TEXARKANA, TEXAS SERVICE AREA

Original Sheet No. 2-4.1/3

Replacing: Sheet No.

CenterPoint Energy Resources Corp.

d/b/a CenterPoint Energy Arkansas Gas

(Name of Company)

Kind of Service: Natural Gas Class of Service: Residential (RS-1)

and Small Commercial (SCS-1)

PART II - Rider Schedule No. 4

Title: WEATHER NORMALIZATION ADJUSTMENT (WNA) Effective: January 11, 2008

4. WEATHER NORMALIZATION ADJUSTMENT (WNA)

- 4.1. For bills rendered from November 1 through April 30 each year, the applicable margin rates for gas service to customers served under the applicable rate schedules shall be adjusted by a Weather Normalization Adjustment (WNA) to reflect much of the impact of heating degree day variations from normal levels which were used to set rates under the applicable rate schedules.
- 4.2. In order to calculate the total weather adjustment for the applicable billing cycle, a weather deviation is computed and multiplied by the applicable margin rate. A per Ccf WNA adjustment is calculated by dividing the total weather adjustment by the average Ccf usage per customer for all customers in each billing cycle, using the formula described below. The per Ccf adjustment for each applicable rate schedule is applied to customer's usage for the billing cycle. The WNA shall be separately identified on customer bills.

4.3. CALCULATION OF WEATHER NORMALIZATION ADJUSTMENT

4.3.1. The WNA is calculated as follows:

 $WNA_{i} = \underbrace{R_{\underline{i}}(DDF_{\underline{i}}(NDD - ADD))}_{AAU_{i}}$

Where: i = Any particular rate classification to which the WNA

is to be applied.

WNA = Weather Normalization Dollar Adjustment per Ccf

R = Applicable Margin Rate

DDF = Degree Day Factor associated with the applicable

rate schedule:

TEXARKANA, TEXAS SERVICE AREA

First Revised Sheet No. 2-4.2/3

Replacing: Original Sheet No. 2-4.2/3

CenterPoint Energy Resources Corp.

d/b/a CenterPoint Energy Arkansas Gas

(Name of Company)

Kind of Service: Natural Gas Class of Service: Residential (RS-1)

and Small Commercial (SCS-1)

PART II – Rider Schedule No. 4

Title: WEATHER NORMALIZATION ADJUSTMENT (WNA) Effective: September 1, 2017

Residential Service (RS-1) .1536 Small Commercial Sales (SCS-1) (SSO) .5921

NDD = Normal Degree Days during the billing cycle

ADD = Actual Degree Days during the billing cycle

AAU = Average Actual Usage per customer for each billing

cycle

4.4. DEFINITIONS

- 4.4.1. Normal Degree-days: The heating degree-days, which are based on a 30-year average ending June 30, 2015 as are shown on Attachment 1.
- 4.4.2. Actual Degree Days: The actual heating degree days as published by Weather Services Corporation, or any other nationally recognized third-party weather service.
- 4.4.3. Applicable Margin Rate:
 - 4.4.3.1. The Residential Service (RS-1). The RS-1 WNA marginal rate will use the marginal rate of the residential volumes that are in excess of 15 Ccf. The resulting WNA price will be applicable only to volumes in excess of 15 Ccf.
 - 4.4.3.2. The Small Commercial Sales Service (SCS-1) System Supply Option ("SSO"). The SCS-1 WNA marginal rate will use a weighted average marginal rate of the November April SCS-1 SSO volumes that are in excess of 78 Ccf. The mechanics will be to use the monthly bill frequencies to determine the volume in the 79-1,500 Ccf range, the volume in the 1,501-15,000 Ccf range, and the volume above the 15,000 Ccf range. The weighted average margin will be determined by applying the first block

TEXARKANA, TEXAS SERVICE AREA

First Revised Sheet No. 2-4.3/3

Replacing: Original Sheet No. 2-4.2/3

CenterPoint Energy Resources Corp.

d/b/a CenterPoint Energy Arkansas Gas

(Name of Company)

Kind of Service: Natural Gas Class of Service: Residential (RS-1)

and Small Commercial (SCS-1)

PART II – Rider Schedule No. 4

Title: WEATHER NORMALIZATION ADJUSTMENT (WNA) Effective: September 1, 2017

margin rate to the 79-1,500 Ccf volumes, the second block margin rate to the volumes in the 1,501-15,000 range, and the third block margin rate to the volumes in the range above 15,000 Ccf, summing those totals and dividing the results by the total volumes in those ranges. The resulting WNA price will only apply to volumes in excess of 78 Ccf.

4.5. <u>APPLICABLE RATE SCHEDULES</u>

Residential Firm Sales Service (RS-1)

Small Commercial Firm Sales Service (SCS-1) System Supply Option (SSO)

ATTACHMENT NO. 1 TO WNA TARIFF DAILY NORMAL HDDS FOR WNA BILLING FOR THE THIRTY YEAR PERIOD ENDED JUNE 30, 2015

HDD	17	18	18	19	19	19	20	20	20	20	7	7	7	7	22	22	22	22	23	23	23	23	23	23	54	54	54	54	54	54	54	668 685
Date	1-Dec	2-Dec	3-Dec	4-Dec	5-Dec	9-Dec	7-Dec	8-Dec	9-Dec	10-Dec	11-Dec	12-Dec	13-Dec	14-Dec	15-Dec	16-Dec	17-Dec	18-Dec	19-Dec	20-Dec	21-Dec	22-Dec	23-Dec	24-Dec	25-Dec	26-Dec	27-Dec	28-Dec	29-Dec	30-Dec	31-Dec	
НББ	œ	œ	œ	6	6	6	10	10	10	7	7	7	7	12	12	12	13	13	13	4	4	4	14	15	15	16	16	16	17	17		368
Date	1-Nov	2-Nov	3-Nov	4-Nov	5-Nov	6-Nov	7-Nov	8-Nov	9-Nov	10-Nov	11-Nov	12-Nov	13-Nov	14-Nov	15-Nov	16-Nov	17-Nov	18-Nov	19-Nov	20-Nov	21-Nov	22-Nov	23-Nov	24-Nov	25-Nov	26-Nov	27-Nov	28-Nov	29-Nov	30-Nov		
日	7	#; •	;t	t 2	t 2	t 2	t 2	t 2	77	.t	33	33	33	33	.t	t. 4	t. 4	t. 4	t 4	t 5	:t	:t	:t 22	:t	. 6	t 6	. 6	t 7	t 7	t 7	.t	121
Date	1-0ct	2-Oct	3-Oct	4-Oct	5-Oct	6-Oct	7-Oct	8-Oct	9-Oct	10-Oct	11-Oct	12-Oct	13-Oct	14-Oct	15-Oct	16-Oct	17-Oct	18-Oct	19-Oct	20-Oct	21-Oct	22-Oct	23-Oct	24-Oct	25-Oct	26-Oct	27-Oct	28-Oct	29-Oct	30-Oct	31-Oct	
HDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	_	_	_	_	_	_		9
Date	1-Sep	2-Sep	3-Sep	4-Sep	5-Sep	6-Sep	7-Sep	8-Sep	9-Sep	10-Sep	11-Sep	12-Sep	13-Sep	14-Sep	15-Sep	16-Sep	17-Sep	18-Sep	19-Sep	20-Sep	21-Sep	22-Sep	23-Sep	24-Sep	25-Sep	26-Sep	27-Sep	28-Sep	29-Sep	30-Sep		
HDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Date	1-Aug	2-Aug	3-Aug	4-Aug	5-Aug	6-Aug	7-Aug	8-Aug	9-Aug	10-Aug	11-Aug	12-Aug	13-Aug	14-Aug	15-Aug	16-Aug	17-Aug	18-Aug	19-Aug	20-Aug	21-Aug	22-Aug	23-Aug	24-Aug	25-Aug	26-Aug	27-Aug	28-Aug	29-Aug	30-Aug	31-Aug	
HDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Date	1-Jul	2-Jul	3-Jul	4-Jul	5-Jul	lnC-9	7-Jul	8-Jul	9-Jul	10-Jul	11-Jul	12-Jul	13-Jul	14-Jul	15-Jul	16-Jul	17-Jul	18-Jul	19-Jul	20-Jul	21-Jul	22-Jul	23-Jul	24-Jul	25-Jul	26-Jul	27-Jul	28-Jul	29-Jul	30-Jul	31-Jul	
HDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
Date	1-Jun	2-Jun	3-Jun	4-Jun	5-Jun	e-Jun	7-Jun	8-Jun	9-Jun	10-Jun	11-Jun	12-Jun	13-Jun	14-Jun	15-Jun	16-Jun	17-Jun	18-Jun	19-Jun	20-Jun	21-Jun	22-Jun	23-Jun	24-Jun	25-Jun	26-Jun	27-Jun	28-Jun	29-Jun	30-Jun		
HDD	7	7	7	7	_	_	_	_	_	_	_	_	_	_	_	_	_	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Date	1-May	2-May	3-Мау	4-Мау	5-Мау	6-Мау	7-Мау	8-Мау	9-Мау	10-May	11-May	12-May	13-May	14-May	15-May	16-May	17-May	18-May	19-May	20-May	21-May	22-May	23-May	24-May	25-May	26-May	27-May	28-May	29-May	30-May	31-May	
HDD	7	7	7	7	9	9	9	9	9	2	2	2	2	4	4	4	4	က	က	က	က	က				7		7	7	7		126
Date	1-Apr	2-Apr	3-Apr	4-Apr	5-Apr	6-Apr	7-Apr	8-Apr	9-Apr	10-Apr	11-Apr	12-Apr	13-Apr	14-Apr	15-Apr	16-Apr	17-Apr	18-Apr	19-Apr	20-Apr	21-Apr	22-Apr	23-Apr	24-Apr	25-Apr	26-Apr	27-Apr	28-Apr	29-Apr	30-Apr		
HDD	16	16	16	15	15	4	4	4	13	13	13	12	12	12	£	7	7	£	9	9	9	9	9	6	6	6	6	ဝ	œ	œ	œ	358
Date	1-Mar	2-Mar	3-Mar	4-Mar	5-Mar	6-Mar	7-Mar	8-Mar	9-Mar	10-Mar	11-Mar	12-Mar	13-Mar	14-Mar	15-Mar	16-Mar	17-Mar	18-Mar	19-Mar	20-Mar	21-Mar	22-Mar	23-Mar	24-Mar	25-Mar	26-Mar	27-Mar	28-Mar	29-Mar	30-Mar	31-Mar	
HDD	7	21	7	7	7	7	7	7	2	20	20	20	20	20	19	19	19	19	18	18	18	18	18	17	17	17	17	17	17			540 557
Date	1-Feb	2-Feb	3-Feb	4-Feb	5-Feb	6-Feb	7-Feb	8-Feb	9-Feb	10-Feb	11-Feb	12-Feb	13-Feb	14-Feb	15-Feb	16-Feb	17-Feb	18-Feb	19-Feb	20-Feb	21-Feb	22-Feb	23-Feb	24-Feb	25-Feb	26-Feb	27-Feb	28-Feb	29-Feb			
HDD	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	22	22	22	22	22	55	22	22	22	7	7	7	7	969
Date	1-Jan	2-Jan	3-Jan	4-Jan	5-Jan	6-Jan	7-Jan	8-Jan	9-Jan	10-Jan	11-Jan	12-Jan	13-Jan	14-Jan	15-Jan	16-Jan	17-Jan	18-Jan	19-Jan	20-Jan	21-Jan	22-Jan	23-Jan	24-Jan	25-Jan	26-Jan	27-Jan	28-Jan	29-Jan	30-Jan	31-Jan	Normal year Leap year