

**Liberty Utilities (Midstates Natural Gas) Corp.**

**Stipulation and Agreement on Non-Revenue Requirement Issues**

**Schedule C**

**Weather Normalization Adjustment Rider (“WNAR”)**

The parties agree that Liberty’s Weather Normalization Adjustment Rider (“WNAR”) be continued with modifications consistent with revenue normalization decisions in this case. Certain values within the WNAR tariff sheets P.S.C MO. No. 2, Sheets 67 and 67.1 will be updated consistent with the weather normalization ordered by the Commission in this case to ensure the WNAR adjustment is aligned with the Commission-authorized rates for the residential and small general service rate classes. Specifically, the parties agree that the following factors within these WNAR tariff sheets will be modified to ensure the WNAR adjustment is aligned with the Commission-authorized rates.

**Factors which require updating:**

1. Applicable coefficients – These coefficients reflect the change in customer usage due to changes in temperature measured in heating degree days (“HDD”). The coefficients, designated as  $\beta$  on tariff sheet 67, are different by district and rate class. They are the HDD component in the weather normalization regression models.
2. Weather Stations – The appropriate weather stations to use to determine the deviation from normal of HDD. The weather stations for actual and normal weather provided on tariff sheet 67 should be consistent with the weather stations used in the normalization models used to determine the applicable coefficients.
3. Volumetric rates – the volumetric rate (WRVR) is the distribution commodity charge as determined in the most recent general rate case for the residential and small general service class.
4. References to the general rate case number of the most recent general rate case in which modifications to the WNAR tariff sheets 67 and 67.1 were made should be updated.

Normal Heating Degree Days  
For use in WNAR Calculations

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Start Year 2003  
End Year 2022

**STATION** **NAME**  
USW00014938 KIRKSVILLE REGIONAL AIRPORT, MO US

Month	Day	HDD65	HDD60	HDD55
1	1	40.60	35.60	30.60
1	2	40.68	35.68	30.68
1	3	39.20	34.20	29.20
1	4	38.30	33.30	28.30
1	5	38.80	33.80	28.80
1	6	41.35	36.35	31.58
1	7	38.62	33.62	28.62
1	8	37.16	32.16	27.16
1	9	37.83	32.83	27.83
1	10	37.88	32.88	27.88
1	11	33.45	28.45	23.45
1	12	36.16	31.16	26.16
1	13	41.09	36.09	31.09
1	14	39.25	34.25	29.25
1	15	41.58	36.58	31.58
1	16	41.10	36.10	31.10
1	17	41.08	36.08	31.08
1	18	39.08	34.08	29.08
1	19	39.65	34.65	29.65
1	20	41.93	36.93	31.93
1	21	41.18	36.18	31.18
1	22	39.55	34.55	29.55
1	23	40.70	35.70	30.70
1	24	39.73	34.73	29.73
1	25	38.50	33.50	28.50
1	26	37.88	32.88	27.88
1	27	38.83	33.83	28.83
1	28	37.95	32.95	27.95
1	29	38.40	33.40	28.40
1	30	40.45	35.45	30.45
1	31	36.43	31.43	26.43
2	1	36.78	31.78	26.78
2	2	38.83	33.83	28.83
2	3	39.83	34.83	29.83
2	4	40.53	35.53	30.53
2	5	41.60	36.60	31.60
2	6	38.28	33.28	28.28
2	7	40.88	35.88	30.88
2	8	42.15	37.15	32.15
2	9	42.40	37.40	32.40

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2	10	41.33	36.33	31.43
2	11	39.90	34.90	29.90
2	12	41.33	36.33	31.33
2	13	39.55	34.55	29.55
2	14	36.90	31.90	26.90
2	15	40.60	35.60	30.60
2	16	38.20	33.20	28.20
2	17	34.68	29.68	25.05
2	18	35.78	30.78	25.80
2	19	34.90	29.90	24.90
2	20	31.15	26.20	21.45
2	21	31.40	26.40	21.63
2	22	32.68	27.68	22.93
2	23	34.20	29.20	24.20
2	24	35.15	30.15	25.15
2	25	36.45	31.45	26.45
2	26	35.58	30.58	25.58
2	27	32.48	27.48	22.48
2	28	30.11	25.21	20.46
2	29	21.60	16.60	11.60
3	1	29.13	24.13	19.15
3	2	33.08	28.08	23.13
3	3	33.23	28.23	23.23
3	4	30.35	25.35	20.35
3	5	28.25	23.25	18.50
3	6	26.73	21.83	17.08
3	7	26.40	21.43	16.68
3	8	25.38	20.63	16.20
3	9	25.10	20.10	15.20
3	10	24.50	19.53	14.78
3	11	24.73	19.73	14.95
3	12	24.20	19.20	14.28
3	13	22.35	17.50	12.83
3	14	21.28	16.53	12.18
3	15	21.05	16.30	11.80
3	16	20.50	16.00	11.68
3	17	19.48	14.85	11.05
3	18	21.08	16.33	11.78
3	19	22.18	17.43	12.88
3	20	21.00	16.30	12.05
3	21	18.53	13.85	9.85
3	22	19.93	15.08	10.93
3	23	19.23	14.45	10.10
3	24	20.05	15.35	11.30

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3	25	20.30	15.63	11.38
3	26	20.00	15.28	10.93
3	27	19.20	14.80	10.63
3	28	19.40	14.55	10.43
3	29	17.93	13.13	8.55
3	30	16.10	11.30	7.53
3	31	16.45	11.85	7.63
4	1	18.80	14.68	10.68
4	2	16.45	12.08	8.65
4	3	15.58	11.33	7.43
4	4	18.20	13.70	9.45
4	5	16.28	11.78	7.35
4	6	14.20	9.90	6.58
4	7	16.88	12.38	8.78
4	8	17.43	12.93	9.13
4	9	15.28	11.20	7.90
4	10	12.93	8.45	4.83
4	11	13.93	9.30	5.30
4	12	13.78	9.60	6.30
4	13	14.18	10.18	6.80
4	14	13.50	9.73	6.43
4	15	12.85	9.18	6.08
4	16	11.15	7.68	4.95
4	17	11.98	8.15	4.98
4	18	11.23	7.53	4.35
4	19	11.85	7.83	4.83
4	20	12.88	8.40	4.95
4	21	11.18	6.90	3.18
4	22	9.80	5.88	2.68
4	23	10.40	5.98	2.78
4	24	8.70	4.55	1.98
4	25	10.68	6.55	2.98
4	26	11.45	7.48	3.83
4	27	10.50	6.20	2.80
4	28	10.23	6.20	2.88
4	29	10.33	6.25	2.93
4	30	6.95	3.45	1.38
5	1	9.08	5.50	2.70
5	2	9.78	5.93	3.10
5	3	10.53	6.73	3.83
5	4	9.45	5.53	2.20
5	5	6.50	2.68	0.63
5	6	5.05	2.28	0.75
5	7	4.35	1.93	0.38

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5	8	4.58	2.20	1.18
5	9	5.30	2.93	1.38
5	10	5.93	3.48	1.55
5	11	7.15	4.38	2.10
5	12	7.18	3.70	1.43
5	13	7.10	3.45	1.38
5	14	6.98	3.75	1.50
5	15	7.15	3.88	1.83
5	16	6.98	3.73	1.38
5	17	4.98	2.68	1.18
5	18	4.75	2.15	0.18
5	19	3.85	1.55	0.38
5	20	4.85	2.40	0.93
5	21	4.73	1.93	0.40
5	22	3.15	1.00	0.10
5	23	2.43	0.85	0.00
5	24	2.28	0.85	0.05
5	25	2.03	0.35	0.00
5	26	1.40	0.25	0.00
5	27	1.48	0.40	0.10
5	28	1.93	0.65	0.23
5	29	0.90	0.38	0.13
5	30	1.40	0.38	0.08
5	31	1.88	0.55	0.00
6	1	1.35	0.25	0.00
6	2	2.03	0.80	0.25
6	3	1.33	0.50	0.03
6	4	0.55	0.00	0.00
6	5	0.50	0.00	0.00
6	6	0.10	0.00	0.00
6	7	0.45	0.05	0.00
6	8	0.65	0.03	0.00
6	9	0.70	0.15	0.00
6	10	0.20	0.00	0.00
6	11	0.25	0.00	0.00
6	12	0.40	0.00	0.00
6	13	0.40	0.00	0.00
6	14	0.08	0.00	0.00
6	15	0.00	0.00	0.00
6	16	0.08	0.00	0.00
6	17	0.08	0.00	0.00
6	18	0.00	0.00	0.00
6	19	0.30	0.05	0.00
6	20	0.30	0.00	0.00

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6	21	0.20	0.00	0.00
6	22	0.13	0.00	0.00
6	23	0.13	0.00	0.00
6	24	0.08	0.00	0.00
6	25	0.35	0.00	0.00
6	26	0.48	0.00	0.00
6	27	0.10	0.00	0.00
6	28	0.00	0.00	0.00
6	29	0.03	0.00	0.00
6	30	0.00	0.00	0.00
7	1	0.00	0.00	0.00
7	2	0.35	0.00	0.00
7	3	0.23	0.00	0.00
7	4	0.00	0.00	0.00
7	5	0.00	0.00	0.00
7	6	0.00	0.00	0.00
7	7	0.00	0.00	0.00
7	8	0.25	0.00	0.00
7	9	0.00	0.00	0.00
7	10	0.00	0.00	0.00
7	11	0.00	0.00	0.00
7	12	0.00	0.00	0.00
7	13	0.00	0.00	0.00
7	14	0.00	0.00	0.00
7	15	0.13	0.00	0.00
7	16	0.00	0.00	0.00
7	17	0.13	0.00	0.00
7	18	0.13	0.00	0.00
7	19	0.08	0.00	0.00
7	20	0.00	0.00	0.00
7	21	0.00	0.00	0.00
7	22	0.00	0.00	0.00
7	23	0.00	0.00	0.00
7	24	0.15	0.00	0.00
7	25	0.00	0.00	0.00
7	26	0.00	0.00	0.00
7	27	0.18	0.00	0.00
7	28	0.13	0.00	0.00
7	29	0.20	0.00	0.00
7	30	0.00	0.00	0.00
7	31	0.00	0.00	0.00
8	1	0.00	0.00	0.00
8	2	0.00	0.00	0.00
8	3	0.00	0.00	0.00

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8	4	0.05	0.00	0.00
8	5	0.10	0.00	0.00
8	6	0.08	0.00	0.00
8	7	0.03	0.00	0.00
8	8	0.00	0.00	0.00
8	9	0.00	0.00	0.00
8	10	0.03	0.00	0.00
8	11	0.35	0.10	0.00
8	12	0.40	0.15	0.00
8	13	0.40	0.00	0.00
8	14	0.35	0.00	0.00
8	15	0.25	0.00	0.00
8	16	0.00	0.00	0.00
8	17	0.10	0.00	0.00
8	18	0.10	0.00	0.00
8	19	0.30	0.00	0.00
8	20	0.13	0.00	0.00
8	21	0.10	0.00	0.00
8	22	0.10	0.00	0.00
8	23	0.20	0.00	0.00
8	24	0.05	0.00	0.00
8	25	0.10	0.00	0.00
8	26	0.08	0.00	0.00
8	27	0.03	0.00	0.00
8	28	0.03	0.00	0.00
8	29	0.23	0.00	0.00
8	30	0.48	0.23	0.00
8	31	0.63	0.15	0.00
9	1	0.63	0.13	0.00
9	2	0.33	0.03	0.00
9	3	0.73	0.05	0.00
9	4	1.05	0.15	0.00
9	5	0.78	0.05	0.00
9	6	1.13	0.23	0.00
9	7	1.23	0.10	0.00
9	8	1.58	0.38	0.03
9	9	1.53	0.68	0.18
9	10	1.38	0.28	0.03
9	11	1.43	0.33	0.08
9	12	2.30	1.15	0.45
9	13	2.03	0.75	0.30
9	14	2.88	1.03	0.18
9	15	3.33	1.53	0.58
9	16	2.58	0.85	0.23

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9	17	1.88	0.23	0.00
9	18	1.95	0.60	0.13
9	19	2.45	1.05	0.38
9	20	2.48	0.98	0.28
9	21	2.20	0.35	0.00
9	22	3.53	1.25	0.35
9	23	3.68	1.48	0.48
9	24	2.00	0.85	0.18
9	25	2.65	1.25	0.43
9	26	3.85	1.35	0.23
9	27	4.05	1.28	0.10
9	28	6.23	2.93	0.80
9	29	6.70	3.35	1.13
9	30	5.63	2.40	0.63
10	1	5.35	2.65	0.95
10	2	7.18	4.48	2.43
10	3	6.75	3.80	1.58
10	4	8.35	5.05	2.53
10	5	6.40	3.60	1.70
10	6	6.38	3.75	2.05
10	7	7.83	4.35	2.25
10	8	6.53	3.58	1.70
10	9	6.68	3.33	1.40
10	10	9.23	5.35	2.63
10	11	9.73	6.55	3.90
10	12	11.35	7.33	3.80
10	13	10.40	6.25	3.25
10	14	11.63	7.40	3.68
10	15	13.03	8.30	4.13
10	16	13.98	9.38	5.23
10	17	13.48	8.98	5.00
10	18	13.83	9.30	5.53
10	19	13.85	9.40	5.73
10	20	10.78	6.70	3.50
10	21	11.80	7.85	4.60
10	22	11.35	7.40	3.90
10	23	12.33	8.35	5.10
10	24	15.05	10.48	6.68
10	25	15.78	11.15	7.05
10	26	17.33	12.43	8.28
10	27	18.70	13.95	9.33
10	28	19.20	14.58	10.08
10	29	17.98	13.48	9.05
10	30	14.83	9.85	5.60



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10	31	18.63	13.63	9.03
11	1	19.03	14.28	9.75
11	2	17.68	12.95	8.70
11	3	15.55	11.18	7.55
11	4	15.33	10.53	6.20
11	5	18.01	13.14	9.01
11	6	17.73	12.73	8.38
11	7	19.63	14.68	10.18
11	8	19.08	14.35	10.70
11	9	16.58	11.95	8.18
11	10	20.00	15.25	10.65
11	11	22.23	17.28	12.60
11	12	26.18	21.18	16.43
11	13	27.28	22.28	17.28
11	14	24.45	19.45	14.45
11	15	24.68	19.68	14.68
11	16	24.58	19.58	14.63
11	17	23.80	18.95	14.60
11	18	25.88	20.88	15.90
11	19	23.33	18.50	13.75
11	20	25.10	20.10	15.13
11	21	25.73	20.73	15.75
11	22	25.98	20.98	15.98
11	23	25.50	20.50	15.50
11	24	26.08	21.08	16.10
11	25	27.75	22.75	17.75
11	26	26.95	21.95	17.05
11	27	27.45	22.45	17.70
11	28	27.28	22.35	17.60
11	29	27.63	22.63	17.63
11	30	30.85	25.85	20.85
12	1	30.85	25.85	20.85
12	2	29.25	24.25	19.25
12	3	30.58	25.58	20.80
12	4	31.20	26.20	21.20
12	5	33.44	28.44	23.44
12	6	35.71	30.71	25.71
12	7	38.35	33.35	28.35
12	8	34.80	29.80	24.80
12	9	35.00	30.00	25.00
12	10	34.63	29.63	24.63
12	11	32.78	27.78	22.78
12	12	32.78	27.78	22.78
12	13	29.95	24.98	20.23

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12	14	32.10	27.10	22.10
12	15	34.58	29.68	24.93
12	16	35.83	30.83	25.83
12	17	37.53	32.53	27.53
12	18	35.93	30.93	25.93
12	19	35.83	30.83	25.83
12	20	33.85	28.85	23.85
12	21	32.60	27.60	22.60
12	22	36.18	31.18	26.18
12	23	35.53	30.53	25.53
12	24	36.90	31.90	26.90
12	25	34.75	29.75	24.75
12	26	34.43	29.43	24.43
12	27	32.98	27.98	22.98
12	28	32.43	27.43	22.43
12	29	34.30	29.30	24.33
12	30	33.80	28.80	23.80
12	31	35.65	30.65	25.65

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Start Year      2003                      STATION      NAME  
End Year        2022                      USW00003935    CAPE GIRARDEAU FAA AIRPORT, MO US

Month	Day	HDD65	HDD60	HDD55
1	1	27.43	22.43	17.68
1	2	29.13	24.23	19.78
1	3	29.13	24.13	19.43
1	4	29.68	24.68	19.68
1	5	30.83	25.83	20.83
1	6	33.38	28.38	23.63
1	7	31.65	26.88	22.15
1	8	29.6	24.6	19.6
1	9	28.8	23.8	18.8
1	10	27.85	22.85	18.03
1	11	26.88	22.03	17.28
1	12	27.5	22.75	18
1	13	31.03	26.03	21.03
1	14	30.88	25.88	20.88
1	15	31.98	26.98	21.98
1	16	32.25	27.25	22.25
1	17	31.88	26.88	21.88
1	18	32.55	27.55	22.55
1	19	30.65	25.65	20.65
1	20	31.78	26.78	21.93
1	21	31.8	26.8	21.88
1	22	31.48	26.48	21.48
1	23	32.6	27.6	22.6
1	24	32.03	27.03	22.03
1	25	30.55	25.55	20.75
1	26	30.6	25.6	20.6
1	27	31.73	26.73	21.73
1	28	30.53	25.53	20.73
1	29	30.58	25.65	20.9
1	30	32.5	27.5	22.5
1	31	29.25	24.25	19.38
2	1	26.6	21.6	16.6
2	2	27.85	22.85	18.08
2	3	29.68	24.68	19.68
2	4	29.6	24.68	20
2	5	31.33	26.5	21.75
2	6	28.68	23.68	18.68
2	7	29.28	24.33	19.6
2	8	31.35	26.35	21.35
2	9	32.38	27.38	22.4

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2	10	31.58	26.58	21.78
2	11	30.1	25.15	20.4
2	12	31.73	26.73	21.73
2	13	31.8	26.8	21.8
2	14	28.38	23.38	18.48
2	15	29.2	24.45	19.93
2	16	29.9	24.9	20.2
2	17	28.45	23.45	18.68
2	18	28.5	23.5	18.5
2	19	27.6	22.63	18
2	20	23	18	13.83
2	21	23.38	18.38	13.65
2	22	24.23	19.33	14.58
2	23	24.3	19.35	14.68
2	24	25.13	20.13	15.2
2	25	27.6	22.6	17.6
2	26	27.45	22.45	17.58
2	27	24.33	19.33	14.33
2	28	21.5	16.6	12.05
2	29	15.6	10.6	6.3
3	1	20.8	15.8	11.13
3	2	22.43	17.43	12.88
3	3	25.35	20.35	15.35
3	4	23.4	18.5	13.98
3	5	22.43	17.43	13
3	6	22.5	17.83	13.53
3	7	19.98	15.48	11.23
3	8	19.38	14.53	10
3	9	17.28	12.28	7.7
3	10	16.33	11.7	7.53
3	11	17.15	12.48	8.05
3	12	16.18	11.68	7.63
3	13	15.93	11.18	7.38
3	14	16.43	12.03	7.95
3	15	16.2	11.7	7.3
3	16	15.23	10.4	6.2
3	17	14.75	10	5.75
3	18	14.18	9.5	5.43
3	19	15.28	10.68	6.55
3	20	14.7	10.3	6.73
3	21	15.38	11.13	7.18
3	22	15.08	10.65	6.65
3	23	13.35	9.15	5.53
3	24	13.13	8.9	5.78

Normal Heating Degree Days  
For use in WNAR Calculations

GR-2024-0106  
Amended Schedule C

3	25	14.4	9.98	6.3
3	26	14.73	10.43	6.7
3	27	12.2	8.25	5.15
3	28	12.15	8.13	4.35
3	29	13.63	9.13	5.58
3	30	11.33	7.08	3.78
3	31	11.13	7.23	4
4	1	12.58	8.2	4.85
4	2	10.6	7.18	4.05
4	3	9.03	5.25	2.48
4	4	11.88	7.43	3.88
4	5	12.45	7.95	4.3
4	6	10.93	6.8	3.65
4	7	9.68	6.35	3.88
4	8	11.38	7.75	4.63
4	9	10.98	7.4	4.15
4	10	7.9	4.6	2.28
4	11	7.78	3.98	1.3
4	12	8.88	5.3	2.73
4	13	8.9	5.48	2.98
4	14	10.1	6.43	3.9
4	15	9.53	6.4	3.75
4	16	8.18	5	2.53
4	17	6.98	3.63	1.28
4	18	6.28	3.05	1.13
4	19	7.28	4.5	2.25
4	20	7.78	4.15	1.43
4	21	7.28	3.4	1.13
4	22	6.28	3.23	1.28
4	23	5.83	2.83	1.03
4	24	5.3	2.83	1.08
4	25	4.23	1.83	0.6
4	26	6.25	2.83	0.63
4	27	7.33	3.55	0.7
4	28	5.23	2.35	0.5
4	29	4.25	1.9	0.68
4	30	3.13	1.35	0.38
5	1	3.73	1.73	0.5
5	2	4.65	2.1	0.73
5	3	4.7	2.33	0.68
5	4	5.6	2.78	1.03
5	5	4.1	1.65	0.45
5	6	3.25	0.75	0.1
5	7	1.95	0.55	0.05

Normal Heating Degree Days  
For use in WNAR Calculations

GR-2024-0106  
Amended Schedule C

5	8	1.83	0.63	0.13
5	9	2.3	0.85	0.3
5	10	2.73	0.98	0.18
5	11	3.23	1.4	0.33
5	12	3.83	1.5	0.35
5	13	2.93	0.93	0.03
5	14	3.2	1.43	0.25
5	15	3.4	1.4	0.05
5	16	3.23	1.18	0.2
5	17	2.78	1.18	0.2
5	18	2.2	0.53	0
5	19	1.18	0.18	0
5	20	1.03	0.33	0.08
5	21	1.15	0.35	0.1
5	22	0.93	0.15	0
5	23	0.43	0	0
5	24	0.75	0	0
5	25	0.75	0.08	0
5	26	0.48	0	0
5	27	0.63	0.1	0
5	28	0.08	0	0
5	29	0.53	0.28	0.03
5	30	0.3	0.05	0
5	31	0.35	0	0
6	1	0.63	0	0
6	2	0.48	0.03	0
6	3	0.3	0.05	0
6	4	0.2	0	0
6	5	0.08	0	0
6	6	0	0	0
6	7	0	0	0
6	8	0	0	0
6	9	0	0	0
6	10	0	0	0
6	11	0	0	0
6	12	0	0	0
6	13	0.03	0	0
6	14	0	0	0
6	15	0	0	0
6	16	0	0	0
6	17	0	0	0
6	18	0	0	0
6	19	0	0	0
6	20	0	0	0

Normal Heating Degree Days  
For use in WNAR Calculations

GR-2024-0106  
Amended Schedule C

6	21	0	0	0
6	22	0	0	0
6	23	0	0	0
6	24	0	0	0
6	25	0	0	0
6	26	0	0	0
6	27	0	0	0
6	28	0	0	0
6	29	0	0	0
6	30	0	0	0
7	1	0	0	0
7	2	0	0	0
7	3	0	0	0
7	4	0	0	0
7	5	0	0	0
7	6	0	0	0
7	7	0	0	0
7	8	0	0	0
7	9	0	0	0
7	10	0	0	0
7	11	0	0	0
7	12	0	0	0
7	13	0	0	0
7	14	0	0	0
7	15	0	0	0
7	16	0	0	0
7	17	0	0	0
7	18	0	0	0
7	19	0	0	0
7	20	0	0	0
7	21	0	0	0
7	22	0	0	0
7	23	0	0	0
7	24	0	0	0
7	25	0.03	0	0
7	26	0	0	0
7	27	0	0	0
7	28	0	0	0
7	29	0	0	0
7	30	0	0	0
7	31	0	0	0
8	1	0	0	0
8	2	0	0	0
8	3	0	0	0

Normal Heating Degree Days  
For use in WNAR Calculations

GR-2024-0106  
Amended Schedule C

8	4	0	0	0
8	5	0	0	0
8	6	0	0	0
8	7	0.03	0	0
8	8	0	0	0
8	9	0	0	0
8	10	0	0	0
8	11	0.03	0	0
8	12	0.2	0	0
8	13	0.23	0	0
8	14	0.18	0	0
8	15	0.08	0	0
8	16	0.03	0	0
8	17	0	0	0
8	18	0	0	0
8	19	0	0	0
8	20	0	0	0
8	21	0	0	0
8	22	0	0	0
8	23	0	0	0
8	24	0	0	0
8	25	0	0	0
8	26	0	0	0
8	27	0	0	0
8	28	0	0	0
8	29	0	0	0
8	30	0	0	0
8	31	0.13	0	0
9	1	0.03	0	0
9	2	0.05	0	0
9	3	0	0	0
9	4	0.03	0	0
9	5	0.03	0	0
9	6	0.3	0	0
9	7	0.45	0.05	0
9	8	0.15	0	0
9	9	0.3	0	0
9	10	0	0	0
9	11	0.1	0	0
9	12	0.68	0.1	0
9	13	0.93	0.23	0
9	14	0.58	0.05	0
9	15	0.76	0.18	0
9	16	0.83	0.03	0



Normal Heating Degree Days  
For use in WNAR Calculations

GR-2024-0106  
Amended Schedule C

9	17	0.6	0.15	0
9	18	0.6	0.08	0
9	19	1.43	0.4	0
9	20	1.28	0.48	0.1
9	21	0.85	0.08	0
9	22	1.25	0.03	0
9	23	1.98	0.55	0.1
9	24	1.15	0.28	0.03
9	25	1.2	0.28	0
9	26	1.15	0.08	0
9	27	1.48	0.18	0
9	28	2.93	0.98	0.18
9	29	4.3	2.08	0.38
9	30	3.38	0.9	0
10	1	3.63	1.25	0.3
10	2	4.95	2.5	0.98
10	3	5.08	2.48	0.55
10	4	5.08	2.58	1.15
10	5	5.08	2.55	0.7
10	6	4.08	1.85	0.58
10	7	3.55	1.7	0.5
10	8	4.7	2.2	0.83
10	9	3.93	1.48	0.45
10	10	4.25	1.93	0.68
10	11	5.78	3.08	0.95
10	12	6.03	3.08	1.58
10	13	7.05	3.73	1.4
10	14	7.65	3.93	1.48
10	15	6.85	3.28	1.1
10	16	9.93	5.63	2.28
10	17	10.15	6.33	3.33
10	18	9.63	6.13	2.98
10	19	10.25	6.08	2.88
10	20	8.98	4.43	1.85
10	21	7.78	4.08	1.78
10	22	8.13	4.5	1.85
10	23	8.43	4.9	2.33
10	24	9.9	6.18	3.53
10	25	10.35	6.4	3.23
10	26	10.5	6.15	2.83
10	27	12.6	8.1	4.35
10	28	13.65	9	5.15
10	29	14.03	9.53	5.38
10	30	10.65	7.15	4.15

Normal Heating Degree Days  
For use in WNAR Calculations

GR-2024-0106  
Amended Schedule C

10	31	11.55	7.2	3.93
11	1	13.65	9.4	5.73
11	2	12.98	8.8	5.23
11	3	12.43	8.03	4.5
11	4	11.15	7.25	3.73
11	5	12.63	8.35	4.95
11	6	15.08	10.08	5.5
11	7	15.4	10.78	6.68
11	8	14.2	9.95	6.28
11	9	14.6	10.23	6.48
11	10	14.83	10.3	6.65
11	11	15.9	11.13	7.03
11	12	19.85	14.85	10.43
11	13	22.3	17.55	13.1
11	14	20.68	15.93	11.18
11	15	19.65	14.65	10
11	16	20.25	15.25	10.45
11	17	19.03	14.55	10.83
11	18	20.48	15.48	11.13
11	19	20.58	15.65	10.9
11	20	20.45	15.6	11.08
11	21	19.93	14.93	9.95
11	22	19.95	15.35	10.9
11	23	21.1	16.1	11.13
11	24	21.3	16.3	11.3
11	25	22.03	17.03	12.03
11	26	22.45	17.45	12.75
11	27	22.05	17.05	12.28
11	28	23.15	18.15	13.23
11	29	21.15	16.28	11.53
11	30	21.75	16.75	11.8
12	1	24.83	19.93	15.3
12	2	23.7	18.88	14.13
12	3	23.43	18.65	13.9
12	4	23.73	18.73	14.18
12	5	26.53	21.53	16.55
12	6	26.65	21.65	16.68
12	7	28.95	23.95	19.1
12	8	29.05	24.05	19.05
12	9	26.28	21.28	16.4
12	10	28.55	23.78	19.03
12	11	26.03	21.03	16.28
12	12	26.33	21.58	16.83
12	13	25.48	20.65	15.9

Normal Heating Degree Days  
For use in WNAR Calculations

GR-2024-0106  
Amended Schedule C

12	14	24.25	19.25	14.25
12	15	25.86	20.96	16.21
12	16	27.2	22.2	17.2
12	17	27.88	22.88	18
12	18	28.6	23.6	18.6
12	19	27.93	22.93	17.93
12	20	26.83	21.83	16.95
12	21	25.33	20.33	15.45
12	22	26.6	21.6	16.6
12	23	27.58	22.58	17.73
12	24	29.18	24.18	19.4
12	25	28.65	23.68	18.93
12	26	25.88	20.95	16.55
12	27	25.25	20.38	15.8
12	28	25.45	20.45	15.7
12	29	25.95	20.95	16
12	30	25.23	20.23	15.23
12	31	24.53	19.53	15.08

Normal Heating Degree Days  
For use in WNAR Calculations

GR-2024-0106  
Amended Schedule C

Start Year 2003 STATION NAME  
End Year 2022 USW00003947 KANSAS CITY INTERNATIONAL AIRPORT, MO US

Month	Day	HDD65	HDD60	HDD55
1	1	36.98	31.98	26.98
1	2	37.05	32.05	27.08
1	3	35.1	30.1	25.1
1	4	35.6	30.6	25.6
1	5	36.5	31.5	26.5
1	6	37.88	32.88	27.88
1	7	34.7	29.7	24.7
1	8	33.58	28.58	23.58
1	9	34.35	29.35	24.35
1	10	35.1	30.1	25.1
1	11	31.35	26.35	21.35
1	12	35.95	30.95	25.95
1	13	37.78	32.78	27.78
1	14	34.78	29.78	24.78
1	15	37.95	32.95	28
1	16	37.75	32.75	27.75
1	17	38.13	33.13	28.13
1	18	34.28	29.28	24.28
1	19	35.05	30.05	25.05
1	20	36.85	31.85	26.85
1	21	36.23	31.23	26.23
1	22	35.75	30.75	25.75
1	23	37.53	32.53	27.53
1	24	35.08	30.08	25.08
1	25	34.13	29.13	24.13
1	26	33.53	28.53	23.53
1	27	33.63	28.63	23.63
1	28	32.13	27.15	22.45
1	29	33	28	23
1	30	35.1	30.1	25.1
1	31	32.03	27.03	22.03
2	1	33	28	23
2	2	34	29	24
2	3	34.8	29.8	24.98
2	4	36.05	31.05	26.05
2	5	37.3	32.3	27.3
2	6	34.28	29.28	24.28
2	7	36.53	31.53	26.53
2	8	38.43	33.43	28.43
2	9	37.13	32.13	27.13

Normal Heating Degree Days  
For use in WNAR Calculations

GR-2024-0106  
Amended Schedule C

2	10	36.2	31.2	26.3
2	11	35.65	30.65	25.75
2	12	38.03	33.03	28.03
2	13	34.35	29.35	24.35
2	14	32.58	27.58	22.58
2	15	35.75	30.75	25.75
2	16	34.65	29.65	24.65
2	17	29.98	25.03	20.48
2	18	30.4	25.4	20.63
2	19	29.65	24.68	20.13
2	20	27.58	22.7	18.05
2	21	29.45	24.45	19.58
2	22	30.08	25.1	20.35
2	23	30.3	25.3	20.3
2	24	32.58	27.58	22.58
2	25	33.43	28.43	23.43
2	26	31.98	26.98	21.98
2	27	29.5	24.5	19.5
2	28	26.13	21.13	16.33
2	29	17.8	12.8	7.8
3	1	26.8	22.03	17.38
3	2	29.15	24.4	19.65
3	3	28.35	23.35	18.35
3	4	24.5	19.5	14.78
3	5	24.05	19.3	14.65
3	6	22.15	17.33	13.08
3	7	21	16.25	11.88
3	8	21.23	16.4	12.38
3	9	20.8	16.05	11.3
3	10	21.2	16.25	11.7
3	11	21.55	16.58	11.95
3	12	19.58	14.6	10.13
3	13	19.05	14.38	10.18
3	14	17.48	12.9	8.65
3	15	16.9	12.28	8.18
3	16	17.73	13.4	9.35
3	17	16.23	12.33	8.83
3	18	17.08	12.4	7.9
3	19	17.48	13.08	8.88
3	20	17.8	13.23	8.95
3	21	17.15	12.5	8.65
3	22	16.33	11.75	8.13
3	23	15	10.88	7.13
3	24	18.15	13.75	10

Normal Heating Degree Days  
For use in WNAR Calculations

GR-2024-0106  
Amended Schedule C

3	25	18.4	14.05	9.88
3	26	17	12.75	8.58
3	27	17	12.6	8.6
3	28	16.3	11.83	7.58
3	29	13.5	9.38	5.68
3	30	12.5	8.63	5.18
3	31	14.38	9.95	6.4
4	1	16.23	12.23	8.53
4	2	13.05	8.93	5.45
4	3	12.7	8.6	5.23
4	4	15.08	10.73	6.7
4	5	12.83	8.65	5.03
4	6	10.95	7.33	4.65
4	7	14.18	10	6.7
4	8	14.15	10.1	6.43
4	9	12.73	8.68	5.38
4	10	10.68	7.1	4.08
4	11	11.48	7.25	4.38
4	12	11.83	8.33	5.35
4	13	11.85	8.43	5.28
4	14	11.63	8.2	5.25
4	15	10.88	7.38	4.58
4	16	9.13	5.73	3.35
4	17	9.7	5.95	3.5
4	18	9.25	5.58	3
4	19	9.93	5.95	3
4	20	9.43	5.48	2.73
4	21	7.48	3.9	1.38
4	22	7.95	4.18	1.4
4	23	7.25	4.3	2.08
4	24	6.63	3.25	1.48
4	25	8.4	4.3	1.33
4	26	9.98	6.15	2.78
4	27	8.53	4.38	1.48
4	28	8	4.5	1.75
4	29	7.15	3.83	1.85
4	30	5.73	2.68	1.15
5	1	7.4	3.9	1.55
5	2	8.53	5.05	2.38
5	3	7.98	4.9	2.65
5	4	6.1	2.95	1
5	5	4.75	1.73	0.33
5	6	2.9	1.15	0.25
5	7	3.15	1.18	0.33

Normal Heating Degree Days  
For use in WNAR Calculations

GR-2024-0106  
Amended Schedule C

5	8	2.05	0.88	0.38
5	9	4.5	2.48	1.13
5	10	4.6	2.45	0.95
5	11	5.68	3.05	0.98
5	12	5.3	2.18	0.68
5	13	4.4	1.4	0.03
5	14	4.98	2.7	0.78
5	15	4.5	2.28	0.78
5	16	4.63	2.03	0.65
5	17	2.98	1.33	0.25
5	18	2.35	0.6	0
5	19	2.48	0.85	0.25
5	20	2.85	1.25	0.23
5	21	2.75	0.95	0
5	22	2	0.53	0
5	23	1.25	0.2	0
5	24	1.35	0.28	0
5	25	1.03	0	0
5	26	0.95	0.1	0
5	27	0.93	0.18	0
5	28	0.93	0.23	0
5	29	0.38	0.08	0
5	30	0.68	0.15	0
5	31	0.73	0.13	0
6	1	1.03	0.2	0
6	2	0.78	0.25	0
6	3	0.63	0.13	0
6	4	0.25	0	0
6	5	0.08	0	0
6	6	0.03	0	0
6	7	0.28	0	0
6	8	0.15	0	0
6	9	0.23	0	0
6	10	0.03	0	0
6	11	0	0	0
6	12	0.03	0	0
6	13	0.08	0	0
6	14	0	0	0
6	15	0	0	0
6	16	0	0	0
6	17	0	0	0
6	18	0	0	0
6	19	0.1	0	0
6	20	0	0	0

Normal Heating Degree Days  
For use in WNAR Calculations

GR-2024-0106  
Amended Schedule C

6	21	0	0	0
6	22	0	0	0
6	23	0	0	0
6	24	0	0	0
6	25	0.15	0	0
6	26	0.08	0	0
6	27	0.05	0	0
6	28	0	0	0
6	29	0	0	0
6	30	0	0	0
7	1	0	0	0
7	2	0.08	0	0
7	3	0	0	0
7	4	0	0	0
7	5	0	0	0
7	6	0	0	0
7	7	0	0	0
7	8	0.1	0	0
7	9	0	0	0
7	10	0	0	0
7	11	0	0	0
7	12	0	0	0
7	13	0	0	0
7	14	0	0	0
7	15	0.05	0	0
7	16	0	0	0
7	17	0	0	0
7	18	0	0	0
7	19	0	0	0
7	20	0	0	0
7	21	0	0	0
7	22	0	0	0
7	23	0	0	0
7	24	0.03	0	0
7	25	0	0	0
7	26	0	0	0
7	27	0	0	0
7	28	0	0	0
7	29	0	0	0
7	30	0	0	0
7	31	0	0	0
8	1	0	0	0
8	2	0	0	0
8	3	0	0	0



Normal Heating Degree Days  
For use in WNAR Calculations

GR-2024-0106  
Amended Schedule C

8	4	0.05	0	0
8	5	0.2	0	0
8	6	0	0	0
8	7	0	0	0
8	8	0	0	0
8	9	0	0	0
8	10	0	0	0
8	11	0.08	0	0
8	12	0.18	0	0
8	13	0	0	0
8	14	0	0	0
8	15	0	0	0
8	16	0	0	0
8	17	0	0	0
8	18	0	0	0
8	19	0.08	0	0
8	20	0	0	0
8	21	0	0	0
8	22	0	0	0
8	23	0.03	0	0
8	24	0	0	0
8	25	0	0	0
8	26	0	0	0
8	27	0	0	0
8	28	0	0	0
8	29	0	0	0
8	30	0.23	0	0
8	31	0.13	0	0
9	1	0.03	0	0
9	2	0	0	0
9	3	0.25	0	0
9	4	0.33	0	0
9	5	0.63	0.05	0
9	6	0.68	0	0
9	7	0.35	0	0
9	8	1.08	0.23	0
9	9	1.15	0.55	0.18
9	10	0.75	0.28	0.03
9	11	1.03	0.3	0
9	12	1.38	0.6	0.35
9	13	1.13	0.5	0.25
9	14	1.45	0.33	0
9	15	2.38	1.03	0.4
9	16	1.5	0.43	0.08

Normal Heating Degree Days  
For use in WNAR Calculations

GR-2024-0106  
Amended Schedule C

9	17	0.5	0.13	0
9	18	1.25	0.18	0
9	19	1.35	0.45	0.08
9	20	0.88	0.15	0
9	21	0.73	0	0
9	22	2.15	0.2	0
9	23	1.73	0.3	0.05
9	24	0.85	0.08	0
9	25	1.8	0.48	0.03
9	26	1.95	0.5	0
9	27	1.83	0.48	0
9	28	3.48	1.15	0.18
9	29	4.38	1.55	0.4
9	30	2.9	0.78	0.38
10	1	3.35	1.35	0.2
10	2	5.3	2.75	0.93
10	3	5.13	2.53	0.93
10	4	5.75	3.13	1.05
10	5	4.23	2	0.73
10	6	5	2.73	1.45
10	7	6.03	3.43	1.53
10	8	4.9	2.68	1.05
10	9	4.4	1.7	0.5
10	10	7.25	4.18	1.83
10	11	8.6	5.43	3.05
10	12	8.58	4.85	2.2
10	13	8.93	4.85	2.23
10	14	8.2	4.38	1.98
10	15	10.38	5.95	2.35
10	16	10.45	6.43	3.2
10	17	9.93	5.63	2.68
10	18	11.15	6.93	3.85
10	19	9.88	5.98	3.4
10	20	8.43	4.7	1.95
10	21	9.4	5.68	2.98
10	22	9.08	5.68	3
10	23	10.8	7.1	4.3
10	24	11.75	7.85	4.83
10	25	12.83	8.73	4.9
10	26	14.65	10.18	6.03
10	27	15.73	11.05	6.73
10	28	15.03	10.53	6.35
10	29	13.05	8.6	4.95
10	30	11.75	6.95	3.85

Normal Heating Degree Days  
For use in WNAR Calculations

GR-2024-0106  
Amended Schedule C

10	31	15.95	11.3	7.1
11	1	14.33	9.98	6.38
11	2	13.7	9.3	5.58
11	3	12.6	8.58	5.33
11	4	13.3	8.78	5.1
11	5	15	10.28	6.23
11	6	16.25	11.48	7.2
11	7	16.13	11.55	7.78
11	8	15.4	11.28	7.85
11	9	14.13	10	6.68
11	10	16.83	12.08	7.65
11	11	20.18	15.4	11.03
11	12	24.63	19.88	15.23
11	13	23.8	18.83	14.25
11	14	20.4	15.4	10.4
11	15	21.93	16.93	11.93
11	16	21.1	16.1	11.85
11	17	20.3	15.8	11.48
11	18	23.08	18.08	13.23
11	19	19.83	15.33	10.9
11	20	21.3	16.3	11.7
11	21	22.63	17.63	12.63
11	22	22.7	17.7	12.7
11	23	23	18	13
11	24	22.85	17.9	13.15
11	25	25	20	15.1
11	26	24.1	19.13	14.38
11	27	25.33	20.33	15.33
11	28	24.95	19.95	15.03
11	29	25.23	20.23	15.25
11	30	28.4	23.4	18.4
12	1	27.8	22.8	17.95
12	2	26.38	21.38	16.53
12	3	27.98	23	18.25
12	4	29.33	24.33	19.33
12	5	29.53	24.53	19.53
12	6	32.33	27.33	22.33
12	7	34.68	29.68	24.68
12	8	31.93	26.93	21.93
12	9	33.2	28.2	23.2
12	10	32.43	27.43	22.43
12	11	30.33	25.33	20.33
12	12	29.83	24.83	19.83
12	13	27.18	22.18	17.18

Normal Heating Degree Days  
For use in WNAR Calculations

GR-2024-0106  
Amended Schedule C

12	14	29.33	24.33	19.4
12	15	32.68	27.68	22.83
12	16	32.98	27.98	23
12	17	33.48	28.48	23.48
12	18	32.55	27.55	22.55
12	19	32.15	27.15	22.15
12	20	30.58	25.58	20.58
12	21	30.03	25.03	20.03
12	22	33.13	28.13	23.13
12	23	33.8	28.8	23.8
12	24	35.1	30.1	25.3
12	25	32.23	27.23	22.38
12	26	30.2	25.2	20.25
12	27	30	25	20
12	28	30.3	25.3	20.3
12	29	31.58	26.58	21.58
12	30	30.33	25.35	20.6
12	31	33.55	28.55	23.55

Liberty Utilities (Midstates Natural Gas) Corp.  
d/b/a Liberty Utilities or Liberty

FOR – All Areas

Name of Issuing Corporation

Community, Town or City

WEATHER NORMALIZATION ADJUSTMENT RIDER

For service prior to the effective date of this sheet

APPLICABILITY

The Weather Normalization Adjustment (“WNA”) Rider is applicable to each ccf of gas delivered under the terms of the residential and small general service (“SGS”) rate schedules of Liberty Utilities (Midstates Natural Gas) 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 Northeast and West District and the Southeast District will have separate 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:

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

Where:

- i = the applicable billing cycle month
- WNA<sub>i</sub> = Weather Normalization Adjustment
- j = the billing cycle
- NDD<sub>ij</sub> = the total normal heating degree days based upon Staff’s daily normal weather as determined in the most recent rate case.
- ADD<sub>ij</sub> = the total actual heating degree days, base 65° at the applicable weather station; Kirksville, MO as computed based on the Chillicothe station, as adjusted, for the Northeast and West Districts along with Cape Girardeau, MO for the Southeast district.

1. The following factors are to be used to increase the Chillicothe actual HDDs to Kirksville area due to the absence of a weather station in Kirksville:

Jan 2.89%	Mar 7.06%	May 28.83%	Jul 74.94%	Sep 30.93%	Nov 4.26%
Feb 3.98%	Apr 11.25%	Jun 67.18%	Aug 107.58%	Oct 11.14%	Dec 2.88%

C<sub>ij</sub> = the total number of customer charges charged in billing cycle j and billing month i  
= the applicable coefficient; 0.1125474 for the residential class and 0.2389388 for the SGS class in the Northeast and West district, and 0.1108690 for the residential class and 0.2371604 for the SGS class in the Southeast district.

1. Monthly WNA<sub>i</sub> = WNA<sub>i</sub> x Weighted Volumetric Rate (“WRVR”),
2. For the winter billing months (November through April) the Residential WRVR in the Northeast and West District shall be equal to the Residential Distribution Commodity rate established at the conclusion of each general rate case. For Case No. GR-2018-0013, the amount is \$0.33607. The Residential WRVR in the Northeast and West District for each of the summer billing months (May through October) shall be determined at the conclusion of each general rate case as the percentage of total residential customers whose usage ends in the first rate block multiplied by the volumetric rate of that block plus the percentage of total residential customers whose usage ends in the second rate block multiplied by the volumetric rate of that block. Currently effective summer WRVR’s are reflected in the table below:

Residential	May	Jun	Jul	Aug	Sep	Oct
<b>Summer WRVR</b>						
Pct First Block	59.4%	94.2%	97.8%	98.7%	98.2%	95.2%
1st 30 CCF	\$ 0.32935	\$ 0.32935	\$ 0.32935	\$ 0.32935	\$ 0.32935	\$ 0.32935
Over 30 CCF	\$ 0.38193	\$ 0.38193	\$ 0.38193	\$ 0.38193	\$ 0.38193	\$ 0.38193
Summer WRVR	\$ 0.35072	\$ 0.33239	\$ 0.33048	\$ 0.33004	\$ 0.33029	\$ 0.33187

ISSUED BY: Charlotte Emery ~~Sheri Richard~~  
name of officer

Sr. Director, Rates & Regulatory Affairs  
title

month day year  
Joplin, MO  
address

Liberty Utilities (Midstates Natural Gas) Corp.  
d/b/a Liberty Utilities or Liberty

FOR – All Areas

Name of Issuing Corporation

Community, Town or City

WEATHER NORMALIZATION ADJUSTMENT RIDER (CONT'D)

For service prior to the effective date of this sheet

For the Residential class in the Southeast District, the Residential WRVR shall be equal to the Residential Distribution Commodity rate established at the conclusion of each general rate case. For Case No. GR-2018-0013, the amount is \$0.24335.

For the SGS class, the SGS WRVR shall be equal to the SGS Distribution Commodity rate established at the conclusion of each general rate case. For Case No. GR-2018-0013, the SGS WRVR in the Northeast and West

District is \$0.14216, and in the Southeast District is \$0.08312.

3. The Current Semiannual WNA (“CSWNA”) shall be the sum of the billing cycle WNA for each of the six Monthly WNA<sub>i</sub> for the billing months in the applicable six month period divided by the annual volumetric billing determinates set for the residential rate class in the most recent rate case.

4. Semiannual Reconciliation Rate (“SRR”): Three (3) months prior to the end of the twelve (12) months of billing of each CSWNA, the over- or under-billing of the numerator of the CSWNA shall be calculated based on nine (9) months actual sales and three (3) months projected sales. 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 set for the residential rate class in the most recent rate case. Three (3) months prior to the end of the twelve (12) months of billing of each SRR, the over- or under-billing of the SRR shall be calculated based on nine (9) months actual sales and three (3) months projected sales. Any remaining over- or underbilling from the SRR shall be applied to the next SRR. The three (3) months projected sales associated with each CSWNA and SSR shall be trued-up with actuals upon calculation of the next applicable SSR.

5. The Company will make a semiannual rate filing with the Commission 30 days prior to the first effective day referenced in the CSWNA table to adjust the WNA Rider. Each CSWNA and SRR will remain in effect for twelve (12) months. The total WNA Rider rate shall be the sum of all effective CSWNAs and SRRs.

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, carrying costs, at a simple rate of interest equal to the prime bank lending rate (as published in The Wall Street Journal on the first business day of such month), minus two percentage points, shall be applied to the Company’s average beginning and ending monthly WNA balances. In no event shall the carrying cost rate be less than 0%. Corresponding interest income and expense amounts shall be recorded on a net cumulative basis for the WNA deferral period.

DATE OF ISSUE: December 2017, 2024 ~~September 18, 2020~~ DATE EFFECTIVE: January 8, 2025 ~~October 1, 2020~~

month day year

month day year

ISSUED BY: Charlotte Emery ~~Sheri Richard~~  
name of officer

Sr. Director, Rates & Regulatory Affairs  
title

Joplin, MO  
address



Liberty Utilities (Midstates Natural Gas) Corp.  
d/b/a Liberty Utilities or Liberty

FOR – All Areas

Name of Issuing Corporation

Community, Town or City

**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 general service (“SGS”) rate schedules of Liberty Utilities (Midstates Natural Gas) 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 Northeast and West District and the Southeast District will have separate 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:

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

Where:

- i = the applicable billing cycle month
- WNA<sub>i</sub> = Weather Normalization Adjustment
- j = the billing cycle
- n = the number of billing cycles
- NDD<sub>ij</sub> = the total normal heating degree days based upon daily normal weather as determined in the most recent rate case.
- ADD<sub>ij</sub> = the total actual heating degree days, base 65° for residential, base 60° for small general service at the applicable weather station; Kirksville, MO for the Northeast District, Kansas City, MO for the West District and Cape Girardeau, MO for the Southeast District.
- C<sub>ij</sub> = the total number of customer charges charged in billing cycle j and billing month i.
- β = the applicable weather coefficient as indicated in the table below:

District	Residential	SGS
Northeast	0.14109	0.36847
West	0.15092	0.37953
Southeast	0.14080	0.32963

- Monthly WNA<sub>i</sub> = WNA<sub>i</sub> x Volumetric Rate.
- The Volumetric Rate shall be equal to the Distribution Commodity established at the conclusion of each general rate case. For Case No. GR-2024-0106, the volumetric rates per Ccf are in the table below:

District	Residential	SGS
Northeast	\$0.44276	\$0.18594
West	\$0.44276	\$0.18594
Southeast	\$0.31279	\$0.10651

DATE OF ISSUE: December 17, 2024  
month day year

DATE EFFECTIVE: January 8, 2025  
month day year

ISSUED BY: Charlotte Emery  
name of officer

Sr. Director, Rates and Regulatory Affairs  
title

Joplin, Mo  
address

Liberty Utilities (Midstates Natural Gas) Corp.  
d/b/a Liberty Utilities or Liberty

FOR – All Areas

Name of Issuing Corporation

Community, Town or City

WEATHER NORMALIZATION ADJUSTMENT RIDER (CONT'D)

- 3. The Current Annual WNA (“CWNA”) shall be the sum of the billing cycle WNA for each of the twelve Monthly WNA<sub>i</sub> for the revenue months in the applicable twelve (12) month period divided by the annual volumetric billing determinates set for the residential rate class or the small general service class (whichever is applicable) in the most recent rate case.
- 4. Annual Reconciliation Rate (“ARR”): Three (3) months prior to the end of the twelve (12) months of billing of each CWNA, the over- or under-billing of the numerator of the CWNA shall be calculated based on nine (9) months actual sales and three (3) months projected sales. 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 set for the residential rate class in the most recent rate case. 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. Any remaining over- or underbilling from the ARR shall be applied to the next ARR. The three (3) months projected sales associated with each CWNA and ARR shall be trued-up with actuals upon calculation of the next applicable ARR.
- 5. The Company will make an annual rate filing with the Commission 30 days prior to the first effective day referenced in the CWNA table to adjust the WNA Rider. Each CWNA and ARR will remain in effect for twelve (12) months. The total WNA Rider rate shall be the sum of all effective CWNAs 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, carrying costs, at a simple rate of interest equal to the prime bank lending rate (as published in The Wall Street Journal on the first business day of such month) minus two percentage points, shall be applied to the Company’s average beginning and ending monthly WNA balances. In no event shall the carrying cost rate be less than 0%. Corresponding interest income and expense amounts shall be recorded on a net cumulative basis for the WNA deferral period.

DATE OF ISSUE: December 17, 2024  
month day year

DATE EFFECTIVE: January 8, 2025  
month day year

ISSUED BY: Charlotte Emery  
name of officer

Sr. Director, Rates and Regulatory Affairs  
title

Joplin, Mo  
address

Liberty Utilities (Midstates Natural Gas) Corp.  
 d/b/a Liberty Utilities or Liberty

FOR – All Areas

Name of Issuing Corporation

Community, Town or City

WEATHER NORMALIZATION ADJUSTMENT RIDER (CONT'D)
For service after January 7, 2025

Calculation of Current Weather Adjustment Rates for All Areas:

Residential Class

District		Northeast	West	Southeast
Sum of Monthly WNA	a	0	0	0
Rate Case Normalized Ccf	b	12,203,679	2,469,188	17,185,669
Current Annual WNA rate	c = a/b	\$0.00000	\$0.00000	\$0.00000
Annual Reconciliation Rate (ARR)	d	\$0.00000	\$0.00000	\$0.00000
WNA Rider Rate	e = c + d	\$0.00000	\$0.00000	\$0.00000

Small General Service Class

District		Northeast	West	Southeast
Sum of Monthly WNA	a	0	0	0
Rate Case Normalized Ccf	b	3,880,055	907,146	5,009,348
Current Annual WNA rate	c = a/b	\$0.00000	\$0.00000	\$0.00000
Annual Reconciliation Rate (ARR)	d	\$0.00000	\$0.00000	\$0.00000
WNA Rider Rate	e = c + d	\$0.00000	\$0.00000	\$0.00000

DATE OF ISSUE: December 17, 2024  
month day year

DATE EFFECTIVE: January 8, 2025  
month day year

ISSUED BY: Charlie Evans Director, Rates and Regulatory Affairs  
name of officer title

Joplin, MO  
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