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 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:

$$\mathrm{WNA}_i = \sum_{j=1}^{n} \left(\left(NDD_{ij} - ADD_{ij} \right) \cdot C_{ij} \right) \cdot \beta$$

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 Kansas City International Airport weather station.
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 × 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 **$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 **$0.26033**.

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3. The Current Annual WNA amount ("CAWNA") shall be the sum of the twelve Monthly WNAi for the revenue months in the applicable twelve-month period divided by the annual volumetric billing 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 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. 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.

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

Calculation of Current Weather Adjustment Rate (WR):

Monthly WNA included in WNA Factor: Date of this Sheet through September 30, 2027

Residential Class

CAWNA

Sum of Monthly WNA / rate case billing determinates		0.03508
Annual Reconciliation Rate (ARR)	+	0.00402
WNA Rider Rate	=	0.03910/ccf

Small General Service Sales Class

CAWNA

Sum of Monthly WNA / rate case billing determinates		0.04209
Annual Reconciliation Rate (ARR)	+	0.00291
WNA Rider Rate	=	0.04500/ccf

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