.04	93,682.03				38.60%	
Solventum Corp	SOLV	172.711	69.72	12,041.41				-2.00%	
Caterpillar Inc	CAT	484.898	391.12	189,653.31	0.51%	1.44%	0.01%	8.38%	0.04%
JPMorgan Chase & Co	JPM	2845.165	210.86	599,931.49	1.62%	2.37%	0.04%	3.55%	0.06%
Chevron Corp	CVX	1828.917	147.27	269,344.61	0.73%	4.43%	0.03%	7.00%	0.05%
Coca-Cola Co/The	KO	4309.868	71.86	309,707.11	0.83%	2.70%	0.02%	6.36%	0.05%
AbbVie Inc	ABBV	1766.344	197.48	348,817.61	0.94%	3.14%	0.03%	8.80%	0.08%
Walt Disney Co/The	DIS	1813.587	96.19	174,448.93	0.47%	0.94%	0.00%	15.77%	0.07%
Corpay Inc	CPAY	69.433	312.76	21,715.87	0.06%			14.87%	0.01%
Extra Space Storage Inc	EXR	211.929	180.19	38,187.49		3.60%		-0.20%	
Exxon Mobil Corp	XOM	4442.827	117.22	520,788.18	1.40%	3.24%	0.05%	5.00%	0.07%
Phillips 66	PSX	418.569	131.45	55,020.90		3.50%		-9.00%	
General Electric Co	GE	1084.311	188.58	204,479.37		0.59%		29.30%	
HP Inc	HPQ	963.718	35.87	34,568.56	0.09%	3.07%	0.00%	1.05%	0.00%
Home Depot Inc/The	HD	993.293	405.2	402,482.32	1.08%	2.22%	0.02%	3.87%	0.04%
Monolithic Power Systems Inc	MPWR	48.752	924.5	45,071.22		0.54%			
International Business Machines Corp	IBM	921.148	221.08	203,647.40	0.55%	3.02%	0.02%	3.90%	0.02%
Johnson & Johnson	JNJ	2407.244	162.06	390,117.96	1.05%	3.06%	0.03%	3.73%	0.04%
Lululemon Athletica Inc	LULU	117.661	271.35	31,927.31	0.09%			7.00%	0.01%
McDonald's Corp	MCD	717.343	304.51	218,438.12	0.59%	2.33%	0.01%	5.15%	0.03%
Merck & Co Inc	MRK	2534.809	113.56	287,852.91		2.71%		53.04%	
3M Co	MMM	549.354	136.7	75,096.69		2.05%		-5.37%	
American Water Works Co Inc	AWK	194.863	146.24	28,496.77	0.08%	2.09%	0.00%	7.89%	0.01%
Bank of America Corp	BAC	7759.577	39.68	307,900.02		2.62%			
Pfizer Inc	PFE	5666.695	28.94	163,994.15	0.44%	5.81%	0.03%	6.39%	0.03%
Procter & Gamble Co/The	PG	2349.708	173.2	406,969.43	1.10%	2.32%	0.03%	7.37%	0.08%
AT&T Inc	T	7170.244	22	157,745.37	0.42%	5.05%	0.02%	1.84%	0.01%
Travelers Cos Inc/The	TRV	227.931	234.12	53,363.21	0.14%	1.79%	0.00%	18.11%	0.03%
RTX Corp	RTX	1330.239	121.16	161,171.76	0.43%	2.08%	0.01%	10.23%	0.04%
Analog Devices Inc	ADI	496.493	230.17	114,277.79		1.60%		-5.82%	
Walmart Inc	WMT	8038.251	80.75	649,088.77	1.75%	1.03%	0.02%	9.24%	0.16%
Cisco Systems Inc	CSCO	3990.735	53.22	212,386.92	0.57%	3.01%	0.02%	3.40%	0.02%
Intel Corp	INTC	4276	23.46	100,314.96	0.27%			4.26%	0.01%
General Motors Co	GM	1123.922	44.84	50,396.66	0.14%	1.07%	0.00%	11.02%	0.01%
Microsoft Corp	MSFT	7433.038	430.3	3,198,436.25	8.61%	0.77%	0.07%	16.10%	1.39%
Dollar General Corp	DG	219.915	84.57	18,598.21		2.79%		-7.74%	
Cigna Group/The	CI	279.549	346.44	96,846.96	0.26%	1.62%	0.00%	11.65%	0.03%
Kinder Morgan Inc	KMI	2219.463	22.09	49,027.94	0.13%	5.21%	0.01%	6.52%	0.01%
Citigroup Inc	C	1907.795	62.6	119,427.97		3.58%		27.26%	
American International Group Inc	AIG	643.951	73.23	47,156.53	0.13%	2.18%	0.00%	12.42%	0.02%
Altria Group Inc	MO	1706.224	51.04	87,085.67	0.23%	7.99%	0.02%	4.20%	0.01%
HCA Healthcare Inc	HCA	258.074	406.43	104,889.02	0.28%	0.65%	0.00%	10.81%	0.03%
International Paper Co	IP	347.379	48.85	16,969.46		3.79%		-2.00%	
Hewlett Packard Enterprise Co	HPE	1298.669	20.46	26,570.77	0.07%	2.54%	0.00%	2.42%	0.00%
Abbott Laboratories	ABT	1739.897	114.01	198,365.66	0.53%	1.93%	0.01%	8.12%	0.04%
Aflac Inc	AFL	560.026	111.8	62,610.91	0.17%	1.79%	0.00%	9.37%	0.02%
Air Products and Chemicals Inc	APD	222.315	295.9699	65,798.55	0.18%	2.39%	0.00%	9.52%	0.02%
Super Micro Computer Inc	SMCI	585.565	41.64	24,382.93				69.00%	
Royal Caribbean Cruises Ltd	RCL	257.42	177.36	45,656.01		0.90%		30.00%	
Hess Corp	HES	308.115	135.8	41,842.02	0.11%	1.47%	0.00%	16.00%	0.02%
Archer-Daniels-Midland Co	ADM	478.142	59.74	28,564.20		3.35%		-3.62%	
Automatic Data Processing Inc	ADP	407.826	276.73	112,857.69		2.02%			
Verisk Analytics Inc	VRSK	142.424	267.96	38,163.94	0.10%	0.58%	0.00%	13.00%	0.01%
AutoZone Inc	AZO	17.083	3150.04	53,812.13	0.14%			13.50%	0.02%
Linde PLC	LIN	477.503	476.86	227,702.08	0.61%	1.17%	0.01%	11.76%	0.07%
Avery Dennison Corp	AVY	80.519	220.76	17,775.37	0.05%	1.59%	0.00%	12.84%	0.01%
Enphase Energy Inc	ENPH	135.422	113.02	15,305.39	0.04%			7.45%	0.00%
MSCI Inc	MSCI	78.65	582.93	45,847.44	0.12%	1.10%	0.00%	12.00%	0.01%
Ball Corp	BALL	303.565	67.91	20,615.10	0.06%	1.18%	0.00%	13.35%	0.01%
Axon Enterprise Inc	AXON	75.574	399.6	30,199.37				20.81%	
Dayforce Inc	DAY	158.1	61.25	9,683.63					
Carrier Global Corp	CARR	902.752	80.49	72,662.51	0.20%	0.94%	0.00%	6.74%	0.01%
Bank of New York Mellon Corp/The	BK	737.957	71.86	53,029.59	0.14%	2.62%	0.00%	10.55%	0.02%
Otis Worldwide Corp	OTIS	400.555	103.94	41,633.69	0.11%	1.50%	0.00%	10.00%	0.01%
Baxter International Inc	BAX	510.178	37.97	19,371.46	0.05%	3.06%	0.00%	3.50%	0.00%
Becton Dickinson & Co	BDX	289.042	241.1	69,688.03	0.19%	1.58%	0.00%	8.34%	0.02%
Berkshire Hathaway Inc	BRK/B	1325.193	460.26	609,933.33					
Best Buy Co Inc	BBY	214.725	103.3	22,181.09	0.06%	3.64%	0.00%	4.17%	0.00%
Boston Scientific Corp	BSX	1472.626	83.8	123,406.06	0.33%			12.58%	0.04%
Bristol-Myers Squibb Co	BMJ	2027.395	51.74	104,897.42		4.64%		-2.61%	
Brown-Forman Corp	BF/B	303.537	49.2	14,934.02		1.77%		-2.38%	
Coterra Energy Inc	CTRA	739.274	23.95	17,705.61	0.05%	3.51%	0.00%	10.06%	0.00%
Hilton Worldwide Holdings Inc	HLT	246.427	230.5	56,801.42	0.15%	0.26%	0.00%	14.97%	0.02%
Carnival Corp	CCL	1154.165	18.48	21,328.97					
Qorvo Inc	QRVO	94.861	103.3	9,799.14	0.03%			17.09%	0.00%
Builders FirstSource Inc	BLDR	116.454	193.86	22,575.77	0.06%			1.45%	0.00%

		[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]
Name	Ticker	Shares Outst'g	Price	Market Capitalization	Weight in Index	Estimated Dividend Yield	Cap-Weighted Dividend Yield	Bloomberg Long-Term Growth Est.	Cap-Weighted Long-Term Growth Est.
UDR Inc	UDR	329,824	45.34	14,954.22	0.04%	3.75%	0.00%	1.85%	0.00%
Clorox Co/The	CLX	123,862	162.91	20,178.36	0.05%	3.00%	0.00%	11.33%	0.01%
Paycom Software Inc	PAYC	57,432	166.57	9,566.45	0.03%	0.90%	0.00%	9.41%	0.00%
CMS Energy Corp	CMS	298,635	70.63	21,092.59	0.06%	2.92%	0.00%	7.28%	0.00%
Colgate-Palmolive Co	CL	817,087	103.81	84,821.80	0.23%	1.93%	0.00%	8.73%	0.02%
EPAM Systems Inc	EPAM	56,935	199.03	11,331.77	0.03%			5.29%	0.00%
Conagra Brands Inc	CAG	479.05	32.52	15,578.71	0.04%	4.31%	0.00%	1.81%	0.00%
Airbnb Inc	ABNB	440,002	126.81	55,796.65	0.15%			19.84%	0.03%
Consolidated Edison Inc	ED	346,147	104.13	36,044.29	0.10%	3.19%	0.00%	5.58%	0.01%
Coming Inc	GLW	855,701	45.15	38,634.90	0.10%	2.48%	0.00%	13.57%	0.01%
GoDaddy Inc	GDDY	140,973	156.78	22,101.75					
Cummins Inc	CMI	137,048	323.79	44,374.77	0.12%	2.25%	0.00%	8.28%	0.01%
Caesars Entertainment Inc	CZR	216,338	41.74	9,029.95				-28.25%	
Danaher Corp	DHR	722,213	278.02	200,789.66	0.54%	0.39%	0.00%	1.89%	0.01%
Target Corp	TGT	460,675	155.86	71,800.81	0.19%	2.87%	0.01%	14.38%	0.03%
Deere & Co	DE	273.6	417.33	114,181.49		1.41%		-9.99%	
Dominion Energy Inc	D	838,938	57.79	48,482.23		4.62%		21.64%	
Dover Corp	DOV	137,458	191.74	26,356.20	0.07%	1.07%	0.00%	7.72%	0.01%
Alliant Energy Corp	LNT	256.5	60.69	15,566.99	0.04%	3.16%	0.00%	7.34%	0.00%
Steel Dynamics Inc	STLD	154,303	126.08	19,454.52		1.46%		-4.43%	
Duke Energy Corp	DUK	771	115.3	88,896.30	0.24%	3.63%	0.01%	6.78%	0.02%
Regency Centers Corp	REG	181,497	72.23	13,109.53	0.04%	3.71%	0.00%	3.79%	0.00%
Eaton Corp PLC	ETN	398.1	331.44	131,946.26	0.36%	1.13%	0.00%	14.60%	0.05%
Ecolab Inc	ECL	284,538	255.33	72,651.09	0.20%	0.89%	0.00%	15.76%	0.03%
Revvity Inc	RVTY	123,337	127.75	15,756.30	0.04%	0.22%	0.00%	9.44%	0.00%
Dell Technologies Inc	DELL	333,874	118.54	39,577.42	0.11%	1.50%	0.00%	9.83%	0.01%
Emerson Electric Co	EMR	572.7	109.37	62,636.20	0.17%	1.92%	0.00%	15.10%	0.03%
EOG Resources Inc	EOG	568.6	122.93	69,898.00	0.19%	2.96%	0.01%	3.28%	0.01%
Aon PLC	AON	217,242	345.99	75,163.56	0.20%	0.78%	0.00%	11.10%	0.02%
Entergy Corp	ETR	213,831	131.61	28,142.30	0.08%	3.43%	0.00%	7.17%	0.01%
Equifax Inc	EFX	123,736	293.86	36,361.06		0.53%			
EQT Corp	EQT	594,021	36.64	21,764.93		1.72%			
IQVIA Holdings Inc	IQV	182.3	236.97	43,199.63	0.12%			10.83%	0.01%
Gartner Inc	IT	77.06	506.76	39,050.93	0.11%			7.00%	0.01%
FedEx Corp	FDX	244,323	273.68	66,866.32	0.18%	2.02%	0.00%	12.33%	0.02%
FMC Corp	FMC	124,824	65.94	8,230.89	0.02%	3.52%	0.00%	15.67%	0.00%
Brown & Brown Inc	BRO	285,261	103.6	29,553.04	0.08%	0.50%	0.00%	10.85%	0.01%
Ford Motor Co	F	3904,398	10.56	41,230.44	0.11%	5.68%	0.01%	1.34%	0.00%
NextEra Energy Inc	NEE	2055	84.53	173,709.15	0.47%	2.44%	0.01%	8.78%	0.04%
Franklin Resources Inc	BEN	522,998	20.15	10,538.41	0.03%	6.15%	0.00%	3.00%	0.00%
Garmin Ltd	GRMN	192,214	176.03	33,835.43	0.09%	1.70%	0.00%	9.55%	0.01%
Freight-McMoran Inc	FCX	1436,856	49.92	71,727.85	0.19%	1.20%	0.00%	17.59%	0.03%
Dexcom Inc	DXCM	400,727	67.04	26,864.74				21.07%	
General Dynamics Corp	GD	274,778	302.2	83,037.91	0.22%	1.88%	0.00%	15.55%	0.03%
General Mills Inc	GIS	555,159	73.85	40,998.49	0.11%	3.25%	0.00%	2.45%	0.00%
Genuine Parts Co	GPC	139,318	139.68	19,459.94		2.86%			
Atmos Energy Corp	ATO	155,233	138.71	21,532.37		2.32%			
WW Grainger Inc	GWG	48,826	1038.81	50,720.94		0.79%			
Halliburton Co	HAL	882,829	29.05	25,646.18	0.07%	2.34%	0.00%	8.17%	0.01%
L3Harris Technologies Inc	LHX	189,705	237.87	45,125.13	0.12%	1.95%	0.00%	8.77%	0.01%
Healthpeak Properties Inc	DOC	699,291	22.87	15,992.79	0.04%	5.25%	0.00%	5.33%	0.00%
Insulet Corp	PODD	70,115	232.75	16,319.27				20.81%	
Catalent Inc	CTLT	181,464	60.57	10,991.27					
Fortive Corp	FTV	350,342	78.93	27,652.49	0.07%	0.41%	0.00%	10.49%	0.01%
Hershey Co/The	HSY	147,674	191.78	28,320.92	0.08%	2.86%	0.00%	2.21%	0.00%
Synchrony Financial	SYF	395,227	49.88	19,713.92		2.00%		64.00%	
Hormel Foods Corp	HRL	548,364	31.7	17,383.14	0.05%	3.56%	0.00%	6.23%	0.00%
Arthur J Gallagher & Co	AJG	219.1	281.37	61,648.17	0.17%	0.85%	0.00%	12.78%	0.02%
Mondelēz International Inc	MDLZ	1335,798	73.67	98,408.24	0.27%	2.55%	0.01%	6.93%	0.02%
CenterPoint Energy Inc	CNP	651,721	29.42	19,173.63	0.05%	2.86%	0.00%	7.62%	0.00%
Humana Inc	HUM	120,402	316.74	38,136.13		1.12%		-1.30%	
Willis Towers Watson PLC	WTW	101,556	294.53	29,911.29	0.08%	1.20%	0.00%	11.69%	0.01%
Illinois Tool Works Inc	ITW	296.9	262.07	77,808.58	0.21%	2.29%	0.00%	6.90%	0.01%
CDW Corp/DE	CDW	133,576	226.3	30,228.25	0.08%	1.10%	0.00%	7.02%	0.01%
Trane Technologies PLC	TT	225.67	388.73	87,724.70	0.24%	0.86%	0.00%	15.56%	0.04%
Interpublic Group of Cos Inc/The	IPG	375,591	31.63	11,879.94	0.03%	4.17%	0.00%	2.12%	0.00%
International Flavors & Fragrances Inc	IFF	255,659	104.93	26,826.30	0.07%	1.52%	0.00%	2.12%	0.00%
Generac Holdings Inc	GNRC	60,153	158.88	9,557.11	0.03%			7.00%	0.00%
NXP Semiconductors NV	NXPI	254,733	240.01	61,138.47	0.16%	1.69%	0.00%	5.89%	0.01%
Kellanova	K	344,685	80.71	27,819.53	0.07%	2.82%	0.00%	9.29%	0.01%
Broadridge Financial Solutions Inc	BR	116,709	215.03	25,095.94		1.64%			
Kimberly-Clark Corp	KMB	336,804	142.28	47,920.47	0.13%	3.43%	0.00%	8.36%	0.01%
Kimco Realty Corp	KIM	674,116	23.22	15,652.97	0.04%	4.13%	0.00%	3.63%	0.00%
Oracle Corp	ORCL	2771,063	170.4	472,189.14	1.27%	0.94%	0.01%	11.95%	0.15%
Kroger Co/The	KR	723,486	57.3	41,455.75	0.11%	2.23%	0.00%	3.11%	0.00%
Lennar Corp	LEN	241,703	187.48	45,314.48	0.12%	1.07%	0.00%	9.07%	0.01%
Eli Lilly & Co	LLY	950,426	885.94	842,020.41		0.59%		33.00%	
Charter Communications Inc	CHTR	142,741	324.08	46,259.50	0.12%			7.07%	0.01%
Loews Corp	L	219,517	79.05	17,352.82		0.32%			
Lowe's Cos Inc	LOW	567,294	270.85	153,651.58		1.70%		-0.19%	
Hubbell Inc	HUBB	53,681	428.35	22,994.26		1.14%			
IDEX Corp	IEX	75,703	214.5	16,238.29		1.29%			
Marsh & McLennan Cos Inc	MMC	491,756	223.09	109,705.85	0.30%	1.46%	0.00%	9.10%	0.03%
Masco Corp	MAS	218,249	83.94	18,319.82	0.05%	1.38%	0.00%	7.76%	0.00%
S&P Global Inc	SPGI	320.2	516.62	165,421.72	0.45%	0.70%	0.00%	14.00%	0.06%
Medtronic PLC	MDT	1282,49	90.03	115,462.57	0.31%	3.11%	0.01%	5.66%	0.02%
Viatis Inc	VTRS	1193,52	11.61	13,856.77		4.13%		-3.41%	
CVS Health Corp	CVS	1257,979	62.88	79,101.72	0.21%	4.23%	0.01%	1.82%	0.00%
DuPont de Nemours Inc	DD	417,495	89.11	37,202.98	0.10%	1.71%	0.00%	2.50%	0.00%

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Name	Ticker	Shares Outst'g	Price	Market Capitalization	Weight in Index	Estimated Dividend Yield	Cap-Weighted Dividend Yield	Bloomberg Long-Term Growth Est.	Cap-Weighted Long-Term Growth Est.
Micon Technology Inc	MU	1108.841	103.71	114,997.90		0.44%		53.55%	
Motorola Solutions Inc	MSI	166.841	449.63	75,016.72	0.20%	0.87%	0.00%	9.36%	0.02%
Choe Global Markets Inc	CBOE	104.634	204.87	21,436.37	0.06%	1.23%	0.00%	13.78%	0.01%
Newmont Corp	NEM	1152.488	53.45	61,600.48		1.87%		40.36%	
NIKE Inc	NKE	1201.462	88.4	106,209.24	0.29%	1.67%	0.00%	4.53%	0.01%
NiSource Inc	NI	448.51	34.65	15,540.87	0.04%	3.06%	0.00%	7.90%	0.00%
Norfolk Southern Corp	NSC	226.096	248.5	56,184.86	0.15%	2.17%	0.00%	9.92%	0.02%
Principal Financial Group Inc	PFJ	231.584	85.9	19,893.07	0.05%	3.35%	0.00%	13.00%	0.01%
Eversource Energy	ES	357.385	68.05	24,320.05	0.07%	4.20%	0.00%	5.46%	0.00%
Northrop Grumman Corp	NOC	146.245	528.07	77,227.60	0.21%	1.56%	0.00%	8.68%	0.02%
Wells Fargo & Co	WFC	3403.77	56.49	192,278.97	0.52%	2.83%	0.01%	7.95%	0.04%
Nucor Corp	NUE	237.338	150.34	35,681.39		1.44%		-1.63%	
Occidental Petroleum Corp	OXY	916.197	51.54	47,220.79		1.71%		24.00%	
Omnicom Group Inc	OMC	195.649	103.39	20,228.15	0.05%	2.71%	0.00%	5.45%	0.00%
ONEOK Inc	OKE	584.074	91.13	53,226.66	0.14%	4.35%	0.01%	2.95%	0.00%
Raymond James Financial Inc	RJF	205.943	122.01	25,127.11	0.07%	1.48%	0.00%	13.70%	0.01%
PG&E Corp	PCG	2137.461	19.77	42,257.60	0.11%	0.20%	0.00%	9.84%	0.01%
Parker-Hannifin Corp	PH	128.67	631.82	81,296.28	0.22%	1.03%	0.00%	13.44%	0.03%
Rollins Inc	ROL	484.314	50.58	24,496.60	0.07%	1.19%	0.00%	14.00%	0.01%
PPL Corp	PPL	737.773	33.08	24,405.53	0.07%	3.11%	0.00%	7.01%	0.00%
ConocoPhillips	COP	1161.25	105.28	122,256.40	0.33%	2.96%	0.01%	13.00%	0.04%
PulteGroup Inc	PHM	207.524	143.53	29,785.92	0.08%	0.56%	0.00%	8.99%	0.01%
Pinnacle West Capital Corp	PNW	113.612	88.59	10,064.89	0.03%	3.97%	0.00%	8.22%	0.00%
PNC Financial Services Group Inc/The	PNC	397.496	184.85	73,477.14	0.20%	3.46%	0.01%	18.04%	0.04%
PPG Industries Inc	PPG	233.3	132.46	30,902.92	0.08%	2.05%	0.00%	8.33%	0.01%
Progressive Corp/The	PGR	585.667	253.76	148,618.86		0.16%		39.61%	
Verato Corp	VLTO	247.106	111.86	27,641.28		0.32%			
Public Service Enterprise Group Inc	PEG	498.162	89.21	44,441.03	0.12%	2.69%	0.00%	7.47%	0.01%
Cooper Cos Inc/The	COO	199.156	110.34	21,974.87	0.06%			12.43%	0.01%
Edison International	EIX	383.925	87.09	33,436.03	0.09%	3.58%	0.00%	7.36%	0.01%
Schlumberger NV	SLB	1419.841	41.95	59,562.33	0.16%	2.62%	0.00%	12.22%	0.02%
Charles Schwab Corp/The	SCHW	1778.445	64.81	115,261.02	0.31%	1.54%	0.00%	14.04%	0.04%
Sherwin-Williams Co/The	SHW	252.258	381.67	96,279.31	0.26%	0.75%	0.00%	9.88%	0.03%
West Pharmaceutical Services Inc	WST	72.542	300.16	21,774.21	0.06%	0.27%	0.00%	2.89%	0.00%
J M Smucker Co/The	SJM	106.406	121.1	12,885.77	0.03%	3.57%	0.00%	6.07%	0.00%
Snap-on Inc	SNA	52.683	289.71	15,262.79	0.04%	2.57%	0.00%	3.83%	0.00%
AMETEK Inc	AME	231.536	171.71	39,757.05	0.11%	0.65%	0.00%	7.02%	0.01%
Uber Technologies Inc	UBER	2100.937	75.16	157,906.42				60.59%	
Southern Co/The	SO	1094.633	90.18	98,714.00	0.27%	3.19%	0.01%	7.23%	0.02%
Truist Financial Corp	TFC	1339.143	42.77	57,275.15	0.15%	4.86%	0.01%	10.91%	0.02%
Southwest Airlines Co	LUV	599.157	29.63	17,753.02		2.43%			
W R Berkley Corp	WRB	380.551	56.73	21,588.66	0.06%	0.56%	0.00%	13.27%	0.01%
Stanley Black & Decker Inc	SWK	153.959	110.13	16,955.50		2.98%			
Public Storage	PSA	175.703	363.87	63,933.05	0.17%	3.30%	0.01%	2.48%	0.00%
Arista Networks Inc	ANET	314.153	383.82	120,578.20	0.32%			18.60%	0.06%
Sysco Corp	SY	491.521	78.06	38,368.13	0.10%	2.61%	0.00%	7.00%	0.01%
Corteva Inc	CTVA	687.797	58.79	40,435.59	0.11%	1.16%	0.00%	9.85%	0.01%
Texas Instruments Inc	TXN	913.046	206.57	188,607.91		2.63%		-2.86%	
Textron Inc	TXT	187.363	88.58	16,596.61	0.04%	0.09%	0.00%	10.05%	0.00%
Thermo Fisher Scientific Inc	TMO	381.996	618.57	236,291.27	0.64%	0.25%	0.00%	8.74%	0.06%
TJX Cos Inc/The	TJX	1127.873	117.54	132,570.19	0.36%	1.28%	0.00%	8.20%	0.03%
Globe Life Inc	GL	89.82	105.91	9,512.84	0.03%	0.91%	0.00%	6.00%	0.00%
Johnson Controls International plc	JCI	668.014	77.61	51,844.57	0.14%	1.91%	0.00%	9.26%	0.01%
Ulta Beauty Inc	ULTA	47.115	389.12	18,333.39	0.05%			1.64%	0.00%
Union Pacific Corp	UNP	609.198	246.48	150,155.12	0.40%	2.17%	0.01%	10.27%	0.04%
Keysight Technologies Inc	KEYS	173.543	158.93	27,581.19				-1.19%	
UnitedHealth Group Inc	UNH	923.418	584.68	539,904.04	1.45%	1.44%	0.02%	10.44%	0.15%
Blackstone Inc	BX	720.077	153.13	110,265.39		2.14%		22.74%	
Marathon Oil Corp	MRO	559.383	26.63	14,896.37		1.65%		-5.00%	
Ventas Inc	VTR	413.154	63.68	26,309.65	0.07%	2.83%	0.00%	8.22%	0.01%
Labcorp Holdings Inc	LH	83.963	223.48	18,764.05	0.05%	1.29%	0.00%	8.45%	0.00%
Vulcan Materials Co	VMC	132.06	250.43	33,071.79	0.09%	0.73%	0.00%	19.00%	0.02%
Weyerhaeuser Co	WY	727.315	33.86	24,626.89		2.36%		-11.50%	
Williams Cos Inc/The	WMB	1218.931	45.65	55,644.20	0.15%	4.16%	0.01%	4.28%	0.01%
Constellation Energy Corp	CEG	315.121	260.02	81,937.76		0.54%		24.22%	
WEC Energy Group Inc	WEC	316.079	96.18	30,400.48	0.08%	3.47%	0.00%	7.82%	0.01%
Adobe Inc	ADBE	440.2	517.78	227,926.76	0.61%			16.34%	0.10%
Vistra Corp	VST	343.561	118.54	40,725.72		0.74%			
AES Corp/The	AES	710.924	20.06	14,261.14		3.44%			
Expeditors International of Washington Inc	EXPD	141.128	131.4	18,544.22	0.05%	1.11%	0.00%	4.39%	0.00%
Amgen Inc	AMGN	537.329	322.21	173,132.78	0.47%	2.79%	0.01%	3.52%	0.02%
Apple Inc	AAPL	15204.137	233	3,542,563.92	9.54%	0.43%	0.04%	8.04%	0.77%
Autodesk Inc	ADSK	215	275.48	59,228.20	0.16%			10.23%	0.02%
Cintas Corp	CTAS	403.258	205.88	83,022.76	0.22%	0.76%	0.00%	12.00%	0.03%
Comcast Corp	CMCSA	3863.057	41.77	161,359.89	0.43%	2.97%	0.01%	8.16%	0.04%
Molson Coors Beverage Co	TAP	192.591	57.52	11,077.83	0.03%	3.06%	0.00%	5.29%	0.00%
KLA Corp	KLAC	133.976	774.41	103,752.35	0.28%	0.75%	0.00%	14.10%	0.04%
Marriott International Inc/MD	MAR	281.523	248.6	69,986.62	0.19%	1.01%	0.00%	4.25%	0.01%
Fiserv Inc	FI	575.725	179.65	103,429.00	0.28%			11.52%	0.03%
McCormick & Co Inc/MD	MKC	252.015	82.3	20,740.83	0.06%	2.04%	0.00%	5.83%	0.00%
PACCAR Inc	PCAR	524.222	98.68	51,730.23	0.14%	1.22%	0.00%	0.48%	0.00%
Costco Wholesale Corp	COST	443.335	886.52	393,025.34	1.06%	0.52%	0.01%	9.88%	0.10%
Stryker Corp	SYK	381.075	361.26	137,667.15	0.37%	0.89%	0.00%	8.60%	0.03%
Tyson Foods Inc	TSN	285.821	59.56	17,023.50		3.29%			
Lamb Weston Holdings Inc	LW	143.671	64.74	9,301.26	0.03%	2.22%	0.00%	2.16%	0.00%
Applied Materials Inc	AMAT	824.404	202.05	166,570.83	0.45%	0.79%	0.00%	9.28%	0.04%
Cardinal Health Inc	CAH	241.962	110.0144	26,619.30	0.07%	1.84%	0.00%	9.84%	0.01%
Cincinnati Financial Corp	CINF	156.24	136.12	21,267.39	0.06%	2.38%	0.00%	7.83%	0.00%
Paramount Global	PARA	626.012	10.62	6,648.25		1.88%		49.00%	

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Name	Ticker	Shares Outst'g	Price	Market Capitalization	Weight in Index	Estimated Dividend Yield	Cap-Weighted Dividend Yield	Bloomberg Long-Term Growth Est.	Cap-Weighted Long-Term Growth Est.
DR Horton Inc	DHI	326.04	190.77	62,198.65	0.17%	0.63%	0.00%	8.27%	0.01%
Electronic Arts Inc	EA	264.2	143.44	37,896.85	0.10%	0.53%	0.00%	12.97%	0.01%
Erie Indemnity Co	ERIE	46.189	539.82	24,933.75		0.94%			
Fair Isaac Corp	FICO	24.519	1943.52	47,653.17				23.00%	
Fastenal Co	FAST	572.646	71.42	40,898.38		2.18%			
M&T Bank Corp	MTB	167.001	178.12	29,746.22	0.08%	3.03%	0.00%	3.87%	0.00%
Xcel Energy Inc	XEL	557.501	65.3	36,404.82	0.10%	3.35%	0.00%	7.10%	0.01%
Fifth Third Bancorp	FITB	676.797	42.84	28,993.98		3.45%		25.00%	
Gilead Sciences Inc	GILD	1244.992	83.84	104,380.13	0.28%	3.67%	0.01%	15.38%	0.04%
Hasbro Inc	HAS	139.407	72.32	10,081.91		3.87%		34.01%	
Huntington Bancshares Inc/OH	HBAN	1452.433	14.7	21,350.77	0.06%	4.22%	0.00%	3.32%	0.00%
Welltower Inc	WELL	609.148	128.03	77,989.22	0.21%	2.09%	0.00%	15.65%	0.03%
Biogen Inc	BIIB	145.662	193.84	28,235.12	0.08%			6.10%	0.00%
Northern Trust Corp	NTRS	201.638	90.03	18,153.47	0.05%	3.33%	0.00%	10.11%	0.00%
Packaging Corp of America	PKG	89.812	215.4	19,345.50	0.05%	2.32%	0.00%	5.83%	0.00%
Paychex Inc	PAYX	359.742	134.19	48,273.78	0.13%	2.92%	0.00%	7.54%	0.01%
QUALCOMM Inc	QCOM	1114	170.05	189,435.70	0.51%	2.00%	0.01%	10.64%	0.05%
Ross Stores Inc	ROST	331.763	150.51	49,933.65	0.13%	0.98%	0.00%	8.85%	0.01%
IDEXX Laboratories Inc	IDXX	82.306	505.22	41,582.64	0.11%			11.25%	0.01%
Starbucks Corp	SBUX	1133.2	97.49	110,475.67	0.30%	2.34%	0.01%	9.67%	0.03%
KeyCorp	KEY	928.116	16.75	15,545.94	0.04%	4.90%	0.00%	20.00%	0.01%
Fox Corp	FOXA	224.646	42.33	9,509.27	0.03%	1.28%	0.00%	8.68%	0.00%
Fox Corp	FOX	235.581	38.8	9,140.54	0.02%	1.39%	0.00%	8.68%	0.00%
State Street Corp	STT	298.62	87.71	26,191.96	0.07%	3.47%	0.00%	8.82%	0.01%
Norwegian Cruise Line Holdings Ltd	NCLH	439.691	20.51	9,018.06				50.58%	
US Bancorp	USB	1560.514	45.73	71,362.31	0.19%	4.37%	0.01%	5.00%	0.01%
A O Smith Corp	AOS	119.959	89.83	10,775.92		1.42%			
Gen Digital Inc	GEN	615.525	27.43	16,883.85	0.05%	1.82%	0.00%	10.49%	0.00%
T Rowe Price Group Inc	TROW	222.598	108.93	24,247.60	0.07%	4.55%	0.00%	7.30%	0.00%
Waste Management Inc	WM	401.315	207.6	83,312.99	0.22%	1.45%	0.00%	13.29%	0.03%
Palantir Technologies Inc	PLTR	2142.323	37.2	79,694.42				30.06%	
Constellation Brands Inc	STZ	182.192	257.69	46,949.06	0.13%	1.57%	0.00%	11.27%	0.01%
Invesco Ltd	IVZ	450.032	17.56	7,902.56	0.02%	4.67%	0.00%	9.64%	0.00%
Intuit Inc	INTU	280.292	621	174,061.33	0.47%	0.67%	0.00%	18.79%	0.09%
Morgan Stanley	MS	1620.887	104.24	168,961.26	0.46%	3.55%	0.02%	9.60%	0.04%
Microchip Technology Inc	MCHP	536.505	80.29	43,075.99		2.26%		-10.99%	
CrowdStrike Holdings Inc	CRWD	232.717	280.47	65,270.14				35.70%	
Chubb Ltd	CB	403.934	288.39	116,490.53	0.31%	1.26%	0.00%	2.20%	0.01%
Hologic Inc	HOLX	232.272	81.46	18,920.88	0.05%			8.86%	0.00%
Citizens Financial Group Inc	CFG	448.3	41.07	18,411.68		4.09%			
Jabil Inc	JBL	113.445	119.83	13,594.11	0.04%	0.27%	0.00%	10.82%	0.00%
O'Reilly Automotive Inc	ORLY	58.006	1151.6	66,799.71	0.18%			10.21%	0.02%
Allstate Corp/The	ALL	264.041	189.65	50,075.38		1.94%		168.00%	
Equity Residential	EQR	379.136	74.46	28,230.47	0.08%	3.63%	0.00%	2.83%	0.00%
BorgWarner Inc	BWA	227.769	36.29	8,265.74	0.02%	1.21%	0.00%	4.40%	0.00%
Keurig Dr Pepper Inc	KDP	1356.086	37.48	50,826.10	0.14%	2.45%	0.00%	6.90%	0.01%
Host Hotels & Resorts Inc	HST	702.44	17.6	12,362.94		4.55%		-1.83%	
Incyte Corp	INCY	192.598	66.1	12,730.73				33.16%	
Simon Property Group Inc	SPG	326.035	169.02	55,106.44	0.15%	4.85%	0.01%	1.42%	0.00%
Eastman Chemical Co	EMN	116.86	111.95	13,082.48	0.04%	2.89%	0.00%	6.10%	0.00%
AvalonBay Communities Inc	AVB	142.217	225.25	32,034.38	0.09%	3.02%	0.00%	4.93%	0.00%
Prudential Financial Inc	PRU	357	121.1	43,232.70	0.12%	4.29%	0.01%	9.48%	0.01%
United Parcel Service Inc	UPS	732.509	136.34	99,870.28	0.27%	4.78%	0.01%	0.60%	0.00%
Walgreens Boots Alliance Inc	WBA	863.275	8.96	7,734.94		11.16%		-24.69%	
STERIS PLC	STE	98.617	242.54	23,918.57		0.94%			
McKesson Corp	MCK	129.677	494.42	64,114.90	0.17%	0.57%	0.00%	11.18%	0.02%
Lockheed Martin Corp	LMT	238.358	584.56	139,334.55	0.38%	2.16%	0.01%	2.11%	0.01%
Cencora Inc	COR	196.008	225.08	44,117.48	0.12%	0.91%	0.00%	9.84%	0.01%
Capital One Financial Corp	COF	381.856	149.73	57,175.30	0.15%	1.60%	0.00%	12.30%	0.02%
Campbell Soup Co	CPB	298.106	48.92	14,583.35	0.04%	3.03%	0.00%	5.71%	0.00%
Waters Corp	WAT	59.362	359.89	21,363.79	0.06%			7.80%	0.00%
Nordson Corp	NDSN	57.182	262.63	15,017.71		1.19%			
Dollar Tree Inc	DLTR	214.992	70.32	15,118.24	0.04%			6.86%	0.00%
Darden Restaurants Inc	DRI	117.5	164.13	19,285.28	0.05%	3.41%	0.00%	9.75%	0.01%
Evergy Inc	EVERG	229.746	62.01	14,246.55	0.04%	4.14%	0.00%	5.35%	0.00%
Match Group Inc	MTCH	257.895	37.84	9,758.75				36.15%	
Domino's Pizza Inc	DPZ	34.973	430.14	15,043.29	0.04%	1.40%	0.00%	12.56%	0.01%
NVR Inc	NVR	3.078	9811.8	30,200.72	0.08%			7.60%	0.01%
NetApp Inc	NTAP	204.783	123.51	25,292.75	0.07%	1.68%	0.00%	5.34%	0.00%
Old Dominion Freight Line Inc	ODFL	214.297	198.64	42,567.96	0.11%	0.52%	0.00%	2.77%	0.00%
DaVita Inc	DVA	83.9	163.93	13,753.73	0.04%			20.00%	0.01%
Hartford Financial Services Group Inc/The	HIG	293.014	117.61	34,461.38	0.09%	1.60%	0.00%	12.37%	0.01%
Iron Mountain Inc	IRM	293.336	118.83	34,857.12		2.41%			
Estee Lauder Cos Inc/The	EL	233.432	99.69	23,270.84	0.06%	2.65%	0.00%	14.58%	0.01%
Cadence Design Systems Inc	CDNS	273.82	271.03	74,213.43	0.20%			16.20%	0.03%
Tyler Technologies Inc	TYL	42.673	583.72	24,909.08					
Universal Health Services Inc	UHS	59.462	229.01	13,617.39	0.04%	0.35%	0.00%	15.50%	0.01%
Skyworks Solutions Inc	SKWS	159.716	98.77	15,775.15		2.83%		-2.57%	
Quest Diagnostics Inc	DGX	111.317	155.25	17,281.96	0.05%	1.93%	0.00%	6.05%	0.00%
Rockwell Automation Inc	ROK	113.467	268.46	30,461.35	0.08%	1.86%	0.00%	1.73%	0.00%
Kraft Heinz Co/The	KHC	1209.079	35.11	42,450.76	0.11%	4.56%	0.01%	2.51%	0.00%
American Tower Corp	AMT	467.082	232.56	108,624.59	0.29%	2.79%	0.01%	12.31%	0.04%
Regeneron Pharmaceuticals Inc	REGN	108.417	1051.24	113,972.29	0.31%			8.67%	0.03%
Amazon.com Inc	AMZN	10495.567	186.33	1,955,639.00				34.66%	
Jack Henry & Associates Inc	JKHY	72.917	176.54	12,872.77	0.03%	1.25%	0.00%	9.73%	0.00%
Ralph Lauren Corp	RL	40.058	193.87	7,766.04	0.02%	1.70%	0.00%	11.05%	0.00%
BXP Inc	BXP	157.934	80.46	12,707.37	0.03%	4.87%	0.00%	0.90%	0.00%
Amphenol Corp	APH	1204.289	65.16	78,471.47	0.21%	1.01%	0.00%	16.86%	0.04%
Howmet Aerospace Inc	HWM	408.147	100.25	40,916.74		0.32%		22.11%	

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Name	Ticker	Shares Outst'g	Price	Market Capitalization	Weight in Index	Estimated Dividend Yield	Cap-Weighted Dividend Yield	Bloomberg Long-Term Growth Est.	Cap-Weighted Long-Term Growth Est.
Valero Energy Corp	VLO	320.38	135.03	43,260.91		3.17%		-24.00%	
Synopsys Inc	SNPS	153.614	506.39	77,788.59	0.21%			16.33%	0.03%
CH Robinson Worldwide Inc	CHRW	117.283	110.37	12,944.52	0.03%	2.25%	0.00%	17.48%	0.01%
Accenture PLC	ACN	626.384	353.48	221,414.22	0.60%	1.67%	0.01%	8.18%	0.05%
TransDigm Group Inc	TDG	56.111	1427.13	80,077.69	0.22%			19.57%	0.04%
Yum! Brands Inc	YUM	281.165	139.71	39,281.56	0.11%	1.92%	0.00%	11.41%	0.01%
Prologis Inc	PLD	925.911	126.28	116,924.04	0.31%	3.04%	0.01%	5.36%	0.02%
FirstEnergy Corp	FE	575.922	44.35	25,542.14	0.07%	3.83%	0.00%	7.02%	0.00%
VeriSign Inc	VRSN	97.6	189.96	18,540.10					
Quanta Services Inc	PWR	147.33	298.06	43,913.18		0.12%			
Henry Schein Inc	HSIC	126.708	72.9	9,237.01	0.02%			9.01%	0.00%
Ameren Corp	AEE	266.511	87.46	23,309.05	0.06%	3.06%	0.00%	6.08%	0.00%
ANSYS Inc	ANSS	87.387	318.63	27,844.12					
FactSet Research Systems Inc	FDS	38.04	459.85	17,492.69	0.05%	0.90%	0.00%	9.17%	0.00%
NVIDIA Corp	NVDA	24530	121.44	2,978,923.20		0.03%		44.35%	
Cognizant Technology Solutions Corp	CTSH	495.658	77.18	38,254.88	0.10%	1.55%	0.00%	6.20%	0.01%
Intuitive Surgical Inc	ISRG	355.354	491.27	174,574.76	0.47%			17.51%	0.08%
Take-Two Interactive Software Inc	TTWO	175.283	153.71	26,942.75				60.49%	
Republic Services Inc	RSG	314.068	200.84	63,077.42	0.17%	1.16%	0.00%	10.33%	0.02%
eBay Inc	EBAY	489	65.11	31,838.79	0.09%	1.66%	0.00%	10.12%	0.01%
Goldman Sachs Group Inc/The	GS	315.8	495.11	156,355.74	0.42%	2.42%	0.01%	14.20%	0.06%
SBA Communications Corp	SBAC	107.472	240.7	25,868.51	0.07%	1.63%	0.00%	15.96%	0.01%
Sempra	SRE	633.146	83.63	52,950.00	0.14%	2.97%	0.00%	5.35%	0.01%
Moody's Corp	MCO	182.1	474.59	86,422.84	0.23%	0.72%	0.00%	13.00%	0.03%
ON Semiconductor Corp	ON	428.356	72.61	31,102.93	0.08%			1.28%	0.00%
Booking Holdings Inc	BKNG	33.524	4212.12	141,207.11	0.38%	0.83%	0.00%	14.59%	0.06%
F5 Inc	FFIV	58.284	220.2	12,834.14	0.03%			7.83%	0.00%
Akamai Technologies Inc	AKAM	151.526	100.95	15,296.55	0.04%			6.12%	0.00%
Charles River Laboratories International Inc	CRL	51.631	196.97	10,169.76	0.03%			5.20%	0.00%
MarketAxess Holdings Inc	MKTX	37.752	256.2	9,672.06	0.03%	1.16%	0.00%	4.02%	0.00%
Devon Energy Corp	DVN	626.2	39.12	24,496.94	0.07%	2.25%	0.00%	6.60%	0.00%
Bio-Techne Corp	TECH	158.665	79.93	12,682.09	0.03%	0.40%	0.00%	5.00%	0.00%
Alphabet Inc	GOOGL	5859	165.85	971,715.15	2.62%	0.48%	0.01%	15.01%	0.39%
Teleflex Inc	TEF	47.117	247.32	11,652.98	0.03%	0.55%	0.00%	7.95%	0.00%
Allegion plc	ALLE	87.128	145.74	12,698.03	0.03%	1.32%	0.00%	7.73%	0.00%
Netflix Inc	NFLX	429.165	709.27	304,393.86				35.72%	
Agilent Technologies Inc	A	287.328	148.2441	42,594.68	0.11%	0.64%	0.00%	5.74%	0.01%
Warner Bros Discovery Inc	WBD	2451.908	8.25	20,228.24				28.63%	
Elevance Health Inc	ELV	231.886	520	120,580.72	0.32%	1.25%	0.00%	11.79%	0.04%
Trimble Inc	TRMB	244.208	62.09	15,162.87					
CME Group Inc	CME	360.094	220.65	79,454.74	0.21%	2.08%	0.00%	2.96%	0.01%
Juniper Networks Inc	JNPR	329.163	38.98	12,830.77	0.03%	2.26%	0.00%	6.00%	0.00%
BlackRock Inc	BLK	148.128	949.51	140,649.02	0.38%	2.15%	0.01%	9.76%	0.04%
DTE Energy Co	DTE	206.925	128.41	26,571.24	0.07%	3.18%	0.00%	10.27%	0.01%
Nasdaq Inc	NDAQ	575.94	73.01	42,049.38	0.11%	1.31%	0.00%	10.76%	0.01%
Celanese Corp	CE	109.264	135.96	14,855.53	0.04%	2.06%	0.00%	0.56%	0.00%
Philip Morris International Inc	PM	1554.802	121.4	188,752.96	0.51%	4.45%	0.02%	9.36%	0.05%
Salesforce Inc	CRM	956	273.71	261,666.76	0.70%	0.58%	0.00%	17.52%	0.12%
Ingersoll Rand Inc	IR	403.484	98.16	39,605.99		0.08%			
Huntington Ingalls Industries Inc	HII	39.215	264.38	10,367.66	0.03%	1.97%	0.00%	7.62%	0.00%
Roper Technologies Inc	ROP	107.199	556.44	59,649.81		0.54%			
MetLife Inc	MET	700.325	82.48	57,762.81	0.16%	2.64%	0.00%	14.21%	0.02%
Tapestry Inc	TPR	232.603	46.98	10,927.69	0.03%	2.98%	0.00%	5.52%	0.00%
CSX Corp	CSX	1938.74	34.53	66,944.69	0.18%	1.39%	0.00%	8.83%	0.02%
Edwards Lifesciences Corp	EW	602.4	65.99	39,752.38	0.11%			8.56%	0.01%
Ameriprise Financial Inc	AMP	98.189	469.81	46,130.17	0.12%	1.26%	0.00%	16.59%	0.02%
Zebra Technologies Corp	ZBRA	51.58	370.32	19,101.11					
Zimmer Biomet Holdings Inc	ZBH	203.652	107.95	21,984.23	0.06%	0.89%	0.00%	6.46%	0.00%
CBRE Group Inc	CBRE	306.431	124.48	38,144.53					
Camden Property Trust	CPT	106.635	123.53	13,172.62	0.04%	3.34%	0.00%	1.87%	0.00%
Mastercard Inc	MA	916.711	493.8	452,671.89	1.22%	0.53%	0.01%	15.18%	0.19%
CarMax Inc	KMX	154.924	77.38	11,988.02	0.03%			17.91%	0.01%
Intercontinental Exchange Inc	ICE	574.142	160.64	92,230.17	0.25%	1.12%	0.00%	9.95%	0.02%
Smurfit WestRock PLC	SW	519.96	49.42	25,696.42	0.07%	2.45%	0.00%	1.00%	0.00%
Fidelity National Information Services Inc	FIS	545.566	83.75	45,691.15		1.72%		22.20%	
Chipotle Mexican Grill Inc	CMG	1369.476	57.62	78,909.21				22.64%	
Wynn Resorts Ltd	WYNN	110.992	95.88	10,641.91		1.04%		-12.14%	
Live Nation Entertainment Inc	LYV	232.114	109.49	25,414.16				32.54%	
Assurant Inc	AIZ	51.793	198.86	10,299.56	0.03%	1.45%	0.00%	7.14%	0.00%
NRG Energy Inc	NRG	206.38	91.1	18,801.22	0.05%	1.79%	0.00%	4.00%	0.00%
Regions Financial Corp	RF	915.125	23.33	21,349.87	0.06%	4.29%	0.00%	4.68%	0.00%
Monster Beverage Corp	MNST	979.544	52.17	51,102.81	0.14%			10.18%	0.01%
Mosaic Co/The	MOS	318.638	26.78	8,533.13		3.14%		-21.74%	
Baker Hughes Co	BKR	993.424	36.15	35,912.28		2.32%		27.42%	
Expedia Group Inc	EXPE	124.656	148.02	18,451.58	0.05%			19.59%	0.01%
CF Industries Holdings Inc	CF	180.412	85.8	15,479.35		2.33%		-9.54%	
Leidos Holdings Inc	LDOS	134.714	163	21,958.38	0.06%	0.93%	0.00%	11.76%	0.01%
APA Corp	APA	369.905	24.46	9,047.88		4.09%		-7.60%	
Alphabet Inc	GOOG	5585	167.19	933,756.15	2.52%	0.48%	0.01%	15.01%	0.38%
First Solar Inc	FSLR	107.047	249.44	26,701.80				41.25%	
Discover Financial Services	DFS	251.072	140.29	35,222.89	0.09%	2.00%	0.00%	11.62%	0.01%
Visa Inc	V	1670.445	274.95	459,288.85	1.24%	0.76%	0.01%	12.33%	0.15%
Mid-America Apartment Communities Inc	MAA	116.876	158.9	18,571.60	0.05%	3.70%	0.00%	0.65%	0.00%
Xylem Inc/NY	XYL	242.893	135.03	32,797.84		1.07%			
Marathon Petroleum Corp	MPC	334.684	162.01	54,523.37		2.03%		-13.00%	
Advanced Micro Devices Inc	AMD	1618.482	164.08	265,560.53				25.66%	
Tractor Supply Co	TSCO	107.869	290.93	31,382.33	0.08%	1.51%	0.00%	5.68%	0.00%
ResMed Inc	RMD	146.932	244.12	35,869.04	0.10%	0.87%	0.00%	11.49%	0.01%
Mettler-Toledo International Inc	MTD	21.357	1499.7	32,029.09	0.09%			9.15%	0.01%

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Name	Ticker	Shares Outst'g	Price	Market Capitalization	Weight in Index	Estimated Dividend Yield	Cap-Weighted Dividend Yield	Bloomberg Long-Term Growth Est.	Cap-Weighted Long-Term Growth Est.
Jacobs Solutions Inc	J	124.248	130.9	16,264.06	0.04%	0.89%	0.00%	10.87%	0.00%
Copart Inc	CPRT	963.287	52.4	50,476.24					
VICI Properties Inc	VICI	1043.137	33.31	34,746.89	0.09%	5.19%	0.00%	1.83%	0.00%
Fortinet Inc	FTNT	764.908	77.55	59,318.62	0.16%			8.66%	0.01%
Albemarle Corp	ALB	117.533	94.71	11,131.55		1.71%		35.42%	
Moderna Inc	MRNA	384.396	66.83	25,689.18	0.07%			16.57%	0.01%
Essex Property Trust Inc	ESS	64.218	295.42	18,971.28	0.05%	3.32%	0.00%	3.49%	0.00%
CoStar Group Inc	CSGP	409.817	75.44	30,916.59					
Realty Income Corp	O	870.868	63.1565	55,000.97	0.15%	5.01%	0.01%	3.85%	0.01%
Westinghouse Air Brake Technologies Corp	WAB	175.183	181.77	31,843.01	0.09%	0.44%	0.00%	16.12%	0.01%
Pool Corp	POOL	38.258	376.8	14,415.61		1.27%		-0.04%	
Western Digital Corp	WDC	343.452	68.29	23,454.34				-10.00%	
PepsiCo Inc	PEP	1373.572	170.05	233,575.92	0.63%	3.19%	0.02%	6.97%	0.04%
TE Connectivity PLC	TEL	380.372	150.99	57,432.37	0.15%	1.72%	0.00%	7.43%	0.01%
Diamondback Energy Inc	FANG	295.694	172.4	50,977.65	0.14%	5.43%	0.01%	8.34%	0.01%
Palo Alto Networks Inc	PANW	325.6	341.8	111,290.08	0.30%			11.52%	0.03%
ServiceNow Inc	NOW	206	894.39	184,244.34					
Church & Dwight Co Inc	CHD	244.815	104.72	25,637.03	0.07%	1.08%	0.00%	7.35%	0.01%
Federal Realty Investment Trust	FRT	83.67	113.87	9,527.50	0.03%	3.86%	0.00%	4.97%	0.00%
Amentum Holdings Inc	AMTM	153.28	32.25	4,943.28					
MGM Resorts International	MGM	303.77	39.09	11,874.37				20.60%	
American Electric Power Co Inc	AEP	532.12	102.6	54,595.51	0.15%	3.43%	0.01%	6.25%	0.01%
Invitation Homes Inc	INVH	612.594	35.26	21,600.06	0.06%	3.18%	0.00%	4.16%	0.00%
PTC Inc	PTC	120.135	180.66	21,703.59	0.06%			14.76%	0.01%
JB Hunt Transport Services Inc	JBHT	101.987	172.33	17,575.42	0.05%	1.00%	0.00%	9.73%	0.00%
Lam Research Corp	LRCX	129.611	816.08	105,772.94	0.28%	1.13%	0.00%	16.29%	0.05%
Mohawk Industries Inc	MHK	63.117	160.68	10,141.64	0.03%			4.45%	0.00%
Pentair PLC	PNR	165.498	97.79	16,184.05	0.04%	0.94%	0.00%	12.50%	0.01%
GE HealthCare Technologies Inc	GEHC	456.662	93.85	42,857.73	0.12%	0.13%	0.00%	10.92%	0.01%
Vertex Pharmaceuticals Inc	VRTX	258.102	465.08	120,038.08	0.32%			11.00%	0.04%
Amcor PLC	AMCR	1445.343	11.33	16,375.74	0.04%	4.41%	0.00%	3.71%	0.00%
Meta Platforms Inc	META	2184.729	572.44	1,250,626.27	3.37%	0.35%	0.01%	19.80%	0.67%
T-Mobile US Inc	TMUS	1166.784	206.36	240,777.55	0.65%	1.71%	0.01%	5.00%	0.03%
United Rentals Inc	URI	66.136	809.73	53,552.30	0.14%	0.81%	0.00%	7.45%	0.01%
Honeywell International Inc	HON	649.671	206.71	134,293.49	0.36%	2.19%	0.01%	8.65%	0.03%
Alexandria Real Estate Equities Inc	ARE	174.926	118.75	20,772.46	0.06%	4.38%	0.00%	3.03%	0.00%
Delta Air Lines Inc	DAL	645.419	50.79	32,780.83	0.09%	1.18%	0.00%	8.44%	0.01%
Seagate Technology Holdings PLC	STX	210.49	109.53	23,054.97		2.56%			
United Airlines Holdings Inc	UAL	328.803	57.06	18,761.50	0.05%			2.27%	0.00%
News Corp	NWS	190.083	27.95	5,312.82		0.72%			
Centene Corp	CNC	526.03	75.28	39,599.54	0.11%			4.40%	0.00%
Martin Marietta Materials Inc	MLM	61.117	538.25	32,896.23	0.09%	0.59%	0.00%	7.47%	0.01%
Teradyne Inc	TER	163.176	133.93	21,854.16	0.06%	0.36%	0.00%	16.14%	0.01%
PayPal Holdings Inc	PYPL	1022.333	78.03	79,772.64	0.21%			12.03%	0.03%
Tesla Inc	TSLA	3194.64	261.63	835,813.66				-11.00%	
Arch Capital Group Ltd	ACGL	376.058	111.88	42,073.37	0.11%			6.13%	0.01%
KKR & Co Inc	KKR	887.44	130.58	115,881.92		0.54%		29.00%	
Dow Inc	DOW	703.268	54.63	38,419.53		5.13%		-2.67%	
Everest Group Ltd	EG	43.274	391.83	16,956.05	0.05%	2.04%	0.00%	2.33%	0.00%
Teledyne Technologies Inc	TDY	46.784	437.66	20,475.49	0.06%			7.34%	0.00%
GE Vernova Inc	GEV	274.802	254.98	70,069.01				80.76%	
News Corp	NWSA	379.531	26.63	10,106.91		0.75%			
Exelon Corp	EXC	999.735	40.55	40,539.25	0.11%	3.75%	0.00%	5.31%	0.01%
Global Payments Inc	GPX	254.437	102.42	26,059.44	0.07%	0.98%	0.00%	8.80%	0.01%
Crown Castle Inc	CCI	434.567	118.63	51,552.68	0.14%	5.28%	0.01%	1.13%	0.00%
Aptiv PLC	APTIV	265.76	72.01	19,137.38	0.05%			16.91%	0.01%
Align Technology Inc	ALGN	74.697	254.32	18,996.94	0.05%			9.53%	0.00%
Kenvue Inc	KVUE	1915.167	23.13	44,297.81	0.12%	3.55%	0.00%	13.58%	0.02%
Targa Resources Corp	TRGP	219.08	148.01	32,426.03	0.09%	2.03%	0.00%	16.74%	0.01%
Bunge Global SA	BG	141.651	96.64	13,689.15		2.81%		-8.59%	
Deckers Outdoor Corp	DECK	152.463	159.45	24,310.23	0.07%			10.80%	0.01%
LKQ Corp	LKQ	263.256	39.92	10,509.18		3.01%			
Zoetis Inc	ZTS	453.051	195.38	88,517.10	0.24%	0.88%	0.00%	10.36%	0.02%
Digital Realty Trust Inc	DLR	327.411	161.83	52,984.92	0.14%	3.02%	0.00%	3.21%	0.00%
Equinix Inc	EQIX	94.945	887.63	84,276.03	0.23%	1.92%	0.00%	14.03%	0.03%
Las Vegas Sands Corp	LVS	736.432	50.34	37,071.99		1.59%			
Molina Healthcare Inc	MOH	58.6	344.56	20,191.22	0.05%			11.98%	0.01%

## Notes:

[1] Equals sum of Col. [9]

[2] Equals sum of Col. [11]

[3] Equals ([1] x (1 + (0.5 x [2]))) + [2]

[4] Bloomberg Professional as of September 30, 2024

[5] Bloomberg Professional as of September 30, 2024

[6] Equals [4] x [5]

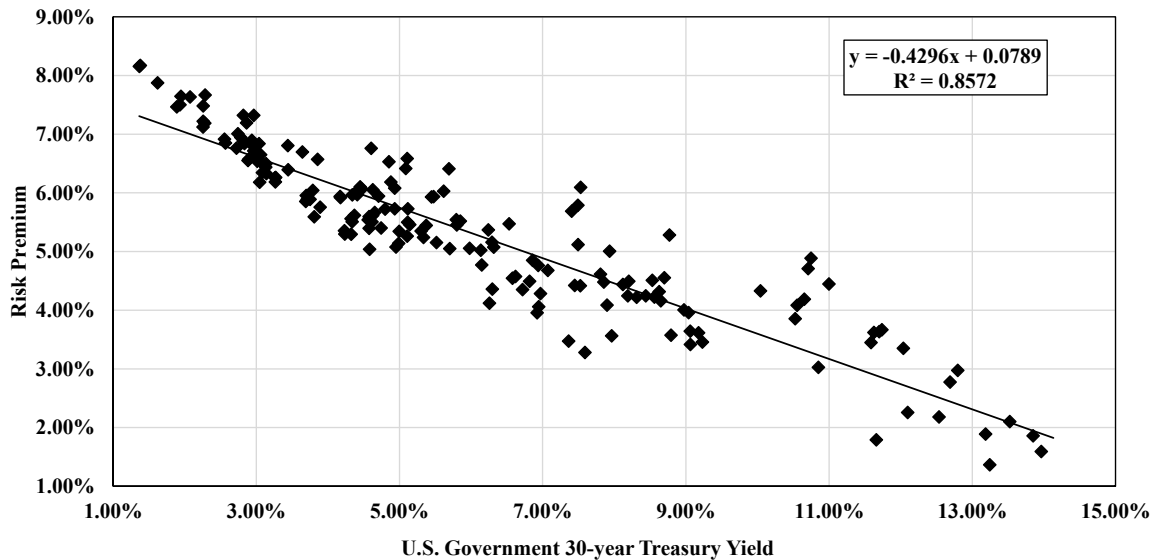
[7] Equals weight in S&amp;P 500 based on market capitalization [6] if Growth Rate &gt;0% and ≤20%

[8] Source: Bloomberg Professional, as of September 30, 2024

[9] Equals [7] x [8]

[10] Bloomberg Professional, as of September 30, 2024

[11] Equals [7] x [10]



## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.9258710
R Square	0.8572370
Adjusted R Square	0.8564118
Standard Error	0.0054250
Observations	175

## ANOVA

	df	SS	MS	F	Significance F
Regression	1	0.03057	0.03057	1,038.79871	0.00000
Residual	173	0.00509	0.00003		
Total	174	0.03566			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	0.0789	0.00	87.26	0.0000	0.0772	0.0807	0.0772	0.0807
U.S. Govt. 30-year Treasury	(0.4296)	0.01	(32.23)	0.0000	(0.4559)	(0.4033)	(0.4559)	(0.4033)

	[7] U.S. Govt. 30-year Treasury	[8] Risk Premium	[9] ROE
Current 30-day average of 30-year U.S. Treasury bond yield [4]	4.07%	6.15%	10.22%
Blue Chip Near-Term Projected Forecast (Q1 2025 - Q1 2026) [5]	4.02%	6.17%	10.19%
Blue Chip Long-Term Projected Forecast (2026-2030) [6]	4.30%	6.05%	10.35%
AVERAGE			10.25%

## Notes:

[1] Regulatory Research Associates, rate cases through September 30, 2024

[2] S&amp;P Capital IQ Pro, quarterly bond yields are the average of each trading day in the quarter

[3] Equals Column [1] – Column [2]

[4] S&amp;P Capital IQ Pro, 30-day average as of September 30, 2024

[5] Blue Chip Financial Forecasts, Vol. 43, No. 6, October 1, 2024, at 2

[6] Blue Chip Financial Forecasts, Vol. 43, No. 6, May 31, 2024, at 14

[7] See notes [4], [5] &amp; [6]

[8] Equals 0.078948 + (-0.429628 x Column [7])

[9] Equals Column [7] + Column [8]

## BOND YIELD PLUS RISK PREMIUM

Quarter	[1]	[2]	[3]
	Average Authorized Natural Gas ROE	U.S. Govt. 30- year Treasury	Risk Premium
1980.1	13.45%	11.66%	1.79%
1980.2	14.38%	10.52%	3.85%
1980.3	13.87%	10.85%	3.02%
1980.4	14.35%	12.10%	2.25%
1981.1	14.71%	12.53%	2.18%
1981.2	14.61%	13.24%	1.36%
1981.3	14.86%	14.13%	0.72%
1981.4	15.70%	13.85%	1.86%
1982.1	15.55%	13.96%	1.59%
1982.2	15.62%	13.52%	2.10%
1982.3	15.77%	12.79%	2.97%
1982.4	15.63%	10.75%	4.89%
1983.1	15.41%	10.71%	4.71%
1983.2	14.84%	10.65%	4.19%
1983.3	15.24%	11.62%	3.62%
1983.4	15.40%	11.74%	3.66%
1984.1	15.39%	12.04%	3.35%
1984.2	15.07%	13.18%	1.89%
1984.3	15.46%	12.69%	2.77%
1984.4	15.33%	11.70%	3.63%
1985.1	15.03%	11.58%	3.45%
1985.2	15.44%	11.00%	4.45%
1985.3	14.64%	10.55%	4.08%
1985.4	14.37%	10.04%	4.33%
1986.1	14.05%	8.77%	5.28%
1986.2	13.28%	7.49%	5.79%
1986.3	13.09%	7.40%	5.69%
1986.4	13.62%	7.53%	6.09%
1987.1	12.61%	7.49%	5.11%
1987.2	13.04%	8.53%	4.51%
1987.3	12.70%	9.06%	3.64%
1987.4	12.69%	9.23%	3.46%
1988.1	12.94%	8.63%	4.31%
1988.2	12.48%	9.06%	3.41%
1988.3	12.79%	9.18%	3.61%
1988.4	12.98%	8.97%	4.00%
1989.1	12.99%	9.04%	3.96%
1989.2	13.25%	8.70%	4.55%
1989.3	12.56%	8.12%	4.44%
1989.4	12.94%	7.93%	5.00%
1990.1	12.68%	8.44%	4.24%
1990.2	12.81%	8.65%	4.16%
1990.3	12.36%	8.79%	3.57%
1990.4	12.78%	8.56%	4.22%
1991.1	12.69%	8.20%	4.49%
1991.2	12.53%	8.31%	4.22%
1991.3	12.43%	8.19%	4.24%
1991.4	12.33%	7.85%	4.48%
1992.1	12.42%	7.81%	4.61%
1992.2	11.98%	7.90%	4.09%
1992.3	11.87%	7.45%	4.42%
1992.4	11.94%	7.52%	4.42%
1993.1	11.75%	7.07%	4.68%
1993.2	11.71%	6.86%	4.85%
1993.3	11.39%	6.32%	5.07%
1993.4	11.16%	6.14%	5.02%
1994.1	11.12%	6.58%	4.54%
1994.2	10.84%	7.36%	3.47%
1994.3	10.87%	7.59%	3.28%

	[1]	[2]	[3]
	Average		
Quarter	Authorized Natural Gas ROE	U.S. Govt. 30- year Treasury	Risk Premium
1994.4	11.53%	7.96%	3.56%
1995.2	11.00%	6.94%	4.06%
1995.3	11.07%	6.72%	4.35%
1995.4	11.61%	6.24%	5.37%
1996.1	11.45%	6.29%	5.16%
1996.2	10.88%	6.92%	3.95%
1996.3	11.25%	6.97%	4.28%
1996.4	11.19%	6.62%	4.57%
1997.1	11.31%	6.82%	4.49%
1997.2	11.70%	6.94%	4.76%
1997.3	12.00%	6.53%	5.47%
1997.4	10.92%	6.15%	4.77%
1998.2	11.37%	5.85%	5.52%
1998.3	11.41%	5.48%	5.93%
1998.4	11.69%	5.11%	6.58%
1999.1	10.82%	5.37%	5.44%
1999.2	11.25%	5.80%	5.45%
1999.4	10.38%	6.26%	4.12%
2000.1	10.66%	6.30%	4.36%
2000.2	11.03%	5.98%	5.05%
2000.3	11.33%	5.79%	5.54%
2000.4	12.10%	5.69%	6.41%
2001.1	11.38%	5.45%	5.93%
2001.2	10.75%	5.70%	5.05%
2001.4	10.65%	5.30%	5.35%
2002.1	10.67%	5.52%	5.15%
2002.2	11.64%	5.62%	6.03%
2002.3	11.50%	5.09%	6.41%
2002.4	11.01%	4.93%	6.08%
2003.1	11.38%	4.85%	6.53%
2003.2	11.36%	4.60%	6.76%
2003.3	10.61%	5.11%	5.50%
2003.4	10.84%	5.11%	5.73%
2004.1	11.06%	4.88%	6.18%
2004.2	10.57%	5.34%	5.24%
2004.3	10.37%	5.11%	5.26%
2004.4	10.66%	4.93%	5.73%
2005.1	10.65%	4.71%	5.94%
2005.2	10.54%	4.47%	6.07%
2005.3	10.47%	4.42%	6.05%
2005.4	10.32%	4.65%	5.66%
2006.1	10.68%	4.63%	6.05%
2006.2	10.60%	5.14%	5.46%
2006.3	10.34%	5.00%	5.34%
2006.4	10.14%	4.74%	5.40%
2007.1	10.52%	4.80%	5.72%
2007.2	10.13%	4.99%	5.14%
2007.3	10.03%	4.95%	5.08%
2007.4	10.12%	4.61%	5.50%
2008.1	10.38%	4.41%	5.97%
2008.2	10.17%	4.57%	5.59%
2008.3	10.55%	4.45%	6.10%
2008.4	10.34%	3.64%	6.69%
2009.1	10.24%	3.44%	6.80%
2009.2	10.11%	4.17%	5.94%
2009.3	9.88%	4.32%	5.56%
2009.4	10.31%	4.34%	5.97%
2010.1	10.24%	4.62%	5.61%
2010.2	9.99%	4.37%	5.62%
2010.3	10.43%	3.86%	6.57%
2010.4	10.09%	4.17%	5.92%

	[1]	[2]	[3]
	Average		
Quarter	Authorized Natural Gas ROE	U.S. Govt. 30- year Treasury	Risk Premium
2011.1	10.10%	4.56%	5.54%
2011.2	9.85%	4.34%	5.51%
2011.3	9.65%	3.70%	5.95%
2011.4	9.88%	3.04%	6.84%
2012.1	9.63%	3.14%	6.50%
2012.2	9.83%	2.94%	6.89%
2012.3	9.75%	2.74%	7.01%
2012.4	10.06%	2.86%	7.19%
2013.1	9.57%	3.13%	6.44%
2013.2	9.47%	3.14%	6.33%
2013.3	9.60%	3.71%	5.89%
2013.4	9.83%	3.79%	6.04%
2014.1	9.54%	3.69%	5.85%
2014.2	9.84%	3.44%	6.39%
2014.3	9.45%	3.27%	6.18%
2014.4	10.28%	2.96%	7.32%
2015.1	9.47%	2.55%	6.91%
2015.2	9.43%	2.88%	6.55%
2015.3	9.75%	2.96%	6.79%
2015.4	9.68%	2.96%	6.71%
2016.1	9.48%	2.72%	6.76%
2016.2	9.42%	2.57%	6.85%
2016.3	9.47%	2.28%	7.19%
2016.4	9.67%	2.83%	6.84%
2017.1	9.60%	3.05%	6.55%
2017.2	9.47%	2.90%	6.57%
2017.3	10.14%	2.82%	7.32%
2017.4	9.70%	2.82%	6.88%
2018.1	9.68%	3.02%	6.66%
2018.2	9.43%	3.09%	6.34%
2018.3	9.71%	3.06%	6.65%
2018.4	9.53%	3.27%	6.26%
2019.1	9.55%	3.01%	6.54%
2019.2	9.73%	2.78%	6.94%
2019.3	9.95%	2.29%	7.67%
2019.4	9.74%	2.26%	7.48%
2020.1	9.35%	1.89%	7.46%
2020.2	9.55%	1.38%	8.17%
2020.3	9.52%	1.37%	8.15%
2020.4	9.50%	1.62%	7.87%
2021.1	9.71%	2.07%	7.63%
2021.2	9.48%	2.26%	7.22%
2021.3	9.43%	1.93%	7.50%
2021.4	9.59%	1.95%	7.65%
2022.1	9.38%	2.25%	7.12%
2022.2	9.23%	3.05%	6.18%
2022.3	9.52%	3.26%	6.26%
2022.4	9.65%	3.89%	5.75%
2023.1	9.64%	3.75%	5.89%
2023.2	9.40%	3.81%	5.59%
2023.3	9.53%	4.23%	5.30%
2023.4	9.62%	4.58%	5.04%
2024.1	9.62%	4.32%	5.29%
2024.2	9.97%	4.58%	5.40%
2024.3	9.58%	4.23%	5.35%
AVERAGE	11.35%	6.05%	5.30%
MEDIAN	10.75%	5.11%	5.47%

**SIZE PREMIUM CALCULATION**

## Proxy Group Market Capitalization

		[1] Market Capitalization (\$ billions)
Company	Ticker	
Atmos Energy Corporation	ATO	17.48
NiSource Inc.	NI	11.15
Northwest Natural Gas Company	NWN	1.49
ONE Gas Inc.	OGS	4.25
Southwest Gas Corporation	SWX	4.62
Spire, Inc.	SR	3.20
Median		4.43

Montana-Dakota Utilities Co.			
Test Year Rate Base (\$millions)	[2]	\$	29.94
Company-Projected Common Equity Ratio	[3]		50.18%
Common Equity (\$millions)	[4]	\$	15.02
Market Capitalization of Proxy Group (median) (\$millions)	[5]	\$	4,434.75

## Kroll Cost of Capital Navigator -- Size Premium

		[6] Market Capitalization of Largest Company (\$ millions)	[7] Size Premium
Breakdown of Deciles 1-10			
1-Largest		2,662,326.05	-0.06%
2		36,391.11	0.46%
3		14,820.05	0.61%
4		7,461.28	0.64%
5		4,621.79	0.95%
6		3,010.81	1.21%
7		1,862.49	1.39%
8		1,046.04	1.14%
9		554.52	1.99%
10-Smallest		212.64	4.70%
Montana-Dakota Utilities Co. Common Equity	[4]	\$ 15.02	4.70%
Proxy Group Market Capitalization (median)	[5]	\$ 4,434.75	0.95%
Size Premium	[8]		3.75%

## Notes:

[1] S&amp;P Capital IQ Pro, equals 30-day average as of September 30, 2024

[2] Data provided by the Company

[3] Data provided by the Company

[4] Equals [2] x [3]

[5] Equals median market capitalization of proxy group x 1000

[6]-[7] Kroll Cost of Capital Navigator - Size Premium: Annual Data as of 12/31/2023

[8] Size Premium of Montana-Dakota Utilities Co. less Size Premium of Proxy Group

FLOTATION COST ADJUSTMENT

			[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]
Company	Ticker	Date [i]	Shares Issued (000)	Offering Price	Under-writing Discount [ii]	Offering Expense (\$000)	Net Proceeds Per Share	Total Flotation Costs (\$000)	Gross Equity Issue Before Costs (\$000)	Net Proceeds (\$000)	Flotation Cost Percentage
MDU Resources Group	MDU	2/4/2004	2,300	23.32	0.793	350	22.37	2,174	53,636	51,462	4.05%
MDU Resources Group	MDU	11/19/2002	2,400	24.00	0.720	193	23.20	1,921	57,600	55,679	3.34%
								\$ 4,095	\$ 111,236	\$ 107,141	3.68%

[i] Offering Completion Date

[ii] Underwriting discount is calculated as the market price minus the offering price when not explicitly given in the prospectus.

The flotation cost adjustment is derived by dividing the dividend yield by 1 – F (where F = flotation costs expressed in percentage terms), or by 0.9632, and adding that result to the constant growth rate to determine the cost of equity. Using the formulas shown previously in my testimony, the Constant Growth DCF calculation is modified as follows to accommodate an adjustment for flotation costs:

$$k = \frac{D \times (1 + 0.5g)}{P \times (1 - F)} + g$$

			[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	
													Cost of Equity Adjusted for Flotation Costs	
Company	Ticker	Annualized Dividend	Stock Price	Dividend Yield	Expected Dividend Yield	Expected Dividend Yield Adjusted for Flotation Costs	Value Line Earnings Growth	Yahoo! Finance Earnings Growth	Zacks Earnings Growth	Average Earnings Growth	Cost of Equity: Mean Growth Rate			
Atmos Energy Corporation	ATO	\$ 3.22	\$ 133.50	2.41%	2.50%	2.59%	7.00%	7.40%	7.00%	7.13%	9.63%		9.73%	
NiSource Inc.	NI	\$ 1.06	\$ 33.46	3.17%	3.30%	3.42%	9.50%	7.70%	7.00%	8.07%	11.36%		11.49%	
Northwest Natural Gas Company	NWN	\$ 1.95	\$ 39.87	4.89%	5.00%	5.20%	6.50%	2.80%	n/a	4.65%	9.65%		9.85%	
ONE Gas, Inc.	OGS	\$ 2.64	\$ 70.80	3.73%	3.81%	3.96%	3.50%	5.00%	5.00%	4.50%	8.31%		8.46%	
Southwest Gas Corporation	SWX	\$ 2.48	\$ 72.18	3.44%	3.55%	3.69%	10.00%	4.00%	6.00%	6.67%	10.22%		10.35%	
Spire, Inc.	SR	\$ 3.02	\$ 65.59	4.60%	4.73%	4.91%	4.50%	6.36%	5.00%	5.29%	10.01%		10.19%	
Mean											9.87%		10.01%	
Median											9.83%		10.02%	
Flotation Cost Adjustment (Mean)													0.15%	[21]
Flotation Cost Adjustment (Median)													0.19%	[22]

Notes:

[1] - [4] Sources: MDU Resources Group - Prospectus dated February 4, 2004 and Prospectus dated November 19, 2002.

[5] Equals [8]/[1]

[6] Equals [4] + ([1] x [3])

[7] Equals [1] x [2]

[8] Equals [7] - [6]

[9] Equals [6] / [7]

[10] Bloomberg Professional

[11] Bloomberg Professional, equals 30-day average as of September 30, 2024

[12] Equals [10] / [11]

[13] Equals [12] x (1 + 0.5 x [18])

[14] Equals [13] / (1 - Flotation Cost)

[15] Value Line

[16] Yahoo! Finance

[17] Zacks Investment Research

[18] Equals Average of [15], [16], [17]

[19] Equals [13] + [18]

[20] Equals [14] + [18]

[21] Equals [20] (Mean) - [19] (Mean)

[22] Equals [20] (Median) - [19] (Median)

PROJECTED CAPITAL EXPENDITURES AS A PERCENT OF 2023 NET PLANT  
(\$ Millions)

		[1]	[2]	[3]	[4]	[5]	[6]	[7]
		2023	2025	2026	2027	2028	2029	Projected Cap. Ex. / 2023 Net Plant
Atmos Energy Corporation	ATO							
Capital Spending per Share			\$20.25	\$20.25	\$20.00	\$20.00	\$20.00	
Common Shares Outstanding			158.00	158.00	175.00	175.00	175.00	
Capital Expenditures			\$3,199.5	\$3,199.5	\$3,500.0	\$3,500.0	\$3,500.0	86.2%
Net Plant		\$19,607.0						
NiSource Inc.	NI							
Capital Spending per Share			\$6.50	\$6.50	\$7.00	\$7.00	\$7.00	
Common Shares Outstanding			450.00	450.00	450.00	450.00	450.00	
Capital Expenditures			\$2,925.0	\$2,925.0	\$3,150.0	\$3,150.0	\$3,150.0	68.7%
Net Plant		\$22,275.0						
Northwest Natural Gas Company	NWN							
Capital Spending per Share			\$9.50	\$9.50	\$10.00	\$10.00	\$10.00	
Common Shares Outstanding			42.00	42.00	45.00	45.00	45.00	
Capital Expenditures			\$399.0	\$399.0	\$450.0	\$450.0	\$450.0	64.0%
Net Plant		\$3,358.0						
ONE Gas, Inc.	OGS							
Capital Spending per Share			\$12.30	\$12.30	\$12.60	\$12.60	\$12.60	
Common Shares Outstanding			56.50	56.50	57.00	57.00	57.00	
Capital Expenditures			\$695.0	\$695.0	\$718.2	\$718.2	\$718.2	57.8%
Net Plant		\$6,135.2						
Southwest Gas Corporation	SWX							
Capital Spending per Share			\$12.50	\$12.50	\$12.00	\$12.00	\$12.00	
Common Shares Outstanding			73.00	73.00	75.00	75.00	75.00	
Capital Expenditures			\$912.5	\$912.5	\$900.0	\$900.0	\$900.0	60.19%
Net Plant		\$7,518.2						
Spire, Inc.	SR							
Capital Spending per Share			\$11.25	\$11.25	\$14.50	\$14.50	\$14.50	
Common Shares Outstanding			60.00	60.00	62.00	62.00	62.00	
Capital Expenditures			\$675.0	\$675.0	\$899.0	\$899.0	\$899.0	70.0%
Net Plant		\$5,778.9						
Montana-Dakota Utilities Co.	MDU							
Capital Expenditures [8]			\$6.00	\$6.20	\$7.71	\$6.73	\$8.18	139.3%
Net Plant [9]		\$25.0						

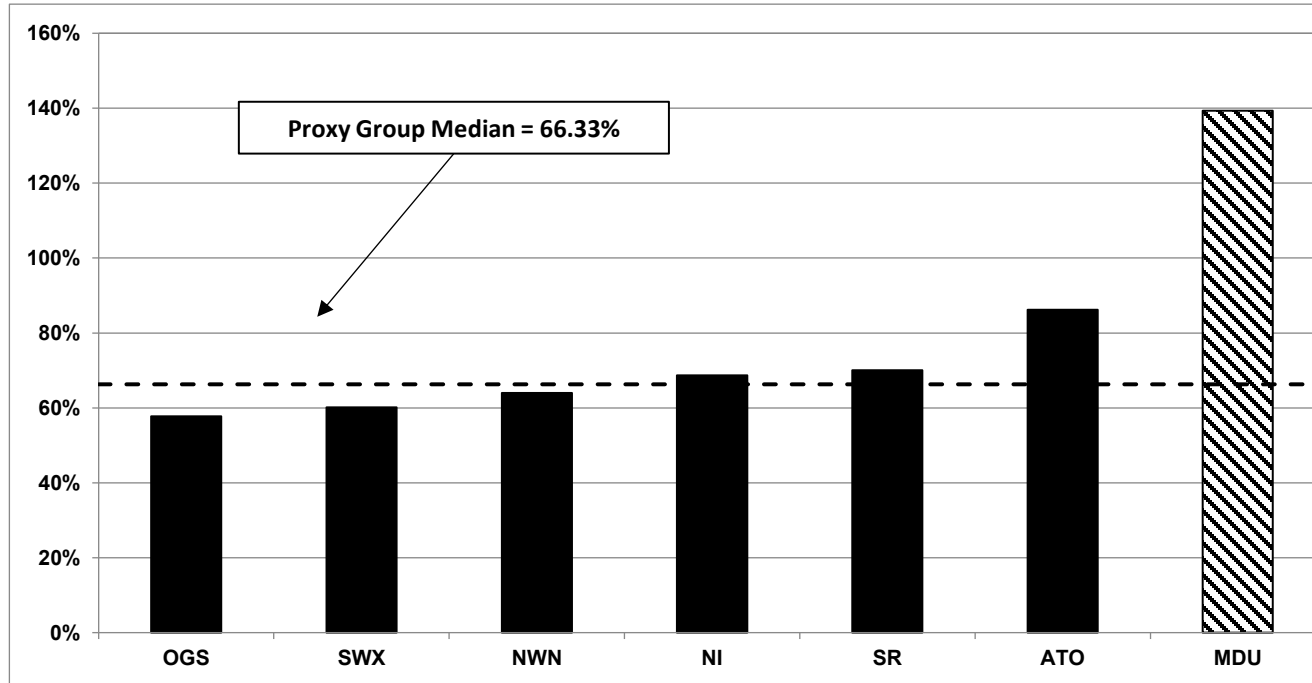
## Notes:

[1] - [6] Value Line, as of September 30, 2024

[7] Equals (Column [2] + [3] + [4] + [5] + [6]) / Column [1]

[8] Company Provided Data

[9] Company Provided Data

**PROJECTED CAPITAL EXPENDITURES AS A PERCENT OF 2023 NET PLANT****Projected CAPEX / 2023 Net Plant**

Rank	Company	Percent
1	ONE Gas, Inc.	OGS 57.8%
2	Southwest Gas Corporation	SWX 60.2%
3	Northwest Natural Gas Company	NWN 64.0%
4	NiSource Inc.	NI 68.7%
5	Spire, Inc.	SR 70.0%
6	Atmos Energy Corporation	ATO 86.2%
7	Montana-Dakota Utilities Co.	MDU 139.3%
Proxy Group Median		66.33%
MDU as % of Median		2.10

Notes:

Source: Schedule 11, pp. 1 col. [7]

**COMPARISON OF  
REGULATORY RISK ASSESSMENT**

Company	Operating Subsidiary	State	Utility Type	Test Year Convention	[1]	[2]	[3] Revenue Stabilization		[5]	[6]
							Formula-Based Rates	Straight Fixed Variable Rate Design		
						Revenue Decoupling		Overall Revenue Stabilization		Capital Cost Recovery
Atmos Energy Corporation	Atmos Energy Corporation	Kansas	Gas	Historical		Partial	No	No	Yes	Yes
	Atmos Energy Corporation	Kentucky	Gas	Fully Forecast		Partial	No	No	Yes	Yes
	Atmos Energy Corporation	Louisiana	Gas	Historical		Partial	Yes	No	Yes	No
	Atmos Energy Corporation	Mississippi	Gas	Historical		Partial	Yes	No	Yes	Yes
	Atmos Energy Corporation	Tennessee	Gas	Historical		Partial	Yes	No	Yes	No
	Atmos Energy Corporation	Texas	Gas	Historical		Partial	Yes	No	Yes	Yes
NiSource Inc.										
	Northern Indiana Public Service Co.	Indiana	Electric	Fully Forecast		Partial	No	No	Yes	Yes
	Northern Indiana Public Service Co.	Indiana	Gas	Fully Forecast		No	No	No	No	Yes
	Columbia Gas of Kentucky Inc.	Kentucky	Gas	Fully Forecast		Partial	No	No	Yes	Yes
	Columbia Gas of Maryland Inc.	Maryland	Gas	Partially Forecast		Partial	No	No	Yes	Yes
	Columbia Gas of Ohio Inc.	Ohio	Gas	Partially Forecast		No	No	Yes	Yes	Yes
	Columbia Gas of Pennsylvania Inc.	Pennsylvania	Gas	Fully Forecast		Partial	No	No	Yes	Yes
Northwest Natural Gas Company	Columbia Gas of Virginia Inc.	Virginia	Gas	Historical		Partial	No	No	Yes	Yes
	Northwest Natural Gas Co.	Oregon	Gas	Fully Forecast		Partial	No	No	Yes	Yes
	Northwest Natural Gas Co.	Washington	Gas	Historical		No	No	No	No	No
ONE Gas, Inc.										
	Kansas Gas Service Co.	Kansas	Gas	Historical		Partial	No	No	Yes	Yes
	Oklahoma Natural Gas Co.	Oklahoma	Gas	Historical		Partial	Yes	No	Yes	No
Southwest Gas Corporation	Texas Gas Service Co. Inc.	Texas	Gas	Historical		Partial	Yes	No	Yes	Yes
	Southwest Gas Corporation	Arizona	Gas	Historical		Full	No	No	Yes	Yes
	Southwest Gas Corporation	California	Gas	Fully Forecast		Full	No	No	Yes	No
	Southwest Gas Corporation	Nevada	Gas	Historical		Full	No	No	Yes	Yes
Spire, Inc.										
	Spire Alabama Inc.	Alabama	Gas	Fully Forecast		Partial	Yes	No	Yes	No
	Spire Gulf Inc.	Alabama	Gas	Fully Forecast		Partial	Yes	No	Yes	No
	Spire Missouri Inc.	Missouri	Gas	Partially Forecast		Partial	No	No	Yes	Yes
Proxy Group Totals			Fully Forecast	9						
			Partially Forecast	3					Yes	22
			Historical	12					No	2
			% Forecast	50.0%					% Yes	91.7%
									% Yes	70.8%
Montana-Dakota [7]		Wyoming	Gas	Historical		Partial	No	No	Yes	No

## Notes:

[1] Regulatory Research Associates, Rate Case History, Company Tariffs, Company Form 10-K.

[2] S&amp;P Global Market Intelligence, Regulatory Focus: Adjustment Clauses, dated July 18, 2022. Operating subsidiaries not covered in this report were excluded from this exhibit.

[3] Company Form 10-K, Company Tariffs, S&amp;P Capital IQ Pro

[4] Company Form 10-K, Company Tariffs, S&amp;P Capital IQ Pro

[5] Equals IF( AND( [3]=No, [4]=No, [5]=No), No, Yes)

[6] S&amp;P Global Market Intelligence, Regulatory Focus: Adjustment Clauses, dated July 18, 2022.

[7] Data provided by the Company

## CAPITAL STRUCTURE ANALYSIS

COMMON EQUITY RATIO [1]					
Proxy Group Company	Ticker	2023	2022	2021	3-yr Avg.
Atmos Energy Corporation	ATO	60.20%	60.01%	59.88%	60.03%
NiSource Inc.	NI	55.44%	54.17%	54.85%	54.82%
Northwest Natural Gas Company	NWN	46.96%	47.72%	44.08%	46.25%
One Gas Inc.	OGS	60.41%	58.24%	61.09%	59.92%
Southwest Gas Corporation	SWX	47.45%	42.33%	45.87%	45.22%
Spire Inc.	SR	46.19%	47.22%	48.62%	47.34%
Proxy Group					
MEAN		52.78%	51.62%	52.40%	52.26%
LOW		46.19%	42.33%	44.08%	45.22%
HIGH		60.41%	60.01%	61.09%	60.03%

COMMON EQUITY RATIO - UTILITY OPERATING COMPANIES					
Company Name	Ticker	2023	2022	2021	3-yr Avg.
Atmos Energy Corporation	ATO	60.20%	60.01%	59.88%	60.03%
Northern Indiana Public Service Company LLC	NI	59.26%	56.92%	58.59%	58.26%
Columbia Gas of Kentucky, Inc.	NI	53.66%	54.91%	53.87%	54.15%
Columbia Gas of Maryland, Inc.	NI	52.00%	51.96%	55.26%	53.07%
Columbia Gas of Ohio, Inc.	NI	50.50%	50.67%	50.79%	50.65%
Columbia Gas of Pennsylvania, Inc.	NI	55.88%	56.64%	56.05%	56.19%
Columbia Gas of Virginia, Inc.	NI	45.25%	44.25%	44.52%	44.67%
Northwest Natural Gas Company	NWN	46.96%	47.72%	44.08%	46.25%
Kansas Gas Service Company, Inc.	OGS	60.44%	58.37%	61.37%	60.06%
Oklahoma Natural Gas Company	OGS	60.46%	58.26%	60.99%	59.90%
Texas Gas Service Company, Inc.	OGS	60.35%	58.13%	60.98%	59.82%
Southwest Gas Corporation	SWX	47.45%	42.33%	45.87%	45.22%
Spire Alabama Inc.	SR	51.50%	52.01%	54.91%	52.81%
Spire Gulf Inc.	SR	44.44%	41.35%	41.14%	42.31%
Spire Mississippi Inc.	SR	36.88%	38.02%	39.18%	38.03%
Spire Missouri Inc.	SR	44.11%	45.49%	46.20%	45.27%

Notes:

[1] Ratios are weighted by actual common capital, preferred equity, long-term debt and short-term debt of Operating Subsidiaries.

## CAPITAL STRUCTURE ANALYSIS

LONG-TERM DEBT RATIO [1]					
Proxy Group Company	Ticker	2023	2022	2021	3-yr Avg.
Atmos Energy Corporation	ATO	39.80%	39.99%	40.12%	39.97%
NiSource Inc.	NI	44.56%	45.83%	45.15%	45.18%
Northwest Natural Gas Company	NWN	52.40%	45.46%	44.85%	47.57%
One Gas Inc.	OGS	25.06%	41.76%	38.91%	35.24%
Southwest Gas Corporation	SWX	52.55%	53.97%	49.59%	52.04%
Spire Inc.	SR	42.51%	39.45%	40.00%	40.65%
<b>Proxy Group</b>					
MEAN		42.81%	44.41%	43.10%	43.44%
LOW		25.06%	39.45%	38.91%	35.24%
HIGH		52.55%	53.97%	49.59%	52.04%

LONG-TERM DEBT RATIO - UTILITY OPERATING COMPANIES					
Company Name	Ticker	2023	2022	2021	3-yr Avg.
Atmos Energy Corporation	ATO	39.80%	39.99%	40.12%	39.97%
Northern Indiana Public Service Company LLC	NI	40.74%	43.08%	41.41%	41.74%
Columbia Gas of Kentucky, Inc.	NI	46.34%	45.09%	46.13%	45.85%
Columbia Gas of Maryland, Inc.	NI	48.00%	48.04%	44.74%	46.93%
Columbia Gas of Ohio, Inc.	NI	49.50%	49.33%	49.21%	49.35%
Columbia Gas of Pennsylvania, Inc.	NI	44.12%	43.36%	43.95%	43.81%
Columbia Gas of Virginia, Inc.	NI	54.75%	55.75%	55.48%	55.33%
Northwest Natural Gas Company	NWN	52.40%	45.46%	44.85%	47.57%
Kansas Gas Service Company, Inc.	OGS	39.56%	41.63%	38.63%	39.94%
Oklahoma Natural Gas Company	OGS	39.54%	41.74%	39.01%	40.10%
Texas Gas Service Company, Inc.	OGS	0.00%	41.87%	39.02%	26.96%
Southwest Gas Corporation	SWX	52.55%	53.97%	49.59%	52.04%
Spire Alabama Inc.	SR	41.62%	33.01%	42.04%	38.89%
Spire Gulf Inc.	SR	51.30%	38.77%	42.00%	44.02%
Spire Mississippi Inc.	SR	0.00%	0.00%	0.00%	0.00%
Spire Missouri Inc.	SR	42.96%	42.91%	39.42%	41.76%

Notes:

[1] Ratios are weighted by actual common capital, preferred equity, long-term debt and short-term debt of Operating Subsidiaries.

## CAPITAL STRUCTURE ANALYSIS

## PREFERRED EQUITY RATIO [1]

Proxy Group Company	Ticker	2023	2022	2021	3-yr Avg.
Atmos Energy Corporation	ATO	0.00%	0.00%	0.00%	0.00%
NiSource Inc.	NI	0.00%	0.00%	0.00%	0.00%
Northwest Natural Gas Company	NWN	0.00%	0.00%	0.00%	0.00%
One Gas Inc.	OGS	0.00%	0.00%	0.00%	0.00%
Southwest Gas Corporation	SWX	0.00%	0.00%	0.00%	0.00%
Spire Inc.	SR	0.00%	0.00%	0.00%	0.00%
<b>Proxy Group</b>					
MEAN		0.00%	0.00%	0.00%	0.00%
LOW		0.00%	0.00%	0.00%	0.00%
HIGH		0.00%	0.00%	0.00%	0.00%

## PREFERRED EQUITY RATIO - UTILITY OPERATING COMPANIES

Company Name	Ticker	2023	2022	2021	3-yr Avg.
Atmos Energy Corporation	ATO	0.00%	0.00%	0.00%	0.00%
Northern Indiana Public Service Company LLC	NI	0.00%	0.00%	0.00%	0.00%
Columbia Gas of Kentucky, Inc.	NI	0.00%	0.00%	0.00%	0.00%
Columbia Gas of Maryland, Inc.	NI	0.00%	0.00%	0.00%	0.00%
Columbia Gas of Ohio, Inc.	NI	0.00%	0.00%	0.00%	0.00%
Columbia Gas of Pennsylvania, Inc.	NI	0.00%	0.00%	0.00%	0.00%
Columbia Gas of Virginia, Inc.	NI	0.00%	0.00%	0.00%	0.00%
Northwest Natural Gas Company	NWN	0.00%	0.00%	0.00%	0.00%
Kansas Gas Service Company, Inc.	OGS	0.00%	0.00%	0.00%	0.00%
Oklahoma Natural Gas Company	OGS	0.00%	0.00%	0.00%	0.00%
Texas Gas Service Company, Inc.	OGS	0.00%	0.00%	0.00%	0.00%
Southwest Gas Corporation	SWX	0.00%	0.00%	0.00%	0.00%
Spire Alabama Inc.	SR	0.00%	0.00%	0.00%	0.00%
Spire Gulf Inc.	SR	0.00%	0.00%	0.00%	0.00%
Spire Mississippi Inc.	SR	0.00%	0.00%	0.00%	0.00%
Spire Missouri Inc.	SR	0.00%	0.00%	0.00%	0.00%

Notes:

[1] Ratios are weighted by actual common capital, preferred equity, long-term debt and short-term debt of Operating Subsidiaries.

## CAPITAL STRUCTURE ANALYSIS

## SHORT-TERM DEBT RATIO [1]

Proxy Group Company	Ticker	2023	2022	2021	3-yr Avg.
Atmos Energy Corporation	ATO	0.00%	0.00%	0.00%	0.00%
NiSource Inc.	NI	0.00%	0.00%	0.00%	0.00%
Northwest Natural Gas Company	NWN	0.64%	6.82%	11.07%	6.18%
One Gas Inc.	OGS	14.53%	0.00%	0.00%	4.84%
Southwest Gas Corporation	SWX	0.00%	3.71%	4.54%	2.75%
Spire Inc.	SR	11.30%	13.32%	11.38%	12.00%
<b>Proxy Group</b>					
MEAN		4.41%	3.97%	4.50%	4.29%
LOW		0.00%	0.00%	0.00%	0.00%
HIGH		14.53%	13.32%	11.38%	12.00%

## SHORT-TERM DEBT RATIO - UTILITY OPERATING COMPANIES

Company Name	Ticker	2023	2022	2021	3-yr Avg.
Atmos Energy Corporation	ATO	0.00%	0.00%	0.00%	0.00%
Northern Indiana Public Service Company LLC	NI	0.00%	0.00%	0.00%	0.00%
Columbia Gas of Kentucky, Inc.	NI	0.00%	0.00%	0.00%	0.00%
Columbia Gas of Maryland, Inc.	NI	0.00%	0.00%	0.00%	0.00%
Columbia Gas of Ohio, Inc.	NI	0.00%	0.00%	0.00%	0.00%
Columbia Gas of Pennsylvania, Inc.	NI	0.00%	0.00%	0.00%	0.00%
Columbia Gas of Virginia, Inc.	NI	0.00%	0.00%	0.00%	0.00%
Northwest Natural Gas Company	NWN	0.64%	6.82%	11.07%	6.18%
Kansas Gas Service Company, Inc.	OGS	0.00%	0.00%	0.00%	0.00%
Oklahoma Natural Gas Company	OGS	0.00%	0.00%	0.00%	0.00%
Texas Gas Service Company, Inc.	OGS	39.65%	0.00%	0.00%	13.22%
Southwest Gas Corporation	SWX	0.00%	3.71%	4.54%	2.75%
Spire Alabama Inc.	SR	6.88%	14.98%	3.05%	8.30%
Spire Gulf Inc.	SR	4.25%	19.88%	16.86%	13.67%
Spire Mississippi Inc.	SR	63.12%	61.98%	60.82%	61.97%
Spire Missouri Inc.	SR	12.93%	11.60%	14.38%	12.97%

Notes:

[1] Ratios are weighted by actual common capital, preferred equity, long-term debt and short-term debt of Operating Subsidiaries.

MONTANA-DAKOTA UTILITIES CO.

Before the Public Service Commission of Wyoming

Docket No. 30013-415-GR-24

Direct Testimony

of

Shawn Nieuwsma

1    **Q.    Please state your name and business address.**

2    A.           My name is Shawn Nieuwsma, and my business address is 400  
3           North 4<sup>th</sup> Street, Bismarck, ND 58501.

4    **Q.    By whom are you employed and in what capacity?**

5    A.           I am the Director of Gas Supply for Montana-Dakota Utilities Co.  
6           ("Montana-Dakota" or "Company") and Great Plains Natural Gas Co.  
7           ("Great Plains").

8    **Q.    Please describe your duties and responsibilities with Montana-Dakota.**

9    A.           As the Director of Gas Supply, I am responsible for the  
10           development and execution of the Company's natural gas commodity and  
11           services portfolio. I also have managerial responsibility and oversight of  
12           natural gas scheduling/balancing, demand forecasting/modeling, and large  
13           volume customer measurement data acquisition. Our department's  
14           primary purposes are to ensure the delivery of natural gas to our city gates  
15           at our customers' service level expectations in a cost-effective manner.

1   **Q.     Please outline your educational and professional background.**

2   A.           I graduated from North Dakota State University with a Bachelor of  
3               Science degree in Industrial Engineering and Management. In June 2015,  
4               I completed the Utility Executive Course at the University of Idaho in  
5               Moscow, ID.

6               I started my career with Montana-Dakota in 2011 as a Gas Supply  
7               Analyst. During my tenure with the Company, I increased my level of  
8               responsibilities to Gas Supply Engineer, Gas Supply Manager and now to  
9               my current position as Director, Gas Supply.

10  **Q.     Have you testified in other proceedings before regulatory bodies?**

11  A.           Yes. I have previously presented testimony before the Minnesota  
12               Public Utilities Commission and the Public Service Commissions of  
13               Montana and North Dakota.

14  **Q.     What is the purpose of your testimony?**

15  A.           The purpose of my testimony is to explain how Montana-Dakota  
16               determines a need to increase capacity through a Town Border Station  
17               (TBS) and to summarize a specific project included in this rate case filing.

18  **OVERVIEW OF TOWN BORDER STATION (TBS) REVIEW PROCESS**

19  **Q.     Please describe the term TBS as it applies to your testimony.**

20  A.           A TBS refers to relief, regulation, metering, and other applicable facilities  
21               related to custody transfer of natural gas between a transportation service  
22               provider (TSP)<sup>1</sup> and a local distribution company. I will use TBS when referring

---

<sup>1</sup> The only applicable TSP for this testimony is WBI Energy Transmission (WBI).

1 to delivery point<sup>2</sup> or city gate because they have generally the same meaning in  
2 the context of this testimony.

3 **Q. Please describe Firm Transportation Service Capacity and its value to**  
4 **customers.**

5 A. Firm Transportation Service Capacity (Contract Capacity) is held through  
6 firm transportation service agreements (FTSAs) with TSPs to 1.) receive natural  
7 gas on the TSP's transmission system and 2.) to deliver natural gas to and  
8 through contractually defined TBSs. Firm is the highest level of service (highest  
9 priority) and is practically limited to the engineering-determined Design  
10 Capacity of a TBS. Utility's primary customers do not have immediate access to  
11 alternative heating energy sources; therefore, using this highest priority of  
12 service is the best way to ensure energy delivery all year and in any conditions.

13 **Q. Please describe the process the Company uses to determine Contract**  
14 **Capacity requirements to a TBS.**

15 A. The first step is to calculate design day delivery requirements.  
16 Historical consumption (energy) is recorded at each TBS and is regressed  
17 against corresponding heating degrees to create a regression formula<sup>3</sup>.  
18 Design heating degrees<sup>4</sup> are applied to this formula yielding a design day  
19 demand. This evaluation is performed on an annual basis or sub annually  
20 as needed.

21 The Company then compares each TBS's Design Day Demand

---

<sup>2</sup> Delivery point is more appropriate when describing contractual transportation capacity because such capacity may include multiple TBSs. Sheridan has multiple TBSs.

<sup>3</sup> Calculation and use of formula will or will not include interruptible load depending on application of formula.

<sup>4</sup> Highest heating degrees in past 30 years.

1 to its Contract Capacity. Montana-Dakota should consider acquiring  
2 incremental Contract Capacity if a TBS's firm Design Day Demand  
3 exceeds its Contract Capacity and consider TBS rebuilds/enhancements if  
4 required Contract Capacity is greater than Design Capacity.

5 **Q. Why might Design Day Demand change?**

6 A. Design Day Demand dynamics are driven by changes to both/either  
7 customer count and/or customer usage patterns. Typically, communities  
8 with limited growth realize limited design day demand changes. Larger  
9 and growing communities, particularly those with large commercial and  
10 industrial growth may see design day demand increases each year.

11 In rare circumstances, Design Day Demand can decrease. This is  
12 observed and addressed in communities with a declining population or  
13 communities that have lost load through efficiency improvements or  
14 customer departure.

15 **Q. Has Montana-Dakota seen customer count growth that has increased**  
16 **its Design Day Demand?**

17 A. Yes, load growth has been realized in various locations throughout  
18 the Company's Wyoming service territory.

19 **Q. Has this load growth caused any TBS's Design Day Demand to**  
20 **exceed Contract Capacity?**

21 A. Yes, such growth has driven some TBS's Firm Design Day Demand  
22 above the subscribed Contract Capacity or to a level below the

1 targeted Reserve Margin.

2 **Q. What is meant by Reserve Margin?**

3 A. Reserve margin refers to the amount of Contract Capacity above  
4 the Firm Design Day Demand intended to provide a level of safety for  
5 unaccounted load growth, new design heating degrees, TSP fuel-in-kind,  
6 and regression error. Montana-Dakota's Contract Capacity target is 5%-  
7 10% above the Design Day requirement. This amount strikes a balance  
8 between ensuring that all firm customers are served on a Design Day<sup>5</sup>  
9 while avoiding costs for unnecessary Contract Capacity.

10 **Q. Have there been any methodology changes to the calculation of Firm**  
11 **Design Day Demand or use of Reserve Margin in recent history?**

12 A. No, the practice of using linear regressions to calculate Firm Design  
13 Day Demand and the use of a 5%-10% reserve margin has been used for  
14 the duration of my career.

15 **Q. How is incremental Contract Capacity typically acquired for a**  
16 **particular TBS?**

17 A. Incremental Contract Capacity to a particular TBS is typically  
18 accomplished by reallocating Contract Capacity from one TBS with  
19 sufficient Reserve Margin to the deficient TBS. This strategy works well  
20 when a larger TBS, with an acceptable Reserve Margin can sacrifice  
21 capacity to a smaller, deficient TBS. There is relatively little negative

---

<sup>5</sup> Allows for slightly colder than current design day temperatures and considers design day demand formula error. Also allows for consideration of applied fuel and lost and unaccounted for percentages.

1 impact on the larger TBS and relatively high impact to the smaller TBS.

2 This reallocation of Contract Capacity may be done if the two  
3 involved TBS's have common upstream facilities/constraints, and the  
4 acquiring TBS has adequate Design Capacity. All customers benefit from  
5 these reallocations by avoiding incremental FTSA costs through the  
6 optimization of currently held capacity.

7 When Contract Capacity to a deficient TBS cannot be reallocated  
8 due to upstream facility constraints<sup>6</sup> or insufficient Design Capacity, a  
9 project involving facility expansion is required. Montana-Dakota will  
10 engage in transmission-level projects when upstream facility constraints  
11 exist. The Company pursues individual TBS projects when Contract  
12 Capacity cannot be reallocated to a deficient TBS due strictly to Design  
13 Capacity limitations. Costs associated with the TBS projects are required  
14 regardless of upstream facility enhancements; therefore, Montana-Dakota  
15 strives to avoid upstream facility enhancement costs if possible.

16 Most transmission-level projects are completed and paid for  
17 through an incremental FTSA through which the shipper pays the TSP  
18 through tariff or negotiated rate schedules. When Montana-Dakota  
19 participates in such projects, costs of such are recovered through the  
20 monthly Purchased Gas Cost Adjustment (PGA). When there is not an  
21 incremental FTSA, costs are outside the scope of the PGA and therefore  
22 capitalized by the Company.

---

<sup>6</sup> Upstream facility constraints include but are not limited to compression limitations and pipeline capacity.

1   **Q.     Can Contracted Capacity exceed a TBS's Design Capacity?**

2   A.           No, Contracted Capacity (firm) is limited to the TBS's Design  
3           Capacity.

4   **Q.     How is a TBS's Design Capacity determined?**

5           A TBS's Design Capacity is determined by calculating the volumetric  
6           throughput of the most restrictive component(s) within a TBS against a  
7           variety of system-wide operating conditions. Particularly important is the  
8           TSP's guaranteed minimum delivery pressure of 200 psi, which is used  
9           throughout the system<sup>7</sup>. Other considerations include but are not limited to  
10          natural gas velocity, outlet pressure, required pressure reduction, and in-  
11          line heating.

12  **Q.     What, if any changes, have been made to how TBS Design Capacity is**  
13  **determined?**

14  A.           With safety and reliability in mind, Design Capacity reviews are  
15           performed by the owner of each TBS. WBI Energy Transmission Inc. (WBI)  
16           has reported that several TBSs have undergone recent evaluations with a  
17           desire to lower gas velocity. Specifically, WBI has decreased its target  
18           velocity from 120 feet/second to 70 feet/second. This target was changed  
19           to reduce pipe and other component vibration, particularly at aging TBSs.  
20           Many of WBI's TBSs are the original facilities installed at the time  
21           transmission was extended to the served community.

---

<sup>7</sup> Transportation service providers will use various specifications. WBI adheres to a 200 psi limit throughout its integrated system.

1 **IDENTIFIED NEED TO INCREASE TBS CAPACITY**

2 **Q. Have you identified any TBSs that require additional throughput**  
3 **capacity? If so, which TBSs?**

4 A. Yes, the Company has identified and prioritized one Wyoming TBS  
5 that requires incremental capacity. That is the primary TBS serving  
6 Sheridan.

7 **Q. Please compare the Firm Design Day Demand to the Contract**  
8 **Capacity and Design Capacity for each of these TBSs.**

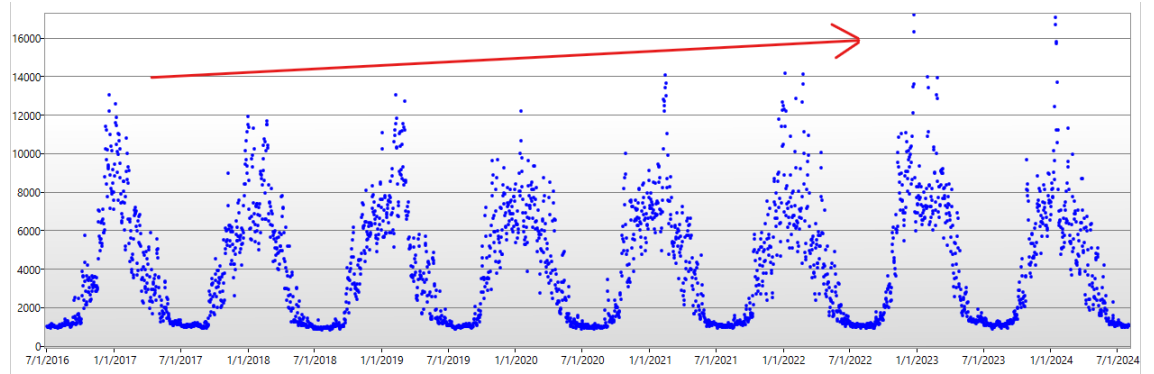
9 A. All units are dekatherms/day<sup>8</sup>.

<b><u>TBS</u></b>	<b><u>Design Day</u></b> <b><u>Demand</u></b>	<b><u>Contractual</u></b> <b><u>Capacity</u></b>	<b><u>Design</u></b> <b><u>Capacity</u></b>	<b><u>Contractual</u></b> <b><u>Reserve</u></b> <b><u>Margin</u></b>
Sheridan	16,670	14,006	14,019	-12.9%

10 Sheridan's TBS currently resides at a -12.9% reserve margin. This  
11 reserve margin is below the standard target of +5 to +10%. Additionally,  
12 Design Day Demand has increased significantly in the past eight years.  
13 Particularly large load increases were realized during the past four heating  
14 seasons.

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<sup>8</sup> Capacity adjusted from volume to energy using applicable BTU of delivered natural gas. Effective June 1, 2024.



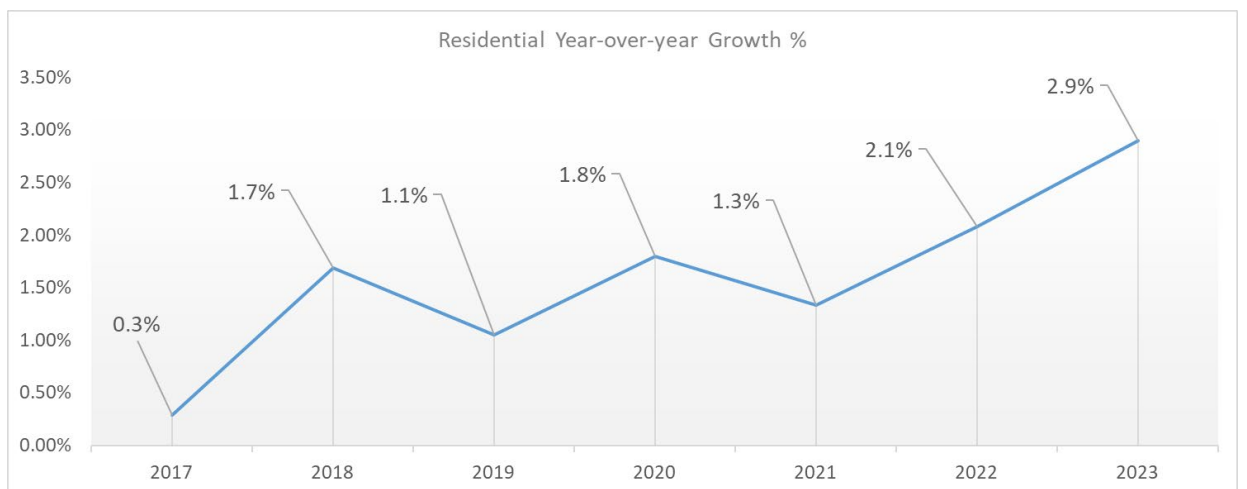
1

2 **Q. What is the root cause of this load growth?**

3 A. The primary root cause identified is the increased number of  
 4 customers dating back several years. Montana-Dakota reviews customer  
 5 counts on a regular basis and has been closely monitoring development in  
 6 Sheridan. To demonstrate Sheridan's growth, the following tables were  
 7 assembled.

Customer Class	November 2017	July 2024	Growth
Residential	8,602	9,655	12.2%
Commercial	1,206	1,336	10.8%

8



9

1   **Q.     What is the expected cost for the Sheridan TBS project?**

2   A.           The cost of the project to increase Sheridan TBS capacity is  
3               \$3,191,628 and is represented as \$616,525 on FP-323039, \$1,142,360 on  
4               FP-324476, and \$1,432,743 on FP-323153, as shown on Statement B,  
5               Schedule B-2, page 2.

6   **Q.     Please summarize these funding projects.**

7   A.           These funding projects support three engineering requirements.  
8               They purchase the legacy lateral from the current TBS to WBI's mainline,  
9               support costs to bore Interstate 90, and create a new TBS located directly  
10              on WBI's mainline.

11  **Q.     Will incremental upstream transportation capacity be required on**  
12              **WBI or another TSP?**

13  A.           No, Montana-Dakota holds sufficient upstream transportation  
14               capacity and is financially supported solely through term extension with no  
15               additional reservation costs. This capacity will be available upon  
16               completion of this project.

17  **Q.     What alternative options to increasing TBS capacity has the**  
18              **Company considered?**

19  A.           There are three primary alternatives that the Company has  
20               considered. These include upgrading the existing TBS in-place, converting  
21               large firm customers to interruptible service, and/or curtailing incremental  
22               customer growth.

1   **Q.     Why did Montana-Dakota and WBI decide not to upgrade the existing**  
2       **TBS in-place?**

3   A.           The location of the existing TBS has become tightly surrounded by  
4       commercial property and does not meet the necessary footprint  
5       requirements.

6   **Q.     What issues does the Company have with converting customers**  
7       **from a firm to an interruptible level of service?**

8   A.           The lower costs associated with interruptible service no longer has  
9       the appeal it once had. Customers state that the investment, operation,  
10      and maintenance of backup systems exceed the realized savings,  
11      particularly in Wyoming where there is no interruptible rate advantage.  
12      Furthermore, most new high efficiency appliances are no longer  
13      compatible for dual-fuel application. There are also very few customers  
14      with a load profile that would provide meaningful benefit if converted to  
15      interruptible service.

16  **Q.     Do you expect additional TBS capacity increases in the future at**  
17      **other Wyoming communities?**

18  A.           Yes. It is likely that a combination of growth, tighter safety  
19      specifications and higher read frequency will require several TBS  
20      upgrades in the coming years.

21              Montana-Dakota will evaluate all options at TBSs prior to  
22      addressing future capacity needs. Regional transmission capacity has  
23      become fully subscribed and is highly utilized. This translates to lack of

1 transportation flexibility increasing the likelihood of TBS rebuilds or  
2 enhancements through utility capital investment rather than incremental  
3 transmission capacity.

4 **Q. Does this complete your direct testimony?**

5 A. Yes, this completes my testimony.

MONTANA-DAKOTA UTILITIES CO.

Before the Public Service Commission of Wyoming

Docket No. 30013-415-GR-24

Direct Testimony

Of

Jesse Volk

1   **Q.   Please state your name and business address.**

2   A.           My name is Jesse Volk, and my business address is 705 West Fir  
3           Avenue, Fergus Falls, Minnesota 56537.

4   **Q.   By whom are you employed and in what capacity?**

5   A.           I am the System Integrity Manager for Montana-Dakota Utilities Co.  
6           ("Montana-Dakota" or "Company"), Great Plains Natural Gas Co. ("Great  
7           Plains"), Cascade Natural Gas Corporation ("Cascade"), and  
8           Intermountain Gas Company ("Intermountain").

9   **Q.   Please describe your duties and responsibilities with Montana-**  
10   **Dakota.**

11   A.           I am responsible for the management of the Transmission and  
12           Distribution Integrity Management programs and Integrity Replacement  
13           projects, which includes the System Safety and Integrity Program (SSIP).

14   **Q.   Please outline your educational and professional background.**

15   A.           I am a graduate of South Dakota School of Mines and Technology  
16           with a Bachelor of Science Degree in Civil Engineering. I am also a  
17           registered professional engineer with the State of North Dakota.

1 I began my career in 2007 as a gas engineer with Montana-Dakota  
2 in Dickinson, North Dakota. Since that time, I have held various positions  
3 of increasing responsibilities throughout the gas operations and  
4 engineering departments across the eight states of Idaho, Minnesota,  
5 Montana, North Dakota, Oregon, South Dakota, Washington, and  
6 Wyoming.

7 **Q. Have you testified in other proceedings before regulatory bodies?**

8 A. Yes, I have testified before the Montana and North Dakota Public  
9 Service Commissions, as well as the Minnesota and South Dakota Public  
10 Utilities Commissions.

11 **Q. What is the purpose of your testimony?**

12 A. The purpose of my testimony is to: (1) provide an overview of the  
13 Company's SSIP; (2) provide an overview of the Company's SSIP projects  
14 that were completed since the last rate case and those currently in  
15 progress.

16 **OVERVIEW OF SYSTEM SAFETY AND INTEGRITY PROGRAM**

17 **Q. What is Montana-Dakota's System Safety and Integrity Program**  
18 **(SSIP)?**

19 A. Montana-Dakota's SSIP is a pipeline replacement program that  
20 accounts for a substantial portion of the Company's natural gas  
21 distribution capital investment. The replacements are a direct result of the  
22 Integrity Management Program (IMP) mandated by the Pipeline and  
23 Hazardous Materials Safety Administration (PHMSA). IMP requires

1 pipeline operators to implement a comprehensive and cost-effective  
2 process that analyzes pipelines through all stages, including engineering,  
3 design, construction, operation, inspection, repairs, and replacement.

4 **Q. How does the Company prioritize and select safety-related projects?**

5 A. Montana-Dakota's Distribution Integrity Management Program (DIMP)  
6 assigns weightings and consequence factors to each pipeline segment  
7 based on attributes and key IMP threats. The data is analyzed through the  
8 SSIP which identifies and prioritizes Montana-Dakota's highest risk  
9 systems by state, based on the Weighted Average Risk (WAR) scores of  
10 Early Vintage Steel Pipe (EVSP) and Early Vintage Plastic Pipe (EVPP) as  
11 shown in Figure 1.

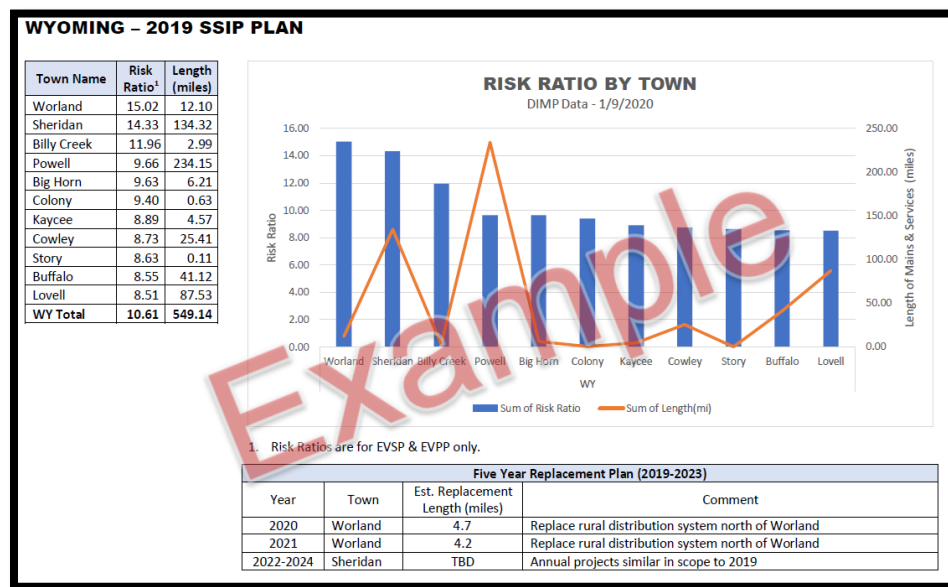


Figure 1 - SSIP WY State Plan

1   **Q.    What types of projects are typically performed to address safety-**  
2       **related concerns?**

3    A.       Pipeline replacement is typically the most viable option to  
4       remediate risks associated with corrosion, material, weld/joint, equipment  
5       failure, incorrect operation, natural forces, outside forces, and missing  
6       data threats. If Montana-Dakota determines that replacement is an  
7       appropriate action to reduce the risk, the Company establishes a  
8       replacement project.

9   **Q.    Does the Company consider alternative ways or timeframes to meet**  
10       **the need for this project?**

11   A.       When feasible, Montana-Dakota works jointly with State, City,  
12       County, or general contractors performing highway, road, and  
13       underground infrastructure replacement projects within the same vicinity.  
14       This collaboration ultimately eliminates duplication of work, provides cost  
15       savings, and limits long-term interruptions to the public and Montana-  
16       Dakota's customers.

17   **Q.    How will the Company's customers benefit from the project?**

18   A.       Montana-Dakota's SSIP replaces and eliminates early vintage steel  
19       and plastic pipelines prone to bare or poor coating, industry documented  
20       Aldyl-a plastic defects, unknown attributes, missing data, mechanical  
21       fittings, inside gas meters, and non-reported third-party damages. The  
22       Company's replacement of these high-risk systems ultimately increases

1 overall public safety, lowers operating and maintenance (O&M) costs, and  
2 improves system reliability for Montana-Dakota's customers.

3 **Q. Would you please describe the major capital projects that have been**  
4 **completed since the last rate case and the projects that are currently**  
5 **underway?**

6 A. Yes. The following pages contain a description of each project,  
7 including the need for each project.

8 **MAJOR CAPITAL PROJECTS**

9 **Worland SSIP 2020 - 2021**

10 **Q. Would you please describe the Worland SSIP project?**

11 A. The Worland SSIP project was a multi-year project focusing on the  
12 replacement of EVSP and EVPP natural gas mains and services with  
13 medium-density polyethylene (MDPE) lines. Project replacement  
14 quantities and type are as follows:

15 **Mains**

16 2" MDPE – 46,900 feet or 8.9 miles

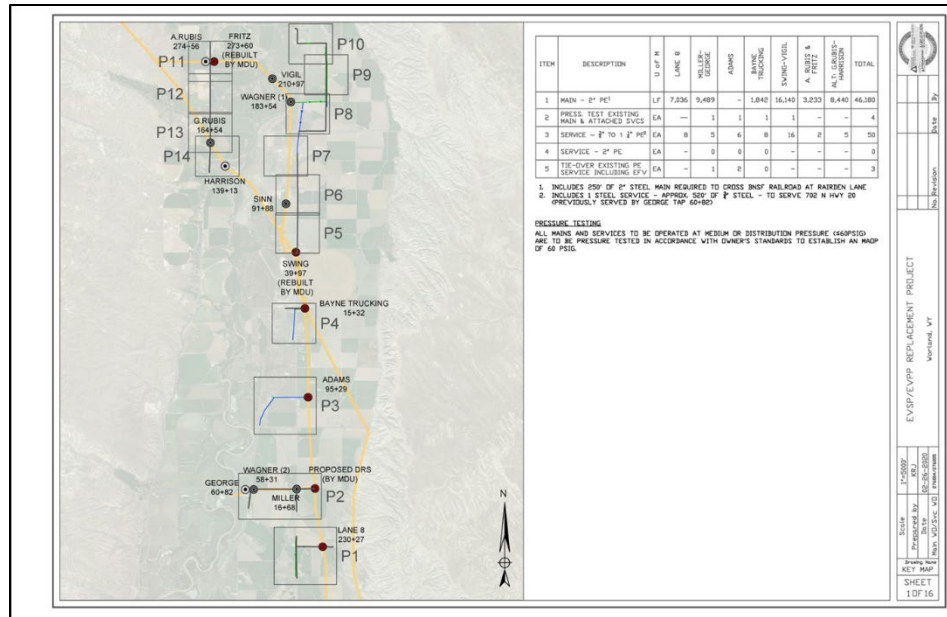
17 **Services**

18 Service line quantity replaced or re-tested – 57

19 **District Regulator Stations (DRS)**

20 DRS & Farm Taps Retired – 9

21 DRS Added/Replaced – 0



ITEM	DESCRIPTION	U of M	2020		2021						TOTAL
			MILLER-GEORGE (2020)	SWING-VIGIL	MILLER-GEORGE (2021)	LANE 8	ADAMS	BAYNE TRUCKING	A. RUBIS & FRITZ	GRUBIS-HARRISON	
1	MAIN - 2" PE <sup>1</sup>	LF	8,556	16,140	1,653	7,036	-	1,842	3,233	8,440	46,900
2	PRESS. TEST EXISTING MAIN & ATTACHED SVCS	EA	1	1	-	-	1	1	-	-	4
3	SERVICE - 3/4" TO 1 1/4" PE	EA	5	16	-	8	6	8	2	5	50
4	SERVICE - 2" PE	EA	0	-	-	-	0	0	-	-	0
5	TIE-OVER EXISTING PE SERVICE INCLUDING EFV	EA	1	-	-	-	2	0	-	-	3

1. INCLUDES 2" STEEL MAIN REQUIRED TO CROSS BNSF RAILROAD AT:  
 1.1. RAIRDEN LANE - APPROX. 350' OF 2" STEEL  
 1.2. 702 N HWY 20 - APPROX. 250' OF 2" STEEL (PREVIOUSLY SERVED BY GEORGE TAP)

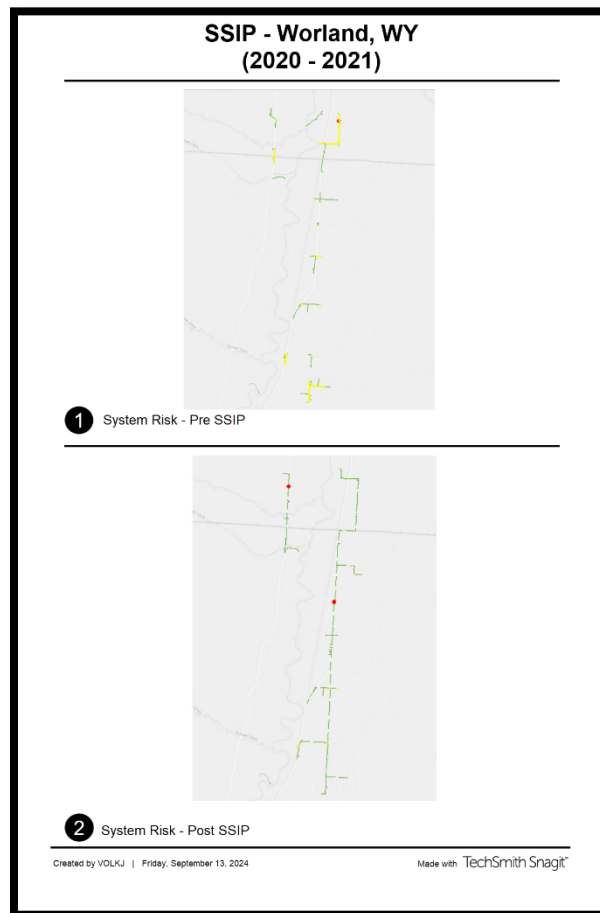
**PRESSURE TESTING**  
 ALL MAINS AND SERVICES TO BE OPERATED AT MEDIUM OR DISTRIBUTION PRESSURE (≤60PSIG)  
 ARE TO BE PRESSURE TESTED IN ACCORDANCE WITH OWNER'S STANDARDS TO ESTABLISH A MAP OF 60 PSIG.

THE FOLLOWING FARM TAPS / DRS WILL BE RETIRED AS PART OF THIS PROJECT		
1.	MILLER	16+68
2.	WAGNER (2)	58+31
3.	GEORGE	60+82
4.	SINN	91+68
5.	WAGNER (1)	183+54
6.	VIGIL	210+97
7.	A. RUBIS	274+56
8.	G. RUBIS	164+54
9.	HARRISON	139+13

Figure(s) 2-4 - Worland Yearly Plans

1    **Q.     Why did the Company undertake the Worland Replacement?**

2    A.            Worland was identified as Montana-Dakota's highest risk EVSP and  
3            EVPP natural gas system in the state of Wyoming in 2019 by the  
4            Company's SSIP.



5  
6            *Figure 6 – Worland DIMP Risk Comparison (Pre vs Post SSIP)*

7    **Q.     What is the project timeline?**

8    A.            The current Worland SSIP project was started in 2020 and was  
9            completed in 2021.

1    **Q.     What are the costs of the project?**

2    A.             Project costs through December 31, 2023 are as follows:

	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>Grand Total</u>
Main Replacements	\$ 464,056.27	\$ 607,271.65	\$ 37,981.00	\$ (252.39)	\$ -	\$ 1,109,056.53
Service Replacements	\$ 144,365.28	\$ 132,625.64	\$ 12,223.97	\$ (80.05)	\$ -	\$ 289,134.84

3  
4    **Sheridan SSIP 2022 – 2026 (Planned)**

5    **Q.     Would you please describe the Sheridan SSIP project?**

6    A.             The Sheridan SSIP project is a multi-year project focusing on the  
7                   replacement of EVSP and EVPP natural gas mains and services with  
8                   medium-density polyethylene (MDPE) lines. Project replacement  
9                   quantities and type are as follows:

10    **Mains**

11                   2" MDPE – 28,750 feet

12                   4" MDPE – 5,930 feet

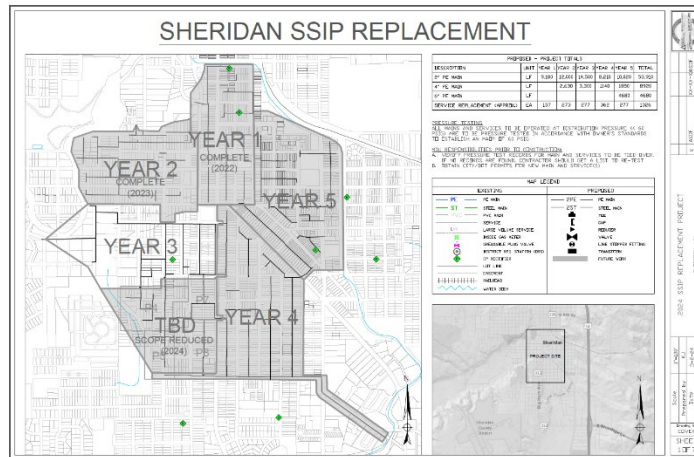
13                   Totaling – 34,680 feet or 6.57 miles

14    **Services**

15                   Service line quantity replaced or re-tested – 594

16    **District Regulator Stations (DRS)**

17                   DRS Retired To-Date – 0



*Figure 9 – Sheridan*

**1 Q. Why did the Company undertake the Sheridan Replacement?**

2     A.             Sheridan was identified as Montana-Dakota's highest risk EVSP  
3             and EVPP natural gas system in the state of Wyoming in 2021 by the  
4             Company's SSIP.

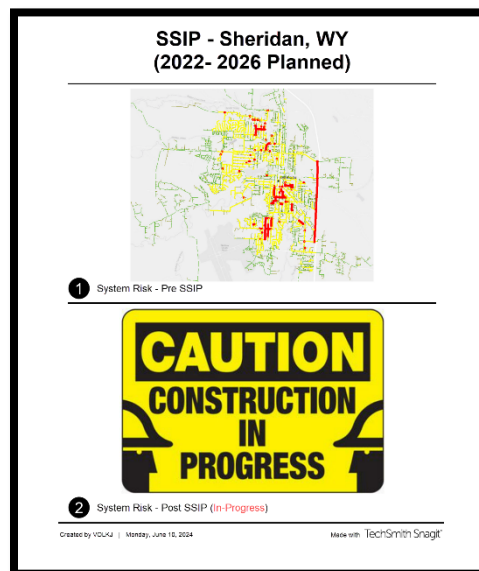


Figure 10 – Sheridan DIMP Risk Comparison (Pre vs Post SSIP)

1     **Q.     What is the project timeline?**

2     A.             The Sheridan SSIP project scope is a multi-year project starting in  
3                     2022 with an expected completion of 2026.

4     **Q.     What are the capital cost estimates of the project?**

5     A.             Project costs to date are as follows:

6

	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>Grand Total</u>
Main Replacements	\$ -	\$ -	\$ 1,317,814.80	\$ 1,346,379.87	\$2,664,194.67
Service Replacements	\$ -	\$ -	\$ 1,139,555.46	\$ 1,307,710.69	\$2,447,266.15

7                     The current capital costs requested in this case for 2024 are  
8                     \$1,468,879 for FP-316061, and \$1,102,990 for FP-316065, as shown on  
9                     Statement B, Schedule B-2, page 2.

10    **Q.     Does the Company expect SSIP efforts to continue?**

11    A.             Pipeline operators have a requirement to implement IMPs that  
12                     evolve and mature to fit an operator's unique operating environment. The  
13                     evolution of an operator's IMP program takes time and resources to collect  
14                     and analyze data to accurately identify the most current high-risk pipelines  
15                     within any given system. Once a system is prioritized and selected it  
16                     typically requires multiple years to develop and execute an action plan for  
17                     full remediation or replacement.

1                   Based on this information, Montana-Dakota expects the SSIP  
2           program to continue for the foreseeable future.

3   **Q.     Does this complete your direct testimony?**

4   **A.           Yes, it does.**

MONTANA-DAKOTA UTILITIES CO.  
BEFORE THE PUBLIC SERVICE COMMISSION OF WYOMING  
DOCKET NO. 30013-415-GR-24  
PREPARED DIRECT TESTIMONY OF  
LARRY E. KENNEDY

1   **Q1.   Please state your name and business address.**

2       A1.       My name is Larry E. Kennedy. My business address is 200 Rivercrest Drive  
3       SE, Suite 277, Calgary, Alberta, T2C 2X5.

4   **Q2.   By whom are you employed?**

5       A2. I am employed by Concentric Advisors, ULC.

6   **Q3.   What is your position with Concentric Advisors, ULC. (“Concentric”)?**

7       A3.       I am employed by Concentric as a Senior Vice President.

8   **Q4.   On whose behalf are you submitting this Direct Testimony?**

9       A4.       I am submitting this Direct Testimony before the Wyoming Public Service  
10       Commission (“Commission”) on behalf of Montana-Dakota Utilities Co. (“MDU”  
11       or the “Company”). Specifically, this testimony, on behalf of MDU, refers to the  
12       Gas utility and Common assets.

13   **Q5.   Please describe your education and experience.**

14       A5.       I am a Certified Depreciation Professional, with over 40 years of regulatory  
15       plant accounting and depreciation experience, and 24 years of depreciation and plant

1 accounting consulting to the regulated utility industry. I have advised numerous  
2 energy and utility clients on a wide range of accounting, property tax and utility  
3 depreciation matters. Many of these assignments have included the determination  
4 of the cost of appropriate annual depreciation accrual rates. I have included my  
5 resume and a summary of testimony that I have filed in other proceedings as Exhibit  
6 No. LEK-2.

7 **Q6. Please describe Concentric's activities in energy and utility engagements.**

8 A6. Concentric provides financial and economic advisory services to many and  
9 various energy and utility clients across North America. Our regulatory, economic,  
10 and market analysis services include utility ratemaking and regulatory advisory  
11 services; energy market assessments; market entry and exit analysis; corporate and  
12 business unit strategy development; demand forecasting; resource planning; and  
13 energy contract negotiations. Our financial advisory activities include buy and sell-  
14 side merger, acquisition, and divestiture assignments; due diligence and valuation  
15 assignments; project and corporate finance services; and transaction support  
16 services. In addition, we provide litigation support services on a wide range of  
17 financial and economic issues on behalf of clients throughout North America.

18 **Q7. Have you testified before any regulatory authorities?**

19 A7. Yes. A list of proceedings in which I have provided testimony is provided  
20 in Exhibit No. LEK-2.

1     **I.     PURPOSE AND OVERVIEW OF DIRECT TESTIMONY**

2     **Q8.     What is the purpose of your Direct Testimony?**

3     A8.         The purpose of my Direct Testimony is to set forth the results of my full  
4                 and comprehensive depreciation study of the Gas and Common plant in service  
5                 MDU, as of December 31, 2021. My detailed report, including my analyses and  
6                 recommendations, is provided in Exhibit No. LEK-3, titled “Calculated Annual  
7                 Depreciation Rates Applicable to Gas Plant in Service as of December 31, 2021”.  
8                 Also, my detailed common report, including my analyses and recommendations, is  
9                 provided in Exhibit No. LEK-4, titled “Calculated Annual Depreciation Rates  
10                Applicable to Common Plant in Service as of December 31, 2021”. The detailed  
11                depreciation study reports were prepared by me or under my direction.

12    **Q9.     Please provide a brief overview of the analyses that led to your depreciation**  
13    **recommendations.**

14    A9.         In preparing the depreciation study report, I analyzed the historic plant  
15                 account data of MDU to prepare an analysis of the Company’s past retirement  
16                 experience. I met (virtually) with the Company’s management and operations  
17                 representatives to determine the extent to which the historic indications would be  
18                 reflective of the future retirement patterns. Lastly, I also reviewed the average  
19                 service life and net salvage indications of many North American based gas utilities  
20                 to test the results of my analysis against the natural gas industry peers.

21    **Q10.    How is the remainder of your Direct Testimony organized?**

22    A10.        Section II provides the scope of my study and a summary of my analyses

and conclusions. This section also includes a discussion of the major causes of changes in the depreciation accrual rate and amounts as compared to the last study. Section III provides a background on utility depreciation, depreciation methods and procedures. Section IV provides concluding comments.

## **II. SCOPE OF THE DEPRECIATION STUDY**

### **Q11. Please outline the Scope of the Depreciation Study.**

A11. My depreciation study report sets forth the results of the depreciation study for the gas distribution, and general plant assets of the MDU Gas Division, to determine the annual depreciation accrual rates and amounts for book purposes applicable to the original cost of investment, as of December 31, 2021. The rates and amounts are based on the Straight-Line Method, incorporating the Average Life Group Procedure applied on a Remaining Life Basis. This study also describes the concepts, methods and judgments which underlie the recommended annual depreciation accrual rates related to the MDU gas assets in service, as of December 31, 2021.

### **Q12. Please outline the information included in your depreciation study report.**

A12. The depreciation study report is presented in nine (9) sections outlined as follows:

Section 1 Study Highlights, presents a summary of the depreciation study and results.

Section 2 Introduction, contains statements with respect to the plan and the basis of the study.

1 Section 3 Development of Depreciation Parameters, presents descriptions of the  
2 methods used and factors considered in the service life study.

3 Section 4 Calculation of Annual and Accrued Depreciation, presents the methods and  
4 procedures used in the calculation of depreciation.

5 Section 5 Result of Study, presents summaries by depreciable group of annual and  
6 accrued depreciation in Tables 1, 2, 3, 4, 5, and 6.

7 Section 6 Retirement Rate Analysis

8 Section 7 Net Salvage Calculations

9 Section 8 Detailed Depreciation Calculations

10 Section 9 Estimation of Survivor Curves, is an overview of Iowa curves and the  
11 Retirement Rate Analysis.

12 Section 10 Estimation of Net Salvage

13 **Q13. Was the depreciation study prepared using generally accepted standard**  
14 **methods and practices?**

15 A13. Yes. Previous depreciation studies completed for MDU utilized a widely  
16 accepted method for the study of the Company's historic data, known as the  
17 Retirement Rate Analysis Method. The Retirement Rate Analysis Method is  
18 generally accepted as the correct method to use when aged data is available for  
19 review. The aged data used in the last study, through December 31, 2015, was  
20 available to be incorporated into our database. Additional reliable aged data, for the

1 period January 1, 2016 through to December 31, 2021, was provided by the  
2 Company and incorporated in our database. Given the availability of reliable aged  
3 data, I prepared the historic study of mortality history using the retirement rate  
4 method. A detailed discussion of the retirement rate analysis is presented in  
5 Section 9 of my depreciation study report.

6 Additionally, the service life study included:

- 7 • a review of MDU company practice and outlook, as they relate to plant  
8 operation and retirement;
- 9 • consideration of current practice in the gas system industry, including  
10 knowledge of service life estimates used for other gas system companies;  
11 and
- 12 • informed professional judgment which incorporated analyses of all of the  
13 above factors.

14 My study of the net salvage percentages was based on detailed study  
15 prepared under the standard approach, which has commonly become known as the  
16 “Traditional method”. Within this method, the net salvage transactions (gross  
17 salvage proceeds, re-use salvage and costs of removal or retirement) are compared  
18 to the original cost of the item being retired. The analysis is prepared on an actual  
19 transaction year basis, for as many years as reliable data is available. The analysis  
20 then includes a series of 3-year rolling average bands, 5-year rolling average bands,  
21 and life to date bands covering all years of transactional data.

1 As described in later sections of this evidence, the depreciation accrual rates  
 2 presented herein are based on generally accepted methods and procedures for  
 3 calculating depreciation.

4 The methods described above are generally accepted for use in the  
 5 development of depreciation rates for regulated utilities.

6 **Q14. Please provide a summary of the results of the depreciation study.**

7 A14. The study results in an annual depreciation expense accrual related to the  
 8 recovery of original cost (i.e. excluding net salvage requirement) of \$22.6 million,  
 9 when applied to depreciable plant balances, as of December 31, 2021. The study  
 10 results are summarized at an aggregate functional group level as follows:

11 **Summary of Original Cost, Accrual Percentages and Amounts**

Plant Group	Original Cost	Annual Accrual	
Distribution Plant	\$548,934,689	3.21%	\$17,637,857
General Plant	\$49,954,953	9.87%	\$4,931,463
Total Plant in Service	\$598,889,642	3.77%	\$22,569,320

12 **Q15. How do the above depreciation rates compare to the depreciation rates from**  
 13 **the previous study?**

14 A15. The following chart summarizes the proposed composite depreciation rates  
 15 as compared to the composite depreciation rates based on the study dated December  
 16 31, 2015.

<b>Plant Group</b>	<b>Proposed Depreciation Rate</b>	<b>Previous Study Depreciation Rate</b>
Distribution Plant	3.21%	4.15%
General Plant	9.87%	5.08%
Total Plant in Service	3.77%	4.23%

**Q16. Please outline the reasons for the decreased composite depreciation rate for the gas distribution assets.**

**A16.** In the circumstances of the distribution assets, the need for more negative net salvage percentages has had a depreciation rate increase impact that was lesser than the decline caused by the influence of the decreases due to the life extensions in many accounts. The following is a summary of the proposed average service life estimates compared to the currently used estimates, demonstrating the lengthening of the average service lives in three accounts.

<b>Account</b>	<b>Description</b>	<b>Proposed Iowa Curves</b>	<b>Current Iowa Curves</b>
374.2	Rights of Way	65-R3	65-R3
375.0	Distr. Meas & Reg Station Structures	55-R3	60-R3
376.0	Mains	55-R3	40-R3 to 62-R3
378.0	Meas & Reg Station Equip-General	50-R2	50-R2
379.0	Meas & Reg Station Equip-General	45-R2.5	45-R2.5
380.0	Services	50-R2.5	38-R0.5 to 47-R4
381.0	Meter & Meter Installations	31-R3	31-R3
383.0	House Regulators	58-R2.5	60-R3
385.0	Industrial Meas. & Reg. Station Equip	40-R2	40-R4
386.1	Misc. Property on Customer Premises	15-R3	15-R3
387.2	Other Equipment	30-R3	25-R3

1                   The specific reasons for the average service life extensions for each of the  
2           large distribution accounts are discussed in Section 3.1.5 of my report.  
3           Additionally, the results of the statistical mortality study are presented, for each  
4           account, in Section 6 of my report.

5   **Q17. Are the average service life extensions, as noted above, typical for gas**  
6   **distribution assets?**

7   A17.       Yes. In a number of recent depreciation studies that I have completed, I  
8           have noted that the average service life of gas distribution assets is lengthening  
9           throughout North America. While there are a number of factors causing this  
10          lengthening of life estimates, the most prevalent reason is the increased focus of  
11          utilities in maintaining and life extending the distribution infrastructure. For  
12          example, in recent years gas distribution utilities have been pro-active in services  
13          structure management and adding enhanced pipeline quality in the type of product  
14          used for services.

15               Likewise, I have noted that the life of distribution assets has also benefited  
16          from enhanced technology and the pro-active maintenance programs undertaken by  
17          gas distribution utilities. As such, the average service life extensions as observed  
18          in this study are consistent with my observations in a number of other gas utilities.

19   **Q18. Please provide a summary of the current and proposed net salvage percentages**  
20   **for distribution plant.**

21   A18.       The following is a summary of the proposed net salvage  
22          percentages used in the depreciation rate calculations.

Account	Description	Proposed		Last Depn Study	
		Net Salvage %	Depn Rate	Net Salvage %	Depn Rate
374.2	Rights of Way	0%	-0.02%	0%	0.00%
375.0	Distr. Meas & Reg Station Structures	0%	-0.56%	(50)%	0.96%
376.0	Mains	(55)%	1.19%	(50)%	1.07%
378.0	Meas & Reg Station Equip-General	(30)%	0.60%	(30)%	0.66%
379.0	Meas & Reg Station Equip-General	(5)%	0.07%	(15)%	0.37%
380.0	Services	(100)%	1.18%	(200)%	4.96%
381.0	Meter & Meter Installations	(20)%	1.74%	(20)%	0.96%
383.0	House Regulators	(5)%	0.13%	0%	0.00%
385.0	Industrial Meas. & Reg. Station Equip	(10)%	0.21%	(15)%	0.49%
386.1	Misc. Property on Customer Premises	0%	0%	0%	0.00%
387.2	Other Dist. Equipment	0%	0%	0%	0.00%

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As noted above, the depreciation rates related to cost of removal and salvage currently used were changed significantly from the depreciation rates as proposed in the 2015 depreciation study. The current study has noted the continued trend to increased levels of recovery for cost of removal.

The detailed analysis of the net salvage estimates is provided in Section 7 of my MDU report.

**Q19. Is the trend for more negative net salvage percentage, as noted above, typical for gas distribution assets?**

A19. Yes. The increased amount of cost of removal expenditures is a common trend throughout North American utilities. In fact, this trend has been the most significant change noted in depreciation studies over the past five years. Accordingly, it has become the most debated topic of depreciation studies filed throughout North America, as well as being a significant topic of discussion at depreciation conferences. At the Society of Depreciation Professionals conference held in September 2018, there were four presentations regarding the large increase in cost of removal expenditures. This trend has been witnessed over virtually all electric, gas and pipeline utilities. As such, the trend witnessed in my MDU study is consistent with depreciation studies conducted across North America.

**Q20. What is causing this trend to increased cost of removal of utility assets?**

A20. It is generally accepted that there exist three main causes of increases.

Firstly, as the average age of utility assets continue to be extended, the impact of inflation becomes more pronounced. As the average service life has increased, the length of time between the original installation of the assets in some accounts and the estimated average time of retirement of the assets is getting longer. The net salvage percentage is calculated by dividing the costs to remove the asset in dollars of the time when the asset is removed by the original cost dollar of the time of installation. Given that the major component of cost of removal is labor, this increase in the life expectancy also results in an increased length of time that the labor associated with the removal is longer. To the extent that the average

1 service lives for distribution assets have extended, the impact as described applies  
2 to a number of the MDU gas distribution accounts.

3 Secondly, the costs associated with the removal (or retirement) of utility  
4 assets must deal with increased environmental and regulatory requirements. For  
5 example, the costs related to the safe removal of existing infrastructure have greatly  
6 increased since the assets were originally installed. Additionally, the utilities are  
7 required to deal with the increased level of regulations within areas that are much  
8 more densely populated at the time of removal of the assets as compared to when  
9 the assets were originally placed into service. As distribution assets are often  
10 removed in municipal areas, the need to effectively deal with urban growth and  
11 density within the areas adds a significant cost to the removal of the assets that did  
12 not exist at the time of the original installation of the assets. When the assets were  
13 originally installed, the distribution assets were largely within greenfield  
14 developments, whereas now, when the assets are removed, the utility must deal  
15 with (for example) applications for road closures and re-routing, noise bylaws, and  
16 performing work within and around developed and landscaped yards.

17 Lastly, as utilities have implemented new and enhanced accounting  
18 systems, the ability to better track capital projects has improved the processes to  
19 track capital project costs more accurately. This provides the ability for direct  
20 charging labor associated to costs of removal specifically to cost of removal.  
21 Likewise, in circumstances where the utility uses an allocation of the total project  
22 costs to recognize that a portion of the capital project relates to the removal of  
23 assets, the advancements in the work order and plant accounting systems provide

1 better information to allow the utility to better develop proper allocation factors.

2 **Q21. Was a Common depreciation study also completed?**

3 A21. Yes, a depreciation study was also conducted on the MDU Common assets.

4 My detailed report, including my analyses and recommendations, is provided in  
5 Exhibit No. LEK-4, titled “Calculated Annual Depreciation Rates Applicable to  
6 Common Plant in Service as of December 31, 2021”.

7 **Q22. Please provide a summary of the results of the Common depreciation study.**

8 A22. The study results in an annual depreciation expense accrual related to the  
9 recovery of original cost and net salvage requirement of \$4.3 million, when applied  
10 to depreciable plant balances, as of December 31, 2021. The study results are  
11 summarized at an aggregate functional group level as follows:

12 SUMMARY OF ORIGINAL COST, ACCRUAL PERCENTAGES AND AMOUNTS

Plant Group / Accounts	Original Cost	Previous Study Annual Accrual		Recommended Annual Accrual	
General Plant	\$81,481,558	4.30%	\$2,924,572	5.31%	\$4,327,970
TOTAL	\$81,481,558	4.30%	\$2,924,572	5.31%	\$4,327,970

13 **III. DEPRECIATION METHODS AND PROCEDURES**

14 **Q23. How is depreciation defined for a rate regulated utility?**

15 A23. Depreciation defined – “Depreciation, as applied to depreciable gas plant,  
16 means the loss in service value not restored by current maintenance, incurred in  
17 connection with the consumption or prospective retirement of gas plant in the course  
18 of service from causes which are known to be in current operation and against which  
19 the utility is not protected by insurance. Among the causes to be given consideration

1 are wear and tear, decay, action of the elements, inadequacy, obsolescence, changes  
2 in the art, changes in demand and requirements of public authorities”.<sup>1</sup> When  
3 considering the action of the elements, my average service life recommendations  
4 have considered large catastrophic events that have occurred and impacted the life  
5 estimates of utility assets across North America through our use of peer analysis.  
6 The average service life of utilities has been influenced by events including forest  
7 fires, earthquakes, tornadoes, ice storms, windstorms, large scale flooding, fires,  
8 actions of third parties and other natural forces of nature, and these forces of  
9 retirement should be included in the determination of the average service life.

10 Depreciation, as used in accounting, is a method of distributing fixed capital  
11 costs, less net salvage, over a period of time by allocating annual amounts to  
12 expense. Each annual amount of such depreciation expense is part of that year's  
13 total cost of providing electric system utility service. Normally, the period of time  
14 over which the fixed capital cost is allocated to the cost of service is equal to the  
15 period of time over which an item renders service, that is, the item's service life.  
16 The most prevalent method of allocation is to distribute an equal amount of cost to  
17 each year of service life. This method is known as the Straight-Line Method of  
18 depreciation, which was adopted for use in my study.

19 **Q24. Please outline the depreciation methods and procedures used in your**  
20 **depreciation study.**

21 A24. The calculation of annual and accrued depreciation, based on the Straight-

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1 Federal Energy Regulatory Commission, Part 201 Definition 12.B (2020)

Line Method, requires the estimation of survivor curves and the selection of group depreciation procedures, as discussed below.

Depreciation Grouping Procedures - When more than a single item of property is under consideration, a group procedure for depreciation is appropriate because normally all of the items within a group do not have identical service lives but have lives that are dispersed over a range of time. There are two primary group procedures, namely, the Average Life Group and Equal Life Group procedures.

In the Average Life Group Procedure, the rate of annual depreciation is based on the average service life of the group. This rate is applied to the surviving balances of the group's cost. A characteristic of this procedure is that the cost of plant retired prior to average life is not fully recouped at the time of retirement, whereas the cost of plant retired subsequent to the average life is more than fully recouped. Over the entire life cycle, the portion of cost not recouped prior to average life is balanced by the cost recouped subsequent to average life.

In the Equal Life Group Procedure, also known as the Unit Summation Procedure, the property group is subdivided according to service life. That is, each equal life group includes that portion of the property which experiences the life of that specific group. The relative size of each equal life group is determined from the property's life dispersion curve. The calculated depreciation for the property group is the summation of the calculated depreciation based on the service life of each equal life unit. In the determination of the depreciation rates in this study, the use of the Average Service Life Procedure has been continued.

Amortization accounting is used for certain general plant accounts because of the disproportionate plant accounting effort required in these accounts. Many regulated utilities in North America have received approval to adopt amortization accounting for these accounts. This study calculates the annual and accrued depreciation using the Straight-Line Method and Average Life Group Procedure for most accounts. For certain general plant accounts, the annual and accrued depreciation are based on amortization accounting. Both types of calculations were based on original cost, attained ages and estimates of service lives. Variances between the calculated accrued depreciation and the book accumulated depreciation are amortized over the composite remaining life of each account within the remaining life calculations. Amortization accounting has been continued in this study in a manner largely consistent with the prior study. The following is a summary of the proposed amortization periods compared to the currently used estimates, demonstrating the lengthening of the average service lives in two accounts.

<b>Account</b>	<b>Description</b>	<b>Proposed Amortization Period in Years</b>	<b>Current Amortization Period in Years</b>
391.1	Office Furniture & Equipment	15	15
391.3	Computer Equipment - PC	5	5
393.0	Stores Equipment	30	30
394.1	Tools, Shop, & Garage Equipment	20	18
394.3	Vehicle Maintenance Equipment	20	20
395.0	Laboratory Equipment	20	20
397.1	Communication Equipment – Fixed Radios	15	15

Account	Description	Proposed Amortization Period in Years	Current Amortization Period in Years
397.2	Communication Equipment – Mobile Radios	15	15
397.3	General Telephone Communication Equipment	10	10
397.8	Network Equipment	5	5
398.0	Miscellaneous Equipment	25	20

1           A detailed account of the factors considered in the selection of my  
2           recommended average service life estimates is provided in Section 3 of my  
3           depreciation study report.

4   **Q25. Please outline any changes that you made in the depreciation method, grouping**  
5   **procedures or remaining life calculations as compared to previous depreciation**  
6   **studies.**

7   A25.       The depreciation rates calculated in this study were calculated on the same  
8           manner as used in the prior full depreciation study – i.e. using the Straight-Line  
9           Method, the Average Life Group Procedure was applied on a remaining life basis.  
10          However, I note that in the application of the remaining life basis, the prior study  
11          calculated the remaining life on a broad average basis, whereas Concentric  
12          incorporates a refinement into the remaining life calculations based on a weighted  
13          investment by vintage approach. The vintage approach weighs the calculations of  
14          remaining life on an allocation of the actual book accumulated depreciation account  
15          by the Calculated Accumulated Depreciation (CAD) factor determined for each  
16          vintage of plant in service. This method is described as a Calculated Accumulated  
17          Depreciation (“CAD”) weighted calculation in the textbook Depreciation Systems,

1 by Frank K. Wolf and W. Chester Fitch, published by the Iowa State University in  
2 1994, under the title “Adjustments” within the Broad Group Model.

3 In contrast, the remaining life calculations in prior studies were based on a  
4 broad averaging of the composite remaining life. This method is also discussed as  
5 the Amortization Method in Depreciation Systems under the title “Adjustments”  
6 within the Broad Group Model.

7 In the manner in which I developed the remaining life calculations, the  
8 depreciation rate is established by dividing the undepreciated value of each group  
9 of assets (after consideration to the net salvage requirements) by the composite  
10 remaining life of the group of assets. Specifically, my calculations are made for  
11 each vintage surviving investment as of the date of the study (December 31, 2021),  
12 and then composited into a calculation for the account or group as a whole as  
13 compared to applying one overall composite life to all vintages as done in prior  
14 studies. My calculation requires two estimates:

15 1. The actual booked accumulated depreciation for each vintage within each  
16 account. Consistent with the plant accounting systems of most utilities, MDU does  
17 not track the booked accumulated depreciation reserve by vintage within each  
18 account. Rather the depreciation expense is calculated at an account level and  
19 booked to accumulated depreciation at the same account level. As such, the  
20 accumulated depreciation by account is allocated within the account to each  
21 vintage, on the basis of the calculated accumulated depreciation by vintage. The  
22 calculated accumulated depreciation is a function of the estimated survivor curve,

1 the average service life estimate, the net salvage estimates, and the achieved age of  
2 each vintage.

3 2. The estimated remaining life of each vintage within each account. The  
4 estimated remaining life of each vintage is a direct function of the achieved age of  
5 each vintage, the estimated survivor curve and the average service life estimate.

6 Once the above two estimates are determined (the allocated booked reserve  
7 by vintage and the average remaining life of each vintage), an annual accrual  
8 requirement for each vintage is determined by dividing the net book value for each  
9 vintage (considering the estimated future salvage requirements) by the average  
10 remaining life of the vintage. The annual requirement for each vintage is summed  
11 at the account level and divided into the sum of the accounts original cost surviving,  
12 as of December 31, 2021.

13 This process results in each vintage's calculated net book value to be  
14 depreciated over an appropriate remaining life. This vintage weighting on a CAD  
15 approach to the remaining life calculations is widely considered to be the most  
16 accurate. I agree and view this methodology as the correct and most appropriate  
17 calculation.

#### 18 **IV. CONCLUDING REMARKS**

19 **Q26. What is your conclusion with respect to MDU's proposed Depreciation expense?**

20 A26. My conclusion is that MDU's requested depreciation rates, resulting in a  
21 composite depreciation rate of 3.77% for the Gas Division and 5.31% for the  
22 Common Plant, reasonably reflects the annual consumption of the undepreciated

1 service value of the utility plant in service. Therefore, the use of the depreciation  
2 rates as presented in my report, by account, will provide for an appropriate amount  
3 of depreciation expense in the Company's revenue requirement. Therefore, I  
4 recommend that the proposed depreciation rates set forth in the depreciation studies,  
5 that I prepared for this proceeding, be adopted by the Commission for regulatory  
6 purposes as well as by the Company for financial reporting purposes.

7 **Q27. Does this conclude your Direct Testimony?**

8 A27. Yes, it does.

**LARRY E. KENNEDY, CDP**

Senior Vice President

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Mr. Kennedy has been in the pipeline, electric, gas utility and municipal infrastructure business for 40 years. As Senior Vice President, Concentric Advisors, ULC, Mr. Kennedy has provided professional consulting services to gas and electric utilities including generation facilities (including nuclear facilities), and high voltage transmission lines, large diameter transmission pipelines, railway systems and municipally owned utility systems. Previously, Mr. Kennedy was with Gannett Fleming Canada ULC, for over 17 years, where he was responsible for completing depreciation studies and provided advice related to large capital program spending and controls for many regulated North American utilities. Mr. Kennedy was also employed by Interprovincial Pipelines Limited (now Enbridge Pipelines) for 15 years in several plant accounting and regulatory positions and with Nova Gas Transmission Pipelines (now TC Energy) for three years as a Depreciation Specialist.

Mr. Kennedy has provided expert witness testimony related to depreciation, stranded costs, capital accounting issues, utility valuation, and property tax issues before several North American regulatory bodies. Mr. Kennedy has completed numerous seminars and all courses offered by Depreciation Programs, Inc. Mr. Kennedy is a member of the teaching faculty of the Society of Depreciation Professionals ("SDP") and has presented depreciation, stranded cost, and capital accounting related topics to the SDP, Canadian Electric Association, Canadian Gas Association, Canadian Property Taxpayers Association, Alberta Utilities Commission, British Columbia Utilities Commission and the Canadian Energy Pipeline Association. Mr. Kennedy is a past Society of Depreciation Professionals President.

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**PERSONAL INFORMATION**

- Diploma, Applied Arts - Business Administration, Northern Alberta Institute of Technology, 1978
- Member, Society of Depreciation Professionals
- Certified Depreciation Professional

**EXPERIENCE****Representative Project Experience**

- Alliance Pipeline L.P. A number of depreciation studies have been completed by Mr. Kennedy for both the Canadian and US assets of Alliance Pipelines. The most recent studies completed in 2012 for Submission to the National Energy Board of Canada and in 2015 for submission to the FERC (Docket No. RP15-1022-000) to the Federal Energy Regulatory included operational discussions related to the gas transmission plant, the service life analysis for all accounts using the retirement rate analysis, discussion with management regarding outlook, and the inclusion of an Economic Planning Horizon.
- Viking Gas Transmission Company - The assignment included working with the company to develop the appropriate depreciation policy to align with the organization's overall goals and objectives. The resulting depreciation study, which was submitted to the Federal Energy and

Regulatory Commission, incorporated the concepts of time-based depreciation for gas transmission accounts and development of Economic Planning Horizons, including discussion related to the long demand of natural gas.

- **Midwestern Gas Transmission Company:** The assignment included development of a detailed depreciation study and Testimony to develop the appropriate depreciation policy to align with the organization's overall goals and objectives. The resulting depreciation study, which was submitted to the Federal Energy and Regulatory Commission, incorporated the concepts of time-based depreciation for gas transmission accounts and development of Economic Planning Horizons. The Direct Testimony included significant discussion related to the topics of Decarbonization and changing political climate towards removal of fossil fuel demand forecasts.
- **Enbridge Lakehead System:** A Technical Update to a 2016 full depreciation study was prepared and filed with the FERC in 2021 in support of updating depreciation rate and resultant depreciation expense. The technical update also included an analysis and recommendation of a 20-year Economic Planning Horizon (Economic Life).
- **Consolidated Edison Company of New York, Inc.:** Mr. Kennedy co-authored a study and report which presented the results of research focusing on prior periods of transformative change and more recent discussions of policy tools that could address the impacts of climate change on the Company's electric, steam, and natural gas businesses.
- **Montana-Dakota Utilities Co.:** A study was developed to determine the appropriate depreciation parameters for all electric generation, transmission and distribution assets. The study and associated expert testimony were submitted to the Montana Public Service Commission in 2018 and to the North Dakota Public Service Commission in 2022. Elements of the study included a field review of electric generation and transmission plant, the service life analysis for all accounts using the retirement rate analysis, discussion with management regarding outlook and the estimation of the retirement of generation facilities due to environmental legislation and estimation of net salvage requirements.
- **Commonwealth Edison Company:** Mr. Kennedy sponsored extensive Rebuttal Testimony related to the average service life, net salvage estimations, and appropriate depreciation practices in a 2020 rate proceeding.
- **Great Plains Natural Gas Co.:** Annual updates of depreciation rates and net salvage requirements were calculated and submitted to the Minnesota Department of Commerce annually since 2017.
- **National Grid USA Service Company Limited:** A depreciation study was completed in 2020 for the National Grid High Voltage Direct Current (HVDC) electric interstate transmission line. The study included consideration of the average service life of the system components, the level of components of the system and the compliance of the recommended componentization to the FERC Uniform System of Accounts. The resultant study was used by the company in filings with the Federal Energy and Regulatory Commission (FERC)
- **Society of Depreciation Professionals (SDP):** Mr. Kennedy has presented at the annual conferences on the topic of the erosion of the regulatory compact throughout North America, the Future of Energy transition and its impacts on recovery of investment. Additionally, Mr. Kennedy is a member of the SDP teaching faculty and has lead a number of workshops on various aspects of decarbonization and has co-instructed on the topic of the future of energy.

## Other Representative Project Experience

- Alberta Departments of Energy and Forestry and Agriculture: Detailed toll comparison and valuation models were developed to provide a comparison of the toll fairness of each of the Provinces Rural Electrification Associations ("REA") to the comparable Investor Owned Utilities ("IOU") for the 32 REA's currently operating in Alberta. In addition to providing a toll comparison of the REA and IOU, a fair market valuation for each of the REA's was also prepared. The final report of the toll compatibility and specific valuations were submitted to the Alberta Department of Energy and the Alberta Department of Forestry and Agriculture. Mr. Kennedy was the Responsible Officer on this project.
- Alliance Pipeline L.P. A number of depreciation studies have been completed by Mr. Kennedy for both the Canadian and US assets of Alliance Pipelines. The most recent studies completed in 2012 for Submission to the National Energy Board of Canada and to the Federal Energy Regulatory included operational discussions related to the gas transmission plant, the service life analysis for all accounts using the retirement rate analysis, discussion with management regarding outlook, and the inclusion of an Economic Planning Horizon.
- AltaGas Utilities Inc.: A number of depreciation studies have been completed, which included the assembly of basic data from the Company's accounting systems, statistical analysis of retirements for service life and net salvage indications, discussions with management regarding the outlook for property, and the calculations of annual and accrued depreciation. The studies were prepared for submission to the Alberta Energy and Utilities Board ("Board"). Mr. Kennedy has appeared before the Alberta Utilities Commission on behalf of AltaGas on a number of occasions.
- AltaLink LP: An initial study was developed for submission to the Alberta Utilities Commission ("AUC") in 2002. The study included the estimation of service life characteristics, and the estimation of net salvage requirements for all electric transmission assets. A net salvage study and technical update was also filed with the Board in 2004. Since 2004, additional depreciation studies were filed in 2005, 2010 and 2012, 2016 and 2018. The 2010, 2012, 2016 and 2018 studies included a number of provisions in order to ensure compliance to Alberta's Minimum Filing Requirements for depreciation studies and for compliance to the International Financial Reporting Standards. These studies also specifically analyzed the pace of technical change in the Alberta Electric system, and recently have specifically considered the impacts of early retirements caused by storms and forest fires.
- ATCO Electric: Studies have included the development of annual and accrued depreciation rates for the electric transmission and distribution systems for the Alberta assets of ATCO Electric, in addition to the generation, transmission, and distribution assets of Northland Utilities Inc. (NWT) and the distribution assets of Northland Utilities (Yellowknife) Inc. The ATCO Electric studies were submitted to the AUC for review, while the NWT and Northland Utilities (Yellowknife) Inc. studies were submitted to the Northwest Territories Utilities Board and Yukon Electric Company Limited (YECL) was submitted to the Yukon Public Utilities Board. These studies also specifically analyzed the pace of technical and recently

have specifically considered the impacts of early retirements caused by storms and forest fires.

- ATCO Gas: Studies were prepared in 2010 and 2018 which were the subject of a review by the AUC. Elements of all of the studies included the service life analysis for all accounts using the retirement rate analysis, discussion with management regarding outlook, and the estimation of net salvage requirements. These studies also specifically analyzed the pace of technical change in the Alberta Gas system, and recently have specifically considered the impacts of early retirements caused by storms and forest fires.
- Centra Gas Manitoba, Inc.: The study included development of annual and accrued depreciation rates for all gas plant in service. Elements of the study included a field inspection of metering and compression facilities, service buildings and other gas plant; service life analysis for all accounts using the retirement rate analysis on a combined database developed from actuarial data and data developed through the computed method; discussions with management regarding outlook; and the estimation of net salvage requirements. A similar study was completed in 2006, 2011, and 2015. The 2011 and 2015 studies were the subject of a review by the Manitoba Public Utilities Board in 2012 and 2016. Mr. Kennedy has also consulted on issues regarding International Financial Reporting Standards ("IFRS") compliance and required componentization.
- Enbridge Gas Distribution Inc.: Full and comprehensive depreciation studies have been completed in 2009 and 2011. The 2009 study also included review of the company's gas storage operations. Both studies included the development of annual and accrued depreciation rates for all depreciable natural gas distribution, transmission and general plant assets. Elements of the studies included the service life analysis for all accounts using the computed mortality method of analysis, discussion with management regarding outlook and the estimation of net salvage requirements. Studies were prepared for submission to the Ontario Energy Board.
- Mr. Kennedy has also completed an allocation of the accumulated depreciation accounts into the amounts related to the recovery of original cost and the amounts recovered in tolls for the future removal of assets currently in service. The allocations were determined as of December 31, 2009 and were deemed by the company's external auditors to be in conformance with proper accounting standards and procedures. In 2013, a review of the reserve required for the future removal of assets currently in service was undertaken by Mr. Kennedy. The results of the review were summarized in evidence presented by Mr. Kennedy to the Ontario Energy Board.
- ENMAX Power Corporation: Studies have included the development of annual and accrued depreciation rates for all depreciable electric transmission assets. Elements of the studies included the service life analysis for all accounts using the retirement rate analysis, discussion with management regarding outlook, and the estimation of net salvage requirements. Studies were prepared for submission to the Alberta Department of Energy and more recently for submission to the Alberta Energy and Utilities Board. Similar studies have also been completed for submission for the ENMAX Electric Distribution assets for

submission to the AUC. The ENMAX distribution asset assignments also included an extensive asset verification project where the plant accounting and operational asset records were verified to the field assets actually in service.

- Fortis Group of Companies: Studies have included the development of annual and accrued depreciation rates for the electric distribution assets in Alberta and for the generation, transmission, and distribution assets in British Columbia. The FortisBC Inc. studies were completed and filed with the British Columbia Utilities Commission ("BCUC") in 2005, 2010, 2011 and 2018 encompassing both the FortisBC electric and natural gas companies. FortisAlberta Inc. studies were completed in 2004 (updated in 2005), 2009 and 2010. Elements of the studies included the development of average service lives using the retirement rate method of analysis, development of net salvage estimates, compliance with IFRS, and the determination of appropriate annual accrual and accrued depreciation rates. The most recent studies also specifically analyzed the pace of technical change in the Electric systems, and specifically considered the impacts of retirements, system modernization and technical enhancements to the assets.
- International Financial Reporting Standards ("IFRS"): Mr. Kennedy has been retained by numerous clients encompassing most Canadian Provinces and Territories. The assignments included the review of company's assets and depreciation practices to provide opinion on the compliance to the IFRS. The assignments have also included the issuance of opinion to the External Auditors of Utilities to comment on the manner in which the Utilities can minimize differences in the regulatory ledgers and the accounting records used for financial disclosure purposes. Mr. Kennedy has also presented to the Canadian Electric Association, the Society of Depreciation Professionals, the Canadian Energy Pipeline Association and to the BCUC on this topic.
- Mackenzie Valley Pipeline Project: This assignment included the review of the proposed depreciation schedule for the proposed Mackenzie Valley Pipeline. The review included a discussion of the policies used by the company and the depreciation concepts to be included in a depreciation schedule for a Greenfield pipeline. The review was supported through appearance at the oral public hearings before the National Energy Board of Canada ("NEB").
- Manitoba Hydro: A study was developed to determine the appropriate depreciation parameters for all electric generation, transmission and distribution assets. The study was submitted to the Manitoba Public Utilities Board. Elements of the study included a field review of electric generation and transmission plant, the service life analysis for all accounts using the retirement rate analysis, discussion with management regarding outlook and the estimation of net salvage requirements. A similar study was also completed in 2006 and in 2011. The 2011 depreciation study was the subject of a review by the Manitoba Public Utilities Board in 2012. Mr. Kennedy has also consulted with Manitoba Hydro on issues regarding IFRS compliance and required componentization.
- New Brunswick Power: Mr. Kennedy completed a comprehensive depreciation review of the electric generation (including the nuclear facilities), transmission, distribution and general plant assets. The review, which was prepared for submission to the New Brunswick Public

Utilities Board, included a significant amount of discussion regarding the development of depreciation policy for the company. The study also included development of procedures to extract data from the company databases, tours of the company facilities, interviews with operational and management representatives, development of appropriate net salvage rates, development of average service life estimates, and the compilation of the report.

- Newfoundland and Labrador Hydro (NALCOR): Mr. Kennedy developed comprehensive depreciation studies that included the development of depreciation policy and rates for NALCOR. The studies provided a significant review of the previous depreciation policy, which included use of a sinking fund depreciation method and provided justification for the conversation to the straight-line depreciation method. The study, which was prepared for submission to the Newfoundland and Labrador Utilities Commission, included a significant amount of discussion regarding the development of depreciation policy for the company. The study also included development of procedures to extract data from the company databases, tours of the company facilities, interviews with operational and management representatives, development of appropriate net salvage rates, development of average service life estimates, and the compilation of the report for submission in a General Tariff Application. Additional studies were also completed in 2008 and 2010. The 2010 and 2017 studies were the subject of Regulatory Review in 2012 and 2019.
- Ontario Power Generation: Assignments have included a review of the Depreciation Review Committee process completed in 2007. This review provided recommendations for enhanced internal processes and controls in order to ensure that the depreciation expense reflects the annual consumption of service value. Additionally, full assessments of the lives of the regulated assets of the company's electric generation hydro and nuclear plants were completed in 2011 and 2013 and were submitted to the Ontario Energy Board for review.
- TransCanada Pipelines Limited - Alberta Facilities: The assignment included working with the company to develop the appropriate depreciation policy to align with the organization's overall goals and objectives. The resulting depreciation study, which was submitted to the Alberta Energy and Utilities Board, incorporated the concepts of time-based depreciation for gas transmission accounts and unit-based depreciation for gathering facilities. The data was assembled from two different accounting systems and statistical analysis of service life and net salvage were performed. For gathering accounts, the assignment included the oversight of the development of appropriate gas production and ultimate gas potential studies for specific areas of gas supply. Field inspections of gas compression, metering and regulating, and service operations were conducted. Studies were completed in 2002 and 2004, 2007, 2009 and 2012, 2015, and 2018.
- TransCanada Pipelines Limited - Mainline Facilities: The study prepared for submission to the NEB included the development of annual and accrued depreciation rates for gas transmission plant east of the Alberta - Saskatchewan border. Elements of the study included a field inspection of compression and metering facilities, service life and net salvage analysis for all accounts. The study was completed in 2002 and was supported through an appearance before the NEB. Study updates have been completed in 2005, 2007, 2009 and an additional

full and comprehensive study was completed in 2011, and 2017. The 2011 study was fully supported through an appearance before the NEB in 2012.

#### Designations and Professional Affiliations

- Society of Depreciation Professionals -Certified Depreciation Professional
- Society of Depreciation Professionals (former President)

**EVIDENCE ENTERED INTO PROCEEDINGS IN THE UNITED STATES**

<b>YEAR</b>	<b>CLIENT</b>	<b>APPLICANT</b>	<b>REGULATORY BOARD</b>	<b>PROCEEDING NUMBER</b>
2015	Alliance Pipeline LP	Alliance Pipeline LP	Federal Energy and Regulatory Commission	Docket No. RP15-1022
2019	Viking Gas Transmission Company	Viking Gas Transmission Company	Federal Energy Regulatory Commission	RP19-1340
2020	National Grid USA Service Company Limited	National Grid USA Service Company Limited	Federal Energy Regulatory Commission	Settled through Negotiation
2018	Great Plains Natural Gas Co.	Great Plains Natural Gas Co.	Minnesota Department of Commerce	Annual Depreciation Filing
2018	Montana-Dakota Utilities	Montana-Dakota Utilities	Montana Public Service Commission	Docket D2019.9
2019	Great Plains Natural Gas Co	Great Plains Natural Gas Co	Minnesota Department of Commerce	Annual Depreciation Filing
2020	Cascade Natural Gas Corporation	Cascade Natural Gas Corporation	Oregon Public Utility Commission	UM - 2073
2020	Missouri-American Water Company	Missouri-American Water Company	Missouri Public Service Commission	WR-2020-0344
2020	Great Plains Natural Gas Co	Great Plains Natural Gas Co	Minnesota Department of Commerce	Annual Depreciation Filing
2020	Commonwealth Edison Company	Commonwealth Edison Company	State of Illinois - Illinois Commerce Commission	Docket 20-0393
2021	Intermountain Gas Company	Intermountain Gas Company	Idaho Public Utilities Commission	Case No. INT-21-01
2021	Midwestern Gas Transmission Company	Midwestern Gas Transmission Company	Federal Energy Regulatory Commission	RP21-525-000
2021	Enbridge Lakehead System	Enbridge Lakehead System	Federal Energy Regulatory Commission	DO21-15-000
2021	Consolidated Edison of New York	Consolidated Edison of New York	New York State Public Service Commission	19-G-0066
2022	United Illuminating Company	United Illuminating Company	Connecticut Public Utilities Regulatory Authority	22-08-08
2022	Montana-Dakota Utilities	Montana-Dakota Utilities	North Dakota Utilities Commission	Case No. PU-22-194
2022	Evergy Missouri West	Evergy Missouri West	Evergy Missouri West	ER-2022-0130
2022	Evergy Missouri West	Evergy Missouri West	Evergy Missouri West	ER-2022-0155

<b>YEAR</b>	<b>CLIENT</b>	<b>APPLICANT</b>	<b>REGULATORY BOARD</b>	<b>PROCEEDING NUMBER</b>
2022	Northern Natural Gas Company	Northern Natural Gas Company	Federal Energy Regulatory Commission	RP22-1033-0000
2023	Indiana American Water Company	Indiana American Water Company	Indiana Utility Regulatory Commission	Cause No. 45870
2023	Montana-Dakota Utilities	Montana-Dakota Utilities	Public Service Commission of the State of Montana	2022.11.099
2023	Montana-Dakota Utilities	Montana-Dakota Utilities	South Dakota Public Utilities Commission	NG23

**EVIDENCE ENTERED INTO PROCEEDINGS IN CANADA**

<b>YEAR</b>	<b>CLIENT</b>	<b>APPLICANT</b>	<b>REGULATORY BOARD</b>	<b>PROCEEDING NUMBER</b>
1999	ENMAX Corporation Power	Edmonton Power Corporation	Alberta Energy and Utilities Board	980550
2000	AltaGas Utilities Inc.	AltaGas Utilities Inc.	Alberta Energy and Utilities Board	Decision 2002-43
2001	City of Calgary	ATCO Pipelines South	Alberta Energy and Utilities Board	2000-365
2001	City of Calgary	ATCO Gas South	Alberta Energy and Utilities Board	2000-350
2001	City of Calgary	ATCO Affiliate Proceeding	Alberta Energy and Utilities Board	1237673
2001	ENMAX Corporation Power	ENMAX Corporation Power - Transmission	Alberta Department of Energy	N/A
2002	Centra Gas British Columbia	Centra Gas British Columbia	British Columbia Utilities Commission	N/A
2002	ENMAX Corporation Power	ENMAX Corporation Power - Transmission	Alberta Department of Energy	N/A
2003	AltaLink LP	AltaLink LP	Alberta Energy and Utilities Board	1279345
2003	Centra Gas Manitoba	Centra Gas Manitoba	Manitoba Public Utilities Board	N/A
2003	City of Calgary	ATCO Pipelines	Alberta Energy and Utilities Board	1292783
2003	City of Calgary	ATCO Electric-ISO Issues	Alberta Energy and Utilities Board	N/A
2003	City of Calgary	ATCO Gas	Alberta Energy and Utilities Board	1275466
2003	City of Calgary	ATCO Electric	Alberta Energy and Utilities Board	1275494

<b>YEAR</b>	<b>CLIENT</b>	<b>APPLICANT</b>	<b>REGULATORY BOARD</b>	<b>PROCEEDING NUMBER</b>
2003	Manitoba Hydro	Manitoba Hydro	Manitoba Public Utilities Board	N/A
2003	TransCanada Pipelines Limited	TransCanada Pipelines Limited	National Energy Board of Canada	RH-1-2002
2004	AltaGas Utilities Inc.	AltaGas Utilities Inc.	Alberta Energy and Utilities Board	1305995
2004	AltaLink LP	AltaLink LP	Alberta Energy and Utilities Board	1336421
2004	Central Alberta Midstream	Central Alberta Midstream	Municipal Government Board of Alberta	N/A
2004	Central Alberta Midstream	Central Alberta Midstream	Municipal Government Board of Alberta	N/A
2004	ENMAX Power Corporation	ENMAX Power Corporation	Alberta Energy and Utilities Board	1306819
2004	Heritage Gas Ltd.	Heritage Gas Ltd.	Nova Scotia Utility and Review Board	N/A
2004	NOVA Gas Transmission Limited	NOVA Gas Transmission Limited	Alberta Energy and Utilities Board	1315423
2004	Westridge Utilities Inc.	Westridge Utilities Inc.	Alberta Energy and Utilities Board	1279926
2005	AltaGas Utilities Inc.	AltaGas Utilities Inc.	Alberta Energy and Utilities Board	1378000
2005	ATCO Electric	ATCO Electric	Alberta Energy and Utilities Board	1399997
2005	ATCO Power	ATCO Power	Municipal Government Board of Alberta	N/A
2005	British Columbia Transmission Corporation	British Columbia Transmission Corporation	British Columbia Utilities Commission	N/A
2005	Centra Gas Manitoba	Centra Gas Manitoba	Manitoba Public Utilities Board	N/A
2005	ENMAX Power Corporation	ENMAX Power Corporation - Transmission	Alberta Energy and Utilities Board	N/A
2005	ENMAX Power Corporation	ENMAX Power Corporation - Distribution Assets	Alberta Energy and Utilities Board	1380613
2005	FortisAlberta Inc.	FortisAlberta Inc.	Alberta Energy and Utilities Board	1371998
2005	FortisAlberta Inc.	FortisAlberta Inc.	Alberta Energy and Utilities Board	N/A
2005	FortisBC, Inc.	FortisBC, Inc.	British Columbia Utilities Commission	N/A

<b>YEAR</b>	<b>CLIENT</b>	<b>APPLICANT</b>	<b>REGULATORY BOARD</b>	<b>PROCEEDING NUMBER</b>
2005	Manitoba Hydro	Manitoba Hydro	Manitoba Public Utilities Board	N/A
2005	New Brunswick Board of Commissioners of Public Utilities	New Brunswick Power Distribution and Customer Service Company	New Brunswick Board of Commissioners of Public Utilities	N/A
2005	Northland Utilities (NWT) Inc.	Northland Utilities (NWT) Inc.	Northwest Territories Utilities Board	N/A
2005	Northland Utilities (Yellowknife) Inc.	Northland Utilities (Yellowknife) Inc.	Northwest Territories Utilities Board	N/A
2005	NOVA Gas Transmission Ltd.	NOVA Gas Transmission Ltd.	Alberta Energy and Utilities Board	1375375
2005	City of Red Deer	City of Red Deer Electric System	Alberta Energy and Utilities Board	1402729
2005	Yukon Energy Corporation	Yukon Energy Corporation	Yukon Utilities Board	N/A
2006	AltaLink LP	AltaLink LP	Alberta Energy and Utilities Board	1456797
2006	BC Hydro	BC Hydro	British Columbia Utilities Commission	N/A
2006	Imperial Oil Resources Ventures Limited	McKenzie Valley Pipeline Project	National Energy Board of Canada	GH-1-2004
2007	Enbridge Pipelines Limited	Enbridge Pipelines Limited	National Energy Board of Canada	RH-2-2007
2007	FortisAlberta Inc.	Fortis Alberta Inc.	Alberta Energy and Utilities Board	1514140
2007	Kinder Morgan	Terasen (Jet fuel) Pipeline Limited	British Columbia Utilities Commission	N/A
2008	ATCO Electric	Yukon Electrical Company Limited	Yukon Utilities Board	N/A
2008	ATCO Gas	ATCO Gas	Alberta Utilities Commission	1553052
2008	City of Lethbridge Electric System	City of Lethbridge	Alberta Utilities Commission	N/A
2008	ENMAX Power Corporation	ENMAX Power Corporation	Alberta Utilities Commission	1512089
2008	Heritage Gas Ltd.	Heritage Gas Ltd.	Nova Scotia Utility and Review Board	N/A
2009	AltaGas Utilities Inc.	AltaGas Utilities Inc.	Alberta Utilities Commission	N/A
2009	Fortis Alberta Inc.	Fortis Alberta, Inc.	Alberta Utilities Commission	1605170
2010	ATCO Electric	ATCO Electric	Alberta Utilities Commission	1606228
2010	Enbridge Pipelines Limited - Line 9	Enbridge Pipelines Limited - Line 9	National Energy Board of Canada	N/A
2010	Gazifere	Gazifere	La Regie de L'Energie	R-3724-2010

<b>YEAR</b>	<b>CLIENT</b>	<b>APPLICANT</b>	<b>REGULATORY BOARD</b>	<b>PROCEEDING NUMBER</b>
2010	Kinder Morgan	Kinder Morgan	National Energy Board of Canada	N/A
2010	Pacific Northern Gas	Pacific Northern Gas	British Columbia Utilities Commission	N/A
2011	AltaGas Utilities Inc.	AltaGas Utilities Inc.	Alberta Utilities Commission	1606694
2011	AltaLink LP	AltaLink LP	Alberta Utilities Commission	1606895
2011	ATCO Electric	Northland Utilities (NWT) Inc.	Northwest Territories Utility Board	N/A
2011	ATCO Gas	ATCO Gas	Alberta Utilities Commission	1606822
2011	FortisAlberta Inc.	Fortis Alberta Inc.	Alberta Utilities Commission	1607159
2011	FortisBC Energy, Inc.	FortisBC Energy, Inc.	British Columbia Utilities Commission	3698627
2011	GazMetro	GazMetro	La Regie de L'Energie	R-3752-2011
2011	Heritage Gas Ltd.	Heritage Gas Ltd.	Nova Scotia Utility and Review Board	N/A
2011	Qulliq	Qulliq	Utilities Rates Review Council	N/A
2011	SaskPower	SaskPower	Internal Review Committee	N/A
2011	TransAlta Utilities Corporation	TransAlta Utilities Corporation	Municipal Government Board of Alberta	N/A
2012	City of Red Deer	City of Red Deer	Alberta Utilities Commission	1608641
2012	Enbridge Gas Distribution Inc.	Enbridge Gas Distribution Inc.	Ontario Energy Board	EB 2011-0345
2012	FortisBC, Inc.	FortisBC, Inc.	British Columbia Utilities Commission	3698620
2012	Manitoba Hydro	Manitoba Hydro	Manitoba Public Utilities Board	2013/2013 GRA
2012	Newfoundland and Labrador Hydro	Newfoundland and Labrador Hydro	Newfoundland and Labrador Board of Commissioners of Public Utilities	N/A
2012	Northwest Territories Power Corporation	Northwest Territories Power Corporation	Northwest Territories Public Utilities Board	N/A
2012	TransCanada Pipelines Limited	TransCanada Pipelines Limited	National Energy Board of Canada	RH-003 -2011
2013	AltaLink LP	AltaLink LP	Alberta Utilities Commission	1608711
2013	IntraGaz Incorporated	IntraGaz Incorporated	La Regie de L'Energie	R-3807-2012

<b>YEAR</b>	<b>CLIENT</b>	<b>APPLICANT</b>	<b>REGULATORY BOARD</b>	<b>PROCEEDING NUMBER</b>
2013	Yukon Electrical Company Limited (YECL)	Yukon Electrical Company Limited (YECL)	Yukon Utilities Board	2013-2015 GRA
2014	Enbridge Gas Distribution	Enbridge Gas Distribution	Ontario Energy Board	EB-2012-0459
2014	ENMAX Power Corporation	ENMAX Power Corporation	Alberta Utilities Commission	1609674
2015	AltaLink LP	AltaLink LP	Alberta Utilities Commission	Proceeding 3524
2015	EPCOR Distribution & Transmission	EPCOR Distribution & Transmission	Alberta Utilities Commission	Proceeding 20407
2015	FortisBC Energy, Inc.	FortisBC Energy, Inc.	British Columbia Utilities Commission	N/A
2015	FortisBC, Inc.	FortisBC, Inc.	British Columbia Utilities Commission	N/A
2015	GazMetro	GazMetro	La Regie de L'Energie	N/A
2015	Manitoba Hydro	Manitoba Hydro	Manitoba Public Utilities Board	2014/15 & 2015/16 GRA
2015	Newfoundland and Labrador Hydro	Newfoundland and Labrador Hydro	Newfoundland and Labrador Board of Commissioners of Public Utilities	N/A
2016	ATCO Electric	ATCO Electric	Alberta Utilities Commission	Proceeding 20272
2017	NALCOR	NALCOR	Newfoundland Public Utilities Board	Settled
2017	TransCanada Pipelines Limited - Mainline Facilities	TransCanada Pipelines Limited - Mainline Facilities	National Energy Board of Canada	RH-1-2018
2017	TransCanada Pipelines Limited - NGTL Facilities	TransCanada Pipelines Limited - NGTL Facilities	National Energy Board of Canada	RH-001-2019
2018	WestCoast Transmission System	WestCoast Transmission System	National Energy Board of Canada	Settled
2018	ATCO Electric	ATCO Electric	Alberta Utilities Commission	Proceeding 24195
2018	ATCO Gas	ATCO Gas	Alberta Utilities Commission	Proceeding 24188
2018	SaskEnergy Inc.	SaskEnergy Inc.	Saskatchewan Review Board	N/A
2018	SaskPower	SaskPower	Saskatchewan Review Board	N/A
2018	AltaGas Utilities Inc.	AltaGas Utilities Inc.	Alberta Utilities Commission	Proceeding 24161
2018	AltaLink LP	AltaLink LP	Alberta Utilities Commission	Proceeding 23848

<b>YEAR</b>	<b>CLIENT</b>	<b>APPLICANT</b>	<b>REGULATORY BOARD</b>	<b>PROCEEDING NUMBER</b>
2018	FortisBC Energy Inc.	FortisBC Energy Inc.	British Columbia Utilities Commission	N/A
2018	FortisBC Inc.	FortisBC Inc.	British Columbia Utilities Commission	N/A
2019	Capital Power Corporation	Capital Power Corporation	Municipal Government Board of Alberta	N/A
2019	TransAlta Corporation	TransAlta Corporation	Municipal Government Board of Alberta	N/A
2019	Trans Mountain Pipeline ULC	Trans Mountain Pipeline ULC	Canadian Energy Regulator	T260-2019-04-01
2019	NB Power	NB Power	New Brunswick Energy Utility Regulator	Pending
2019	ATCO Electric	ATCO Electric Transmission	Alberta Utilities Commission	Proceeding 24964
2020	Enbridge Pipelines Inc.	Enbridge Pipelines Inc.	Canada Energy Regulator (CER)	RH-001-2020
2021	Ontario Power Generation	Ontario Power Generation	Ontario Energy Board	N/A
2021	AltaLink L.P	AltaLink L.P	Alberta Utilities Commission	Proceeding 26059
2022	Enbridge Gas Inc.	Enbridge Gas Inc.	Ontario Energy Board	EB-2022-0200
2022	IntraGaz LP	IntraGaz LP	La Regie de L'Energie	R-4189-2022
2022	BC Hydro	BC Hydro	British Columbia Utilities Commission	Project 1599243
2022	Manitoba Hydro	Manitoba Hydro	Manitoba Public Utilities Board	Manitoba Hydro 2023/24 & 2024/25 General Rate Application
2023	Pacific Northern Gas	Pacific Northern Gas	British Columbia Utilities Commission	Application No. PNG NE2023 to 2024 RRA

MONTANA-DAKOTA UTILITIES CO.

Before the Public Service Commission of Wyoming

Docket No. 30013-415-GR-24

Direct Testimony

Of

Tara R. Vesey

1    **Q.    Please state your name and business address.**

2    A.            Yes. My name is Tara R. Vesey and my business address is 400  
3            North Fourth Street, Bismarck, North Dakota 58501.

4    **Q.    What is your position with Montana-Dakota Utilities Co.?**

5    A.            I am the Regulatory Affairs Manager for Montana-Dakota Utilities  
6            Co. (Montana-Dakota).

7    **Q.    Please describe your duties as Regulatory Affairs Manager.**

8    A.            I am responsible for the overall management of the general rate  
9            case filing process for each of the jurisdictions in which Montana-Dakota  
10           operates, including the preparation of gas and electric cost of service  
11           studies and the associated pro forma operating income, rate base, and  
12           rate of return, and the additional revenue requirement for each distinct  
13           jurisdiction.

14   **Q.    Please describe your education and professional background.**

15   A.            I graduated from North Dakota State University with a Bachelor of  
16           Science degree in Economics. I started my career with Montana-Dakota in

1           2019 as a Regulatory Affairs Manager. Prior to that I was employed for 13  
2           years by a power cooperative. During that time, I held positions of  
3           increasing responsibility, including Contract Administrator, Sales Manager,  
4           Transportation Manager, and Manager of Market Operations & Logistics.

5   **Q.   Have you testified in other proceedings before regulatory bodies?**

6   A.           Yes. I have previously presented testimony before this  
7           Commission, the Public Service Commissions of North Dakota and  
8           Montana and the Public Utilities Commissions of Minnesota and South  
9           Dakota.

10  **Q.   Are you familiar with the books and records of Montana-Dakota and**  
11  **the manner in which they are kept?**

12  A.           Yes. Montana-Dakota's books and records are kept in accordance  
13           with the Federal Energy Regulatory Commission (FERC) Uniform System  
14           of Accounts.

15  **Q.   What is the purpose of your testimony in this proceeding?**

16  A.           The purpose of my testimony is to present the Wyoming gas  
17           operations per books cost of service for the twelve months ended  
18           December 31, 2023 and the pro forma cost of service reflecting known  
19           and measurable adjustments that will occur by December 31, 2024.  
20           Based on the results, I have prepared the calculation of the revenue  
21           deficiency. Furthermore, I will present proposed changes to Rate 88 –  
22           Purchased Gas Cost Adjustment as well as providing additional  
23           information for Rate 72 – Optional Seasonal General Gas Service in this

1 filing.

2 **Q. What statements, schedules and exhibits are you sponsoring?**

3 A. I am sponsoring Statements A through D, Statement F, Schedule F-  
4 1 and F-3, Statements G through J, Statement M, and the revenue  
5 requirement presented in Exhibit No.\_\_\_\_(TRV-1). Finally, I am sponsoring  
6 the development of the projected billing units as presented on Exhibit No.  
7 \_\_\_\_ (TRV-2) and the proposed Rate 88 - Purchased Gas Cost Adjustment  
8 presented in Exhibit No.\_\_\_\_(TRV-3).

9 **Q. Were these statements and exhibits prepared by you or under your**  
10 **direct supervision?**

11 A. Yes, they were.

12 **Case Description**

13 **Q. What is the revenue deficiency?**

14 A. The Company has determined a revenue shortfall of \$2,588,216,  
15 which represents a 14.3 percent increase, based on a pro forma 2024.

16 **Q. How was the \$2,588,216 revenue deficiency derived?**

17 The Company has developed the pro forma revenue requirement  
18 based on adjustments to the sales revenues, Operation & Maintenance  
19 (O&M) expenses, taxes and the December 31, 2023 pro forma rate base.  
20 All of these adjustments are reasonably certain to occur and can be  
21 measured with reasonable accuracy, thus meeting the criteria of known  
22 and measurable.

1    **Pro Forma Revenue Requirement**

2    **Q.     What were the results of Wyoming gas operations for the twelve**  
3       **months ended December 31, 2023?**

4    A.       Statement A, pages 2 and 4 show the per books income statement  
5       and rate base for Wyoming. As shown on page 2, Wyoming gas  
6       operations had a return on rate base of 2.668 percent for the twelve  
7       months ended December 31, 2023. The details for each line item, i.e.  
8       sales revenue, other revenue, etc., are included in the applicable  
9       Statement listed. Pages 3 and 5 list the pro forma adjustments to  
10      operating revenues, expenses and rate base. All adjustments were  
11      calculated on either a Wyoming specific basis or on a total Company basis  
12      and allocated to Wyoming, as indicated on the statement or schedule  
13      detailing each adjustment.

14   **Q.     How was the per books cost of service allocated to Wyoming?**

15   A.       The Company utilizes a jurisdictional accounting system that  
16      directly assigns and/or allocates every item of revenue, expense and rate  
17      base to the jurisdictions as part of the regular accounting process on a  
18      monthly basis. The allocation methods and procedures are the same as  
19      have previously been used in Commission proceedings and are based on  
20      the principle of assigning and/or allocating costs to the cost causer. The  
21      Company's Cost Allocation Manual details the method of assigning costs  
22      to the Wyoming gas operations and included in Statement M.

1     **Q.     Please explain the allocation method used for the Pro Forma period.**

2     A.           Traditionally, in Wyoming rate cases, Montana-Dakota has created  
3           a Corporate Allocation Operations and Maintenance Adjustment in order to  
4           harmonize the expenses with the three-factor allocation which was  
5           recommended by the Office of Consumer Advocate.

6           However, on June 1, 2023, Knife River Corporation completed its  
7           spinoff from MDU Resources Group, Inc. On November 1, 2024, Everus  
8           Construction is scheduled to complete its spinoff from MDU Resources  
9           Group, Inc.

10          While the Company is analyzing a change to the three-factor  
11          allocation, the current one-factor allocation is reasonably close to  
12          alternative three-factor allocation. Based on this analysis, the Company  
13          did not perform an adjustment to account for the alternative three-factor  
14          allocation.

	<u>Montana-Dakota Utilities</u>	
2023 Payroll	\$116,654,278	
Earnings	\$82,766,945	
9/30/2023 Capitalization	\$1,187,323,917	
2023 Percentages		
Payroll	45.5%	
Earnings	50.4%	
9/30/2023 Capitalization	43.4%	Current one-factor allocation
Average	<u>46.4%</u>	

15

16     **Q.     What test period are you using to determine the revenue**  
17     **requirement?**

18     A.           The revenue requirement is based on December 31, 2023 test

period to create a pro forma year ending December 31, 2024. As stated by Ms. Kivisto, the proposed \$2.6 million increase in revenue is largely driven by:

	Amount (in millions)
O&M Increase	\$1.1
Rate Base	0.6
SSIP	0.4
Depreciation	0.4
Change in ROE	0.3
Other .	0.4
Change in Margin	(0.6)
	<u>\$2.6</u>

Montana-Dakota’s cost of doing business in Wyoming is increasing despite the Company’s effort to control costs and increase efficiency. The Company is experiencing a \$1.1 million increase in O&M expenses due to increased labor, benefits, software maintenance costs, and vehicles and work equipment. Rate base investment since the last case, including the significant investments in the System Safety Integrity Program (SSIP) referenced in the testimony of Mr. Jesse Volk, represents \$1.0 million of the increase. Increases in depreciation expense, primarily driven by the investment in rate base (and somewhat offset by the implementation of the updated depreciation studies supported in the testimony of Mr. Larry E. Kennedy), result in a revenue requirement increase of approximately \$0.4 million. Finally, the proposed change in return on equity and other various items increase the revenue requirement by \$0.3 million each. These Increases are all offset by a change in margin that has reduced the

1 revenue requirement by \$0.6 million.

2 **Q. What criteria were used to determine the pro forma adjustments?**

3 A. The pro forma adjustments to operating revenue, expenses and  
4 rate base were based on known and measurable changes occurring by  
5 December 31, 2023, conformed to past Commission practices and are  
6 listed on pages 3 and 5 of Statement A. All of these adjustments are  
7 reasonably certain to occur and can be measured with reasonable  
8 accuracy, thus meeting the criteria of known and measurable.

9 **Q. Would you describe the pro forma adjustments to the income**  
10 **statement and rate base?**

11 A. Yes. The adjustments to the income statement are summarized on  
12 Statement A, page 3 and consist of adjustments to revenue, operation and  
13 maintenance expenses, depreciation expense, taxes other than income,  
14 and current and deferred income taxes. The adjustments to rate base are  
15 summarized on Statement A, page 5 and include plant, accumulated  
16 reserve for depreciation and associated additions and deductions. Each  
17 adjustment is discussed in detail below.

18 **Pro Forma Income Statement**

19 **Q. What adjustments were made to operating revenues?**

20 A. The adjustments to operating revenues are contained in Statement  
21 F. Retail sales and transportation revenues are presented in Schedule F-  
22 1. Adjustment No. 1, as shown on page 2, restates the per books  
23 consumption at current rates, adjusted to reflect the May 2024 cost of gas,

1 exclusive of the surcharge adjustment, and eliminates the unbilled  
2 revenue, decreasing revenue by \$4,329,768.

3 Adjustment No. 2, on page 3 of Statement F-1, decreases revenues  
4 by \$524,381 to reflect the effect of normal weather on sales and  
5 transportation volumes. Weather was 5.13 percent colder than normal in  
6 2023. The normalization process and results are more fully explained  
7 later in this testimony.

8 Page 4 shows Adjustment No. 3 is an increase to revenues of  
9 \$175,507 to reflect the annualization of firm customers to the December  
10 2023 level. More detailed testimony regarding the development of  
11 revenue reflected in this case is supported in the Direct Testimony of Ms.  
12 Stephanie Bosch.

13 Adjustment No. 4, presented in Schedule F-3, includes adjustments  
14 to other operating revenues. The pro forma adjustment decreases  
15 revenue by \$165,799 and consists of several adjustments. They are as  
16 follows:

- 17 • Seasonal Reconnect Fee, Reconnect Fee for Non-payment, NSF  
18 Check Fees, Patronage Dividends, Miscellaneous Revenue, and  
19 Transport & Sales Penalty Revenue were adjusted to reflect a  
20 three-year average;
- 21 • Energy Diversion is expected to remain the same as 2023;
- 22 • Rent from Property reflects a reduction due to a process change  
23 related to the way that the Company charges and expenses rent.

- 1                   There is a corresponding reduction in the rent expense found in  
2                   Statement G;
- 3                   • Sale of Sundry Junk Material and Meter Reading for Others was  
4                   updated based on 2024 activity through June:
  - 5                   • Gas Management was updated based on a two-year average  
6                   (2022-2023);
  - 7                   • Late payment revenue is based on a three-year average ratio of the  
8                   late payment revenue collected and the sales and transportation  
9                   revenue, which is then applied to the Pro Forma Revenue;

10 **Q.   What adjustments were made to operations and maintenance (O&M)**  
11 **expenses?**

12 A.           The adjustments to operation and maintenance expenses are  
13 contained in Statement G and are summarized in pages 1 through 3 and  
14 each adjustment is detailed in Statement G, Schedule G-1.

15               The adjustment to the cost of gas (Adjustment No. 5) is shown on  
16 Schedule G-1, page 3, and adjusts the cost of gas to reflect the pro forma  
17 dekatherm (dk) sales and the cost of gas calculated in the May 2024  
18 Purchased Gas Cost Adjustment.

19 **Q.   Would you describe the development of labor and benefits expense?**

20 A.           Yes. Labor expense is shown as Adjustment No. 6, in Statement G,  
21 Schedule G-1, page 4. The pro forma labor was developed by applying  
22 the percentage of total adjusted per books labor multiplied by the Pro  
23 Forma Labor by Object total. Pro forma total Company labor costs were

1 based on the application of an increase of 6.0 percent for union  
2 employees and 4.5 percent for nonunion employees effective in 2024 as  
3 shown on Workpaper Statement G, page 3. Bonuses and commissions  
4 reflect the actual stock compensation, expected miscellaneous expenses  
5 and meals for 2023. Pro forma incentive compensation has been adjusted  
6 to reflect 11.58 percent of straight time and vacation, which is considered  
7 the incentive compensation target. Finally, two full time line locator  
8 positions were added to the Pro Forma period given that these employees  
9 were hired in March 2024. The employees serve gas and electric  
10 customers and thus are allocated appropriately.

11 The labor expense pro forma adjustment results in an overall net  
12 increase of \$62,862.

13 Benefits are shown on page 5 of Schedule G-1. Adjustment No. 7  
14 is an overall increase of \$65,157 in benefits. Benefits expense consists of  
15 medical/dental insurance, pension expense, post-retirement, 401K,  
16 workers compensation, and other benefits. Each of these items was  
17 adjusted individually using current information and applying the  
18 percentage change to each type of benefit.

19 Medical and dental expense is increasing 8.39 percent to reflect the  
20 premiums in effect for 2024 as compared to the 2023 actual results.

21 Actuarial Pension expense increased 92.22 percent and Post-retirement  
22 increased by 9.41 percent from 2023 levels. 401K expense, workers  
23 compensation and other benefits are tied to labor costs and increase 5.04

1           percent to reflect the overall average increase in straight time labor.

2   **Q.    Would you describe the other adjustments made to O&M expense?**

3   A.           Yes. Vehicles and work equipment is shown as Adjustment No. 8,  
4           in page 6 of Schedule G-1 and reflects all expenses associated with the  
5           Company's vehicles and equipment, such as backhoes, skid steers and  
6           excavators, including the costs of fuel, insurance, maintenance and  
7           depreciation expense. Adjustment No. 8 reflects an increase of \$92,705.  
8           The depreciation component on these items is not charged to depreciation  
9           expense but rather is charged to a clearing account where it is then  
10          recorded in O&M expense as the vehicles or work equipment is used. The  
11          increase is primarily due to proposed depreciation rate change for Power  
12          Operated Equipment.

13               Company consumption shown in Adjustment No. 9 of Schedule G-  
14          1, page 7 is the expense for general utilities, electric and natural gas  
15          consumption in Company buildings and is expected to decrease \$8,917.  
16          The general utilities and electric component are projected to decrease  
17          7.50 percent to reflect volumes at current rates. The natural gas  
18          component is based on a decrease of 34.43 percent to reflect normalized  
19          weather volumes.

20               Uncollectible accounts, Adjustment No. 10, is a decrease of  
21          \$20,193 based on the five-year average of net write-offs to revenues.

22               Postage expense, Adjustment No. 11, shown on page 9 of  
23          Schedule G-1, is an increase of \$7,826 and reflects a 12.60 percent

1 increase in postage costs based on the pro forma weighted average  
2 increase that is  
3 then partially offset by electronic billing savings for the twelve months  
4 ending December 31, 2023.

5 Adjustment No. 12 for advertising expense is shown on page 10 of  
6 Schedule G-1 and reflects a decrease of \$9,213. Pursuant to past  
7 Commission policy, general promotional and institutional advertising  
8 expense has been eliminated. Informational advertising is adjusted to  
9 exclude advertising that is not applicable to Wyoming gas operations.

10 Insurance expense is shown on Adjustment No. 13 and reflects an  
11 increase of \$17,244. This increase is adjusted to reflect actual 2024  
12 expenses and a 5-year average of self-insurance expense.

13 Materials expense shown as Adjustment No. 14, on page 12 is an  
14 increase of \$61,925 and is adjusted to reflect an increase in distribution  
15 material expense due to abnormally low material usage in 2023 and the  
16 2024 leak survey and resulting corrective action.

17 Adjustment No. 15 shows Subcontract Labor expense in Schedule  
18 G-1, page 13 is based on the Pro Forma adjusted value to reflect the  
19 decrease of \$80,000 due to using internal staff to line locate.

20 Schedule G-1, page 14 is Adjustment No. 16 for software  
21 Maintenance expense is an increase of \$28,050 and is based on pro  
22 forma levels.

23 Adjustment No. 17 for industry dues reflects the pro forma level of

1 industry dues and is an increase of \$257. Statement G, Schedule G-1  
2 page 15 through 16 shows those dues that are directly assigned or  
3 allocated to Wyoming, the appropriate pro forma expense level and the  
4 benefit to the ratepayer.

5 Regulatory commission expense shown as Adjustment No. 18 on  
6 page 17 of Schedule G-1 is an increase of \$52,318. This adjustment  
7 reflects the expenses to be incurred in this filing amortized over a three-  
8 year period, the expenses related to depreciation studies amortized over a  
9 five-year period, and a three-year average of ongoing regulatory  
10 commission expenses. As shown on Workpaper Statement G, page 47,  
11 the rate case expense amortization is adjusted to exclude \$49,841. This  
12 represents the over collected balance for rate case expense associated  
13 with Docket No. 30013-351-GR-19.

14 Rent Expense shown as Adjustment No. 19, on page 18 Schedule  
15 G-1, reflects the adjusted decrease of \$29,052 in rent. The projected  
16 2024 reflects adjustments for increases in Distribution due to a  
17 combination of existing leases transferring from annual easement expense  
18 and new leases, all in support of the implementation of the Mobile Radio  
19 System. Customer accounts was adjusted due to return of rental  
20 equipment mid-year and A&G was adjusted for 2024 based off a lower  
21 expense due to a process change related to the way the Company  
22 charges and expenses rent. There is also a reduction in Rental Revenue  
23 found in Statement F, Schedule F-3.

1 Adjustment No. 20 shows Annual Easement Expense on page 19  
2 of Schedule G-1 reflects a decrease of \$3,813 due to moving existing  
3 radio tower leases from annual easement to rent expense.

4 The items adjusted individually above represent approximately 98.9  
5 percent of total Wyoming gas O&M. The remaining items, which make up  
6 approximately 1.1 percent of other O&M, are adjusted to reflect interest  
7 paid on customer deposits as approved in Docket No. 30013-351-GR-19  
8 based on the 2024 Wyoming authorized interest rate and an adjustment  
9 for a small charge incorrectly coded.

10 **Q. Would you describe the calculation of depreciation expense?**

11 A. Yes. The adjustment to depreciation expense is contained in  
12 Statement H. Adjustment No. 22, as found on Schedule H-1, pages 1  
13 through 3, restates the annual depreciation expense to the pro forma level  
14 of plant in service resulting in a decrease of \$173,846. Concentric  
15 Advisors, ULC prepared gas and common plant depreciation studies, at  
16 the Company's request, for gas and common assets based on the plant  
17 balances on December 31, 2021. The depreciation studies are supported  
18 in the testimony of Mr. Larry E. Kennedy.

19 **Q. What adjustments were made to taxes other than income?**

20 A. The adjustments to taxes other than income are contained in  
21 Statement I. Adjustment No. 23 restates ad valorem taxes to the pro  
22 forma level of plant in service based on the 2023 ratio of ad valorem taxes  
23 to plant. The net result is an increase of \$15,920.

1 Adjustment No. 24 on page 2 of Statement I, Schedule I-1 shows  
2 payroll taxes reflecting an increase of \$3,861 based on the ratio of payroll  
3 taxes to labor expense for 2023 applied to pro forma labor expense.

4 The Wyoming franchise taxes (Adjustment No. 25) is shown on  
5 page 3 of Schedule I-1 are restated to the pro forma revenue levels by  
6 applying the composite franchise rate to pro forma revenues for a  
7 decrease of \$34,768.

8 Adjustment No. 26 on page 4 of Schedule I-1, shows the Wyoming  
9 Uniform Assessment tax reflects pro forma based on 2024 assessment  
10 notice from the Department of Revenue. The net result in a decrease of  
11 \$22,295.

12 **Q. What adjustments were made to income taxes?**

13 A. The adjustments to income taxes are contained in Statement J.  
14 The adjustment to current income tax (Adjustment No. 27) is shown on  
15 Schedule J-1, Page 1 of Statement J. Current income tax expense also  
16 incorporates the adjustments to operating income for the change in  
17 interest expense and book/tax differences related to depreciation.

18 The adjustment to operating income to reflect the change in interest  
19 expense (Adjustment No. 28) is shown on Schedule J-1, page 2. Interest  
20 is deductible for tax purposes and interest expense is calculated based on  
21 the pro forma rate base using the weighted cost of debt and debt ratio  
22 from Statement E. The resulting interest expense is an increase of  
23 \$140,555 from the per books level.

1                   The closing/filing and prior period adjustments in the current  
2                   income tax accrual and in the deferred taxes are eliminated on page 3 in  
3                   Adjustment No. 29 and 30. Adjusted current and deferred income taxes  
4                   match those calculated for Wyoming and conform to past Commission  
5                   practices.

6                   **Pro Forma Rate Base**

7                   **Q.     How would you describe the development of the rate base?**

8                   A.           Per books and pro forma rate base for Wyoming gas operations is  
9                   summarized in Statement A, page 4. The pro forma rate base is based on  
10                  the year end 2023 rate base and reflects known and measurable  
11                  adjustments that will occur within twelve months of December 31, 2023.  
12                  The pro forma adjustments to rate base are summarized on Statement A,  
13                  page 5.

14                  Statement B, page 1 summarizes the pro forma plant in service.  
15                  Adjustment A is the known and measurable plant additions that will be in  
16                  service by December 31, 2024. The additions of \$7,311,293 includes  
17                  additions to distribution, general and common plant and is shown  
18                  Statement B, Schedule B-2, pages 1 through 4.

19                  Projects that typically result in incremental customers and  
20                  associated volumes, labeled Growth Projects, have not been included in  
21                  the Company's capital additions to plant as the level of customer additions  
22                  has typically been insignificant and not reliably predictable.

23                  Adjustment B, shown in Schedule B-3, page 1, reflects Wyoming

1 pro forma retirements which are primarily based on a three-year average  
2 and results in reduction of \$730,281.

3 Adjustment C, shown on Statement C, page 1, increases the  
4 reserve for depreciation on the per books plant by \$2,245,655. This  
5 adjustment, combined with Adjustment B, restates the accumulated  
6 reserve to the pro forma level in order to match the pro forma plant levels.  
7 This results in a net increase of \$1,515,374.

8 **Q. How were the working capital items derived?**

9 A. The working capital adjustments are summarized in Statement D.  
10 Detailed information for Adjustments D through K are shown on Schedule  
11 D-1, pages 1 through 8. Page 1 of Statement D shows materials and  
12 supplies balances restated to a thirteen month average, with actual  
13 balances through June 2024, in Adjustment D, for a decrease of \$27,021.

14 Prepaid Insurance is restated to a thirteen month average in  
15 Adjustment E with actual balances through June 2024 and balances for  
16 July through December 2024 reflect pro forma expense as shown on  
17 Workpaper Statement D, page 1. It is expected to increase \$7,021.

18 Adjustment F, G, H, and I reflect the unamortized loss on debt,  
19 unamortized redemption of preferred stock cost, provision for pension &  
20 benefits and provision for post-retirement. These adjustments were  
21 calculated using the balance as of December 31, 2023 and Pro Forma  
22 2024, as shown on Statement D, Schedule D-1, pages 3 through 6.  
23 Please note that the pension and post-retirement calculations are

1 consistent as referenced in Docket No. 30013-351-GR-19.

2 Customer Advances for Construction is restated to a thirteen month  
3 average in Adjustment J, on Schedule D-1, page 7, with actual balances  
4 through June 2024 and balances for July through December 2024 reflect  
5 June 2024 balances. It is expected to increase \$346.

6 Adjustment K, shown on page 8 of Schedule D-1 is Wyoming  
7 Customer Deposits allocated to the gas utility based on annual sales  
8 revenue. Pro Form customer deposits are balances as of June 30, 2024.

9 **Q. Would you describe the deductions to rate base?**

10 A. The accumulated deferred income tax balances are summarized on  
11 Statement J, Schedule J-2, page 1. Adjustment M on page 3 of Schedule  
12 J-2 is deferred income taxes on plant for pro forma plant additions, see  
13 Statement J, Schedule J-2, page 4. Adjustment No. 32 shown on page 3  
14 reflects net depreciation on plant in service 2024 tax depreciation, see  
15 Workpaper Statement J, page 1 and book depreciation see Statement  
16 Workpaper H, pages 3-4.

17 Adjustment L and Adjustment No. 31 shown on Schedule J-2, page  
18 2, are associated with excess deferred income taxes resulting from  
19 changes in tax rates. The Non-Plant Excess Deferred Income Taxes  
20 associated with the Tax Cuts and Jobs Act of 2017 were fully amortized in  
21 2023. Please note that the full normalization of the Tax Reform Act of  
22 1986 was completed in 2021.

1   **Q.     Can you please explain Exhibit No.\_\_\_\_(TRV-1)?**

2    A.           Exhibit No.\_\_\_\_(TRV-1), which is identical to Statement A, page 1,  
3           shows the calculation of the revenue deficiency of \$2,588,216 based on  
4           the pro forma operating income and rate base and using the overall rate of  
5           return of 7.823 percent from Statement E, page 1.

6    **Normalization**

7   **Q.     Would you describe the development of the normalized volumes?**

8    A.           Natural gas volumes for residential, firm general, and select  
9           interruptible and transportation customers were adjusted to reflect normal  
10          weather patterns, where appropriate. Each of the aforementioned  
11          customer classes were adjusted separately. Billing period sales volumes  
12          and customers, by month, were the starting point for the data utilized in  
13          the models.

14               First, customer classes were analyzed, with input from the  
15          Company's Gas Supply Department, to determine whether natural gas  
16          usage was associated with heating purposes and therefore correlated with  
17          weather. The general idea of heat-sensitivity is that some customers will  
18          increase the amount of natural gas that they consume as the outside  
19          temperature drops. Typically, this increase in consumption is cyclical with  
20          the calendar – as fall and winter set in, natural gas volumes sold to  
21          customers tend to increase. However, there are certain customers and  
22          instances in which colder weather is not correlated with the amount of  
23          natural gas consumed – these customers are considered non-heat-

1 sensitive.

2 All firm service customer classes were determined to be heat-  
3 sensitive. Interruptible and transportation customers were analyzed on an  
4 individual basis and grouped into heat-sensitive and non-heat-sensitive by  
5 each customer class.

6 **Q. How were the normalized volumes calculated for heat-sensitive**  
7 **customers?**

8 A. For customer classes and individual customers that were  
9 determined to be heat-sensitive, weather and billing data were  
10 incorporated into a regression model for each respective class of service.  
11 To incorporate seasonal weather patterns, billing period degree days  
12 based on a 60-degree day were included as an input in the modeled  
13 regressions. Billing data used as inputs in the model were the monthly  
14 distinct count of customers and the actual dekatherms of gas consumed.  
15 The time period for each customer class in the modeled regressions was  
16 36 months, or 3 years.

17 Using the results of the regression analysis for residential and firm  
18 general service customer classes, the daily baseload use per customer  
19 was multiplied by the respective number of days in each calendar month  
20 to arrive at the monthly baseload use per customer. The use per degree  
21 day per customer was then applied to the normal billing period degree  
22 days (based on normal weather for 30 years) to determine the normalized  
23 heating use per customer. Montana-Dakota has historically used 30-year

1 normals for weather normalization purposes and believes that using 30-  
2 years of normal weather data continues to be most appropriate to capture  
3 historical weather trends. The results of each of these equations was then  
4 combined by the number of customers in each respective month to  
5 determine the normalized usage for the twelve months ended December  
6 31, 2023.

7 **Q. How were the normalized volumes calculated for non-heat-sensitive**  
8 **customers?**

9 A. For customers that were determined to be non-heat-sensitive,  
10 simple averages of historical consumption patterns were utilized. These  
11 averages are considered to be the normalized volumes for the non-heat-  
12 sensitive customers. These averages were calculated at an individual  
13 customer level. For most non-heat customers, a two or three year  
14 average was calculated based on actual use during the period of January  
15 2021 – December 2023.

16 **Q. Was any consideration given to customers which changed rate**  
17 **classes?**

18 A. Yes. Montana-Dakota analyzed the historical data for interruptible  
19 and transportation customers that changed rate classes during the time  
20 period in the data. During the time period of 2021 through 2023, there  
21 were no customers identified that changed rates under which they took  
22 service. The Company also discussed internally with its field operations  
23 and gas supply departments to determine if there were any foreseeable

1 changes to the classifications of its interruptible and transportation  
2 customers and was notified that a Small IT Transport Contract customer  
3 was moving to the Large IT Transport rate.

4 **Q. How were the pro forma volumes calculated for heat-sensitive**  
5 **customers?**

6 A. The pro forma volumes were based upon the calculated normalized  
7 volumes for each customer class. For the residential and firm general rate  
8 classes, Montana-Dakota utilized an annualization process to obtain a pro  
9 forma level of customers and volumes. The annualization process allows  
10 for Montana-Dakota to account for customer growth within 2023 and  
11 reflect volumes had these new customers been in service for the entire  
12 calendar year of 2023. For other heat-sensitive customers and classes,  
13 the pro forma volumes were set equal to the normalized volumes as  
14 calculated and described previously.

15 **Q. How were the pro forma volumes calculated for non-heat sensitive**  
16 **customers?**

17 A. The pro forma volumes for the non-heat sensitive customers were  
18 set equal to their normalized volumes.

19 **Q. Would you describe the weather data utilized in developing weather**  
20 **normalized gas sales?**

21 A. Montana-Dakota purchases raw daily weather data from DTN. The  
22 data utilized in the weather normalizations is the average temperature in  
23 degrees Fahrenheit for areas that Montana-Dakota provides natural gas

1 service in Wyoming. The daily average temperature is compared to an  
2 industry standard 60 (sixty) degrees Fahrenheit and if the temperature is  
3 below 60 degrees, the difference is considered the degree day value. For  
4 example, if the average daily temperature is 55 for March 1<sup>st</sup>, then the  
5 amount of degree days is 5 ( $60-55=5$ ). These temperatures are collected  
6 from two regional weather stations in Wyoming (Powell and Sheridan) and  
7 the differences for each day are considered calendar degree days. These  
8 calendar degree days for each respective area are then weighted based  
9 upon the amount of historical number of bills that are sent to customers in  
10 each respective billing period cycle to calculate a billing period degree day  
11 (BPDD) for each of the two regions. These regional BPDDs are then  
12 weighted based upon the historical number of firm customer service points  
13 to calculate a system-wide Wyoming BPDD.

14 **Q. Would you describe the methodology used to calculate customer**  
15 **counts?**

16 A. The Company's Customer Care and Billing System (CC&B) was the  
17 starting point for the development of the customer counts. Microsoft  
18 Excel's Distinct Count function was used to count the number of unique  
19 customers. The Count function in Excel counts the total number of values  
20 corresponding to a range of data, regardless if a specific value has  
21 multiple entries in the data set. The Distinct Count function has been  
22 utilized by Montana-Dakota to determine its customer counts in rate cases  
23 filed in Wyoming and other jurisdictions as it accounts for adjustments and

1 corrections to customer bills in the CC&B data set.

2 **Q. Can you please explain Exhibit No.\_\_\_\_(TRV-2)?**

3 A. Exhibit No.\_\_\_\_(TRV-2), which is identical to Workpaper Statement  
4 F, page 1, is ultimately used in the projected revenues on Statement F,  
5 Schedule F-2, pages 1 through 26. The results presented on Exhibit No.  
6 \_\_\_\_ (TRV-2) are supported by the regression results included in  
7 Workpapers Statement F, pages 2 through 28.

8 **Gas Cost Tracking Adjustment Procedure**

9 **Q. Are you proposing any changes to Rate 88 – Purchased Gas Cost**  
10 **Adjustment Procedure?**

11 A. Yes, Montana-Dakota has proposed a Firm General Contracted  
12 Demand Service Rate 74 as discussed by Ms. Bosch. Rate 88 has been  
13 updated to reflect the cost of gas to be charged for Rate 74. The Capacity  
14 Charge will be developed on an incremental pipeline capacity basis and  
15 applied to the contracted billing demand. The Cost of Gas - Commodity  
16 Charge will be based on costs applicable to firm customers, exclusive of  
17 pipeline demand charges, and will be applied to the customer's actual  
18 measured Dk for the given month. Exhibit No. \_\_\_\_ (TRV-3) is the  
19 proposed Rate 88 tariff, also included in Appendix B.

20 **Q. What type of customers typically use Rate 74?**

21 A. As discussed in the testimony of Ms. Stephanie Bosch, Rate 74 is  
22 proposed to be applicable to non-residential customers with standby  
23 natural gas generators or customers who qualify under the Company's

1 interruptible service tariffs, but have requested, and received Company  
2 approval, for firm gas service under the proposed rate schedule.

3 As stated in the proposed Rate 88 tariff, the demand costs  
4 recovered from the Rate 74 customers are proposed to be credited to the  
5 residential and firm general service customers via the unrecovered  
6 purchased gas account. Therefore, this rate is not unduly preferential.

7 **Rate 72 – Optional Seasonal General Gas Service**

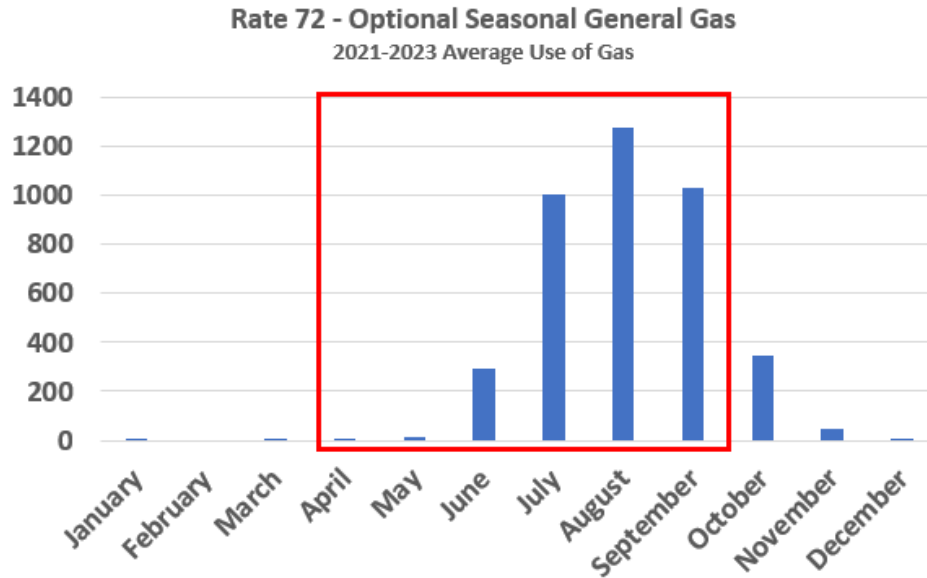
8 **Q. What type of customers typically use Rate 72?**

9 A. Rate 72 is an Optional Seasonal Gas rate that is serving customers  
10 that generally take service during the summer months and thus do not  
11 contribute to the winter capacity peak. As a result, the customers using  
12 this rate do not pay for demand in the summer months of April through  
13 September.

14 As shown on Workpaper Statement F, page 1, Montana-Dakota  
15 currently has seven Rate 72 customers, and does not project a change in  
16 the number of customers in the pro forma period. Although 2 of these  
17 customers are swimming pools, the others are agricultural users, such as  
18 irrigation customers.

19 **Q. In what timeframe are these customers typically using natural gas?**

20 A. When evaluating the average usage of last three years of monthly  
21 data, 90.1 percent of gas is consumed in the summer months of April  
22 through September.



1

2

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**Q. Does this complete your direct testimony?**

9

**A.** Yes, it does.

**MONTANA-DAKOTA UTILITIES CO.**  
**PRO FORMA OPERATING INCOME AND RATE OF RETURN**  
**GAS UTILITY - WYOMING**  
**TWELVE MONTHS ENDED DECEMBER 31, 2023 WITH PRO FORMA ADJUSTMENTS**  
**REFLECTING ADDITIONAL REVENUE REQUIREMENTS**

	Before Additional Revenue Requirements 1/	<b>Additional Revenue Requirements</b>	Reflecting Additional Revenue Requirements
<b>Operating Revenues</b>			
Sales	\$17,632,996	<b>\$2,530,313</b>	\$20,163,309
Transportation	516,528		516,528
Other	98,438		98,438
Total Revenues	<u>\$18,247,962</u>	<u>\$2,530,313</u>	<u>\$20,778,275</u>
<b>Operating Expenses</b>			
Operation and Maintenance			
Cost of Gas	\$11,170,244		\$11,170,244
Other O&M	4,497,207		4,497,207
Total O&M	<u>15,667,451</u>	<u>0</u>	<u>15,667,451</u>
Depreciation	1,955,706		1,955,706
Taxes Other Than Income	493,507	29,417	522,924
Current Income Taxes	119,548	525,190 2/	644,737
Deferred Income Taxes	(358,130)		(358,130)
Total Expenses	<u>\$17,878,082</u>	<u>\$554,607</u>	<u>\$18,432,688</u>
Operating Income	<u>\$369,880</u>	<u>\$1,975,706</u>	<u>\$2,345,586</u>
Rate Base	<u>\$29,983,208</u>		<u>\$29,983,208</u>
<b>Rate of Return</b>	<u><b>1.234%</b></u>		<u><b>7.823%</b></u>

1/ See Statement A, Page 2.

2/ Reflects taxes at 21% after deducting franchise and revenue taxes at 1.1626%.

**Montana-Dakota Utilities Co.**  
**Gas Utility - Wyoming**  
**Normalization Summary**  
**For the Twelve Months Ending December 31, 2023**

	<b>Customers</b>			<b>Volumes</b>		
	<u>Per Books</u>	<u>Normalized</u>	<u>Annualized</u>	<u>Per Books</u>	<u>Normalized</u>	<u>Annualized</u>
Rate 60 - Residential	17,750	17,750	17,920	1,634,622.8	1,586,318	1,604,478
Rate 70 - Small Firm General	1,860	1,860	1,866	306,328.7	290,030	291,166
<u>Rate 70 - Large Firm Sales:</u>						
Rate 70 - Large Firm General	683	683	690	894,096.5	855,485	865,078
Rate 70 - First Through Meter	4	4	4	6,935.0	6,923	6,923
Total Rate 70 - Large:	687	687	694	901,031.5	862,408	872,001
Rate 72 - Small Optional Seasonal	5	5	5	1,792.2	2,042	2,042
Rate 72 - Large Optional Seasonal	2	2	2	2,013.5	1,981	1,981
<b>Total Firm Service:</b>	<b>20,304</b>	<b>20,304</b>	<b>20,487</b>	<b>2,845,788.7</b>	<b>2,742,779</b>	<b>2,771,668</b>
Rate 71 - Small IT Sales:	1	1	1	9,153.4	14,297	14,297
<u>Rate 81 - Small IT Transport:</u>						
Rate 81 - Heat Sensitive:	4	4	4	55,373.9	52,991	52,991
Rate 81 - Non-Heat Sensitive:	1	1	1	9,357.5	13,152	13,152
Rate 81 - Contract Cust 81-2:	1	1	1	286,009.2	254,149	254,149
Rate 81 - Contract Cust 81-3:	1	1	1	25,587.3	23,374	23,374
Rate 81 - Contract Cust 81-4:	1	1	1	40,924.9	36,702	36,702
Rate 81 - Contract Cust 81-5:	1	1	1	78,337.4	56,255	56,255
Total Rate 81:	9	9	9	495,590.2	436,623	436,623
Rate 82 - Large IT Transport:	3	3	3	1,282,033.0	1,209,748	1,209,748
Rate 82 - Contract Cust 82-4:	1	1	1	576,034.9	539,731	539,731
Rate 82 - Contract Cust 82-5:	1	1	1	482,875.0	492,106	492,106
Rate 82 - Contract Cust 82-6:	1	1	1	662,099.5	647,383	647,383
Total Rate 82:	6	6	6	3,003,042.4	2,888,968	2,888,968
Rate 85 - Large IT Sales 1/	0	0	0	200.1	0	0
<b>Total IT Sales &amp; Transportation:</b>	<b>16</b>	<b>16</b>	<b>16</b>	<b>3,507,986.1</b>	<b>3,339,888</b>	<b>3,339,888</b>
<b>Total Sales:</b>	20,305	20,305	20,488	2,855,142.2	2,757,076	2,785,965
<b>Total Transport:</b>	15	15	15	3,498,632.6	3,325,591	3,325,591
<b>Total Sales &amp; Transport:</b>	<b>20,320</b>	<b>20,320</b>	<b>20,503</b>	<b>6,353,774.8</b>	<b>6,082,667</b>	<b>6,111,556</b>

1/ Customer takes main service under Rate 82 and purchased available service in Rate 85 during 2023.

Exhibit No. \_\_\_\_ (TRV-3)



# Montana-Dakota Utilities Co.

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 3  
Original Sheet No. 70

### **PURCHASED GAS COST ADJUSTMENT Rate 88**

Page 1 of 6

#### **1. Applicability:**

This rate schedule constitutes a Purchased Gas Cost Adjustment (PGA) provision and specifies the procedure to be utilized to adjust the rates for gas sold under Montana-Dakota's rate schedules in order to reflect: (a) changes in Montana-Dakota's average cost of gas supply and (b) amortization of the Unrecovered Purchase Gas Cost Account.

#### **2. Effective Date and Limitation on Adjustments:**

- (a) The effective dates of the PGA shall be service rendered on and after the first day of each month, unless the Commission shall otherwise order.
- (b) Montana-Dakota shall file an adjustment to reflect changes in its average cost of gas supply only when the amount of such adjustment is at least 25 (twenty-five) cents per dk. The adjustment to be effective October 1 shall be filed each year, regardless of the amount of the change.

#### **3. Purchased Gas Cost Adjustment:**

- (a) The monthly PGA shall reflect changes in Montana-Dakota's cost of gas supply as compared to the cost of gas supply approved in its most recent PGA. The cost of gas supply shall be the sum of all prudent costs incurred in obtaining gas for general system supply. General system supply is defined as gas available for use by all customers served under retail sales rate schedules. The cost of gas supply shall include, but not be limited to, all demand, commodity, storage, gathering, and transportation charges incurred by Montana-Dakota for such gas supply; the revenue requirement at the authorized Wyoming return on prepaid demand and commodity charges and gas storage balances, required to maintain the system gas supply; and hedging program gains, losses and transaction costs related to system gas supply.
- (b) The PGA shall be computed as follows:
  - (1) Demand costs shall include all annual gathering, transportation and storage demand charges at current rates.

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Director – Regulatory Affairs

**Docket No.:** 30013-415-GR-24



# Montana-Dakota Utilities Co.

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 3  
Original Sheet No. 71

### **PURCHASED GAS COST ADJUSTMENT** **Rate 88**

Page 2 of 6

- (2) Commodity costs shall include all annual gathering, transportation and storage charges at current rates.
- (3) The gas commodity cost shall reflect all commodity related gas costs estimated to be in effect for the month the PGA will be in effect and annual dk requirements.
- (4) The return on prepaid demand and commodity balances and storage balances shall reflect the revenue requirement on the average of the thirteen monthly balances. The revenue requirement shall be calculated by multiplying the average balance by the authorized rate of return, as adjusted for Federal income taxes on the equity component of the capital structure.

The cost per dk for the month is the sum of the above divided by annual, weather normalized dk deliveries for the most recent twelve month period adjusted to reflect losses.

- (c) Monthly gas costs shall be calculated as follows:
  - (1) Demand costs for firm and interruptible sales customers shall be apportioned to all state jurisdictions served by Montana-Dakota on the basis of the overall ratio of each state's Maximum Daily Delivery Quantity (MDDQ).
  - (2) Demand costs for firm general contracted demand customers shall be stated on the incremental MDDQ basis.
  - (3) All commodity costs and other costs associated with the acquisition of gas for general system supply shall be apportioned to each state on the basis of total dks sold in each state, regardless of the actual points of delivery of such gas.
  - (4) The revenue requirement related to prepaid demand and commodity charges and gas storage balances shall be included

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# Montana-Dakota Utilities Co.

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 3  
Original Sheet No. 72

### **PURCHASED GAS COST ADJUSTMENT Rate 88**

Page 3 of 6

on a per dk basis. The prepaid demand and storage balances shall be apportioned to all states on the basis of each state's MDDQ. The prepaid commodity charges shall be apportioned to all states on the basis of annual dks sold in each state. The unit cost shall be calculated using a thirteen month average balance by multiplying the average balance by the authorized rate of return as adjusted for Federal income taxes on the equity component of the capital structure. The resulting revenue requirement shall be divided by the weather normalized dk deliveries for the most recent twelve month period adjusted to reflect losses.

- (5) All costs related to specific end-use transactions shall not be included in the cost of gas supply determination but shall be directly billed to the customer(s) contracting for such service.
- (d) The PGA shall be uniformly applied to all of Montana-Dakota's rate schedules pursuant to the Commission's Order in Docket No. 9458 Sub 91.

#### **4. Surcharge Adjustment:**

All sales rate schedules shall be subject to a Surcharge Adjustment to be effective on October 1 of each year. The Surcharge Adjustment per dk sold shall reflect amortization of the applicable balance in the Unrecovered Purchased Gas Cost Account calculated by dividing the applicable balance by the estimated dk sales for the twelve months following the effective date of the adjustment.

#### **5. Unrecovered Purchased Gas Cost Account:**

- (a) Items to be included in the Unrecovered Purchased Gas Cost Account, as calculated in accordance with Subsection 5(b) are:
  - (1) Charges for gas supply which Montana-Dakota is unable to reflect in a Purchased Gas Cost Adjustment by reason of the twenty-five cent minimum limitation set forth in Subsection 2(b).

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# Montana-Dakota Utilities Co.

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 3  
Original Sheet No. 73

### **PURCHASED GAS COST ADJUSTMENT** **Rate 88**

Page 4 of 6

- (2) Amounts of increased/decreased charges for gas supplies which were paid during any period after the effective date of the most recent PGA, but not yet included in sales rates.
- (3) Refunds received from supplier(s) with respect to gas supply. Such refunds received shall be credited to the Unrecovered Purchased Gas Cost Account.
- (4) Capacity release revenue allocated to Wyoming.
- (5) Carrying charges or credits as specified by Subsection 5(b)(2).
- (6) Demand costs recovered from the firm general contracted demand sales customers will be credited to the residential and firm general service customers.
- (b) (1) The amount to be included in the Unrecovered Purchased Gas Cost Account in order to reflect the items specified in Subsections 5(a)(1), (2), and (3) shall be calculated as follows:
  - (i) Montana-Dakota shall first determine each month the unit cost for that month's natural gas supply as adjusted to levelize demand charges.

Such adjustment to levelize supplier(s) demand charges shall be calculated as follows:

The suppliers' annual (calendar or fiscal) demand charges, which are payable in equal monthly payments, shall be accumulated in a prepaid account (FERC Account 165). Each month a portion of such accumulated prepaid amount shall be amortized to cost of natural gas purchased (FERC Account 804). Such monthly amortization shall be based on a rate calculated by dividing the annual supplier(s) demand charges by

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# Montana-Dakota Utilities Co.

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 3  
Original Sheet No. 74

### **PURCHASED GAS COST ADJUSTMENT** **Rate 88**

Page 5 of 6

projected annual natural gas sales units (calendar or fiscal, as appropriate). The resulting per unit rate shall then be multiplied by the projected natural gas unit sales for the current month. Such amount shall constitute the monthly amortization of prepaid supplier(s) demand charges to cost of natural gas supply.

- (ii) Montana-Dakota shall then subtract from each month's unit cost the unit cost for gas supply which is reflected in the currently effective PGA.
  - (iii) The resulting difference (which may be positive representing an undercollection; which is defined as current gas costs exceeding gas costs recovered in rates; or negative representing an overcollection; which is defined as gas costs recovered in rates exceeding current gas costs) shall be multiplied by the dks sold during that month under each rate schedule. The resulting amounts shall be reflected in an Unrecovered Purchased Gas Cost Account.
- (2) Interest will be calculated and credited to Account 191 each month as follows:
- (i) The balance in Account 191, to which interest will apply, will be the balance at the end of the immediately preceding month. Interest will be paid on net overcollections. The Company shall offset any cumulative undercollections against cumulative overcollections in the computation of interest to be paid. Interest shall be credited monthly to Account 191 at one-twelfth of the Commission Authorized Interest Rate described in Chapter 1, Section 2 (a)(xv) of the Wyoming Public Service Commission's Rules.
  - (ii) In no case shall the Company receive interest for net undercollections.

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Director – Regulatory Affairs

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# Montana-Dakota Utilities Co.

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

## State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 3  
Original Sheet No. 75

### **PURCHASED GAS COST ADJUSTMENT** **Rate 88**

Page 6 of 6

- (c) Reduction of Amounts in the Unrecovered Purchased Gas Cost Account:
  - (1) The amounts in the Unrecovered Purchased Gas Cost Account shall be decreased each month by an amount determined by multiplying the currently effective surcharge adjustment included in rates for that month (as calculated in Section 4) by the dks sold during that month under each rate schedule. The account shall be increased in the event the adjustment is a negative amount.
  - (2) The amount amortized each month shall be applied pro rata between the amounts in the Unrecovered Purchased Gas Cost Account specified in Subsections 5(a)(1), (2), (3), (4) and the amounts in the Unrecovered Purchased Gas Cost Account specified in Subsection 5(a)(5).

#### **6. Time and Manner of Filing:**

- (a) Each filing by Montana-Dakota shall be made by means of revised PGA and rate schedule tariff sheets identifying the amounts of the adjustments and the resulting currently effective PGA rates. Montana-Dakota shall file to change the PGA at least 20 days prior to the proposed effective date.
- (b) Each filing shall be accompanied by detailed computations which clearly show the derivation of the relevant amounts. Each filing shall contain an accompanying statement that supports the Company's gas acquisition practices as required by the Wyoming Public Service Commission.
- (c) Each filing shall also contain the information necessary to comply with Chapter 3, Section 26 of the Wyoming Public Service Commission's Rules.

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**Docket No.:** 30013-415-GR-24

**MONTANA-DAKOTA UTILITIES CO.**

**Before the Public Service Commission of Wyoming**

**Docket No. 30013-415-GR-24**

**Direct Testimony**

**of**

**Ronald J. Amen**

**October 31, 2024**

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## **I. INTRODUCTION AND SUMMARY**

1   **Q.     Please state your name and business address.**

2   A.     My name is Ronald J. Amen and my business address is 10 Hospital Center  
3           Commons, Suite 400, Hilton Head Island, SC 29926.

4   **Q.     On whose behalf are you appearing in this proceeding?**

5   A.     I am appearing on behalf of Montana-Dakota Utilities Co. ("Montana-Dakota" or  
6           the "Company").

7   **Q.     By whom are you employed and in what capacity?**

8   A.     I am employed by Atrium Economics, LLC ("Atrium") as a Managing Partner.

9   **Q.     What has been the nature of your work in the energy utility consulting field?**

10  A.     I have over 40 years of experience in the utility industry, the last 27 years of  
11           which have been in the field of utility management and economic consulting. I  
12           have advised and assisted utility management, industry trade organizations, and  
13           large energy users in matters pertaining to costing and pricing; competitive  
14           market analysis; regulatory planning and policy development; resource planning  
15           and acquisition; strategic business planning; merger and acquisition analysis;  
16           organizational restructuring; new product and service development; and load  
17           research studies. I have prepared and presented expert testimony before utility  
18           regulatory bodies across North America and have spoken on utility industry  
19           issues and activities dealing with the pricing and marketing of gas utility services,  
20           gas and electric resource planning and evaluation, and utility infrastructure  
21           replacement. Further background information summarizing my work experience,  
22           presentation of expert testimony, and other industry-related activities is included  
23           as Appendix A to my testimony.

1   **Q.     Please summarize your testimony.**

2   A.     In my testimony I present Montana-Dakota's Cost of Service Study ("COSS") and  
3           discuss its results. I also present the proposed class revenue apportionment and  
4           various rate design proposals filed by Montana-Dakota in this proceeding.

5           My testimony consists of this introduction and summary section and the  
6           following additional sections:

- 7           •   Theoretical Principles of Cost Allocation
- 8           •   Montana-Dakota's COSS
- 9           •   Principles of Sound Rate Design
- 10          •   Determination of Proposed Class Revenues
- 11          •   Montana-Dakota's Rate Design Proposals
- 12          •   Customer Bill Impacts

13   **Q.     Please provide a list of the exhibits and schedules supporting your**  
14   **testimony.**

15   A.     I am sponsoring Statement K, Statement L, and the following exhibits:

- 16          •   Exhibit No.\_\_\_\_(RJA-1), Proposed Revenue Allocation
- 17          •   Exhibit No.\_\_\_\_(RJA-2), Revenues at Current and Proposed Rates, and
- 18          •   Exhibit No.\_\_\_\_(RJA-3), Residential and Firm General Service Bill
- 19          Comparisons.

## II.     **THEORETICAL PRINCIPLES OF COST ALLOCATION**

20   **Q.     Why do utilities conduct cost allocation studies as part of the regulatory**  
21   **process?**

22   A.     There are many purposes for utilities conducting cost allocation studies, ranging  
23           from designing appropriate price signals in rates to determining the share of  
24           costs or revenue requirements borne by the utility's various rate or customer

1 classes. In this case, an embedded COSS is a useful tool for determining the  
2 allocation of Montana-Dakota 's revenue requirement among its customer  
3 classes. It is also a useful tool for rate design because it can identify the  
4 important cost drivers associated with serving customers and satisfying their  
5 design day demands.

6 Embedded cost studies analyze the costs for a test period based on  
7 either the book value of accounting costs (a historical period) or the estimated  
8 book value of costs for a forecast test year or some combination of historical and  
9 future costs. Typically, embedded cost studies are used to allocate the revenue  
10 requirement between jurisdictions, classes, and between customers within a  
11 class.

12 **Q. Please discuss the reasons that cost of service studies are utilized in**  
13 **regulatory proceedings.**

14 A. Cost of service studies represent an attempt to analyze which customer or group  
15 of customers cause the utility to incur the costs to provide service. The  
16 requirement to develop cost studies results from the nature of utility costs. Utility  
17 costs are characterized by the existence of common costs. Common costs occur  
18 when the fixed costs of providing service to one or more classes, or the cost of  
19 providing multiple products to the same class, use the same facilities and the use  
20 by one class precludes the use by another class.

21 Utility costs may be fixed or variable in nature. Fixed costs do not change  
22 with the level of throughput, while variable costs change directly with changes in  
23 throughput. Most non-fuel related utility costs are fixed in the short run and do not  
24 vary with changes in customers' loads. This includes the cost of distribution  
25 mains and service lines, meters, and regulators. The distribution assets of a gas

1 utility do not vary with the level of throughput in the short run. In the long run,  
2 main costs vary with either growing design day demand or a growing number of  
3 customers.

4 Finally, utility costs exhibit significant economies of scale. Scale  
5 economies result in declining average cost as gas throughput increases and  
6 marginal costs must be below average costs. These characteristics have  
7 implications for both cost analysis and rate design from a theoretical and  
8 practical perspective. The development of cost studies requires an understanding  
9 of the operating characteristics of the utility system. Further, as discussed below,  
10 different cost studies provide different contributions to the development of  
11 economically efficient rates and the cost responsibility by customer class.

12 **Q. Are cost of service studies an application of economic theory to cost**  
13 **allocation?**

14 A. The allocation of costs using cost of service studies is not a theoretical economic  
15 exercise. Rather, it is a practical requirement of regulation since rates must be  
16 set based on the cost of service for the utility under cost-based regulatory  
17 models. As a general matter, utilities must be allowed a reasonable opportunity to  
18 earn a return of and on the assets used to serve their customers. This is the cost  
19 of service standard and equates to the revenue requirements for utility service.  
20 The opportunity for the utility to earn its allowed rate of return depends on the  
21 rates applied to customers producing that revenue requirement. Using the cost  
22 information per unit of demand, customer, and energy developed in the cost of  
23 service study to understand and quantify the allocated costs in each customer  
24 class is a useful step in the rate design process to guide the development of  
25 rates.

1                   However, the existence of common costs makes any allocation of costs  
2                   problematic from a strict economic perspective. This is theoretically true for any  
3                   of the various utility costing methods that may be used to allocate costs.  
4                   Theoretical economists have developed the theory of subsidy-free prices to  
5                   evaluate traditional regulatory cost allocations. Prices are said to be subsidy-free  
6                   so long as the price exceeds the incremental cost of providing service but is less  
7                   than stand-alone costs. The logic for this concept is that if customers' prices  
8                   exceed incremental cost, those customers contribute to the fixed costs of the  
9                   utility. All other customers benefit from this contribution to fixed costs because it  
10                  reduces the cost they are required to bear. Prices must be below the stand-alone  
11                  because the customer would not be willing to participate in the service offering if  
12                  prices exceed stand-alone costs.

13                  Stand-alone costs are an important concept for Montana-Dakota because  
14                  certain customers have competitive options for the end uses supplied by natural  
15                  gas through the use of alternative fuels. As a result, subsidy-free prices permit all  
16                  customers to benefit from the system's scale and common costs, and all  
17                  customers are better off because the system is sustainable. If strict application of  
18                  the cost allocation study suggests rates that exceed stand-alone costs for some  
19                  customers, prices must nevertheless be set below the stand-alone costs, but  
20                  above marginal cost, to ensure that those customers make the maximum  
21                  practical contribution to the common costs of the utility.

22   **Q.    If any allocation of common cost is problematic from a theoretical**  
23   **perspective, how is it possible to meet the practical requirements of cost**  
24   **allocation?**

1 A. As noted above, the practical reality of regulation often requires that common  
2 costs be allocated among jurisdictions, classes of service, rate schedules, and  
3 customers within rate schedules. The key to a reasonable cost allocation is an  
4 understanding of *cost causation*. Cost causation, as alluded to earlier, addresses  
5 the need to identify which customer or group of customers causes the utility to  
6 incur particular types of costs. To answer this question, it is necessary to  
7 establish a linkage between a Local Distribution Company's ("LDC's") customers  
8 and the particular costs incurred by the utility in serving those customers.

9 An important element in the selection and development of a reasonable  
10 COSS allocation methodology is the establishment of relationships between  
11 customer requirements, load profiles and usage characteristics on the one hand  
12 and the costs incurred by the Company in serving those requirements on the  
13 other hand. For example, providing a customer with gas service during peak  
14 periods can have much different cost implications for the utility than service to a  
15 customer who requires off-peak gas service.

16 **Q. Why are the relationships between customer requirements, load profiles and**  
17 **usage characteristics significant to cost causation?**

18 A. The Company's distribution system is designed to meet three primary objectives:  
19 (1) to extend distribution services to all customers entitled to be attached to the  
20 system; (2) to meet the aggregate design day peak capacity requirements of all  
21 customers entitled to service on the peak day; and (3) to deliver volumes of  
22 natural gas to those customers either on a sales or transportation basis. There  
23 are certain costs associated with each of these objectives. Also, there is  
24 generally a direct link between the manner in which such costs are defined and  
25 their subsequent allocation.

1           Customer related costs are incurred to attach a customer to the  
2           distribution system, meter any gas usage and maintain the customer's account.  
3           Customer costs are a function of the number of customers served and continue  
4           to be incurred whether or not the customer uses any gas. They generally include  
5           capital costs associated with minimum size distribution mains, services, meters,  
6           regulators and customer service and accounting expenses.

7           Demand or capacity related costs are associated with plant that is  
8           designed, installed, and operated to meet maximum hourly or daily gas flow  
9           requirements, such as the transmission and distribution mains, or more localized  
10          distribution facilities that are designed to satisfy individual customer maximum  
11          demands. Gas supply contracts also have a capacity related component of cost  
12          relative to the Company's requirements for serving daily peak demands and the  
13          winter peaking season.

14          Commodity related costs are those costs that vary with the throughput  
15          sold to, or transported for, customers. Costs related to gas supply are classified  
16          as commodity related to the extent, they vary with the amount of gas volumes  
17          purchased by the Company for its sales service customers.

18                 From a cost of service perspective, the best approach is a direct  
19          assignment of costs where costs are incurred for a customer or class of  
20          customers and can be so identified. Where costs cannot be directly assigned, the  
21          development of allocation factors by customer class uses principles of both  
22          economics and engineering. This results in appropriate allocation factors for  
23          different elements of costs based on cost causation. For example, we know from  
24          the manner in which customers are billed that each customer requires a meter.  
25          Meters differ in size and type depending on the customer's load characteristics.

1        These meters have different costs based on size and type. Therefore, meter  
2        costs are customer-related, but differences in the cost of meters are reflected by  
3        using a different meter cost for each class of service. For some classes such as  
4        the largest customers, the meter cost may be unique for each customer.

5        **Q.     How does one establish the cost and utility service relationships you**  
6        **previously discussed?**

7        A.     To establish these relationships, the Company must analyze its gas system  
8        design and operations, its accounting records, as well as its system and  
9        customer load data (e.g., annual, and peak period gas consumption levels). From  
10       the results of those analyses, methods of direct assignment and common cost  
11       allocation methodologies can be chosen for all of the utility's plant and expense  
12       elements.

13       **Q.     Please explain what you mean by the term “direct assignment.”**

14       A.     The term direct assignment relates to a specific identification and isolation of  
15       plant and/or expense incurred exclusively to serve a specific customer or group  
16       of customers. Direct assignments best reflect the cost causation characteristics  
17       of serving individual customers or groups of customers. Therefore, in performing  
18       a COSS, the cost analyst seeks to maximize the amount of plant and expense  
19       directly assigned to particular customer groups to avoid the need to rely upon  
20       other more generalized allocation methods. An alternative to direct assignment is  
21       the development of an allocation methodology supported by a special study as is  
22       done with costs associated with meters and services.

23       **Q.     What prompts the analyst to elect to perform a special study?**

24       A.     When direct assignment is not readily apparent from the description of the costs  
25       recorded in the various utility plant and expense accounts, then further analysis

1 may be conducted to derive an appropriate basis for cost allocation. For  
2 example, in evaluating the costs charged to certain operating or administrative  
3 expense accounts, it is customary to assess the underlying activities, the related  
4 services provided, and for whose benefit the services were performed.

5 **Q. How do you determine whether to directly assign costs to a particular**  
6 **customer or customer class?**

7 A. Direct assignments of plant and expenses to particular customers or classes of  
8 customers are made wherever the necessary data are available. These  
9 assignments are developed by detailed analyses of the utility's maps and  
10 records, work order descriptions, property records and customer accounting  
11 records. Within time and budgetary constraints, the greater the magnitude of cost  
12 responsibility based upon direct assignments, the less reliance need be placed  
13 on common plant allocation methodologies associated with joint use plant.

14 **Q. Is it realistic to assume that a large portion of the plant and expenses of a**  
15 **utility can be directly assigned?**

16 A. No. The nature of utility operations is characterized by the existence of common  
17 or joint use facilities, as mentioned earlier. Out of necessity, then, to the extent a  
18 utility's plant and expense cannot be directly assigned to customer groups,  
19 common allocation methods must be derived to assign or allocate the remaining  
20 costs to the customer classes. The analyses discussed above facilitate the  
21 derivation of reasonable allocation factors for cost allocation purposes.

22 **Q. Were direct assignments of plant made in Montana-Dakota's COSS?**

23 A. Yes. Special studies were performed to determine a portion of the specific  
24 distribution plant installed to serve Montana-Dakota's Small Firm General and  
25 Large Interruptible customers. The costs related to these facilities from the

1 following plant accounts were directly assigned to the Small Firm General and  
2 Large Interruptible customer classes.

- 3 • Account 375 – Structures and Improvements. Direct assignment to Large  
4 Interruptible (Rate 82).
- 5 • Account 379 – Measuring & Regulating Equipment - City Gate. Direct  
6 assignment to Large Interruptible (Rate 82).
- 7 • Account 383 – Service Regulators. Direct assignment to Small Firm  
8 General (Rate 70).
- 9 • Account 385 – Industrial Measuring & Regulating Station Equipment.  
10 Direct assignment to Large Interruptible (Rate 82).

### III. MONTANA-DAKOTA'S COST OF SERVICE STUDY

#### A. Process Steps and Structure of the Cost of Service Study

11 **Q. Please describe the process of performing Montana-Dakota's COSS analysis.**

12 A. In order to establish the cost responsibility of each customer class, the COSS  
13 consists of a three-step analysis process: (1) cost functionalization, (2) cost  
14 classification, and (3) cost allocation. The first step, cost functionalization,  
15 identifies and separates plant and expenses into specific categories based on the  
16 various characteristics of utility operation. The Company's functional cost  
17 categories associated with gas service include production (i.e., gas supply  
18 related expenses), distribution and general. The general function includes costs  
19 that cannot be directly assigned to the primary operating functions of production,  
20 storage, transmission, and distribution. These costs are functionalized in  
21 accordance with the Federal Energy Regulatory Commission ("FERC") Uniform  
22 System of Accounts ("USOA"). Classification of costs, the second step, further  
23 separates the functionalized plant and expenses into the three cost-defining

1 characteristics previously discussed: (1) customer, (2) demand or capacity, and  
2 (3) commodity. The final step is the allocation of each functionalized and  
3 classified cost element to the individual customer class. Costs typically are  
4 allocated on customer, demand, commodity, or revenue allocation factors.

5 **Q. Are there factors that can influence the overall cost allocation framework**  
6 **utilized by a gas utility when performing a COSS?**

7 A. Yes. The factors which can influence the cost allocation used to perform a COSS  
8 include: (1) the physical configuration of the utility's gas system; (2) the  
9 availability of data within the utility; and (3) the state legislative and regulatory  
10 policies and evidentiary requirements applicable to the utility.

11 **Q. Why are these considerations relevant to conducting Montana-Dakota's**  
12 **COSS?**

13 A. It is important to understand these considerations because they influence the  
14 overall context within which a utility's cost study was conducted. In particular,  
15 they provide an indication of where efforts should be focused for purposes of  
16 conducting a more detailed analysis of the utility's gas system design and  
17 operations and understanding the regulatory environment in the State of  
18 Wyoming as it pertains to cost of service studies and gas ratemaking issues.

19 **Q. Please explain why the physical configuration of the system is an important**  
20 **consideration.**

21 A. The particulars of the physical configuration of the transmission and distribution  
22 system are important. The specific characteristics of the system configuration,  
23 such as, whether the distribution system is a centralized or a dispersed one,  
24 should be identified. Other such characteristics are whether the utility has a  
25 single city-gate or a multiple city-gate configuration, whether the utility has an

1 integrated transmission and distribution system or a distribution-only operation,  
2 and whether the system is a multiple-pressure based or a single pressure-based  
3 operation.

4 **Q. What are the specific physical characteristics of Montana-Dakota's system?**

5 A. The physical configuration of Montana-Dakota's Wyoming system is a dispersed /  
6 multiple city-gate, distribution-only and multi pressure-based system.

7 **Q. What was the source of the cost data analyzed in the Company's COSS?**

8 A. All cost of service data has been extracted from the Company's total cost of  
9 service (i.e., total revenue requirement) and subsidiary schedules contained in  
10 this filing.

11 **Q. How does the availability of data influence a COSS?**

12 A. The structure of the utility's books and records can influence the cost study  
13 framework. This structure relates to attributes such as the level of detail,  
14 segregation of data by operating unit or geographic region and the types of load  
15 data available. Montana-Dakota maintains detailed plant accounting records for  
16 many of its distribution-related facilities.

17 **Q. How are Montana-Dakota's classes structured for purposes of the COSS?**

18 A. The COSS evaluated five customer classes: Residential Service (Tariff Schedule  
19 60); Small Firm General Service (Tariff Schedules 70 and 72); Large Firm  
20 General Service (Tariff Schedules 70 and 72); Small Interruptible General Service  
21 (Tariff Schedules 71 and 81); and Large Interruptible General Service (Tariff  
22 Schedules 82 and 85).

23 **Q. How do state regulatory policies bear upon a utility's COSS?**

24 A. State regulatory policies and requirements prescribe whether there is a particular  
25 approach historically used to establish utility rates in the state. Specifically, state

1 regulations may set forth the methodological preferences or guidelines for  
2 performing cost studies or designing rates which can influence the cost allocation  
3 method utilized by the utility.

**B. Classification and Allocation of Distribution Mains**

4 **Q. How did the Company's COSS classify and allocate investment in**  
5 **Distribution Mains?**

6 A. The Company classified 35% of its investment in distribution mains as customer  
7 related and 65% of the investment as demand related. The customer related  
8 portion of the distribution mains investment was then allocated based on the  
9 number of customers on Montana-Dakota's system. The demand related  
10 investment was allocated to the customer classes based on their respective  
11 contribution to peak day demand under system design weather conditions, in  
12 other words, on a "design day" basis.

13 **Q. Please explain the basis for the Company's choice of classification and**  
14 **allocation methods?**

15 A. It is widely accepted that distribution mains (FERC Account No. 376) are installed  
16 to meet both system peak period load requirements and to connect customers to  
17 the LDC's gas system. Therefore, to ensure that the rate classes that cause the  
18 Company to incur this plant investment or expense are charged with its cost,  
19 distribution mains should be allocated to the rate classes in proportion to their  
20 peak period load requirements and number of customers.

21 There are two cost factors that influence the level of distribution mains  
22 facilities installed by an LDC in expanding its gas distribution system. First, the  
23 size of the distribution main (i.e., the diameter of the main) is directly influenced  
24 by the sum of the peak period gas demands placed on the LDC's gas system by

1 its customers. Secondly, the total installed footage of distribution mains is  
2 influenced by the need to expand the distribution system grid to connect new  
3 customers to the system. Therefore, to recognize that these two cost factors  
4 influence the level of investment in distribution mains, it is appropriate to allocate  
5 such investment based on both peak period demands and the number of  
6 customers served by the LDC.

7 **Q. Is the method used by the Company to determine a customer cost**  
8 **component of distribution mains a generally accepted technique for**  
9 **determining customer costs?**

10 A. Yes. The two most commonly used methods for determining the customer cost  
11 component of distribution mains facilities consist of the following: (1) the zero-  
12 intercept approach and 2) the most commonly installed, minimum-sized unit of  
13 plant investment. Under the zero-intercept approach, a customer cost component  
14 is developed through regression analyses to determine the unit cost associated  
15 with a zero-inch diameter distribution main. The method regresses unit costs  
16 associated with the various sized distribution mains installed on the LDC's gas  
17 system against the size (diameter) of the various distribution mains installed. The  
18 zero-intercept method seeks to identify that portion of plant representing the  
19 smallest size pipe required merely to connect any customer to the LDC's  
20 distribution system, regardless of the customer's peak or annual gas  
21 consumption.

22 The most commonly installed, minimum-sized unit approach, which is the  
23 method relied upon in the Company's cost study, is intended to reflect the  
24 engineering considerations associated with installing distribution mains to serve  
25 gas customers. That is, the method utilizes actual installed investment units to

1 determine the minimum distribution system rather than a statistical analysis  
2 based upon investment characteristics of the entire distribution system.

3 Two of the more commonly accepted literary references relied upon when  
4 preparing embedded cost of service studies, Electric Utility Cost Allocation  
5 Manual, by John J. Doran et al, National Association of Regulatory Utility  
6 Commissioners ("NARUC"), and Gas Rate Fundamentals, American Gas  
7 Association, both describe minimum system concepts and methods as an  
8 appropriate technique for determining the customer component of utility  
9 distribution facilities.

10 From an overall regulatory perspective, in its publication entitled, Gas  
11 Rate Design Manual, NARUC presents a section which describes the zero-  
12 intercept approach as a minimum system method to be used when identifying  
13 and quantifying a customer cost component of distribution mains investment.

14 Clearly, the existence and utilization of a customer component of  
15 distribution facilities, specifically for distribution mains, is a fully supportable and  
16 commonly used approach in the gas industry.

17 **Q. With respect to Montana-Dakota's specific operating experience, is there**  
18 **demonstrable evidence to support the use of a customer component of**  
19 **distribution mains?**

20 A. Yes. In developing an appropriate cost allocation basis for distribution mains, the  
21 two methods of cost analysis mentioned in the previous response were  
22 conducted for the Company's investment in distribution mains, by size and  
23 material type of main installed. The zero-intercept method employed provided  
24 poor statistical properties that yielded results that were unsatisfactory. Therefore,

1 the Company relied upon the minimum system study for determining the  
2 customer component of distribution mains.

3 The most commonly installed, minimum-sized distribution mains analysis  
4 focused on 2-inch plastic pipe. Out of the approximately 3.4 million total feet of  
5 distribution mains installed in Montana-Dakota's Wyoming service territory, 2.5  
6 million feet were less than or equal to 2-inch plastic pipe. The dominant pipe size  
7 for new distribution main installations by far is 2-inch plastic, with over 477,800  
8 feet installed over the past ten years; approximately 96 percent of all mains  
9 installations. The 2-inch plastic pipe analysis, adjusted downward to account for  
10 its load carrying capacity, yielded a minimum system result of 34.6% customer  
11 component of mains.

12 **Q. Do the results of the minimum system method described above therefore**  
13 **support the 35% classification of distribution mains as customer related,**  
14 **used by the Company?**

15 A. Yes. Applying the average unit cost of \$7.87 per foot (in 2024\$) for a 2-inch  
16 plastic distribution main to the Company's total footage of distribution mains,  
17 adjusted for the load carrying capacity of a pipeline of this size and material type,  
18 results in an investment amount equivalent to approximately 35% of the total  
19 investment in distribution mains.

20 **Q. Would one expect there to be a strong correlation between the number of**  
21 **customers served by Montana-Dakota and the length of its system of**  
22 **distribution mains?**

23 A. Yes. Development of the Company's distribution grid over time is a dynamic  
24 process. Customers are added to the distribution system on a continuous basis  
25 under a variety of installation conditions. Accordingly, this process cannot be

1 viewed as a static situation where a particular customer being added to the  
2 system at any one point in time can serve as a representative example for all  
3 customers. Rather, it is more appropriate to understand and appreciate that for  
4 every situation where a customer can be added with little or no additional footage  
5 of mains installed, there are contrasting situations where a customer can be  
6 added only by extending the distribution mains to the customer's "off-system"  
7 location.

8 Recognizing that the goal is to more reasonably classify and allocate the  
9 total cost of Montana-Dakota's distribution mains facilities, it is appropriate to  
10 analyze the cost causation factors that relate to these facilities based on the total  
11 number of customers serviced from such facilities. Accordingly, the concept of  
12 using a minimum system approach for classifying distribution mains simply  
13 reflects the fact that the average customer serviced by the Company requires a  
14 minimum amount of mains investment to receive such service. Thus, it is entirely  
15 appropriate to conclude that the number of customers served by Montana-  
16 Dakota represents a primary causal factor in determining the amount of  
17 distribution mains cost that should be assessed to any particular group of  
18 customers. One can readily conclude that a customer component of distribution  
19 mains is a distinct and separate cost category that has much support from an  
20 engineering and operating standpoint.

21 **Q. Why is Montana-Dakota's design day demand an appropriate method of**  
22 **allocating demand related investment in distribution mains?**

23 A. Use of a utility's design day demand is a superior method for purposes of  
24 deriving demand allocation factors for a number of reasons. These reasons  
25 include:

1 (1) A utility's gas system is designed, and consequently costs are incurred, to  
2 meet design day demand. In contrast, costs are not incurred on the basis of an  
3 average of peak demands.

4 (2) Design day demand is more consistent with the level of change in  
5 customer demands for gas during peak periods and is more closely related to the  
6 change in fixed plant investment over time.

7 (3) Design day demand provides more stable cost allocation results over  
8 time.

9 **Q. Please explain why Montana-Dakota's design day demand best reflects the**  
10 **factors that actually cause costs to be incurred.**

11 A. Montana-Dakota must consistently rely upon design day demand in the design of  
12 its own transmission and distribution facilities required to serve its firm service  
13 customers. More importantly, design day demand directly measures the gas  
14 demand requirements of the utility's firm service customers which create the  
15 need for Montana-Dakota to acquire resources, build facilities and incur millions  
16 of dollars in fixed costs on an ongoing basis. In my opinion, there is no better way  
17 to capture the true cost causative factors of Montana-Dakota's operations than to  
18 utilize its design peak day requirements within its cost of service studies.

19 **Q. Please explain why use of design day demand provides more stable cost**  
20 **allocation results over time.**

21 A. By definition, a utility's design day peak is as stable a determinant of planned  
22 capacity utilization as you can derive. If it were not a stable demand determinant,  
23 the design of a utility's gas system and supply portfolio would tend to vary and  
24 make the installation of facilities and acquisition of supply resources and capacity  
25 a much more difficult task. Therefore, use of design day demands provides a

1 more stable basis than any of the other demand allocation factors available  
2 based on either actual peak day demand or the averaging of multiple peak days.

**C. Distribution and General Plant Classification and Allocation**

3 **Q. How were the remaining Distribution Plant costs treated in the COSS?**

4 A. As discussed earlier, where possible, costs were directly assigned to the  
5 customer classes based on data in the Company's plant records. Weighting  
6 factors were developed for plant costs in FERC Account Nos. 380 (Services) and  
7 381 (Meters) based on the size and type of the facilities and equipment. The  
8 classification and allocation of the balance of the costs in Account 383 (House  
9 Regulators) that were not directly assigned were based on the weighted  
10 customers at distribution which is a meter weighted allocation. The classification  
11 and allocation of the balance of the costs in Account 385 (Industrial M&R  
12 Equipment) that were not directly assigned were based on the design peak day  
13 excluding the Residential and Small Firm General classes. The costs in Accounts  
14 Nos. 374 (Land & Right of Way), 375 (Structures and Improvements), and 378 &  
15 379 (Measurement & Regulator Station Equipment – General & City Gate) that  
16 were not directly assigned were classified and allocated based on the distribution  
17 mains allocator. The costs in Account 387 (Other Distribution Equipment) were  
18 classified and allocated based on the sum of the allocation of Distribution Plant  
19 Account Nos. 375-385.

20 **Q. How were the General and Common Plant costs classified and allocated in**  
21 **the COSS?**

22 A. With one exception, General and Common Plant costs were classified and  
23 allocated to the customer classes based on an internal allocation factor  
24 generated from the results of the classification and allocation of distribution plant

1 costs. Common Intangible – Customer Care & Billing & PragmaCAD (CC&B &  
2 PCAD) plant was classified as customer-related and allocated on the average  
3 number of customers.

**D. Operation & Maintenance, Customer Accounts & Services, and  
Administrative & General Expenses**

4 **Q. How were O&M expenses classified and allocated in the COSS?**

5 A. Generally, the classification and allocation of the Operation & Maintenance  
6 (O&M) expenses followed the treatment of the related plant accounts. Exceptions  
7 were Account No. 879 (Customer Installations Expense which followed the  
8 weighted customers allocator from the meter study, Account Nos. 870  
9 (Supervision & Engineering), 880 (Other Expenses), and 881(Rents) which  
10 followed all other distribution operations expenses, and Account Nos. 885  
11 (Supervision & Engineering) and 894 (Other Equipment) which followed all other  
12 distribution maintenance expenses.

13 **Q. Please describe the classification and allocation of Customer Accounts and  
14 Customer Service expenses in the COSS.**

15 A. Customer accounts and services expenses were classified as customer-related  
16 costs and allocated based on the average number of distribution customers by  
17 class. Exceptions to this treatment were Account Nos. 902 (Meter Reading), 903  
18 (Customer Records & Collections) and 904 (Uncollectible Accounts). Meter  
19 reading expenses were allocated based on the total annualized number of  
20 customers weighted by meter size. A composite allocation factor was created for  
21 customer records and collections expenses, based on a study of the various  
22 functions and related activities of the responsibility areas that charged to this  
23 account. Uncollectible accounts expenses were assigned to the residential and

1 small firm general classes based on number of customers, which reflected the  
2 historical uncollectible expense experience.

3 **Q. Please explain the treatment of Administrative and General expenses in the**  
4 **COSS?**

5 A. The majority of the A&G expenses were classified and allocated based on the  
6 internally generated allocation factor of total O&M expenses, excluding gas  
7 supply related costs and A&G. Taxes Other than Income Taxes includes Ad  
8 Valorem taxes which were allocated based on Distribution plant; Payroll,  
9 Franchise and Other taxes which were allocated based on O&M excluding gas  
10 costs; and Revenue taxes which were allocated based on Pro forma retail  
11 revenue.

#### **E. Cost of Service Study Results**

12 **Q. Please explain the COSS information contained in Statement K.**

13 A. Statement K contains a summary of the results of the COSS by major rate  
14 classifications, Residential, Small Firm General, Large Firm General, Small  
15 Interruptible Sales and Transportation, and Large Interruptible Sales and  
16 Transportation. Statement K, Schedule K-1, pages 1 – 3, provides a report  
17 entitled "Cost of Service by Component." This report shows the total dollars and  
18 unit cost required under each rate if the Pro Forma rate of return of 7.823 percent  
19 were to be earned for the demand, energy, and customer cost components of  
20 each rate schedule.

21 Statement K, Schedule K-2, pages 1 – 24, is a report of the rate base,  
22 income statement and pro forma adjustments as allocated to each rate schedule.  
23 The description of each allocator and the allocation factors for each class and  
24 cost component are provided in Statement K, Schedule K-3.

1                   The COSS is based on the Wyoming natural gas operations results for  
2                   the 12 months ended December 31, 2023 as adjusted to reflect the pro forma  
3                   adjustments sponsored by Company witness Ms. Vesey.

4   **Q.     Please summarize the results of the COSS.**

5   A.     As shown in Statement K page 2, the overall rate of return for Wyoming natural  
6           gas service is 1.083%, based on the actual results of operations for the twelve  
7           months ended December 31, 2023, adjusted for known and measurable  
8           changes. The returns by customer class are shown below:

- |    |  |         |
|----|--|---------|
| 9  | • Residential Service                        | -0.196% |
| 10 | • Small Firm General Service                 | 1.566%  |
| 11 | • Large Firm General Service                 | 3.570%  |
| 12 | • Small Interruptible Sales & Transportation | 86.499% |
| 13 | • Large Interruptible Sales & Transportation | 31.951% |

#### IV.   PRINCIPLES OF SOUND RATE DESIGN

14   **Q.     Please identify the principles of rate design you rely upon as the basis for**  
15           **rate design proposals.**

16   A.     A number of rate design principles or objectives find broad acceptance in utility  
17           regulatory and policy literature. These include:

- 18           • Efficiency;
- 19           • Cost of Service;
- 20           • Value of Service;
- 21           • Stability;
- 22           • Non-Discrimination;
- 23           • Administrative Simplicity; and

- 1           •   Balanced Budget.

2           These rate design principles draw heavily upon the “Attributes of a Sound  
3   Rate Structure” developed by James Bonbright in Principles of Public Utility  
4   Rates. Each of these principles plays an important role in analyzing the rate  
5   design proposals of Montana-Dakota.

6   **Q.   Please discuss the principle of efficiency.**

7   A.   The principle of efficiency broadly incorporates both economic and technical  
8   efficiency. As such, this principle has both a pricing dimension and an  
9   engineering dimension. Economically efficient pricing promotes good decision-  
10   making by gas producers and consumers, fosters efficient expansion of delivery  
11   capacity, results in efficient capital investment in customer facilities, and  
12   facilitates the efficient use of existing gas pipeline, storage, transmission, and  
13   distribution resources. The efficiency principle benefits stakeholders by creating  
14   outcomes for regulation consistent with the long-run benefits of competition while  
15   permitting the economies of scale consistent with the best cost of service.  
16   Technical efficiency means that the development of the gas utility system is  
17   designed and constructed to meet the design day requirements of customers  
18   using the most economic equipment and technology consistent with design  
19   standards.

20   **Q.   Please discuss the cost of service and value of service principles.**

21   A.   These principles each relate to designing rates that recover the utility’s total  
22   revenue requirement without causing inefficient choices by consumers. The cost  
23   of service principle contrasts with the value of service principle when certain  
24   transactions do not occur at price levels determined by the embedded cost of  
25   service. In essence, the value of service acts as a ceiling on prices. Where prices

1 are set at levels higher than the value of service, consumers will not purchase  
2 the service. This principle puts the concept of stand-alone costs, discussed  
3 earlier, into practice and is particularly relevant for Montana-Dakota because of  
4 the competitive supply alternatives that cap rates under its flex rates.

5 **Q. Please discuss the principle of stability.**

6 A. The principle of stability typically applies to customer rates. This principle  
7 suggests that reasonably stable and predictable prices are important objectives  
8 of a proper rate design.

9 **Q. Please discuss the concept of non-discrimination.**

10 A. The concept of non-discrimination requires prices designed to promote fairness  
11 and avoid undue discrimination. Fairness requires no undue subsidization either  
12 between customers within the same class or across different classes of  
13 customers.

14 This principle recognizes that the ratemaking process requires  
15 discrimination where there are factors at work that cause the discrimination to be  
16 useful in accomplishing other objectives. For example, considerations such as  
17 the location, type of meter and service, demand characteristics, size, and a  
18 variety of other factors are often recognized in the design of utility rates to  
19 properly distribute the total cost of service to and within customer classes. This  
20 concept is also directly related to the concepts of vertical and horizontal equity.  
21 The principle of horizontal equity requires that “equals should be treated equally”  
22 and vertical equity requires that “unequals should be treated unequally.”  
23 Specifically, these principles of equity require that where cost of service is equal  
24 – rates should be equal and, where costs are different – rates should be different.  
25 In this case, this principle is an important requirement that supports Montana-

1 Dakota's proposed use of a single monthly Basic Service Charge for all  
2 customers within certain of its tariff schedules.

3 **Q. Please discuss the principle of administrative simplicity.**

4 A. The principle of administrative simplicity as it relates to rate design requires  
5 prices be reasonably simple to administer and understand. This concept includes  
6 price transparency within the constraints of the ratemaking process. Prices are  
7 transparent when customers are able to reasonably calculate and predict bill  
8 levels and interpret details about the charges resulting from the application of the  
9 tariff.

10 **Q. Please discuss the principle of the balanced budget.**

11 A. This principle permits the utility a reasonable opportunity to recover its allowed  
12 revenue requirement based on the cost of service. Proper design of utility rates is  
13 a necessary condition to enable an effective opportunity to recover the cost of  
14 providing service included in the revenue authorized by the regulatory authority.  
15 This principle is very similar to the stability objective that I previously discussed  
16 from the perspective of customer rates.

17 **Q. Can the objectives inherent in these principles compete with each other at**  
18 **times?**

19 A. Yes, like most principles that have broad application, these principles can  
20 compete with each other. This competition or tension requires further judgment to  
21 strike the right balance between the principles. Detailed evaluation of rate design  
22 alternatives and rate design recommendations must recognize the potential and  
23 actual competition between these principles. Indeed, Bonbright discusses this  
24 tension in detail. Rate design recommendations must deal effectively with such

1 tension. For example, as noted above, there are tensions between cost and  
2 value of service principles.

3 **Q. Please describe the conflict between marginal cost price signals and the**  
4 **recovery of the utility's revenue requirement.**

5 A. The conflict between proper price signals based on marginal cost and the  
6 balanced budget principle arises because marginal cost is below average cost  
7 due to economies of scale. Where fixed delivery service costs do not vary with  
8 the volume of gas sales, marginal costs for delivery equal zero. Marginal  
9 customer costs equal the additional cost of the customer accessing the entire  
10 gas delivery system. Marginal cost tends to be either above or below average  
11 cost in both the short run and the long run. This means that marginal cost-based  
12 pricing will produce either too much or too little revenue to support the utility's  
13 total revenue requirement. This suggests that efficient price signals may require a  
14 multi-part tariff designed to meet the utility's revenue requirements while sending  
15 marginal cost price signals related to gas consumption decisions. Properly  
16 designed, a multi-part tariff may include elements such as access charges,  
17 facilities charges, demand charges, consumption charges, and the potential for  
18 revenue credits.

19 In the case of an LDC such as Montana-Dakota, for residential and small  
20 commercial customers, the combination of scale economies and class  
21 homogeneity may permit the use of a single fixed monthly charge that meets all  
22 of the requirements for an efficient rate that recovers the utility's revenue  
23 requirement that is derived on an embedded cost basis. For larger customers, a  
24 combination of these elements permits proper price signals and revenue  
25 recovery; however, the tariff design becomes more difficult to structure and likely

1 will no longer meet the requirements of simplicity. Therefore, sacrificing some  
2 economic efficiency for a customer class in order to maintain simplicity  
3 represents a reasonable compromise. For larger customers, the added  
4 complexity of a demand charge may not be a concern. Further, for the largest  
5 customers, the cost of metering is customer-specific and each customer creates  
6 its own unique requirements for gas distribution service based on factors such as  
7 distance from the utility's city gate, pressure requirements, and contract demand  
8 levels.

9 **Q. Are there other potential conflicts?**

10 A. Yes. There are potential conflicts between simplicity and non-discrimination and  
11 between value of service and non-discrimination. Other potential conflicts arise  
12 where utilities face unique circumstances that must be considered as part of the  
13 rate design process.

14 **Q. Please summarize Bonbright's three primary criteria for sound rate design.**

15 A. Bonbright identifies the three primary criteria for sound rate design as follows:

- 16 • Capital Attraction
- 17 • Consumer Rationing
- 18 • Fairness to Ratepayers

19 These three criteria are basically a subset of the list of principles above and  
20 serve to emphasize fundamental considerations in designing public utility rates.  
21 Capital attraction is a combination of an equitable rate of return on rate base and  
22 the reasonable opportunity to earn the allowed rate of return. Consumer rationing  
23 requires that rates discourage wasteful use and promote all economically  
24 efficient use. Fairness to ratepayers reflects avoidance of undue discrimination  
25 and equity principles.

1   **Q.     How are these principles translated into the design of retail gas rates?**

2   A.     The process of developing rates within the context of these principles and  
3           conflicts requires a detailed understanding of all the factors that impact rate  
4           design. These factors include:

- 5           •   System cost characteristics such as established in the COSS required by  
6               the Commission, or embedded customer, demand, and commodity  
7               related costs by type of service;
- 8           •   Customer load characteristics such as peak demand, load factor,  
9               seasonality of loads, and quality of service;
- 10          •   Market considerations such as elasticity of demand, competitive fuel  
11              prices, end-use load characteristics, and LDC bypass alternatives; and
- 12          •   Other considerations such as the value of service ceiling/marginal cost  
13              floor, unique customer requirements, areas of underutilized facilities,  
14              opportunities to offer new services and the status of competitive market  
15              development.

16           In addition, the development of rates must consider existing rates and the  
17           customer impact from modifications to the rates. In each case, a rate design  
18           seeks to recover the authorized level of revenue based on the billing  
19           determinants expected to occur during the test period used to develop the rates.

20           The overall rate design process, which includes both the apportionment of  
21           the revenues to be recovered among customer classes and the determination of  
22           rate structures within customer classes, consists of finding a reasonable balance  
23           between the above-described criteria or guidelines that relate to the design of  
24           utility rates. Economic, regulatory, historical, and social factors all enter into the  
25           process. In other words, both quantitative and qualitative information is evaluated

1 before reaching a final rate design determination. Out of necessity then, the rate  
2 design process has to be, in part, influenced by judgmental evaluations.

## **V. DETERMINATION OF PROPOSED CLASS REVENUES**

3 **Q. Please describe the approach generally followed to allocate Montana-**  
4 **Dakota's proposed revenue increase of \$2.59 million to its customer classes.**

5 A. As just described, the apportionment of revenues among customer classes  
6 consists of deriving a reasonable balance between various criteria or guidelines  
7 that relate to the design of utility rates. The various criteria that were considered  
8 in the process included: (1) cost of service; (2) class contribution to present  
9 revenue levels; and (3) customer impact considerations. These criteria were  
10 evaluated for Montana-Dakota's customer classes.

11 **Q. Did you consider various class revenue options in conjunction with your**  
12 **evaluation and determination of Montana-Dakota's interclass revenue**  
13 **proposal?**

14 A. Yes. Using Montana-Dakota's proposed revenue increase, and the results of its  
15 COSS, I evaluated a few options for the assignment of that increase among its  
16 customer classes and, in conjunction with Montana-Dakota personnel and  
17 management, ultimately decided upon one of those options as the preferred  
18 resolution of the interclass revenue issue. The benchmark option that I evaluated  
19 under Montana-Dakota's proposed total revenue level was to adjust the revenue  
20 level for each customer class so that the revenue-to-cost for each class was  
21 equal to 1.00 (Unity), as shown in Exhibit No.\_\_\_\_(RJA-1), Proposed Revenue  
22 Allocation, under *Revenues at Equalized Rates of Return*. As a matter of  
23 judgment, it was decided that this fully cost-based option was not the preferred  
24 solution to the interclass revenue issue. This decision was also made in

1 consideration of the Bonbright rate design criteria discussed earlier. It should be  
2 pointed out, however, that those class revenue results represented an important  
3 guide for purposes of evaluating subsequent rate design options from a cost of  
4 service perspective.

5 A second option I considered was assigning the increase in revenues to  
6 Montana-Dakota's customer classes based on an equal percentage basis of its  
7 current non-gas revenues (see *Scenario A, Equal Percentage Increase*, in Exhibit  
8 No.\_\_\_\_ RJA-1). By definition, this option resulted in each customer class  
9 receiving an increase in revenues. However, when this option was evaluated  
10 against the COSS Study results (as measured by changes in the revenue-to-cost  
11 ratio for each customer class); there was no movement towards cost for most of  
12 Montana-Dakota's customer classes (*i.e.*, there was no convergence of the  
13 resulting revenue-to-cost ratios towards unity or 1.00). In fact, the disparity in  
14 cost responsibility between the classes was widened for the Small and Large  
15 Interruptible classes. While this option was not the preferred solution to the  
16 interclass revenue issue, together with the fully cost-based option, it defined a  
17 range of results that provides further guidance to develop Montana-Dakota's  
18 class revenue proposal.

19 A third option was to exempt the customer classes that have revenue in  
20 excess of cost under current rates from receiving any revenue increase. This  
21 option would preserve the current revenue-to-cost ratios for the larger non-  
22 residential classes: Small Interruptible Sales & Transportation and Large  
23 Interruptible Sales & Transportation (see *Scenario B, No Increase to Classes*  
24 *Above Cost*, in Exhibit No.\_\_\_\_ RJA-1).

25 **Q. What was the result of this process?**

1 A. After further discussions with Montana-Dakota, I concluded that the appropriate  
2 interclass revenue proposal would consist of *Scenario B* with the revenue in  
3 excess of cost for the Interruptible Sales and Transportation classes  
4 reapportioned to mitigate the revenue increase to the Residential Service  
5 customers (Tariff Schedule 60). Small Firm General Service (Tariff Schedule 70  
6 and 72), and Large Firm General Service (Tariff Schedule 70 and 72), received  
7 revenue increases equal to the amount required to bring the classes to the  
8 system average rate of return as shown in Exhibit No.\_\_\_\_ RJA-1 as *Proposed*  
9 *Class Revenues*. In the case of the Residential Service class, the revenue  
10 adjustment ensures their proposed rates will move class revenues closer to the  
11 COSS for the class. Not only was the Residential Service class below unity (< 1.00  
12 revenue-to-cost ratio) in the COSS results, but the class revenues also produced  
13 the lowest rate of return ("ROR") at -0.196% (Statement K, page 2 of 2). The  
14 proposed revenue increase to the residential class will improve the class's  
15 revenue to cost ratio from 0.68 to 0.98 (Exhibit No.\_\_\_\_RJA-1).

16 While the Small Firm General Service class's rate of return at current  
17 rates was 1.566% (Statement K, page 2 of 2), its revenue-to-cost ratio was below  
18 unity (0.74) at the Company's proposed ROR of 7.823% (Statement L, page 2 of  
19 9). The proposed revenue increase to this class will result in a revenue-to-cost  
20 ratio at parity (1.00). The Large Firm General Service class's rate of return at  
21 current rates was 3.570%, its revenue-to-cost ratio was below parity (0.80). The  
22 proposed revenue increase to this class will also result in a revenue-to-cost ratio  
23 at parity (1.00)

24 The COSS results for the two remaining customer classes indicate their  
25 respective class rates of return are above the system average rate of return at

1 both the Company's current and proposed ROR levels. While this would suggest  
2 the need for revenue decreases in order to move many of these customer  
3 classes closer to cost (*i.e.*, convergence of the resulting revenue-to-cost ratios  
4 towards unity or 1.00, as shown in Exhibit No.\_\_\_\_ RJA-1 under *Revenues at*  
5 *Equalized Rates of Return*), the resulting customer impact implications for the  
6 Residential Service class has led me to conclude, in consultation with the  
7 Company, to refrain from revenue reductions for the remaining customer classes,  
8 but exempting these classes from revenue increases (*Scenario B*). These two  
9 classes parity ratio levels will remain at current levels relative to unity.

10 The resulting allocation of the total revenue increase of \$2.59 million to  
11 the respective rate classes is presented in Statement L, page 2 of 9. The target  
12 revenue increase percentages are 18.68% to Residential and 7.61% to Small  
13 Firm General and Large Firm General.

14 In summary, this preferred revenue allocation approach resulted in  
15 reasonable movement of the Residential class revenue-to-cost ratio toward unity  
16 or 1.00, while providing moderation of the revenue impact on this class by  
17 requiring a level of revenue increase responsibility from the remaining customer  
18 classes below parity for the Company's total proposed revenue requirement.  
19 From a class cost of service standpoint, this type of class movement, and modest  
20 reduction in the existing class rate subsidies, is desirable.

21 Exhibit No.\_\_\_\_ (RJA-2), Revenues at Current and Proposed Rates, presents  
22 summaries by customer class of the proposed revenue increase. This exhibit  
23 displays the revenues calculated under the present and proposed rates for each  
24 customer class / tariff rate schedule. The proposed revenue increase by class  
25 and corresponding percentage is also shown.

## **VI. MONTANA-DAKOTA'S RATE DESIGN PROPOSALS**

1   **Q.     Please summarize Montana-Dakota's proposed rate design changes.**

2   A.     I will present the specific rate design changes and supporting rationale for  
3           Montana-Dakota's proposals. Montana-Dakota has proposed the following rate  
4           design changes to its current tariff schedules. For customers served under  
5           Residential Service (Tariff Schedule 60), Small Firm General Service (Tariff  
6           Schedule 70 and 72); Large General Service (Tariff Schedule 70 and 72 , Small  
7           Interruptible Sales & Transportation Service (Tariff Schedules 71 and 81); and  
8           Large Interruptible Sales and Transportation Service (Tariff Schedules 82 and  
9           85), Montana-Dakota proposes to adjust the daily or monthly Basic Service  
10          Charges to better reflect the underlying costs of providing basic customer  
11          service, as shown on Statement L . Following the revenue increases recovered  
12          through the Basic Service Charges, the remaining allocated revenue increases  
13          for these customer classes will be recovered in their respective volumetric  
14          Distribution Delivery Charge components.

15   **Q.     Please describe the proposed changes to the Basic Service Charges for the**  
16          **respective tariff schedules.**

17   A.     As seen on page 3 of Statement L the Basic Service Charge under Residential  
18          Rate 60 is proposed at \$0.879 per day which reflects an average monthly charge  
19          of \$26.72, an increase of approximately \$7.87 per month from the currently  
20          effective charge. The proposed charge is equivalent to the customer cost  
21          component identified as \$26.72 per month as shown on Statement K, Schedule  
22          K-1, page 1, and is 79% of the total fixed costs assigned to the Residential class  
23          of \$33.68 per month, which reflects both the customer and demand components  
24          of the class's allocated cost of service.

1           The Basic Service Charge applicable to Firm General Service customers  
2           with meters rated less than 500 cubic feet per hour is proposed at \$0.910 per  
3           day, and \$1.826 per day for customers requiring the larger meters capable of  
4           measuring gas flows of 500 cubic feet per hour or greater. The resulting average  
5           monthly charges will be \$27.66 and \$55.51 respectively representing an increase  
6           of \$7.29 per month in the Basic Service Charge applicable to customers using  
7           meters rated less than 500 cubic feet per hour and an increase of \$0.79 per  
8           month in the Basic Service Charge for customers requiring meters rated at 500  
9           cubic feet per hour or higher. The rate calculations for the Firm General classes  
10          are included on page 4 of Statement L.

11          The Basic Service Charge applicable to Small Interruptible Sales and  
12          Transportation Service customers is proposed at \$150.00 per month, which  
13          represents the total allocated customer related costs for the class and 62% of the  
14          total allocated customer and demand related costs. The rate calculations for the  
15          Small Interruptible Service class are included on page 5 of Statement L.

16          The Basic Service Charge applicable to Large Interruptible Sales and  
17          Transportation Service Customers is proposed at \$415.00 per month, which  
18          represents 36% of the total allocated customer related costs for the class. The  
19          rate calculations for the Large Interruptible Service class are included on page 6  
20          of Statement L.

21          These increases to the Basic Service Charges will provide significant  
22          improvement in the recovery of the fixed customer-related costs via fixed  
23          charges.

24      **Q.     Do increases in Basic Service Charges, such as those proposed by Montana-**  
25      **Dakota, discourage conservation of the natural gas commodity?**

1 A. No. Under the Company's proposed increase to its Residential Basic Service  
2 Charge, customers will continue to have a financial incentive to pursue energy  
3 efficiency measures. The portion of the customer's gas bill represented by the  
4 Company's Basic Service Charge is small relative to the combined total bill,  
5 including the gas commodity charge incurred by the customer. As depicted in the  
6 accompanying Exhibit No.\_\_\_\_(RJA-3), the portion of the typical residential  
7 customer's annual bill represented by the average Basic Service Charge  
8 increase of \$7.87 per month is approximately 13% of the total bill. The effect of  
9 raising the proposed Basic Service Charge by \$0.259 per day, the equivalent of  
10 \$8.03 per month in January, the month in which the most gas is typically  
11 consumed by residential heating customers, is only 8% of the total January bill.  
12 This is a relatively small amount. The commodity cost of gas<sup>1</sup> is 62% of the  
13 customer's bill in January, which continues to provide a strong economic price  
14 signal that may influence the customer's ongoing gas consumption decisions. In  
15 my opinion, the relatively small amount of fixed costs added to the Basic Service  
16 Charge that would otherwise be recovered in the volumetric Distribution Delivery  
17 Charge will not materially affect a customer's decision to use more or less gas.

18 By recovering more of its fixed customer-related costs in the Basic  
19 Service Charge, the Company will be able to continue promoting energy  
20 efficiency and conservation for its customers while moderately reducing the real  
21 threat of margin losses due to declining gas sales per customer.

22 **Q. Does a volumetrically weighted rate design provide the most appropriate**  
23 **prices signals to customers related to gas consumption?**

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<sup>1</sup> Montana-Dakota's proforma cost of gas in the COSS is \$4.012 per Dk.

1 A. No. A volumetrically weighted rate design conveys improper price signals to  
2 customers because it recovers fixed costs through the volumetric components of  
3 the utility's rate structure. When this undesirable situation exists, it can: (1)  
4 increase revenue variability due to factors beyond the gas utility's ability to  
5 influence; (2) fail to account for cost differences between and within customer  
6 classes; (3) promote inefficient use of the gas utility's system; and (4) needlessly  
7 inflate bills in the winter months, when customers face the greatest pressure on  
8 their household budgets from utility bills. Montana-Dakota's rate design proposal  
9 to increase the level of its Basic Service Charges moves in the right direction to  
10 minimize these undesirable effects and best aligns the price signals to customers  
11 with the underlying costs of providing gas delivery service.

12 A Basic Service Charge that better reflects the level of customer related  
13 costs will result in a customer's annual bill more accurately reflecting the non-gas  
14 revenue amounts approved by the Commission in this rate case, while customers  
15 will recognize the results of their energy conservation efforts in the amount they  
16 pay for the gas commodity in their monthly bills.

17 In summary, a moderately higher Basic Service Charge provides  
18 increased bill stability for customers and increased revenue stability for the  
19 Company.

20 **Q. In view of the Residential Basic Service Charge proposed by the Company,**  
21 **can you offer any further analysis that would evaluate the magnitude of**  
22 **increases to which individual customers will be exposed?**

23 A. Yes. This can generally be assessed by analyzing how a change in rates impacts  
24 a customer's total bill, rather than the individual rate components, and is best  
25 analyzed by looking at the sum total of the customer's bills over a twelve-month

1 period. The analysis should look at the amount of change in dollars paid instead  
2 of merely focusing on percentage increases. This is because the percentage  
3 increase in a smaller bill appears relatively high as further discussed in Section  
4 VII.

## **VII. CUSTOMER BILL IMPACTS**

5 **Q. Has Montana-Dakota prepared bill comparisons for its Residential Service**  
6 **customers?**

7 A. Yes. The monthly and annual bill impacts for a typical Residential customer using  
8 89 dekatherms (Dk) per year is shown on page 1 of Exhibit No.\_\_\_\_(RJA-3),  
9 Residential and Firm General Service Bill Comparisons. The average monthly  
10 increase for this residential customer under the Company's proposed rate design  
11 is \$9.81 or 18.72%.

12 **Q. What are the corresponding bill comparisons for Montana-Dakota's Small**  
13 **Firm General and Large Firm General customers?**

14 A. The monthly and annual bill impacts for a typical Small Firm General customer  
15 using 156 Dk per year is shown on page 2 of Exhibit No.\_\_\_\_(RJA-3). The  
16 average monthly increase for this customer under the Company's proposed rate  
17 design is \$10.73 or 13.09%. The monthly and annual bill impacts for a typical  
18 Large Firm General customer using 1,253 Dk per year is shown on page 3 of the  
19 exhibit. The average monthly increase for this Large Firm General customer  
20 under the Company's proposed rate design is \$28.05 or 5.31%.

21 A presentation of the annual billing impacts for the Residential and Firm  
22 General Service classes is provided in Pages 7-9 of Statement L.

23 **Q. Does this conclude your direct testimony?**

24 A. Yes.



## ATRIUM ECONOMICS

CENTERED ON ENERGY

### Ronald J. Amen

#### Managing Partner

Mr. Amen has over 40 years of combined experience in utility management and consulting in the areas of regulatory support, resource planning, organizational development, distribution operations and customer service, marketing, and systems administration.

He has advised gas, electric and water utility clients in the following areas: regulatory policy, strategy, and analysis; cost of service studies (embedded and marginal cost analyses); rate design and pricing issues including time- of-use rates, revenue decoupling, weather normalization and other cost tracking mechanisms; resource strategy, planning and financial analysis; and business process design, evaluation, and organizational structures. Mr. Amen has provided expert testimony in numerous state and provincial regulatory agencies, and the Federal Energy Regulatory Commission. Prior to establishing Atrium Economics in 2020, Mr. Amen's consulting experience included Director Advisory & Planning at Black & Veatch Management Consulting, LLC, Vice President of Concentric Energy Advisors, Inc. and Director with Navigant Consulting, Inc. His prior utility experience includes leadership of State and Federal Regulatory Affairs at two electric and gas utilities, and management positions in Regulatory Affairs, Information Systems and Distribution Operations.

#### EDUCATION

University of Nebraska,  
Bachelor of Science with  
Distinction, Business  
Administration, Finance  
and Economics

#### YEARS EXPERIENCE

45

#### PROFESSIONAL ASSOCIATIONS

American Gas Association  
Southern Gas Association

#### RELEVANT EXPERTISE

Financial Analysis; Litigation  
Support; Regulatory Support;  
Strategy; Utility Operations

### REPRESENTATIVE PROJECT EXPERIENCE

#### Regulatory Policy, Strategy and Analysis

##### **Western Export Group (2019)**

In a Nova Gas Transmission, LTD. (NGTL) Rate Design and Service Application before the Canada Energy Regulator (CER), Mr. Amen led a consulting team supporting the interests of the Western Export Group, a group of nine utility companies located in the Western U.S. and British Columbia who are export shippers on the NGTL system. The case resulted in a settlement with all parties.

##### **Regulatory Commission of Alaska (2019 – 2020)**

Part of a multi-functional team that assisted the Regulatory Commission of Alaska (RCA) in its evaluation of the Chugach Electric Association, Inc's acquisition of the Municipal of Anchorage



d/b/a Municipal Light & Power Department. Assisted the RCA with its evaluation of the long-term benefits of the transaction to ML&P and Chugach customers, the implication of terms and assumptions in various agreements, and the careful balance of the fiscal and regulatory implications for the customers of the combined entity.

### **CPS Energy (2017 – 2018)**

Provided an overall review of the client's Strategic Roadmap to prioritize its multi-year regulatory initiatives. (e.g., changes in product and service offerings, restructuring of current rate classes, introduction of new rate structures, rate levels, and tariff provisions). Current pricing processes and platforms assessed to identify recommended enhancements to enable the development and implementation of dynamic pricing concepts. Assisted client with preparation of next rate case (e.g., costing and pricing analyses, load forecasting, internal communications, and stakeholder engagement).

### **FortisBC Energy, Inc. (2016 – 2018, 2021)**

Performed an overall review of the client's Transportation Service Model. Analyzed the client's various midstream transportation and storage capacity resources used in providing balancing of transportation customers' loads. Review included the physical diversity, functionality and flexibility provided by the various capacity resources, and the cost impact caused by transportation customers' imbalance levels. Conducted an industry-wide benchmarking study of current industry-wide best practices, by regulatory jurisdiction, related to transportation balancing tariff provisions. Participated in stakeholder workshops and testified before the BCUC. Retained in 2021 to update quantitative analysis of the operation of the transportation balancing rules for reporting requirements of the BCUC in 2022.

### **McDowell Rackner & Gibson Law Firm (2015 – 2016)**

Provided due diligence services to the law firm in connection with a state utility commission investigation into the law firm client's gas storage and optimization activities. Provided an independent opinion as to the likely outcome of the Commission's ongoing investigation.

### **Gulfport Energy Corporation (2016)**

Provided regulatory analysis and support to Gulfport Energy Corporation in the ANR Pipeline Company Natural Gas Act §4 rate proceeding before the Federal Energy Regulatory Commission (FERC). Analyzed as-filed cost of service and rate design to identify key cost of service, cost allocation, rate design and service related/tariff issues. Developed an integrated cost of service and rate design model to prepare studies on client issues. Prepared best/worst case litigation outcomes, discovery, and evaluations of discovery of other parties. Analyzed FERC staff top sheets and settlement offers; and assisted in the preparation of settlement positions.

### **Confidential Financial / Energy Partners (2015)**

Provided regulatory due diligence support for client related to a proposed merger with a multijurisdictional gas/electric company including an evaluation of the regulatory landscape in the various applicable state jurisdictions, recent regulatory decisions, and current regulatory issues.



**Confidential International Energy Company (2014)**

Provided regulatory due diligence support for client related to a proposed merger with a multijurisdictional gas company including an evaluation of the regulatory landscape in the various applicable state jurisdictions, recent regulatory decisions, and current regulatory issues.

**Pacific Gas & Electric Company (2014)**

Developed an extensive industrywide benchmarking study to determine the cost allocation and ratemaking treatment utilized by Local Distribution Companies (LDCs) in the United States for recovery of gas transmission costs. Benchmarked cost allocation and rate design utilized by Interstate/Intrastate Pipelines. Benchmarked how Industrial & Electric Generation customers are served with natural gas.

**Public Service Company of New Mexico (2009-2010)**

Provided case management, revenue requirement, cost of service and rate design support for general rate cases in the utility's two state regulatory jurisdictions. Issue management and policy development included an electric fuel and purchased power cost mechanism, recovery of environmental remediation costs for a coal fired power plant, and the valuation of renewable energy credits related to a wind power facility.

**Confidential International Energy Company (2009)**

Provided due diligence on behalf of client related to the purchase of a gas/electric utility, including a review of the regulatory and market-related assumptions underlying the client's valuation model, resulting in the validation of the model and identification of key business risks and opportunities.

**Resource Planning, Strategy and Financial Analysis****Confidential Multi-Jurisdiction Gas Utility (2021-2022)**

Retained by the multi-jurisdiction interstate transmission pipeline and local distribution utility ("client") to assist it in identifying and supporting a natural gas supply solution to satisfy additional deliverability requirements with the goals of minimizing costs, enhancing system resiliency, and introducing renewable fuels into its system. Reviewed the process and analyses that had been conducted to-date (including all underlying assumptions) and provided insight on the best path forward. The goal of the effort was to help prepare client for internal approval of the process and recommended path forward, and ultimately the development and approval of the necessary regulatory filings at the federal, state, and local levels. Atrium evaluated a broad spectrum of regulatory, economic, market-related, and logistical considerations in order to advise the client on the best path forward in utilizing LNG to meet its future deliverability requirements. Specific components of Atrium's analysis included regulatory approvability, rate design and cost recovery risk, site location (including siting LNG in multiple locations in multiple states), ownership structure, and ability to incorporate RNG and hydrogen into Utility's system to decarbonize the pipeline system.



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**Great Plains Natural Gas (2021-2022)**

Retained to review the gas supply procurement practices and objectives of Great Plains, the interstate pipeline, storage and supply contracts, and other information available to Great Plains leading up to and throughout the severe weather event that occurred from February 13-17, 2021, and the actions by Great Plains personnel in response to the weather event, as part of a state-wide investigation by the Minnesota Public Utilities Commission. Expert testimony filed on behalf of Great Plains.

**Fortis BC Energy, Inc. (2011, 2021)**

Retained to help develop a gas supply incentive mechanism in cooperation with the British Columbia Utilities Commission staff and the company's other stakeholders. Provided an independent analysis of the utility's management of pipeline and storage capacity and supply. Part of this work entailed a review of the major markets in which the utility transacted, reviewing the size of trading activity at the major market hubs and reviewing the price indices for these markets. In 2021, retained to refresh all quantitative analysis of the operation of the GSMIP for reporting requirements of the BCUC in 2022.

**Black Hills Colorado Electric Utility (2009)**

Engaged as a member of a consultant team that served as the independent evaluator in a competitive solicitation for non-intermittent generation resources. Jointly recommended by the utility client, the staff of the utility commission and the state attorney general, the consulting team acted as an agent of the public utility commission monitoring and overseeing the solicitation, which included reviewing the request for proposals and solicitation process, including provisions of the power purchase agreement, preliminary review (economic and contractual) of bids received from the request for proposals, initial modeling of bids for screening, selection of bidders with whom to conduct negotiations and oversight of the negotiation process, and the ultimate selection of the winning bid. Provided due diligence review of all input data, preliminary and final model output, and output summaries. The team produced biweekly confidential reports to the commission regarding the process and its results.

**NW Natural (2007-2008)**

Assisted with the development of its long-term Integrated Resource Plan (IRP) for its Oregon and Washington service territories. The IRP included the evaluation of incremental inter- and intra-state pipeline capacity, underground storage, and two proposed LNG plants under development in the region.

**Puget Sound Energy (2007)**

Engaged to assist the client with the development of a natural gas resource efficiency and direct end-use strategy, an interdepartmental initiative focused on preparing a natural gas resource efficiency plan that optimizes customers' end-use energy consumption while furthering corporate customer, financial, environmental, and social responsibilities.



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**Puget Sound Energy (2002 – 2003)**

Provided resource planning strategy and analysis for the company's Least Cost Plan, including a review of the company's underlying 20-year electric and gas demand forecasts. As a member of a consulting team, served as the client's financial advisor for the acquisition of new electric power supply resources. Conducted a multitrack solicitation process for evaluation of generation assets and purchase power agreements. Provided regulatory support for the acquisition.

**Cost Allocation, Pricing Issues and Rate Design****Philadelphia Gas Works PGW (2023)**

Mr. Amen led an Atrium team engaged by PGW to review the mechanics, input data, billing controls, and weather trends surrounding PGW's Weather Normalization Adjustment ("WNA") formula to understand the factors that contributed to the abnormally high WNA charges in June 2022. Atrium's review identified structural factors inherent in PGW's WNA mechanism that may have contributed to the anomalous WNA amounts billed to customers in June 2022. Mr. Amen filed testimony with Atrium's findings and recommendation in the pending general rate case before the Pennsylvania Public Utility Commission.

**Potomac Electric Power Company (PEPCO) (2022-2023)**

Mr. Amen led an Atrium team engaged by PEPCO on behalf of services requested by the Public Service Commission of the District of Columbia ("DC Commission"), for comprehensive evaluation of the processes, procedures, mechanics, and internal controls surrounding PEPCO's Bill Stabilization Adjustment ("BSA"). Atrium provided independent audit services sought by the DC Commission, including a) independently evaluate the timing, impact and magnitude of the billing determinant error that was identified during Formal Case No. 1156; b) independently confirm that current BSA processes and procedures are properly and timely executed as designed; c) independently confirm that current Pepco BSA internal controls are properly and timely executed; d) independently identify any recommended process and procedural improvements, as well as any recommended changes in existing internal controls or new internal controls; and e) independently conduct a comprehensive review of Pepco's BSA deferral balances by customer class, with an overall determination of the breakdown of BSA deferral balances by key drivers for each customer class. Our audit report and recommendations were filed with the DC Commission in July 2023.

**Summit Natural Gas of Maine, Inc. (2022 - 2023)**

Mr. Amen provided revenue requirement, allocated cost of service, class revenue apportionment, rate design, and expert witness testimony support for the utility's gas general rate case and multi-year rate plan before the Maine Public Utilities Commission. Responsibilities included determination of an optimal normal weather period for purposes of normalizing test year billing determinants, followed by the weather normalization process of determining a representative level of gas throughput for the Company's test year. The case resulted in an all-party settlement before the Maine PUC.



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**Black Hills Energy Arkansas (2021-2022)**

Mr. Amen provided allocated cost of service, class revenue apportionment, rate design for natural gas infrastructure mechanisms, and expert witness support for the utility's gas general rate case before the Arkansas Public Service Commission. The case resulted in a settlement before the Arkansas PSC.

**Until Electric System and Northern Utilities, Inc. (2021 - 2022)**

Mr. Amen provided allocated cost of service, marginal cost of service, class revenue apportionment, rate design, and expert witness support for the utility's separate electric and gas general rate cases before the New Hampshire Public Utilities Commission, including expert witness testimony. The cases resulted in settlements before the NHPUC.

**Manitoba Hydro – Centra Gas Manitoba (2021-2022)**

Retained to provide an independent review of the cost of service methodologies employed for Centra Gas Manitoba Inc.'s natural gas operations. Atrium prepared a report filed with the Manitoba Public Utility Board documenting and supporting our assessment of Centra's existing COSS methods in conformance with the regulatory requirements of the MPUB. Focusing on the trends of Canadian gas distribution utilities, the COSS method utilized in the current COSS was reviewed against the: (1) cost causative factors identified for each plant and expense element of Centra's total cost of service; and (2) the current range of regulatory practices observed in the North American gas utility market. Centra's 2022 rate application based on the recommendations in our report was approved by the MPUB.

**Montana-Dakota Utilities and Great Plains Natural Gas (2020 – 2021, 2022 - 2023)**

Mr. Amen provided cost of service, class revenue apportionment, rate design, and expert witness support for the gas utilities' general rate cases before the Montana Public Service Commission (MPSC) and North Dakota Public Service Commission (NDPSC). Testimony included theoretical principals and practical application of cost allocation, and rate design principles or objectives that have broad acceptance in utility regulatory and policy literature. Supported the Straight Fixed-Variable Rate Design (SFV) in North Dakota with analysis showing low-income residential customers would experience lower annual bills under the SFV rate design than a volumetric weighted rate design. Provided a presentation at a public input hearing and oral testimony at Commission hearings in both jurisdictions. SFV rate design was approved by the North Dakota PSC. The cases resulted in settlements approved by the respective Commissions.

Mr. Amen also represented the client's interests (as well as those of neighboring utility clients NW Natural and Puget Sound Energy) in a Washington generic rulemaking proceeding on the subject of electric and gas cost of service methodologies and minimum filing requirements.

Mr. Amen supported electric general rate case filings in Montana and North Dakota, including a marginal cost study in Montana, and allocated cost studies, revenue apportionment and rate design in both jurisdictions.

Mr. Amen recently supported a gas general rate case filing in MDU's Idaho affiliate, Intermountain Gas. Support included a class level, design day load study across the utility's seven



temperature zones, using a combination of AMI (60% penetration) and monthly billing data, class allocated cost of service study, class revenue apportionment, and rate design.

Mr. Amen is currently supporting gas and electric general rate case filings in MDU's South Dakota service territory, including gas and electric allocated cost studies, revenue apportionment and rate design (filed August 2023).

#### **Chesapeake Utilities Corporation (2020 – 2021)**

Reviewed and evaluated Chesapeake's Swing Service Rider (SSR), which recovers intrastate pipeline capacity costs directly from all transportation customers, and the application of the current cost allocation methodology underlying the service for its Florida gas utilities, Central Florida Gas and Florida Public Utilities. Supported Chesapeake through three primary tasks; (1) Assessment of the factors influencing the current cost allocation method, its impact on various customer groups, and data collection, (2) Assessment of the appropriateness of alternative cost allocation methods and model the application to and impact on the SSR charges, and (3) Provided a report of the evaluation, modelling results and recommendations in a report and conducted a review session with Chesapeake management personnel.

#### **Kansas City, KS Board of Public Utilities (2019 – 2020)**

Provided expert witness testimony supporting the basis for a Green Energy Program, its objectives, and overall benefits. Provide an assessment of how the program is aligned with best practices in design of Green Energy tariff programs nationally. Testimony also provided an assessment of how the program mitigates potential risks to the Board of Public Utilities and protects against subsidization of other rate classes.

#### **NW Natural (2018 – 2019)**

Provided cost of service, class revenue apportionment, rate design, and expert witness support for the gas utility's general rate case before the Washington Utility and Transportation Commission (WUTC), filed in December 2018. Testimony included theoretical principals and practical application of cost allocation, and rate design principles or objectives that have broad acceptance in utility regulatory and policy literature.

#### **Chesapeake Utilities Corporation (2018 – 2019)**

Developed a Weather Normalization Adjustment (WNA) mechanism applicable to the monthly billings of Chesapeake's residential and general service customers. Sponsored the WNA mechanism through expert testimony filed with the Delaware Public Service Commission in January 2019. The testimony included a description of the WNA calculations; back-casting performance analyses, with bill impacts; a WNA tariff; and conceptual and evidentiary support for this ratemaking mechanism.

#### **Louisville Gas & Electric Company and Kentucky Utilities Company (2018)**

Engaged by LG&E and KU to conduct a study in support of a joint utility and stakeholder collaborative concerning economical deployment of electric bus infrastructure by the transit authorities in the Louisville and Lexington KY areas, as well as possible cost-based rate structures related to charging stations and other infrastructure needed for electric buses.



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**Summit Utilities – Colorado Natural Gas, Inc. (2018)**

Engaged by Summit Utilities to develop and support with expert testimony an appropriate normal weather period for the client's five Colorado temperature zones, resulting normalized billing determinants, and a Weather Normalization Adjustment ("WNA") proposal in conjunction with the filing of a general rate case for its Colorado Natural Gas, Inc. subsidiary.

**Westar Energy (2018)**

Provided cost of service and expert witness support for the electric utility's general rate case filing before the Kansas Corporation Commission (KCC). The cost of service study determined the cost components for a new Residential Distributed Generation (DG) customer class that provided the basis for recommendations for establishing components of a sound, modern three-part rate design for this new Residential DG (roof-top solar) service, which was approved by the KCC.

**Florida Public Utilities (Chesapeake Utilities) (2017 – 2018)**

Provided a rate stratification study of the utility's commercial and industrial customer classes to facilitate the reconfiguration of the classes by size of service facilities, annual volume, and load factor. Reviewed the cost allocation bases and recommended alternatives for recovery of capital investments related to the utility's Gas Reliability Investment Program (GRIP).

**Tacoma Power (2016 – 2018, 2023)**

Provided cost of service and rate design support for the electric utility's general rate case filings, including support for recovery of fixed costs through fixed charges and impacts on low income customers. Provided recommendations as to specifications in the client's cost of service analysis (COSA) model for deriving Open Access Transmission Tariff rates, using FERC approved standards to guide the evaluation. Conducted an electric utility costing and pricing workshop for the PUB in October 2017; and participated with Tacoma Utilities staff in a comprehensive electric and water Rates and Financial Planning workshop in February 2018. Engagement was extended for the 2019 – 2020 rate filing, which incorporated the Black & Veatch municipal COSA model for costing and ratemaking purposes. Currently providing cost of service and rate design for the 2023 – 2024 rate filing. Future project work involves innovative rate programs.

**Tacoma Power (2017)**

Engaged to review and assess current rates for 3rd Party Pole Attachments (PA), and more specifically, to determine and recommend if any rate adjustments were needed. Performed several tasks:

- Performed a market survey of rates charged by comparable utilities.
- Reviewed current regulations on rate setting and practice for 3<sup>rd</sup> Party Pole Attachments as set forth by the Federal Communications Commission (FCC) and the State of Washington (WA), and the interpretation of such regulations in court decisions.
- Reviewed industry best practices under the FCC, WA, and the American Public Power Association (APPA)
- Collected and reviewed data for cost-based fees including:



- Application Fees
- Non-Compliance Fees
- Reviewed cost data supplied by the City of Tacoma as relates to determining pole costs, and
- Performed modeling of rates under the FCC Model, the APPA model, and the State of Washington shared model (50 % FCC Rate/ 50% APPA Rate).

### **BC Hydro (2016)**

Provided research and analysis of the line extension policies of a select group of peer utilities in Canada with similar regulatory regimes as well as U.S. utilities based on their geographic relationship to the client. Conducted interviews with peer utilities to gather comparative information regarding their line extension policies and related internal procedures. Performed a comparative analysis of the various line extension policies from the selected peer group.

### **Cascade Natural Gas Corporation (2015 – 2019)**

Provided cost of service and rate design support for several of the company's general rate case filings in its two state jurisdictions, 3 in Oregon and 2 in Washington. Conducted Long-run Incremental Cost Studies in the Oregon jurisdiction and embedded class allocated cost of service studies in the Washington jurisdiction. Performed benchmark analyses to compare each of the client's administrative and general (A&G) and operations and management (O&M) expenses, on a per-customer basis, to various peer groups. Analyses were performed for natural gas utilities and combination utilities with both electric and gas operations. Various iterations of the analyses were prepared to make the peer group of utilities more comparable to the characteristics of the client's utility operations. Represented the client's interests in a Washington generic rulemaking proceeding on the subject of electric and gas cost of service methodologies and minimum filing requirements.

### **Chesapeake Utilities (2015 – 2016)**

For its Delaware jurisdiction, provided cost of service and rate design support in the client's general rate case proceeding, including expert witness testimony in support of the utility's proposed gas revenue decoupling mechanism.

### **Homer Electric Association / Alaska Electric and Energy Cooperatives (2015)**

Represented clients in an ENSTAR gas general rate proceeding. Testimony discussed accepted industry principles of revenue allocation and rate design, including the applicability to and alignment with ENSTAR's revenue allocation and rate design proposals for large power and industrial customers. Provided a critique of certain methodological aspects of ENSTAR's Cost of Service study, proposed revenue allocation, and rate design relating to the various large power and industrial customers.

### **Arkansas Oklahoma Gas Corporation (2002, 2003, 2004, 2007, 2012, 2013)**

Provided cost of service and rate design support for several of the company's general rate case filings in its two state jurisdictions and in support of Section 311 transportation filings (2007,



2010) before the Federal Energy Regulatory Commission. Provided related research, design, and expert witness testimony in support of a Revenue Decoupling mechanism in one jurisdiction and a Weather Normalization Adjustment mechanism in the other jurisdiction, along with a significant increase in fixed charges and the introduction of demand charges for the company's largest customer classes. Conducted a pre-filing "decoupling" workshop for the utility commission staff.

#### **Northern Indiana Public Service Company (NiSource) (2009 – 2010, 2013, 2017, 2021)**

Conducted class allocated cost of service studies for the client's natural gas (including two other affiliate gas utilities) and electric operations. Work included reconfiguring the Company's commercial and industrial customer classes according to size of load and customer-related facilities. Rate design was modernized to recover a greater portion of fixed costs via fixed monthly customer and demand-based charges, a transition to a "Straight-Fixed Variable" form of rate design. Industry research was provided on alternative rate designs for the electric service, including Time-of-Use rates and Critical Peak Pricing. Served as an expert witness on behalf of the client in five general rate cases before the Indiana Utility Regulatory Commission. The 2021 rate case is currently pending before the IURC.

#### **Southwestern Public Service Company (Xcel) (2012)**

Retained to conduct a study to estimate the conservation effect of replacing its existing electric residential rate design with an alternative rate design such as an inverted block rate design. Reviewed inclining block rate structures that have actively been employed in other jurisdictions and also reviewed technical and academic literature to assess the elasticity of electricity demand for residential customers in the southwestern U.S. Analyzed 2009-2011 residential data to determine what sort of conservation effect the company may expect by implementing an inclining block rate structure. Provided an overview of alternative rate structures which may also promote conservation effects, such as seasonal rates, three-part rates, and time-of-use (TOU) rates, and considered the competing incentives of promoting conservation and cost recovery, without specific rate mechanisms to address this conflict.

#### **Atlantic Wallboard LP and Flakeboard Company Limited (JD Irving) (2012)**

Represented clients in an Enbridge Gas New Brunswick Limited Partnership ("EGNB") general rate proceeding. Testimony responded to the 2012 allocated cost of service study and rate design that was submitted to the New Brunswick Energy and Utilities Board by EGNB. Testimony also provided benchmark information regarding EGNB's distribution pipeline infrastructure in New Brunswick, CA.

#### **Western Massachusetts Electric Company (Northeast Utilities) (2010 – 2011)**

Supported utility in its decoupling proposal for the company's general rate case. Work included: 1) research on the financial implications of decoupling; 2) identification of decoupling mechanism details to address company and regulatory requirements and objectives; 3) identification of rate adjustment mechanisms that would work together with the company's proposed decoupling mechanism; and 4) preparing pre-filed testimony and testifying at hearings in support of the company's decoupling and rate adjustment proposals. The proposed rate adjustment mechanisms included an inflation adjustment mechanism based on a statistical analysis, and a capital spending



mechanism to recover the costs associated with capital plant investment targeted to improving service reliability.

### **Interstate Power & Light (Alliant Energy) (2010 – 2011)**

Conducted class allocated cost of service studies for a Midwestern electric utility's Minnesota electric system. Work included reconfiguring the company's customer classes for cost of service purposes to collapse end-use based classes with the classes to which they would be eligible. Cost of service studies were performed on a before-and-after basis for the existing and proposed classes. The cost of service studies included a fixed/variable study for production costs, and a primary/secondary study for poles, transformers, and conductors. Performed a TOU analysis to determine the appropriate rate differentials for its peak and off-peak rates. Served as an expert witness on behalf of the client in a general rate case before the Minnesota Public Service Commission.

### **National Grid (2010)**

Conducted class allocated cost of service studies for the client's Massachusetts natural gas operations. This task included combined gas cost of service studies for the consolidation of four gas service territories into two gas utility subsidiaries. During interrogatories, performed four separate allocated cost of service studies for each gas service territory. Work included reconfiguring the company's commercial and industrial customer classes according to size of load and customer-related facilities. Served as an expert witness on behalf of the client in consolidated general rate cases before the Massachusetts Department of Public Utilities.

### **Puget Sound Energy (2001 – 2002, 2006 – 2007, 2019 – 2020)**

In three Washington general rate proceedings, provided cost of service and rate design support, including expert witness testimony in support of the utility's proposed revenue decoupling mechanism. Conducted research on accelerated cost recovery mechanisms for infrastructure replacement, and electric power cost adjustment mechanisms. In the latest general rate case, Mr. Amen sponsored expert testimony on a proposed revenue attrition adjustment to the client's revenue requirement in the 2020 general rate case.

## **Utility System Operations and Organizational Development**

### **Philadelphia Gas Works (2017, 2020)**

Engaged to provide an independent consulting engineer's report to be included as an appendix to the official statement prepared in connection with the issuance of the City of Philadelphia, Pennsylvania Gas Works Revenue Bonds. The evaluation of the PGW system included a discussion of organization, management, and staffing; system service area; supply facilities; distribution facilities; and the utility's Capital Improvement Plan (CIP). Our report also contained: (a) financial feasibility information, including analyses of gas rates and rate methodology; (b) projection of future operation and maintenance expenses; (c) CIP financing plans; (d) projection of revenue requirements as a determinant of future revenues; (e) an assessment of PGW's ability to satisfy the covenants in the General Gas Works Revenue Bond



Ordinance of 1998 authorizing the issuance of the Bonds; and (f) information regarding potential liquefied natural gas (“LNG”) expansion opportunities.

#### **Puget Sound Energy (2013 – 2014)**

Engaged to perform a review of its project management and capital spending authorization processes (CSA). The overall project objectives were to educate project management (PM) staff as to the importance and relevance of regulatory prudence standards, evaluate existing PM processes along with newly introduced corporate CSA processes, and propose PM and corporate process and documentation efficiencies. This task was accomplished through 1) a situational assessment and risk review; 2) analysis of project management practices; and 3) development of common documentation for the CSA and PM processes.

#### **Puget Sound Energy (2012 – 2013)**

Engaged to perform a review of how the company compares to similarly situated utilities in the areas of the underlying capitalized costs related to new customer additions (“new business investment”) and the management policies and practices that influence the new business capital investment. Examined the interrelationships of our client’s management policies and practices in the functional areas related to new business investment and developed an understanding of the nature of the costs captured by the new business investment process. Benchmarked those costs relative to peers’ cost factors and management capital expenditure practices and performed targeted peer group interviews on our client’s behalf. The review identified certain trends and/or interrelationships between management policies and practices, as well as other exogenous factors, and the resulting impact on new business investment.

#### **Puget Sound Energy (2011 – 2012)**

Engaged to perform a review of its electric transmission planning and project prioritization process. The emphasis of the review was to determine if the process implemented by the client could be expected to meet the regulatory standard of prudence, as adopted by the state regulatory commission. Reviewed the prudence standard adopted by the commission in several recent regulatory proceedings, supplemented by our knowledge of the prudence standard adopted at a national level and in other states. The engagement included two phases: 1) an initial situation assessment of the existing process employed by the client, and 2) a review of the historic implementation of that process by reviewing a sampling of transmission projects. Compiled and provided examples of capital planning documents and procedures, viewed as “best practices,” from other electric utilities and other relevant transmission entities.

#### **Alliant Energy (2011 – 2012)**

Provided audit support for one of the company’s gas and electric utilities, Interstate Power & Light, during a management audit ordered by one of its two regulatory jurisdictions. Conducted a pre-audit of distribution operations and resource planning processes to provide the client with potential audit issues. Assisted the client throughout the audit process in responding to information requests, preparing company executives and management personnel for audit interviews, and management of preliminary audit issues and findings by the independent audit firm.



**Ameren Illinois Utilities (2009 – 2010)**

Performed a number of benchmark analyses to compare each of the client's A&G and O&M expenses, on a per-customer basis, to various peer groups conducted for the client's natural gas and electric operations. Analyses were performed for natural gas, electric and combination utilities with both electric and gas operations. Various iterations of the analyses were prepared to make the peer group of utilities more comparable to the characteristics of the client's utility operations. Served as an expert witness on behalf of the client in a consolidated general rate case proceeding of its three utility subsidiaries before the Illinois Commerce Commission.

**EXPERT WITNESS TESTIMONY PRESENTATION**

- Alaska Regulatory Commission
- Arkansas Public Service Commission
- British Columbia Utility Commission (Canada)
- Colorado Public Utility Commission
- Connecticut Department of Public Utility Control
- Delaware Public Service Commission
- Illinois Commerce Commission
- Idaho Public Utilities Commission
- Indiana Utility Regulatory Commission
- Kansas Corporation Commission
- Kentucky Public Service Commission
- Maine Public Utilities Commission
- Manitoba Public Utilities Board (Canada)
- Massachusetts Department of Utilities
- Minnesota Public Utilities Commission
- Missouri Public Service Commission
- Montana Public Service Commission
- New Brunswick Energy and Utilities Board (Canada)
- New Hampshire Public Utilities Commission
- North Dakota Public Service Commission
- Oklahoma Corporation Commission
- Oregon Public Utility Commission
- Pennsylvania Public Utility Commission
- South Dakota Public Utilities Commission
- Washington Utilities and Transportation Commission
- Wyoming Public Service Commission
- Federal Energy Regulatory Commission



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## SELECTED PUBLICATIONS / PRESENTATIONS

“Enhancing the Profitability of Growth,” American Gas Association, Rate and Regulatory Issues Seminar, April 4 - 7, 2004

“Regulatory Treatment of New Generation Resource Acquisition: Key Aspects of Resource Policy, Procurement and New Resource Acquisition,” Law Seminars International, Managing the Modern Utility Rate Case, February 17 - 18, 2005

“Managing Regulatory Risk – The Risk Associated with Uncertain Regulatory Outcomes,” Western Energy Institute, Spring Energy Management Meeting, May 18 - 20, 2005

“Capital Asset Optimization – An Integrated Approach to Optimizing Utilization and Return on Utility Assets,” Southern Gas Association, July 18 - 20, 2005

“Resource Planning as a Cost Recovery Tool,” Law Seminars International, Utility Rate Case Issues & Strategies, February 22 - 23, 2007

“Natural Gas Infrastructure Development and Regulatory Challenges,” Southeastern Association of Regulatory Utility Commissioners, Annual Conference, June 4 – 6, 2007

“Resource Planning in a Changing Regulatory Environment,” Law Seminars International, Utility Rate Cases – Current Issues & Strategies, February 7 - 8, 2008

“Natural Gas Distribution Infrastructure Replacement,” American Gas Association, Rate Committee Meeting and Regulatory Issues Seminar, April 11 – 13, 2010

“Building a T&D Investment Program to Satisfy Customers, Regulators and Shareholders,” SNL Webinar, March 27, 2014

“Utility Infrastructure Replacement; Trends in Aging Infrastructure, Replacement Programs and Rate Treatment,” Large Public Power Council, Rates Committee Meeting, August 14, 2014

“Natural Gas in the Decarbonization Era, Gas Resource Planning for Electric Generation,” EUCI, January 22-23, 2020



**MONTANA-DAKOTA UTILITIES CO.  
PROPOSED REVENUE ALLOCATION  
GAS UTILITY - WYOMING**

**Revenue to Cost Ratio Under Current Rates**  
Parity Ratio at Current Rates

Total Montana	Total Residential	Total Small Firm		Total Large Firm		Total Small Interruptible		Total Large Interruptible	
		General	General	General	General	Interruptible	Interruptible	Interruptible	Interruptible
0.73	0.68	0.74	0.80	2.66	1.44				
1.00	0.93	1.01	1.10	3.64	1.97				

**Revenues at Equalized Rates of Return**

Revenue Increase									
Total Revenue at Equalized Rates of Return	2,588,216	2,280,527	241,334	235,138	(43,257)	(125,526)			
Parity Ratio	9,522,420	7,149,293	911,462	1,151,251	25,996	284,418			
	1.00	1.00	1.00	1.00	1.00	1.00			

**Scenario A: Equal Percentage Increase**

System Average Increase	37.33%	37.33%	37.33%	37.33%	37.33%	37.33%			
Revenue Increase	2,588,216	1,817,284	250,128	341,942	25,849	153,013			
Total Revenue at Equal Percentage Increase	9,522,420	6,686,050	920,256	1,258,055	95,102	562,957			
Percent Increase	37.33%	37.33%	37.33%	37.33%	37.33%	37.33%			
Parity Ratio	1.00	0.94	1.01	1.09	3.66	1.98			

**Scenario B: No Increase to Classes Above Cost**

System Increase Exempting Classes Above Cost	40.10%	40.10%	40.10%	40.10%	0.00%	0.00%			
Revenue Increase	2,588,216	1,952,193	268,696	367,327	0	0			
Total Revenue at No Increase to Classes Above Cost	9,522,420	6,820,959	938,824	1,283,440	69,253	409,944			
Percent Increase	37.33%	40.10%	40.10%	40.10%	0.00%	0.00%			
Parity Ratio	1.00	0.95	1.03	1.11	2.66	1.44			

**Proposed Class Revenues: No Class Increase Above Parity**

Revenue Increase	2,588,216	2,111,744	241,334	235,138	0	0			
Total Revenue as Proposed	9,522,420	6,980,510	911,462	1,151,251	69,253	409,944			
Percent Increase	37.33%	43.37%	36.01%	25.67%	0.00%	0.00%			
Parity Ratio	1.00	0.98	1.00	1.00	2.66	1.44			

**MONTANA-DAKOTA UTILITIES CO.**  
**REVENUES UNDER CURRENT AND PROPOSED RATES**  
**GAS UTILITY - WYOMING**  
*Pro Forma 2024*

Customer Class/Rate	Customers 1/	Pro Forma Dk 1/	Revenue 1/	Total Proposed Revenue 2/	Proposed Revenue Increase	Percent Increase
<b>Residential - Rate 60</b>	17,920	1,604,478	\$11,305,932	\$13,417,164	\$2,111,232	18.67%
<b>Firm General Service - Rates 70 &amp; 72</b>	2,567	1,167,190	6,261,959	6,737,981	476,022	7.60%
<b>Small Interruptible</b>						
Sales - Rate 71	1	14,297	65,105			
Transport - Rates 81	8	182,474	61,508			
<b>Small Interruptible</b>	9	196,771	126,613	126,613	0	0.00%
<b>Large Interruptible</b>						
Sales - Rate 85	0	0	0			
Transport - Rate 82	7	3,174,977	409,944			
<b>Large Interruptible</b>	7	3,174,977	409,944	410,342	398	0.10%
<b>Total Wyoming</b>	20,503	6,143,416	\$18,104,448	\$20,692,100	\$2,587,652	14.29%

1/ Statement F, Schedule F-2, Page 1.

2/ Statement L, Page 2.

**MONTANA-DAKOTA UTILITIES CO.  
GAS UTILITY - WYOMING  
RATE 60 BILL COMPARISON  
RESIDENTIAL GAS SERVICE**

Month	Dk	Present Rate	Proposed Rate	Amount of Increase	% Increase
January	16	\$91.52	\$103.71	\$12.19	13.32%
February	14	80.63	91.52	10.89	13.51%
March	13	77.97	89.38	11.41	14.63%
April	8	54.75	64.60	9.85	17.99%
May	6	46.33	55.92	9.59	20.70%
June	2	27.64	35.93	8.29	29.99%
July	1	23.74	32.03	8.29	34.92%
August	1	23.74	32.03	8.29	34.92%
September	2	27.64	35.93	8.29	29.99%
October	4	37.30	46.37	9.07	24.32%
November	9	59.27	69.38	10.11	17.06%
December	13	77.97	89.38	11.41	14.63%
Total	89	\$628.50	\$746.18	\$117.68	18.72%

Average Increase per Month

\$9.81

RATE 60	Current 1/	Proposed 2/
Basic Delivery Charge	\$0.62	\$0.879
Distribution Delivery	\$0.507	\$0.767
Cost of Gas	\$4.012	\$4.012

1/ Basic service charge and distribution delivery rates effective with service rendered on and after March 1, 2020, Docket No. 30013-351-GR-19. Cost of gas calculated using pro forma 2024 commodity gas rate and demand costs as of May 2024 PGA, excluding surcharge, Docket No. 30013-405-GP-24.

2/ Statement L, page 3.

**MONTANA-DAKOTA UTILITIES CO.**  
**GAS UTILITY - WYOMING**  
**RATE 70 BILL COMPARISON**  
**FIRM GENERAL GAS SERVICE (< 500 Cubic Feet Per Hour Meters)**

Month	Dk	Present Rate	Proposed Rate	Amount of Increase	% Increase
January	29	\$158.14	\$173.24	\$15.10	9.55%
February	25	137.19	150.51	13.32	9.71%
March	24	134.46	148.23	13.77	10.24%
April	14	86.42	97.31	10.89	12.60%
May	10	68.14	78.22	10.08	14.79%
June	3	34.31	42.30	7.99	23.29%
July	2	30.24	38.21	7.97	26.36%
August	2	30.24	38.21	7.97	26.36%
September	2	29.57	37.30	7.73	26.14%
October	6	49.19	58.22	9.03	18.36%
November	15	91.16	102.32	11.16	12.24%
December	24	134.46	148.23	13.77	10.24%
Total	156	\$983.52	\$1,112.30	\$128.78	13.09%

Average Increase per Month

\$10.73

RATE 70	Current 1/	Proposed 2/
Basic Delivery Charge	\$0.67	\$0.910
Distribution Delivery	\$0.725	\$0.989
Cost of Gas	\$4.012	\$4.012

1/ Basic service charge and distribution delivery rates effective with service rendered on and after March 1, 2020, Docket No. 30013-351-GR-19. Cost of gas calculated using pro forma 2024 commodity gas rate and demand costs as of May 2024 PGA, excluding surcharge, Docket No. 30013-405-GP-24.

2/ Statement L, page 4.

**MONTANA-DAKOTA UTILITIES CO.**  
**GAS UTILITY - WYOMING**  
**RATE 70 BILL COMPARISON**  
**FIRM GENERAL GAS SERVICE ( > 500 Cubic Feet Per Hour Meters)**

Month	Dk	Present Rate	Proposed Rate	Amount of Increase	% Increase
January	196	\$945.05	\$997.01	\$51.96	5.50%
February	169	817.15	861.99	44.84	5.49%
March	165	804.41	848.28	43.87	5.45%
April	112	562.14	592.16	30.02	5.34%
May	88	455.06	478.83	23.77	5.22%
June	50	280.85	294.68	13.83	4.92%
July	42	246.35	258.12	11.77	4.78%
August	42	246.35	258.12	11.77	4.78%
September	41	240.02	251.50	11.48	4.78%
October	69	368.85	387.67	18.82	5.10%
November	116	580.29	611.35	31.06	5.35%
December	163	795.33	838.68	43.35	5.45%
Total	1,253	\$6,341.85	\$6,678.39	\$336.54	5.31%

Average Increase per Month

\$28.05

RATE 70	Current 1/	Proposed 2/
Basic Delivery Charge	\$1.80	\$1.83
Distribution Delivery	\$0.525	\$0.786
Cost of Gas	\$4.012	\$4.012

1/ Basic service charge and distribution delivery rates effective with service rendered on and after March 1, 2020, Docket No. 30013-351-GR-19. Cost of gas calculated using pro forma 2024 commodity gas rate and demand costs as of May 2024 PGA, excluding surcharge, Docket No. 30013-405-GP-24.

2/ Statement L, page 4.

MONTANA-DAKOTA UTILITIES CO.  
Before the Wyoming Public Service Commission  
Docket No. 30013-415-GR-24  
Direct Testimony  
Of  
Stephanie Bosch

1   **Q.    Would you please state your name and business address?**

2    A.           My name is Stephanie Bosch and my business address is 400  
3           North Fourth Street, Bismarck, North Dakota 58501.

4   **Q.    What is your position with Montana-Dakota Utilities Co.?**

5    A.           I am the Regulatory Affairs Manager for Montana-Dakota Utilities  
6           Co. (Montana-Dakota).

7   **Q.    Please describe your duties as Regulatory Affairs Manager.**

8    A.           I am responsible for the proper application of the Company's gas  
9           and electric rates in the Customer Care and Billing System (CC&B), the  
10          application of tariffs and the preparation of miscellaneous rate filings.

11   **Q.    Please describe your education and professional background.**

12   A.           I graduated from the University of North Dakota in 1995 with a  
13          Bachelor of Business and Public Administration degree in Banking and  
14          Financial Economics. I joined Montana-Dakota in June 1997 as a Rate  
15          Clerk in the Regulatory Affairs area and realized positions of increasing  
16          responsibility within the Regulatory Affairs Department until 2011 when I

1 left the Company. In 2013 I returned to the Company as a Regulatory  
2 Analyst before attaining my current position in August of 2015.

3 **Q. Have you testified in other proceedings before regulatory bodies?**

4 A. Yes. I have previously presented testimony before this Commission  
5 and the Public Service Commissions of Montana and North Dakota and  
6 the Public Utilities Commissions of Minnesota and South Dakota.

7 **Q. What is the purpose of your testimony in this proceeding?**

8 A. The purpose of my testimony is present the gas revenues at current  
9 rates included in Statement F Schedule F-2 of this Application and the  
10 changes proposed to the Company's tariffs provided in Appendix B.

11 **Q. What statements and exhibits are you sponsoring in this  
12 proceeding?**

13 A. I am sponsoring Statement F Schedule F-2 and the proposed rate  
14 schedules provided in Appendix B to the Application, with the exception of  
15 the proposed change to the Purchased Gas Cost Adjustment Rate 88  
16 tariff, which is sponsored by Ms. Vesey. I am also sponsoring Exhibit No.  
17 \_\_\_\_(SB-1) which is proposed new rate schedule Firm General Contracted  
18 Demand Service Rate 74 and the determination of the Distribution  
19 Demand Charge included therein and Exhibit No. \_\_\_\_(SB-2) proposed new  
20 rate schedule Summary Billing Plan Rate 115.

21 **Gas Revenues at Current Rates**

22 **Q. Please explain the calculation of revenues at current rates included  
23 in Statement F, Schedule F-2?**

1 A. Montana-Dakota applied the Basic Service Charges and  
2 Distribution Delivery Charges applicable under each rate schedule, and as  
3 authorized in Docket No. 30013-351-GR-19, to the annualized customers  
4 and volumes to derive the revenues included in Statement F, Schedule F-  
5 2. Interruptible sales and transportation customers were priced at the  
6 applicable rate schedules' maximum rate per Dk, unless service is being  
7 provided under a contract rate. The Cost of Gas rates are reflective of the  
8 pro forma 2024 commodity gas rate and demand costs as of the May  
9 2024 PGA, excluding the current surcharge.

10 **Proposed Tariff Changes**

11 **Q. The Company is proposing two new rate schedules. Please describe**  
12 **the first of the two new rate schedules, Firm General Contracted**  
13 **Demand Service Rate 74, provided herein as Exhibit No. \_\_\_\_ (SB-1).**

14 A. Montana-Dakota is proposing a new rate schedule titled Firm  
15 General Contracted Demand Service Rate 74 (Rate 74) which will be  
16 applicable to non-residential customers with standby natural gas  
17 generators or customers who qualify under the Company's interruptible  
18 service tariffs, but have requested, and received Company approval, for  
19 firm gas service under the proposed rate schedule.

20 The purpose of the new rate schedule is to recover capacity related  
21 costs from (1) standby use customers whose gas consumption is  
22 intermittent and do not, at this time, provide adequate recovery of these  
23 costs and (2) customers who otherwise qualify for service under the

1 Company's interruptible service rates due to their natural gas  
2 requirements but who want the option of reserving capacity for firm  
3 service. Interruptible customers requesting firm gas service under Rate  
4 74 will need approval from the Company prior to the commencement of  
5 service under this rate in order to determine that adequate capacity is  
6 available for firm service for the requesting customer.

7 The proposed rate consists of four components: a Basic Service  
8 Charge, a Distribution Demand Charge, a Capacity Charge, and a Cost of  
9 Gas Commodity Charge. The Basic Service Charge reflects the same  
10 level of Basic Service Charges applicable under the Company's Firm  
11 General Service Rate 70 schedules. The Distribution Demand Charge is a  
12 new billing component for Montana-Dakota and is designed to recover the  
13 distribution demand-related costs from these customers. Customers will  
14 consult with the Company, prior to service under this rate, to determine the  
15 connected load (or demand Dk) applicable to their service that the  
16 Distribution Demand Charge will then be applied to each month.

17 The Cost of Gas is separated into two billing components: a  
18 Capacity Charge and a Cost of Gas Commodity Charge, as discussed by  
19 Ms. Vesey. The Capacity Charge will be applied to the contracted monthly  
20 billing demand Dk and the Cost of Gas Commodity Charge will be applied  
21 to the customer's actual measured Dk.

22 **Q. Please explain the calculation of the proposed Distribution Demand**  
23 **Charge.**

1     A.             The Company calculated the proposed Distribution Demand  
2             Charge rate of \$6.89 per monthly demand Dk utilizing the results of the  
3             Company's class cost of service study. As identified in Schedule K-1 of  
4             Statement K, the Company's total distribution demand-related costs are  
5             \$2,679,137. In dividing those costs by the Company's peak day deliveries  
6             of 32,420 Dk, an annual demand cost per Dk of \$82.64 is calculated,  
7             which in turn, equates to a monthly rate of \$6.89 per demand Dk.

8     **Q.     The second new rate schedule is Summary Billing Plan Rate 115.**  
9             **Please briefly explain that new rate schedule which is provided as**  
10            **Exhibit No. \_\_\_\_ (SB-2).**

11    A.             Summary Billing Plan Rate 115 (Rate 115) is an optional billing  
12             arrangement where qualifying customers that have multiple premises in  
13             Wyoming can choose to consolidate the billing of those premises under  
14             one account. The new rate schedule outlines the general availability of  
15             this new billing arrangement as well as the terms and conditions for  
16             enrolling in and maintaining eligibility under the plan.

17             The proposed rate schedule is in response to customers requesting  
18             the ability to consolidate their multiple monthly Montana-Dakota bills into  
19             one account which in turn equates to one monthly bill with one payment.  
20             The Company recognizes the value of a bill consolidation program for  
21             participating customers; however, believes such an optional billing  
22             arrangement is best managed through a defined program that helps

1 inform interested and participating customers of their responsibilities as  
2 well as the Company's parameters for continued participation in the plan.

3 **Q. Briefly describe the other changes the Company is proposing to its**  
4 **gas tariff.**

5 A. The Company is proposing the following changes to its gas tariff as  
6 clearly identified in the legislative copy of the tariff provided in Appendix B  
7 of this Application:

- 8 • The Company is proposing an entirely new volume of its gas rate  
9 book, designated herein as W.P.S.C. Tariff No. 3, to supersede  
10 the current Tariff No. 2, in order to reflect the removal of "A  
11 Subsidiary of MDU Resources Group, Inc." in the tariff header of  
12 all rate schedules.
- 13 • The rates described by Mr. Amen have been incorporated into the  
14 proposed tariffs.
- 15 • Add language to the Availability section of Optional Seasonal  
16 General Gas Service Rate 72 to further define the type of  
17 customer this optional rate is most suited for.
- 18 • Reflect the proposed changes to the Purchased Gas Cost  
19 Adjustment Rate 88 schedule as described by Ms. Tara Vesey.
- 20 • Introduce new or update existing provisions with the Company's  
21 Conditions of Service Rate 100 tariff to:
  - 22 ○ Allow the Company to turn a customer's gas meter on and, if  
23 no gas use is detected at that time, leave the gas meter on

1 and permit the customer to relight any pilot lights on their  
2 equipment at the customer's earliest convenience. This will  
3 eliminate the required presence of the customer at the time  
4 of a gas meter turn on, if the requesting customer consents  
5 to and accepts responsibility for their pilot relight(s). (Rate  
6 100, Section IV.2 Liability/Customer's Equipment)

7 ○ Introduce a monthly Manual Meter Reading Charge  
8 assessed customers who request to have their gas meter  
9 read manually each month in lieu of the Company installing  
10 an AMR-equipped meter to obtain meter reads. (Rate 100,  
11 Section V.15 General Terms and Conditions/Manual Meter  
12 Reading Charge)

13 ○ Update the Utility Customer Service provision (Rate 100,  
14 Section V.17) to include only the re-lighting of pilot lights due  
15 to an interruption of gas service deemed to be the  
16 Company's responsibility. The ceasing of this non-  
17 chargeable service would provide a consistency across all of  
18 Montana-Dakota's service territory where the Company has  
19 stopped the provision of services on the customer's side of  
20 the meter, including appliance repairs and the selling of  
21 appliances to customers.

22 ○ Advise customers that over time rates will apply if the  
23 customer's call is received after 12:00 p.m. local time for

1 service work to performed after hours on that same workday.

2 To avoid over time rates, a customer may schedule the

3 service work for a future work day (Rate 100, Section V.18

4 and Section V.22.h).

5 ○ Include a new provision (Rate 100, Section V.20) advising

6 customers that a temporary meter or service may be

7 installed on the basis of any direct costs incurred by the

8 Company.

9 ○ Update the annual authorized usage by rate used in the

10 determination of the non-residential reconnection fee for

11 seasonal or temporary customers to reflect each rate class's

12 respective average annual use from this docket (Section

13 V.21).

14 • Revise the Maximum Allowable Investment (MAI) formula used to

15 determine a firm extension project's cost participation under Firm

16 Gas Service Extension Policy Rate 120 to recognize the charges

17 billed under proposed Rate 74 include a Distribution Demand

18 Charge, not a Distribution Delivery Charge.

19 • Update Rule Covering Company Meter Test Program Rate 136 to

20 include a reporting month of April for submitting the results of the

21 Company's annual gas meter testing program.

22 There are other minor wording changes throughout the Company's rate

23 book to improve the readability of the rate without modifying any

1 conditions, update the rate and/or page references or are self-explanatory.

2 These changes are clearly denoted on the tariff sheets in the legislative

3 format.

4 **Q. Does this conclude your testimony?**

5 A. Yes.



## Montana-Dakota Utilities Co.

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

### State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 3  
Original Sheet No. 42

#### FIRM GENERAL CONTRACTED DEMAND SERVICE Rate 74

Page 1 of 2

##### Availability:

In all communities served applicable to non-residential customers with standby natural gas generators and, available on an optional basis to, customers qualifying for service under the interruptible service tariffs that have requested, and received approval from the Company, for gas service under this rate.

##### Rate:

###### Basic Service Charge:

For customers with meters rated under 500 cubic feet per hour \$0.910 per day  
For customers with meters rated over 500 cubic feet per hour \$1.826 per day

Distribution Demand Charge: \$6.890 per dk per month of billing demand

Capacity Charge per  
Monthly Demand dk: Determined Monthly – See Rate Summary  
Sheet for Current Rate

Cost of Gas: Determined Monthly – See Rate Summary  
Commodity per dk: Sheet for Current Rate

##### Minimum Bill:

Basic Service Charge, Distribution Demand Charge, and Capacity Charge.

##### Payment:

Billed amounts 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, §V.13, or any amendments or alterations thereto.

##### Determination of Monthly Billing Demand:

Customer's billing demand will be determined in consultation with the Company. Customer's actual demand will be reviewed annually and, if warranted, a new monthly billing demand established.

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## Montana-Dakota Utilities Co.

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

### State of Wyoming Gas Rate Schedule

W.P.S.C. Tariff No. 3  
Original Sheet No. 43

#### FIRM GENERAL CONTRACTED DEMAND SERVICE Rate 74

Page 2 of 2

##### Cost of Gas:

The cost of gas includes all applicable cost of gas items as defined in Purchased Gas Cost Adjustment Rate 88 or any amendments or alterations thereto. The cost of gas component is subject to change on a monthly basis.

##### Metering Requirements:

1. Service provided for under tariff must be separately metered from customer's other gas services.
2. Remote data acquisition equipment (telemetry equipment) may be required by the Company for a single customer installation for daily measurement.
3. Customer may be required, upon consultation with the Company, to contribute towards any additional metering equipment necessary for daily measurement by the Company, depending on the location of the customer to the Company's network facilities. Enhancements and/or modifications to these services may be required to ensure equipment functionality. Such enhancements or modifications shall be completed at the direction of the Company with all associated costs the Customer's responsibility. Any interruption in such services must be promptly remedied or service under this tariff will be suspended until satisfactory corrections have been made.
4. Consultation between the customer and the Company regarding telemetry requirements shall occur prior to meter installation.

##### General Terms and Conditions:

1. Customers with standby gas generators required to take service under this schedule are not required to execute a contract. Other customers choosing to take service under this schedule will be required to execute a contract applicable for a minimum period of one year.
2. The foregoing schedule is subject to Rates 100 through 136 and any amendments or alterations therefore or additional rules and regulations promulgated by the Company under the laws of the state.

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**Montana-Dakota Utilities Co.**  
**Gas Utility - Wyoming**  
**Calculation of Rate 74 Distribution Demand Charge**  
**2024 Rate Case**

Rate Classes	Net Distribution Cost of Service - Demand Component 1/	Distribution Level Peak 2/	Annual Cost	Rate 74 Demand Charge
Residential	\$1,497,589	19,179		
Small Firm General	299,185	3,745		
Large Firm General	678,909	8,436		
Small Interruptible	9,733	181		
Large Interruptible	193,721	879		
	<u>\$2,679,137</u>	<u>32,420</u>	\$82.64	\$6.89

1/ Class Cost of Service Study, Cost by Component

2/ Class Cost of Service Study, Design Day Deliveries



**State of Wyoming  
Gas Rate Schedule**

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W.P.S.C. Tariff No. 3  
Original Sheet No. 115

**SUMMARY BILLING PLAN  
Rate 115**

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Page 1 of 2

**Availability:**

Under the Company's Summary Billing Plan, customers are provided an optional billing arrangement under which a customer's multiple premises may be consolidated into one billing statement each month. This billing arrangement is available in all communities served by the Company for customers who voluntarily agree to participate in the Summary Billing Plan and who continue to meet the availability and terms and conditions of the plan.

The Company may limit the number of premises participating in the plan and exclude services based on rate and/or customer class or credit standing with the Company. Seasonal, short-term, or temporary customers will not be allowed to enroll. Participation in other optional programs such as Balanced Billing may also limit a customer's ability to participate in this billing arrangement. This is not an all-inclusive list of exclusions and service enrollment is at the Company's sole discretion.

**General Terms and Conditions:**

1. A customer requesting Summary Billing must provide 45 days advanced notice of their request to enroll.
2. Customer agrees to contract for Summary Billing for a minimum of one year.
3. Each service enrolled in the Summary Billing Plan shall be billed at the otherwise applicable rate schedule.
4. The Company, at its sole discretion, will select the bill date for an enrolled customer's Summary Bill.
5. Enrolled customers need only make one payment each month covering the total amount due for all services included in the Summary Bill.
6. Payment policies remain in effect for each customer participating in the plan. Any determination of delinquencies will be based on the bill date of the Summary Bill.
  - a. If a customer participating in the Summary Billing Plan falls into arrears, the Company, at its sole discretion, may discontinue this optional billing arrangement and revert the services into separate billing statements.

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# Montana-Dakota Utilities Co.

400 N 4<sup>th</sup> Street  
Bismarck, ND 58501

Exhibit No. \_\_ (SB-2)  
Page 2 of 2

## State of Wyoming Gas Rate Schedule

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W.P.S.C. Tariff No. 3  
Original Sheet No. 116

### SUMMARY BILLING PLAN Rate 115

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Page 2 of 2

7. Either the customer or the Company may cancel a customer's Summary Billing Plan with a 45-day advanced notice of cancellation. Upon cancellation of the plan, a customer's services will revert into separate billing statements.
  - a. Upon cancellation of a Summary Billing Plan, the customer may not request the establishment of a new Summary Billing Plan for at least one year after cancellation.
8. The Company will not be liable for any customer costs which may result from any refusals, delays or failures resulting from requests for, or changes to, a customer's Summary Billing Plan.

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