

STATE OF MISSOURI, PUBLIC SERVICE COMMISSION

P.S.C. MO. No.	2	4th ^{2ⁿ} d	Revised	Sheet No.	66
Canceling P.S.C. MO. No.	2	1st	Original Revised	Sheet No.	66

THE EMPIRE DISTRICT GAS COMPANY
d/b/a Liberty Utilities or Liberty
JOPLIN, MO 64802

FOR: RS and SGS Schedules

WEATHER NORMALIZATION ADJUSTMENT RIDER

APPLICABILITY

The Weather Normalization Adjustment (“WNA”) Rider is applicable to each ccf of gas delivered under the terms of the residential and small commercial rate schedules of Liberty Utilities (The Empire District Gas Distribution Company) Corp’s d/b/a Liberty Utilities (“Liberty”) until such time as it may be discontinued or modified by order of the Commission in a general rate case. The North-South and Northwest regions will have the same rider rates that will be applied as a separate line item on a customer’s bill.

CALCULATION OF ADJUSTMENT

The WNA Factor will be calculated for each billing cycle and billing month as follows:

$$WNA_i = \sum_{j=1}^{18n} ((NDD_{ij} - ADD_{ij}) \cdot C_{ij}) \cdot \beta$$

Where:

- i = the applicable billing cycle month
- WNA_i = Weather Normalization Adjustment
- j = the billing cycle
- n = the number of billing cycles

- NDD_{ij} = the total normal heating degree days based upon the daily normal weather as determined in the most recent rate case.
- ADD_{ij} = the total actual heating degree days, base 65° at the applicable Kansas City International Airport weather station – ~~Kansas City International Airport for the North-South region and Conception Missouri for the Northwest region.~~
- C_{ij} = the total number of customer charges charged in billing cycle j and billing month i
- β = the applicable coefficient: **0.1234365** for the residential class, **0.2793279** for the small general sales class

1. Monthly $WNA_i = WNA_i \times \text{Weighted Volumetric Rate (“WVR”)}_i$
2. For the residential rate class, the WVR in the North-South and Northwest regions shall be equal to the Residential Distribution Commodity rate established at the conclusion of each general rate case. For Case No. GR 2021-0320, the amount is ~~\$x.xxxx~~ **0.21748**.

For the small commercial rate class, the WVR in the North-South and Northwest regions shall be equal to the Small Commercial Distribution Commodity rate established at the conclusion of each general rate case. For Case No. GR 2021-0320, the amount is ~~\$x.xxxx~~ **0.26033**.

Formatted: Font: Italic

Formatted: Font: Italic

DATE OF ISSUE: ~~August 29~~ July 7, 2022

EFFECTIVE DATE: ~~August 6~~ September 28, 2022

ISSUED BY: Mike Beatty, Vice President

STATE OF MISSOURI, PUBLIC SERVICE COMMISSION

P.S.C. MO. No.	2	2nd ^{3r} d	Revised	Sheet No.	67
Canceling P.S.C. MO. No.	2	1st ²ⁿ d	Revised	Sheet No.	67

THE EMPIRE DISTRICT GAS COMPANY
d/b/a Liberty Utilities or Liberty
JOPLIN, MO 64802

FOR: RS and SGS Schedules

WEATHER NORMALIZATION ADJUSTMENT RIDER (Cont'd)

3. The Current Annual WNA amount ("CAWNA") shall be the sum of the twelve Monthly WNA_i for the revenue months in the applicable twelve-month period divided by the annual volumetric billing ~~determinates~~determinants set for the residential rate class or the Small General Service Class (whichever is applicable) in the most recent rate case. The weather normalization adjustments for the July and August revenue months (revenue generated in July and August to be billed in August and September) will be assumed to be zero.
4. Annual Reconciliation Rate ("ARR"): Three (3) months prior to the end of the twelve (12) months of billing of each CAWNA, the over- or under-billing of the numerator of the CAWNA shall be calculated based on nine (9) months actual sales and three (3) months projected sales. Three (3) months prior to the end of the twelve (12) months of billing of each ARR, the over- or under-billing of the ARR shall be calculated based on nine (9) months actual sales and three (3) months projected sales. The three (3) months projected sales associated with each CAWNA and ARR shall be trued-up with actuals upon calculation of the next applicable ARR. The amount of over- or under-billing shall be adjusted as ordered by the Commission, if applicable. The resulting amount shall be divided by the annual volumetric billing ~~determinates~~determinants set for the corresponding rate class in the most recent rate case.
5. The tariff filing for each WNAR rate for each 12 months ended August 31 will be filed at least 60 days prior to the next following November 1. ~~Company shall make a WNAR filing each calendar year to be effective for the November billing month at least sixty (60) days prior to the effective date.~~ The first WNAR adjustment year will be for the time period from the later of September 1, 2022 or the first of the month following the effective date of rates in this case through August 31, 2023. Each CAWNA and ARR will remain in effect for twelve (12) months. The total WNA Rider rate shall be the sum of all effective CAWNAs and ARRs.
6. There shall be a limit of \$0.05 per ccf on upward adjustments for the WNA and no limit on downward adjustment. Any WNA adjustment amounts in excess of \$0.05 per ccf will be deferred for recovery from customers in the next WNA adjustment and applicable to part a. below.
 - a. Each month, monthly interest at the Company's monthly short-term borrowing rate shall be applied to the Company's average beginning and ending monthly WNA balances. Corresponding interest income and expense amounts shall be recorded on a net cumulative basis for the WNA deferral period.

DATE OF ISSUE: ~~July 7~~August 29, 2022

EFFECTIVE DATE: ~~August 6~~September 28, 2022

ISSUED BY: Mike Beatty, Vice President

STATE OF MISSOURI, PUBLIC SERVICE COMMISSION

P.S.C. MO. No.	2	2nd ^{3r} <u>d</u>	Revised	Sheet No.	68
Canceling P.S.C. MO. No.	<u>2</u>	1st ²ⁿ <u>d</u>	Revised	Sheet No.	<u>68</u>

THE EMPIRE DISTRICT GAS COMPANY
d/b/a Liberty Utilities or Liberty
JOPLIN, MO. 64802

~~FOR: RS and SGS Schedules~~

Calculation of Current Weather Adjustment Rate (WR):

Monthly WNA included in WNA Factor: _____ Date of this Sheet through October 31, 2023

Residential Class

CAWNA

<u>Sum of Monthly WNA / rate case billing determinates</u>		<u>0.0000</u>
<u>Annual Reconciliation Rate (ARR)</u>	<u>+</u>	<u>0.0000</u>
<u>WNA Rider Rate</u>	<u>=</u>	<u>0.0000/ccf</u>

Small General Service Sales Class

CAWNA

<u>Sum of Monthly WNA / rate case billing determinates</u>		<u>0.0000</u>
<u>Annual Reconciliation Rate (ARR)</u>	<u>+</u>	<u>0.0000</u>
<u>WNA Rider Rate</u>	<u>=</u>	<u>0.0000/ccf</u>

Residential Rates for the North-South and Northwest regions:

CAWNA Table:

<u>Period</u>	<u>Rate-First Effective</u>	<u>Months</u>	<u>Rate-Ending Effective</u>	<u>CSWNA (Annual)</u>	<u>-</u>
2024	4/1/2023	12	3/31/2024	TBD	
2023	Effective-Date-of this Sheet		3/31/2023	0.0000	-

SRR Table:

<u>Period</u>	<u>Rate-First Effective</u>	<u>Months</u>	<u>Rate-Ending Effective</u>	<u>SRR (Annual)</u>	<u>-</u>
---------------	-----------------------------	---------------	------------------------------	---------------------	----------

2024	4/1/2023	12	3/31/2024	TBD	
-	Effective Date of				
2023	this Sheet		3/31/2023	0.0000	-
-					
<u>WNA Rider Rate:</u>					
-	Rate First		Rate Ending	Monthly WNA	
Period	Effective	Months	Effective	Rider Rate	-
2024	4/1/2023	12	3/31/2024	TBD	
	Effective Date of				
-	this Sheet		3/31/2023	0.0000	-

DATE OF ISSUE: ~~July 7, 2022~~ [August 29, 2022](#)

EFFECTIVE DATE: ~~August 6, 2022~~ [September 28, 2022](#)

ISSUED BY: Mike Beatty, Vice President

STATE OF MISSOURI, PUBLIC SERVICE COMMISSION

P.S.C. MO. No.	2	<u>2nd3rd</u>	Revised	Sheet No.	69
		<u>d</u>			
Canceling P.S.C. MO. No.	2	<u>4st2nd</u>	Revised	Sheet No.	69
		<u>d</u>			

THE EMPIRE DISTRICT GAS COMPANY
d/b/a Liberty Utilities or Liberty
JOPLIN, MO. 64802

FOR: RS and SGS Schedules

(RESERVED FOR FUTURE USE)

Small Commercial Rates for the North-South and Northwest regions:

CAWNA Table:

<u>Period</u>	<u>Rate First Effective</u>	<u>Months</u>	<u>Rate-Ending Effective</u>	<u>CSWNA (Annual)</u>
2024	4/1/2023	12	3/31/2024	TBD
2023	Effective Date of this Sheet		3/31/2023	0.0000

SRR Table:

<u>Period</u>	<u>Rate First Effective</u>	<u>Months</u>	<u>Rate-Ending Effective</u>	<u>SRR (Annual)</u>
2024	4/1/2023	12	3/31/2024	TBD
2023	Effective Date of this Sheet		3/31/2023	0.0000

WNA Rider Rate:

Formatted Table

Formatted Table

Period	Rate First Effective	Months	Rate Ending Effective	Monthly WNA Rider Rate
2024	4/1/2023	12	3/31/2024	TBD
2023	Effective Date of this Sheet		3/31/2023	0.0000

Formatted Table

DATE OF ISSUE: ~~July 7, 2022~~ [August 29, 2022](#)

EFFECTIVE DATE: ~~August 6,~~ [September 28,](#) 2022

ISSUED BY: Mike Beatty, Vice President