Union Electric Company

SCHEDULE OF RATES
FOR
ELECTRICITY

APPLYING TO ALL TERRITORY SERVED BY THE
COMPANY IN THE STATE OF MISSOURI.

DATE OF ISSUE  May 31, 2013
DATE EFFECTIVE June 30, 2013
ISSUED BY Warner L. Baxter, President & CEO, St. Louis, Missouri

FILED
Missouri Public
Service Commission
ET-2013-0546; JE-2013-0582
FOREWORD

This Schedule No. 6 was filed with the Public Service Commission of Missouri and became effective in Missouri on June 30, 2013, superseding prior Schedule No. 1 and Schedule No. 5.

This Schedule No. 6 is generally applicable in all of Company's authorized service areas in the State of Missouri.
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<td>MONITEAU COUNTY – NEW MADRID COUNTY</td>
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<td>RANDOLPH COUNTY – ST. LOUIS COUNTY</td>
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**MICROWAVE TOWERS**

- BAKERSVILLE SITE 49
- VALLEY RIDGE SITE 49

**TRANSMISSION**

- ST. FRANCOIS – NEW BOURBON 138 KV LINE ROUTE 50-51

- DESCRIPTION OF CAPE-WEDEKIND 2 161 KV REROUTE FOR PROCTER & GAMBLE PAPER PRODUCTS COMPANY PLANT EXPANSION 52
MISSOURI SERVICE AREAS

The areas listed below comprise the Service Area for the Company in the State of Missouri:

ADAIR COUNTY

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In the underscored Sections/U.S. Surveys above, Company’s right and obligation to serve in Adair County is limited by the terms of the Territorial Agreement between Company and Lewis County Electric Cooperative approved in Case No. EO-2000-630.
# MISSOURI SERVICE AREAS (Cont'd.)

## AUDRAIN COUNTY

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In the underscored Sections/U.S. Surveys above, Company’s right and obligation to serve in Audrain County is limited by the terms of the Territorial Agreements between Company and Boone Electric Cooperative approved in Case No. EO-99-267 and Callaway Electric Cooperative approved in Case No. EO-2002-458.
### MISSOURI SERVICE AREAS (Cont'd.)

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In the underscored Sections/U.S. Surveys above, Company’s right and obligation to serve in Boone County is limited by the terms of the Territorial Agreement between Company and Boone Electric Cooperative approved in Case No. EO-99-267.

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**DATE OF ISSUE** May 31, 2013  
**DATE EFFECTIVE** June 30, 2013  
**ISSUED BY** Warner L. Baxter  
**NAME OF OFFICER** President & CEO  
**ADDRESS** St. Louis, Missouri  
**FILED** Missouri Public Service Commission ET-2013-0546; JE-2013-0582
MISSOURI SERVICE AREAS (Cont'd.)

CALDWELL COUNTY

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*ΔIn certain Sections/U.S. Surveys above, Company’s right and obligation to serve in Caldwell County is limited by the terms of Territorial Agreements between Company and Farmers’ Electric Cooperative ("Farmers Agreement") approved in Case No. EO-98-511 and/or Platte-Clay Electric Cooperative, Inc. ("Platte-Clay Agreement"), approved in File No. EO-2017-0044. Those Sections/U.S. Surveys are marked as follows:

- Sections affected by Farmers Agreement are indicated with a single underline;
- Sections affected by Platte-Clay Agreement are indicated with a dashed underline; and
- Sections affected by both are indicated with a double underline.

* Indicates Change.
### MISSOURI SERVICE AREAS (Cont'd.)

#### CALLAWAY COUNTY

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∆In the underscored Sections/U.S. Surveys above, Company’s right and obligation to serve in Callaway County is limited by the terms of the Territorial Agreement between Company and Boone Electric Cooperative approved in Case No. EO-99-267 and the Territorial Agreement between Company and Callaway Electric Cooperative approved in Case No. EO-2002-458.
MISSOURI SERVICE AREAS (Cont'd.)

CAMDEN COUNTY

All of CAMDEN county which is north of the township line dividing Township 37 North and Township 38 North and east of the Range line dividing Range 17 West and Range 18 West, but excluding Section 31, and such portion of Section 32 as is west of Lake Road 5-27, both in Township 40 North, Range 17 West, and also excluding the incorporated municipality of Camdenton and such portion of the incorporated municipality of Linn Creek as is both south of the North Fork of Linn Creek and within the city limits of Linn Creek as it existed on March 11, 1987.

The Company's right and duty to serve retail electric customers is limited by a territorial agreement between it and Laclede Electric Cooperative approved in Case No. EO-95-151.

In Section 20 in Township 38N, Range 14W, the Company’s right and obligation to serve in Camden County is limited by the terms of the Territorial Agreement between Company and Gascosage Electric Cooperative as approved in Case No. EO-98-279 as amended by the First Amendment to the Territorial Agreement in Case No. EO-2002-178.

CAPE GIRARDEAU COUNTY

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**MISSOURI SERVICE AREAS (Cont'd.)**

**CAPE GIRARDEAU COUNTY (Cont'd.)**

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**INCLUDING THE CITY LIMITS OF CAPE GIRARDEAU**

**EXCLUDING THE CITY LIMITS OF JACKSON**
MISSOURI SERVICE AREAS (Cont'd.)

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ΔIn the underscored Sections/U.S. Surveys above, Company’s right and obligation to serve in Clark County is limited by the terms of the Territorial Agreement between Company and Lewis County Electric Cooperative approved in Case No. EO-2000-630.
Missouri Service Areas (Cont'd.)

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*ΔIn the dash-underlined Sections/U.S. Surveys above, Company’s right and obligation to serve in Clay and Clinton Counties is limited by the terms of the Territorial Agreement between Company and Platte-Clay Electric Cooperative, Inc. approved in File No. EO-2017-0044.

*Indicates Change.
MISSOURI SERVICE AREAS (Cont'd.)

**COLE COUNTY**

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### MISSOURI SERVICE AREAS (Cont'd.)

#### COOPER COUNTY

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ΔIn the underscored Sections/U.S. Surveys above, Company’s right and obligation to serve in Daviess County is limited by the terms of the Territorial Agreement between Company and Farmers’ Electric Cooperative approved in Case No. EO-98-511.
MISSOURI SERVICE AREAS (Cont'd.)

DEKALB COUNTY

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In the underscored Sections/U.S. Surveys above, Company’s right and obligation to serve in DeKalb County is limited by the terms of the Territorial Agreement between Company and Farmers’ Electric Cooperative approved in Case No. EO-98-511.

DUNKLIN COUNTY

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## MISSOURI SERVICE AREAS (Cont’d.)

### DUNKLIN COUNTY (Cont’d.)

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In the underscored Sections/U.S. Surveys above, Company’s right and obligation to serve in Dunklin County is limited by the terms of the Territorial Agreement between Company and Ozark Border Electric Cooperative approved in Case No. EO-99-599.

### FRANKLIN COUNTY

All of FRANKLIN COUNTY in its entirety.

### GASCONADE COUNTY

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MISSOURI SERVICE AREAS (Cont'd.)

GASCONADE COUNTY (Cont'd.)

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GENTRY COUNTY

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DATE OF ISSUE May 31, 2013
DATE EFFECTIVE June 30, 2013

ISSUED BY Warner L. Baxter
NAME OF OFFICER President & CEO
ADDRESS St. Louis, Missouri

FILED
Missouri Public Service Commission
ET-2013-0546; JE-2013-0582
MISSOURI SERVICE AREAS (Cont’d.)

HOWARD COUNTY

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ΔIn the underscored Sections/U.S. Surveys above, Company’s right and obligation to serve in Howard County is limited by the terms of the Territorial Agreement between Company and Boone Electric Cooperative approved in Case No. EO-99-267.
MISSOURI SERVICE AREAS (Cont'd.)

**IRON COUNTY**

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MISSOURI SERVICE AREAS (Cont'd.)

JEFFERSON COUNTY

All of JEFFERSON COUNTY in its entirety.

KNOX COUNTY

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ΔIn the underscored Sections/U.S. Surveys above, Company’s right and obligation to serve in Knox County is limited by the terms of the Territorial Agreement between Company and Lewis County Electric Cooperative approved in Case No. EO-2000-630.
MISSOURI SERVICE AREAS (Cont'd.)

LEWIS COUNTY

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In the underscored Sections/U.S. Surveys above, Company’s right and obligation to serve in Lewis County is limited by the terms of the Territorial Agreement between Company and Lewis County Electric Cooperative approved in Case No. EO-2000-630.
MISSOURI SERVICE AREA

LINCOLN COUNTY

All of LINCOLN COUNTY in its entirety provided, however, that in the underscored sections/U. S. Surveys listed below, Company’s right and obligation to serve in LINCOLN COUNTY is limited by the terms of the Second Territorial Agreement between Company and Cuivre River Electric Cooperative approved in Case No. EO-2002-1091.

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LINN COUNTY

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In the underscored Sections/U. S. Surveys above, Company’s right and obligation to serve in Linn County is limited by the terms of the Territorial Agreement between Company and Farmers’ Electric Cooperative approved in Case No. EO-98-511.
**MISSOURI SERVICE AREAS (Cont'd.)**

**LINN COUNTY (Cont'd.)**

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**LIVINGSTON COUNTY**

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ΔIn the underscored Sections/U.S. Surveys above, Company’s right and obligation to serve in Livingston County is limited by the terms of the Territorial Agreement between Company and Farmers’ Electric Cooperative approved in Case No. EO-98-511.
MISSOURI SERVICE AREAS (Cont'd.)

MADISON COUNTY

TOWNSHIP | RANGE | SECTIONS/U.S. SURVEYS
---|---|---
34 North | 5 East | 31
And the Townships of: Castor
Mine LaMotte
Polk

MARIES COUNTY

TOWNSHIP | RANGE | SECTIONS/U.S. SURVEYS
---|---|---
39 North | 9 West | Northern half of Section 2 lying west of the Gasconade River, Northern half of Sections 3, 4, 5, and 6.
39 North | 10 West | Northern half of Sections 1, 2, 3, and 4.
40 North | 7 West | 2, 3, 4, 5, 6, 8, Δ1, 7, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36
40 North | 8 West | 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 15, 16, 17, 18, 19, 20, 21, 28, 29, 30, 31, 32, 33, 34, 35, 36
40 North | 9 West | 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36
40 North | 10 West | 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36

Company also has the right to serve throughout Maries County pursuant to the case-
by-case addendum term of the territorial agreement between the Company and Gascosage Electric Cooperative as approved in Case No. EO-98-279.

In the underscored Sections/U.S. Surveys above, Company’s right and obligation to serve in Maries County is limited by the terms of the Territorial Agreement between Company and Intercounty Electric Cooperative approved in Case No. EO-2000-774.
MISSOURI SERVICE AREAS (Cont’d.)

MARIES COUNTY (Cont’d.)

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<tr>
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MARION COUNTY

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MILLER COUNTY

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ΔIn the underscored Sections/U.S. Surveys above, Company’s right and obligation to serve in Marion County is limited by the terms of the Territorial Agreement between Company and Lewis County Electric Cooperative approved in Case No. EO-2000-630.

ΔIn the underscored Section/U.S. Surveys above, the Company’s right and obligation to serve in Miller County is limited by the terms of the Territorial Agreement between Company and Gascosage Electric Cooperative as approved in Case No. EO-98-279, as amended by the First Amendment to the Territorial Agreement as approved in Case No. EO-2002-178.
**MISSOURI SERVICE AREAS (Cont'd.)**

**MILLER COUNTY (Cont'd.)**

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ΔIn the underscored Section/U.S. Surveys above, the Company’s right and obligation to serve in Miller County is limited by the terms of the Territorial Agreement between Company and Gascoigne Electric Cooperative as approved in Case No. EO-98-279, as amended by the First Amendment to the Territorial Agreement as approved in Case No. EO-2002-178.
MISSOURI SERVICE AREAS (Cont'd.)

MILLER COUNTY (Cont'd.)

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MISSISSIPPI COUNTY

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## MISSOURI SERVICE AREAS (Cont'd.)

### MONITEAU COUNTY

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### MONROE COUNTY

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### MISSOURI SERVICE AREAS (Cont'd.)

#### MONTGOMERY COUNTY

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<td>3, 4, 5, 6, 7, 8, 9, 10, 11, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36</td>
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<td>48 North</td>
<td>6 West</td>
<td>1, 12, 13, 14, 15, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, △31, 32, 33, 34, 35, 36</td>
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<td>49 North</td>
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<td>7, 8, 17, 18, 19, 20, 29, 30</td>
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<td>49 North</td>
<td>4 West</td>
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<td>49 North</td>
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</tbody>
</table>

△In the underscored Sections/U.S. Surveys above, Company’s right and obligation to serve in Montgomery County is limited by the terms of the Territorial Agreement between Company and Callaway Electric Cooperative approved in Case No. EO-2002-458.
MISSOURI SERVICE AREAS (Cont’d.)

MONTGOMERY COUNTY (Cont’d.)

<table>
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<td>5 West</td>
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MORGAN COUNTY

<table>
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<th>SECTIONS/U.S. SURVEYS</th>
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<tbody>
<tr>
<td>40 North</td>
<td>16 West</td>
<td>All that part of Sections 4, 5, 6, 7, 8, 9, 16, 17 &amp; 18 lying northeasterly of the following described line: Commencing at the Northwest corner of said Section 6; thence South along the West line of said Section 6 to the center line of the Gravois Branch of the Lake of the Ozarks and the point of beginning for this description; thence in a meandering southeasterly direction along the center line of said Gravois Branch to the center line of the Osage River (Lake of the Ozarks); thence easterly along the center line of said Lake of the Ozarks to a point of termination at the intersection of the Morgan-Miller County line.</td>
</tr>
<tr>
<td>40 North</td>
<td>17 West</td>
<td>All that part of Section 1 lying easterly of the following described line: Commencing at the Northeast corner of said Section 1; thence West along the North line of said Section 1 to the center line of the Gravois Branch of the Lake of the Ozarks and the point of beginning for this description; thence in a meandering southeasterly direction along the center line of said Gravois Branch to a point of termination on the East line of said Section 1.</td>
</tr>
<tr>
<td>41 North</td>
<td>16 West</td>
<td>4, 5, 6, 7, 8, 9, 16, 17, 18, 19, 20, 21, 28, 29, 30, 31, 32, 33</td>
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**MISSOURI SERVICE AREAS (Cont'd.)**

**MORGAN COUNTY (Cont'd.)**

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<td>41 North</td>
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<td>All that part of Sections 23, 24, 25, 26, 35 and 36 lying easterly of the following described line: Commencing at the Northeast corner of said Section 24; thence West along the North line of said Section 24 to the center line of a cove in the Indian Creek arm of the Lake of the Ozarks and the point of beginning for this description; thence in a southwesterly direction along the center line of said cove to the center line of the Indian Creek Branch of the Lake of the Ozarks; thence in a meandering southwesterly direction along the center line of the Indian Creek Branch of the Lake of the Ozarks to the center line of the Gravois Branch of the Lake of the Ozarks; thence in a meandering southeasterly direction along the center line of said Gravois Branch to a point of termination on the South line of said Section 36.</td>
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<td>42 North</td>
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<td>42 North</td>
<td>18 West</td>
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<td>43 North</td>
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MISSOURI SERVICE AREAS (Cont'd.)

MORGAN COUNTY (Cont'd.)

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<td>45 North</td>
<td>19 West</td>
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NEW MADRID COUNTY

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<td>11 East</td>
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<td>13 East</td>
<td>4, 5, 6</td>
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<td>10 East</td>
<td>13, 14, 15, 22, 23, 24, 25, 26, 27, 34, 35, 36, 31, 32, 33, 34, 35, 36</td>
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<td>21 North</td>
<td>11 East</td>
<td>7, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36</td>
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<td>21 North</td>
<td>12 East</td>
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<td>21 North</td>
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</table>

In the underscored Sections/U.S. Surveys above, Company’s right and obligation to serve in New Madrid County is limited by the terms of the Territorial Agreement between Company and Ozark Border Electric Cooperative approved in Case No. EO-99-999.
MISSOURI SERVICE AREAS (Cont’d.)

NEW MADRID COUNTY (Cont’d.)

<table>
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<td>13 East</td>
<td>1, 2, 3, 4, 10, 11, 12, 13, 14, 15, 22, 23, 24, 25, 26, 27, 33, 34, 35, 36, Surveys 28, 1106</td>
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<td>22 North</td>
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<td>6, 7, 18, 19, 29, 30, 31, 32, Surveys 172, 710, 698, 700, 1106, 1107, 1108, 1101</td>
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<td>23 North</td>
<td>10 East</td>
<td>23, 24, 25, 26, 35, 36</td>
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<td>11 East</td>
<td>22, 23, 24, 25, 26, 27, 31, 34, 36</td>
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<td>23 North</td>
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<tr>
<td>24 North</td>
<td>15 East</td>
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<td>26 North</td>
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<td>27, 28, 29, 30, 31, 32, 33, 34, Surveys 643, 1127, 39, 619, 55, 59</td>
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</table>

EXCLUDING THE CITY LIMITS OF NEW MADRID

DATE OF ISSUE: May 31, 2013
DATE EFFECTIVE: June 30, 2013

ISSUED BY: Warner L. Baxter
TITLE: President & CEO
ADDRESS: St. Louis, Missouri
### MISSOURI SERVICE AREAS (Cont’d.)

#### OSAGE COUNTY

<table>
<thead>
<tr>
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<th>RANGE</th>
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<tbody>
<tr>
<td>All of OSAGE COUNTY except for the following:</td>
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<tr>
<td>41 North</td>
<td>9 West</td>
<td>1, 12, 13</td>
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<td>42 North</td>
<td>9 West</td>
<td>25, 29, 30, 36</td>
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<tr>
<td>42 North</td>
<td>10 West</td>
<td>25, 26, 27, 28, 29, 30</td>
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<td>25, 26, 27, 28, 29</td>
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#### PEMISCOT COUNTY

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<td>All sections</td>
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<td>All sections and surveys</td>
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### MISSOURI SERVICE AREAS (Cont'd.)

#### PEMISCOT COUNTY (Cont'd.)

<table>
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#### PETTIS COUNTY

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#### PIKE COUNTY

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<tr>
<td>51 North</td>
<td>4 West</td>
<td>12, 13, 24, 25, 35, 36, all that part of Sections 26, 33, and 34 lying East of the center line of Missouri State Route No. 161</td>
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<td>2 East</td>
<td>3, 4, 5, 6, 7, 8, 9, 10, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 33, 34, 35, 36, and U.S. Survey 1737</td>
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<td>52 North</td>
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MISSOURI SERVICE AREAS (Cont'd.)

PIKE COUNTY (Cont'd.)

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MISSOURI SERVICE AREAS (Cont’d.)

PIKE COUNTY (Cont’d.)

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INCLUDING THE CITY LIMITS OF CLARKSVILLE

RALLS COUNTY

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### MISSOURI SERVICE AREAS (Cont'd.)

#### RANDOLPH COUNTY

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</table>

*In the underscored Sections/U.S. Surveys above, Company's right and obligation to serve in Randolph County is limited by the terms of the Territorial Agreement between Company and Boone Electric Cooperative approved in Case No. EO-99-267.*

**FILED**

Missouri Public Service Commission
ET-2013-0546; JE-2013-0582
MISSOURI SERVICE AREAS (Cont’d.)

RAY COUNTY

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*ΔIn certain Sections/U.S. Surveys above, Company’s right and obligation to serve in Ray County is limited by the terms of Territorial Agreements between Company and Farmers’ Electric Cooperative ("Farmers Agreement") approved in Case No. EO-98-511 and/or Platte-Clay Electric Cooperative, Inc. ("Platte-Clay Agreement"), approved in File No. EO-2017-0044. Those Sections/U.S. Surveys are marked as follows:

- Sections affected by Farmers Agreement are indicated with a single underline;
- Sections affected by Platte-Clay Agreement are indicated with a dashed underline; and
- Sections affected by both are indicated with a double underline.

*Indicates Change.


DATE OF ISSUE April 7, 2017 DATE EFFECTIVE May 7, 2017

ISSUED BY Michael Moehn NAME OF OFFICER President TITLE St. Louis, Missouri ADDRESS
MISSOURI SERVICE AREAS (Cont’d.)

REYNOLDS COUNTY

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ST. CHARLES COUNTY

All of ST. CHARLES COUNTY in its entirety, except such portion of the city of Lake Saint Louis as is within the city limits of the city as it existed on April 21, 1986.

ST. FRANCOIS COUNTY

All of ST. FRANCOIS COUNTY in its entirety.

STE. GENEVIEVE COUNTY

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△In the underscored Sections/U.S. Surveys above, Company’s right and duty to serve is limited by a territorial agreement between it and Black River Electric Cooperative during the transition period and for case-by-case exemptions as approved in Case No. EO-95-400.
Incorporated Communities:

Ballwin                      Flordell Hills       Peerless Park
Bella Villa                 Florissant           Pine Lawn
Bellefontaine Neighbors     Frontenac           Richmond Heights
Bellerive                   Glendale            Riverview
Bel-Nor                     Glen Echo Park       Rock Hill
Bel-Ridge                   Grantwood Village    St. Ann
Berkeley                    Greendale           St. George
Beverly Hills               Hanley Hills         St. John
Black Jack                  Hazelwood            Shrewsbury
Breckenridge Hills          Hillsdale            Sunset Hills
Brentwood                   Huntleigh            Sycamore Hills
Bridgeton                   Jennings             Times Beach
Bridgeton Terrace           Kinloch              Town and Country
Calverton Park              Kirkwood             Twin Oaks
Champ                       Ladue                University City
Charlack                    Lakeshire            Uplands Park
Clarkson Valley             MacKenzie            Valley Park
Clayton                     Manchester           Velda Village
Cool Valley                 Maplewood           Velda Village Hills
Country Club Hills          Marlborough          Vinita Park
Country Life Acres          Moline Acres         Vinita Terrace
Crestwood                   Normandy            Warson Woods
Creve Coeur                 Northwoods           Webster Groves
Crystal Lake Park           Norwood Court        Wellston
Dellwood                    Oakland              Westwood
Des Peres                   Olivette             Wilbur Park
Edmundson                   Overland             Winchester
Ellisville                  Pacific              Woodson Terrace
Eureka                      Pagedale            
Fenton                      Pasadena Hills       
Ferguson                    Pasadena Park        

Townships:

Airport                     Gravois              Missouri River
Bonhomme                    Hadley               Normandy
Clayton                     Jefferson            Northwest
Concord                      Lemay               Queeny
Creve Coeur                 Lewis & Clark        St. Ferdinand
Ferguson                    Meramec              Spanish Lake
Florissant                  Midland              

DATE OF ISSUE: May 31, 2013     DATE EFFECTIVE: June 30, 2013

ISSUED BY: Warner L. Baxter
NAME OF OFFICER: President & CEO
ADDRESS: St. Louis, Missouri
MISSOURI SERVICE AREA

CITY OF ST. LOUIS

All of the CITY OF ST. LOUIS in its entirety.

SALINE COUNTY

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SCHUYLER COUNTY

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MISSOURI SERVICE AREAS (Cont’d.)

**SCOTLAND COUNTY**

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**SCOTT COUNTY**

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In the underscored Sections/U.S. Surveys above, Company’s right and obligation to serve in Scotland County is limited by the terms of the Territorial Agreement between Company and Lewis County Electric Cooperative approved in Case No. EO-2000-630.
MISSOURI SERVICE AREAS (Cont'd.)

SCOTT COUNTY (Cont'd.)

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INCLUDING THE CITY LIMITS OF MINER AND SCOTT CITY

STODDARD COUNTY

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*)In the underscored Sections/U.S. Surveys above, Company’s right and obligation to serve in Stoddard County is limited by the terms of the Territorial Agreement between Company and Ozark Border Electric Cooperative approved in Case No. EO-99-599.
MISSOURI SERVICE AREAS (Cont'd.)

STODDARD COUNTY (Cont'd.)

<table>
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<tr>
<th>TOWNSHIP</th>
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INCLUDING THE CITY LIMITS OF DEXTER

SULLIVAN COUNTY

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<td>64 North</td>
<td>18 West</td>
<td>32, 33, 34</td>
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</table>

In the underscored Sections/U.S. Surveys above, Company’s right and obligation to serve in Stoddard County is limited by the terms of the Territorial Agreement between Company and Ozark Border Electric Cooperative approved in Case No. EO-99-599.
WARREN COUNTY

All of WARREN COUNTY in its entirety provided, however, in the underscored Sections/U.S. Surveys listed below, Company’s right and obligation to serve in WARREN COUNTY is limited by the terms of the Territorial Agreement between Company and Callaway Electric Cooperative approved in Case No. EO-2002-458 and by the terms of the Second Territorial Agreement between Company and Cuivre River Electric Cooperative approved in Case No. EO-2002-1091.

TOWNSHIP  RANGE   SECTIONS/U.S. SURVEYS
46 North 1 West  2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 14, 15, 16, 17, 18
46 North 2 West  1, 11, 12, 13, 14
46 North 4 West  6, 7
47 North 1 West  1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 17, 18, 20, 21, 22, 23, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35
47 North 2 West  1, 12, 13, 25, 36
47 North 4 West  30, 31

WASHINGTON COUNTY

TOWNSHIP  RANGE   SECTIONS/U.S. SURVEYS
35 North 1 East  1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, Survey 3291
35 North 2 East  All land sections and surveys therein.
35 North 3 East  All land sections and surveys therein.
35 North 1 West  All land sections and surveys therein.
35 North 2 West  1, 12, 13
36 North 1 East  1, 2, 3, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, and Survey 3291, ∆4, 5, 6
36 North 2 East  All land sections and surveys therein.
36 North 3 East  All land sections and surveys therein.

In the underscored Sections/U.S. Surveys above, Company’s right and obligation to serve in Washington County is limited by the terms of the Territorial Agreement between Company and Crawford Electric Cooperative approved in Case No. EO-99-146.
### MISSOURI SERVICE AREAS (Cont’d.)

#### WASHINGTON COUNTY (Cont’d.)

<table>
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<tr>
<td>37 North</td>
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<td>All land sections and surveys therein.</td>
</tr>
<tr>
<td>37 North</td>
<td>3 East</td>
<td>All land sections and surveys therein.</td>
</tr>
<tr>
<td>37 North</td>
<td>1 West</td>
<td>1, 12, ∆All Other Sections Therein.</td>
</tr>
<tr>
<td>37 North</td>
<td>2 West</td>
<td>∆1, 12, 13, 24, 25, 36</td>
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<td>2 East</td>
<td>All land sections and surveys therein.</td>
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<td>All land sections and surveys therein.</td>
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<td>∆24, 25, 36</td>
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<td>1 East</td>
<td>13, 14, 23, 24, 25, 26, 34, 35, 36, ∆All Other Sections Therein.</td>
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</tr>
<tr>
<td>39 North</td>
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<td>All land sections and surveys therein.</td>
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<tr>
<td>39 North</td>
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<td>∆4, 5</td>
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<td>40 North</td>
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<td>∆All land sections and surveys therein.</td>
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<td>40 North</td>
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<td>15, 16, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, and all surveys therein, ∆All Other Sections Therein.</td>
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<tr>
<td>40 North</td>
<td>3 East</td>
<td>31</td>
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</table>

In the underscored Sections/U.S. Surveys above, the Company’s right and obligation to serve in Washington County is limited by the terms of the Territorial Agreement between Company and Crawford Electric Cooperative approved in Case No. EO-99-146.
MISSOURI SERVICE AREAS (Cont’d.)

MICROWAVE TOWERS

The areas listed below comprise additional Microwave tower sites for Company in the State of Missouri.

BAKERSVILLE SITE

A tract of land 355 feet by 350 feet located in the North 1/2 of the Southeast 1/4 of Section 3, Township 18 North, Range 10 East, described as follows:

Beginning at the point of intersection of the east right-of-way line of State Highway NN with the south line of said North 1/2 of the Southeast 1/4 of Section 3; thence east along said south line of the North 1/2 of the Southeast 1/4 of Section 3, 355 feet; thence north and perpendicular to the last line, 350 feet; thence west and parallel with said south line of the North 1/2 of the Southeast 1/4 of Section 3, 355 feet, more or less, to the east right-of-way line of Highway NN; thence south along said east Highway right-of-way line, 350 feet, more or less, to the point of beginning, containing 2.85 acres, more or less.

Grantor reserves the right to plant, cultivate, and harvest crops on the above described easement area; provided, however, such use shall not be inconsistent with the rights herein granted. Grantee shall be responsible for crop damages on the Easement Area resulting from the construction, operation, and maintenance of Grantee’s facilities and shall reimburse the property owner thereof for such loss or damage.

VALLEY RIDGE SITE

Commencing at the Northeast corner of the Northeast 1/4 of Section 23, Township 22 North, Range 9 East; thence South 124 rods; thence West 40 rods; thence North 250 feet to the point of beginning of the herein described Easement Area, said point also being the Northwest corner of property described in deed dated March 11, 1985, and recorded in Book 274, Page 400 of the Recorders Office of Dunklin County, Missouri; thence continuing North 325 feet; thence East 200 feet; thence South 325 feet; thence West 200 feet to the point of beginning, containing 1.5 acres more or less.

Together with an access road easement, fifteen (15) feet in width extending southerly from the above-described Easement Area across said property recorded in Book 274, Page 400, to the Northerly right-of-way line of County Road Number 206.
MISSOURI SERVICE AREAS (Cont’d.)

ST. FRANCOIS - NEW BOURBON

138 KV LINE ROUTE

Beginning at the Company’s St. Francois Substation located in the northwest corner of U.S. Survey 3062, Township 37 North, Range 5 East, St. Francois County, Missouri; thence in a southeasterly direction, parallel and adjoining the northerly line of Company’s existing Lutesville-St. Francois 345 kV transmission line through said U.S. Survey 3062 to the Ste. Genevieve County, Missouri line; thence continuing southeasterly and parallel with said existing 345 kV transmission line through Sections 8, 9, 15, 16, 21, to its intersection with the centerline of Section 22, all being in Township 37 North, Range 6 East, Ste. Genevieve County, Missouri; thence leaving the parallelism of said Lutesville-St. Francois 345 kV transmission line and proceeding east along the centerline of Sections 22, 23, and 24 to a point in the east line of Section 24, Township 37 North, Range 6 East, Ste. Genevieve County, Missouri, thence in a southeasterly direction to its intersection with Company’s existing Rivermines-Ste. Genevieve 138 kV transmission line in Section 19, Township 37 North, Range 7 East, Ste. Genevieve County, Missouri; thence in a northeasterly direction, parallel and adjoining said 138 kV transmission line to a point in the southwest quarter of the northwest quarter of Section 20, Township 37 North, Range 7 East, Ste. Genevieve County, Missouri; thence continuing parallel with said 138 kV transmission line easterly to a point in the southeast quarter of the northwest quarter of Section 18, Township 37 North, Range 8 East, Ste. Genevieve County, Missouri; thence continuing in a northeasterly direction, parallel and adjoining said 138 kV transmission line to a point in Lot 7 of U.S. Survey 3250, Township 37 North, Range 9 East, Ste. Genevieve County, Missouri; thence in a southeasterly direction, parallel and adjoining said Rivermines-Ste. Genevieve 138 kV line to the Citizens Electric Corporation New Bourbon Substation, located in U.S. Survey 287, Township 37 North, Range 9 East, Ste. Genevieve County, Missouri.
MISSOURI SERVICE AREAS (Cont'd.)
MISSOURI SERVICE AREA (Cont'd.)

Description of Cape-Wedekind 2 161 kV Reroute for Procter & Gamble Paper Products Company Plant Expansion

The location of the rerouted Company Cape-Wedekind 2 161 kV transmission line located in the Northeast Quarter of Section 5 and the Northwest Quarter of Section 4, Township 32 North, Range 14 East of the Fifth Principal Meridian, in Cape Girardeau County, Missouri is more particularly described as follows:

Beginning at the intersection of the existing centerline of Company’s Cape-Wedekind 2 161 kV transmission line with the centerline of Missouri State Highway 177 in said Northeast Quarter of Section 5; thence northeasterly along a bearing that crosses the centerline of relocated State Highway “J” approximately 500 feet north of its intersection with the centerline of State Highway 177, a distance of 1,000 feet, more or less, to a point; thence deflecting approximately 35 degrees to the left in a northeasterly direction a distance of 1,300 feet, more or less, to a point near the south right-of-way line of said relocated State Highway “J”; thence deflecting approximately 50 degrees to the right in an easterly direction south of and along said south right-of-way of relocated State Highway “J” a distance of 600 feet, more or less, to a point; thence deflecting approximately 20 degrees to the right in a southeasterly direction a distance of 700 feet, more or less, to a point; thence deflecting approximately 70 degrees to the right in a southerly direction a distance of 1,100 feet, more or less to the termination of said rerouted Cape-Wedekind 2 161 kV transmission line at the new Citizens Electric Corporation “Charmin Substation” located in the aforesaid Northwest Quarter of Section 4.
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### RATES

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<tr>
<td>RESIDENTIAL SERVICE</td>
<td>1 (M)</td>
<td>54</td>
</tr>
<tr>
<td>SMALL GENERAL SERVICE</td>
<td>2 (M)</td>
<td>55</td>
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<tr>
<td>LARGE GENERAL SERVICE</td>
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<td>56</td>
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<td>SMALL PRIMARY SERVICE</td>
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<tr>
<td>STREET &amp; OUTDOOR AREA LIGHTING - COMPANY-OWNED</td>
<td>5 (M)</td>
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<tr>
<td>STREET &amp; OUTDOOR AREA LIGHTING - CUSTOMER-OWNED</td>
<td>6 (M)</td>
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<td>LARGE PRIMARY SERVICE</td>
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<tr>
<td>LARGE TRANSMISSION SERVICE</td>
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### MISCELLANEOUS CHARGES

- 63

* Indicates Change.
## Service Classification No. 1 (M)

### Residential Service Rate

#### Summer Rate (Applicable during 4 monthly billing periods of June through September)
- **Customer Charge - per month**: $9.00
- **Low-Income Pilot Program Charge - per month**: $0.04
- **Energy Charge - per kWh**: 12.58¢
- **Energy Efficiency Program Charge - per kWh**: 0.03¢

#### Winter Rate (Applicable during 8 monthly billing periods of October through May)
- **Customer Charge - per month**: $9.00
- **Low-Income Pilot Program Charge - per month**: $0.04
- **Energy Charge - per kWh**
  - First 750 kWh: 8.76¢
  - Over 750 kWh: 6.00¢
- **Energy Efficiency Program Charge - per kWh**: 0.02¢

#### Optional Time-of-Day Rate (Pilot)
- **Customer Charge - per month**: $9.00
- **Low-Income Pilot Program Charge - per month**: $0.04
- **Energy Charge - per kWh (1)**
  - Summer (June-September billing periods)
    - All On Peak kWh: 31.50¢
    - All Off Peak kWh: 7.87¢
  - Winter (October-May billing periods)
    - First 750 kWh: 8.76¢
    - Over 750 kWh: 6.00¢
- **Energy Efficiency Program Charge - per kWh**
  - Summer (June-September billing periods): 0.03¢
  - Winter (October-May billing periods): 0.02¢

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(1) On-peak and Off-peak hours applicable herein are:
- **Peak hours**: 2:00 P.M. to 7:00 P.M., Monday through Friday.
- **Off-peak hours**: 7:00 P.M. of Monday through Thursday to 2:00 P.M. of the following day, and from 7:00 P.M. Friday to 2:00 P.M. Monday.

* Indicates Change.
SERVICE CLASSIFICATION NO. 1(M)
RESIDENTIAL SERVICE RATE (Cont’d.)

RATE BASED ON MONTHLY METER READINGS (Cont’d.)

Fuel and Purchased Power Adjustment (Rider FAC) Applicable to all metered kilowatt-hours (kWh) of energy.

Energy Efficiency Investment Charge (Rider EEIC) Applicable to all metered kilowatt-hours (kWh) of energy excluding kWh of energy supplied to customers that have satisfied the opt-out provisions or the low-income exemption provisions of Section 393.1075, RSMo.

*Renewable Energy Standard Rate Adjustment Mechanism (Rider RESRAM) Applicable to all metered kilowatt-hours (kWh) of energy.

Payments Bills are due and payable within twenty-one (21) days from date of bill and become delinquent thereafter.

Term of Use Initial period one (1) year, terminable thereafter on three (3) days' notice.

Tax Adjustment Any license, franchise, gross receipts, occupation or similar charge or tax levied by any taxing authority on the amounts billed hereunder will be so designated and added as a separate item to bills rendered to customers under the jurisdiction of the taxing authority.

* Indicates Addition.
1. **RATE APPLICATION**

This rate is applicable to all normal residential service supplied by the Company to individually metered residences and apartments consisting of one or more rooms for the use of one or more persons as a housekeeping unit with space for eating, living and sleeping, and permanent provisions for cooking and sanitation.

Additional service which may be provided under the provisions of this rate include any metered combination of residential and general farm service, or separately metered service related or incidental thereto, and individually metered mobile homes or boat slips intended for normal use by a single family.

All service referenced above shall be supplied, metered and billed in accordance with the provisions of paragraph (2.) herein.

2. **CHARACTER OF SERVICE SUPPLIED**

Company will specify and supply one standard single-phase and, for additional residential requirements, one three-phase secondary service voltage under this Service Classification, which service will be cumulated for billing purposes. Unless otherwise required for Company's engineering or other reasons, any additional service requested by customer will be provided, subject to the Company's approval, under the provisions of Section III.Q - Special Facilities. Such additional service, if any, supplied through facilities installed on and after May 5, 1990, will not be cumulated or otherwise combined for billing purposes with any other service supplied to customer.

3. **TEMPORARY SERVICE**

Temporary service requested for residential use will be supplied under the terms and conditions set forth under Rider D.

4. **OPTIONAL TIME-OF-DAY (TOD) SERVICE (PILOT)**

Applicable at customer's option for all Residential Service usage, subject to the following provisions:

a. Customer will be transferred to this TOD rate option effective with TOD meter installation and transferred from this TOD rate option to the applicable non-TOD rate after the meter is removed.
SERVICE CLASSIFICATION NO. 1(M)
RESIDENTIAL SERVICE RATE (Cont'd.)

*4. OPTIONAL TIME-OF-DAY (TOD) SERVICE (PILOT) (Cont'd.)

b. Any customer canceling this TOD option cannot thereafter resume billing under said option for a period of one year following the last billing period on the TOD option.

c. Premises with 120 volt 2-wire service, or meter locations which would make monthly meter readings unusually difficult to obtain, do not qualify for this TOD option.

**d. Participation shall be limited to 5,000 customers.

**e. Participation shall exclude customers with a net metering agreement.

**f. Service under the TOD option shall not be available after December 31, 2019.

5. RESIDENTIAL SERVICE RATE NOT APPLICABLE TO:

a. Service supplied through one meter (or more than one meter if the readings thereof are cumulated for billing purposes) to:

   (1) Premises which consist of one or more dwelling units and a commercial unit or

   (2) A residence or dwelling unit when any portion of such service is used in a commercial venture.

As used herein, the term "dwelling unit" shall mean that portion of a building which by appearance, design or arrangement is normally used for residential purposes by a single family, whether or not actually occupied, and the term "commercial unit" shall mean that portion of a building or premises which by appearance, design or arrangement is normally used for commercial purposes, whether or not actually so used.

b. Establishments in farming areas processing, distributing or selling farm or other products which do not originate through production on the premises served.

c. Separate buildings or other structures intended and/or used for recreational or group activities.

d. Nursing homes and/or retirement facilities licensed by the State of Missouri Department of Social Services Division of Aging.

e. Single-metered service supplied to multiple occupancy buildings for which a Commission variance, from the separate metering requirement contained in Section V.L. Rent Inclusion of the Company's rules and regulations, has been granted.

* Indicates Change. ** Indicates Addition.
SERVICE CLASSIFICATION NO. 1(M)
RESIDENTIAL SERVICE RATE (Cont’d.)

*6. GENERAL RULES AND REGULATIONS

In addition to the above specific rules and regulations, all of Company's General Rules and Regulations shall apply to the supply of service under this rate.

* Indicates Reissue.
FEDERAL TAX RATE REDUCTION

This bill line item is temporarily being added to allow the Company to pass the benefits of service cost reductions on to customers from the federal Tax Cuts and Jobs Act of 2017 ("TCJA") (Public Law 115-97) as required by Senate Bill 564.

The below flat rate will be applied as a credit to all metered kilowatt-hours (kWh) of energy to all 1M Customer Bills.

1M Residential Customer Federal Tax Rate Reduction $(0.00621)
**SERVICE CLASSIFICATION NO. 2(M)**

**SMALL GENERAL SERVICE RATE**

*Rate Based on Monthly Meter Readings*

**Summer Rate**  (Applicable during 4 monthly billing periods of June through September)

- Customer Charge - per month  
  - Single Phase Service  $11.19  
  - Three Phase Service  $21.38  
  - Limited Unmetered Service  $5.92  
- Low-Income Pilot Program Charge - per month  $ 0.05  
- Energy Charge - per kWh  11.20¢  
- Energy Efficiency Program Charge - per kWh (3)  0.01¢

**Winter Rate**  (Applicable during 8 monthly billing periods of October through May)

- Customer Charge - per month  
  - Single Phase Service  $11.19  
  - Three Phase Service  $21.38  
  - Limited Unmetered Service  $5.92  
- Low-Income Pilot Program Charge - per month  $ 0.05  
- Energy Charge - per kWh  
  - Base Use  8.36¢  
  - Seasonal Use(1)  4.82¢  
- Energy Efficiency Program Charge - per kWh (3)  0.01¢

**Optional Time-of-Day Rate**

- Customer Charge - per month  
  - Single Phase Service  $21.43  
  - Three Phase Service  $41.84  
  - Limited Unmetered Service  $5.92  
- Low-Income Pilot Program Charge - per month  $ 0.05  
- Energy Charge (2)  
  - Summer (June-September billing periods)  
    - All On Peak kWh  16.64¢  
    - All Off Peak kWh  6.78¢  
  - Winter (October-May billing periods)  
    - All On Peak kWh  10.96¢  
    - All Off Peak kWh  5.03¢  
- Energy Efficiency Program Charge - per kWh (3)  
  - Summer (June-September billing periods)  0.01¢  
  - Winter (October-May billing periods)  0.01¢

1. The winter seasonal energy use shall be all kWh in excess of 1,000 kWh per month and in excess of the lesser of a) the kWh use during the preceding May billing period, or b) October billing period, or c) the maximum monthly kWh use during any preceding summer month.

2. On-peak and Off-peak hours applicable herein shall be as specified in Rider I, paragraph A.

3. Not applicable to customers that have satisfied the opt-out provisions of Section 393.1075, RSMo.

* Indicates Change.

---

Issued pursuant to the Order of the Mo.P.S.C. in Case No. ER-2016-0179.

DATE OF ISSUE  March 8, 2017  DATE EFFECTIVE  April 7, 2017

FILED  Missouri Public Service Commission  ER-2016-0179; YE-2017-0173

April 1, 2017
SERVICE CLASSIFICATION NO. 2 (M)

SMALL GENERAL SERVICE RATE (Cont'd.)

RATE BASED ON MONTHLY METER READINGS (Cont'd.)

Fuel and Purchased Power Adjustment (Rider FAC) Applicable to all metered kilowatt-hours (kWh) of energy.

Energy Efficiency Investment Charge (Rider EEIC) Applicable to all metered kilowatt-hours (kWh) of energy excluding kWh of energy supplied to customers that have satisfied the opt-out provisions of Section 393.1075, RSMo.

*Renewable Energy Standard Rate Adjustment Mechanism (Rider RESRAM) Applicable to all metered kilowatt-hours (kWh) of Energy.

Payments Bills are due and payable within twenty-one (21) days from date of bill and become delinquent thereafter.

Term of Use One (1) year, terminable thereafter on three (3) days' notice.

Tax Adjustment Any license, franchise, gross receipts, occupation, or similar charge or tax levied by any taxing authority on the amounts billed hereunder will be so designated and added as a separate item to bills rendered to customers under the jurisdiction of the taxing authority.

* Indicates Addition.
1. **RATE APPLICATION**
   This rate is applicable to all secondary service supplied by the Company in Missouri for general use which does not qualify for any other secondary rate.

2. **CHARACTER OF SERVICE SUPPLIED**
   Company will specify and provide a standard single- and/or three-phase alternating current secondary service voltage.

3. **CUMULATION OF SERVICES**
   Service provided through multiple meters to the same customer on the same premises and cumulated for billing purposes under this Service Classification, prior to May 5, 1990, may continue to receive such billing. Unless otherwise required for Company's engineering or other reasons, any additional services installed at customer's request and agreed to by Company on and after May 5, 1990, will not be cumulated or otherwise combined for billing purposes with any other service supplied to customer.

4. **DEMAND METERS**
   When normal use of an existing customer or the estimated use of a new customer exceeds 25,000 kWh per month for two consecutive summer billing months, or Company has reason to believe that customer's summer demand exceeds 100 kW regardless of his kWh use, Company will install a demand meter for purposes of measuring customer's demand. Customer shall be transferred to the Company's Large General Service Rate 3(M) whenever customer's metered demand in any summer month exceeds 100 kW.

5. **CUSTOMERS WITHOUT PRIOR BILLING DETERMINANTS**
   Customers on this rate who did not have sufficient use during preceding billing periods to establish their Base use for the winter billing season will be billed entirely on the Base rate unless electric heating supplies the customer's entire space heating requirements, in which case one-half of all use in excess of 1,000 kWh will be billed on the Base rate and one-half on the Seasonal energy rate. In either event, after subsequent billing periods are completed, the customer's billing during the preceding winter will be reviewed using the Base use determined from the following May billing period and a refund given if appropriate.

6. **OPTIONAL TIME-OF-DAY (TOD) SERVICE**
   Applicable at customer's option for all Small General Service usage, subject to the following provisions:

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**DATE OF ISSUE** May 31, 2013  **DATE EFFECTIVE** June 30, 2013

**ISSUED BY** Warner L. Baxter, President & CEO  **ADDRESS** St. Louis, Missouri
6. **OPTIONAL TIME-OF-DAY (TOD) SERVICE (Cont’d.)**
   
   a. Customer will be transferred to this TOD rate option effective with TOD meter installation and transferred from this TOD rate option to the applicable non-TOD rate after the meter is removed.

   b. Customer electing this TOD option, shall remain on said option for a minimum period of twelve (12) months, provided however, that customer may discontinue this option within the first ninety (90) days thereunder subject to the continued payment of the TOD customer charge, in lieu of any other customer charge, for the full twelve (12) month term of this option.

   c. Any customer canceling this TOD option cannot thereafter resume billing under said option for a period of one year following the last billing period on the TOD option.

   d. Premises with 120 volt 2-wire service, or meter locations which would make monthly meter readings unusually difficult to obtain, do not qualify for this TOD option.

*7. **LIMITED UNMETERED SERVICE**

   Where service is required for electrical loads which are constant over a predetermined operating schedule and can be reasonably estimated by Company, Company may at its sole discretion waive the metering requirement for the limited types of load referred to herein. In such instances Company would calculate monthly billing for these loads under Service Classification No. 2(M). Additionally, all other provisions of Service Classification 2(M) shall apply to these loads. Service supplied under the provisions of this paragraph is limited to loads of 5 kVA or less at any one service delivery point.

**8. **GENERAL RULES AND REGULATIONS**

In addition to the above specific rules and regulations, all of Company's General Rules and Regulations shall apply to the supply of service under this rate.

---

* Indicates Addition. ** Indicates Reissue.
* FEDERAL TAX RATE REDUCTION

This bill line item is temporarily being added to allow the Company to pass the benefits of service cost reductions on to customers from the federal Tax Cuts and Jobs Act of 2017 ("TCJA") (Public Law 115-97) as required by Senate Bill 564.

The below flat rate will be applied as a credit to all metered kilowatt-hours (kWh) of energy to all 2M Customer Bills.

2M Small General Service Federal Tax Rate Reduction  $(0.00581)

* Indicates Change.
SERVICE CLASSIFICATION NO. 3 (M) LARGE GENERAL SERVICE RATE

*RATE BASED ON MONTHLY METER READINGS

Summer Rate (Applicable during 4 monthly billing periods of June through September)

- Customer Charge - per month $94.51
- Low-Income Pilot Program Charge - per month $0.56
- Energy Charge - per kWh
  - First 150 kWh per kW of Billing Demand 10.58¢
  - Next 200 kWh per kW of Billing Demand 7.96¢
  - All Over 350 kWh per kW of Billing Demand 5.35¢
- Demand Charge - per kW of Total Billing Demand $5.40
- Energy Efficiency Program Charge - per kWh (1) 0.03¢

Winter Rate (Applicable during 8 monthly billing periods of October through May)

- Customer Charge - per month $94.51
- Low-Income Pilot Program Charge - per month $0.56
- Base Energy Charge - per kWh
  - First 150 kWh per kW of Base Demand 6.65¢
  - Next 200 kWh per kW of Base Demand 4.94¢
  - All Over 350 kWh per kW of Base Demand 3.89¢
- Seasonal Energy Charge - Seasonal kWh 3.89¢
- Demand Charge - per kW of Total Billing Demand $2.00
- Energy Efficiency Program Charge - per kWh (1) 0.02¢

(1) Not applicable to customers that have satisfied the opt-out provisions of Section 393.1075, RSMo.

Optional Time-of-Day Adjustments

- Additional Customer Charge - per Month $21.08 per month
- Energy Adjustment - per kWh
  - On-Peak
    - Summer kWh (June-September billing periods) +1.25¢
    - Winter kWh (October-May billing periods) +0.38¢
  - Off-Peak
    - Summer kWh (June-September billing periods) -0.71¢
    - Winter kWh (October-May billing periods) -0.21¢

(2) On-peak and off-peak hours applicable herein shall be as specified in Rider I, paragraph A.

* Indicates Change.
SERVICE CLASSIFICATION NO. 3(M)
LARGE GENERAL SERVICE RATE (Cont’d.)

RATE BASED ON MONTHLY METER READINGS (Cont'd.)

Fuel and Purchased Power Adjustment (Rider FAC) Applicable to all metered kilowatt-hours (kWh) of energy.

Energy Efficiency Investment Charge (Rider EEIC) Applicable to all metered kilowatt-hours (kWh) of energy excluding kWh of energy supplied to customers that have satisfied the opt-out provisions of Section 393.1075, RSMo.

*Renewable Energy Standard Rate Adjustment Mechanism (Rider RESRAM) Applicable to all metered kilowatt-hours (kWh) of energy.

Payments Bills are due and payable within twenty-one (21) days from date of bill and become delinquent thereafter.

Term of Use One (1) year, terminable thereafter on three (3) days' notice.

Tax Adjustment Any license, franchise, gross receipts, occupation or similar charge or tax levied by any taxing authority on the amounts billed hereunder will be so designated and added as a separate item to bills rendered to customers under the jurisdiction of the taxing authority.

* Indicates Addition.
SERVICE CLASSIFICATION NO. 3(M)
LARGE GENERAL SERVICE RATE (Cont’d.)

1. RATE APPLICATION
This rate is applicable to all secondary service to (1) any non-residential customer whose billing demand in any summer month exceeds 100 kW, or (2) at customer's request, to any other non-residential customer.

2. CHARACTER OF SERVICE SUPPLIED
Company will specify and provide a standard single- and/or three-phase alternating current secondary service voltage.

3. ENERGY BILLING
The lesser of customer's maximum monthly metered demand or Rider I billing demand, if applicable, shall be used to apportion customer's kilowatt-hours to the kWh per kW energy rate steps for billing purposes. In addition, customer's proportion of Base and Seasonal Billing Demands, as defined in this rate, shall be used to initially apportion customer's kilowatt-hours to the Base and Seasonal Energy rate steps for billing purposes during the winter billing season.

4. DEMAND BILLING
   a. Total Billing Demand
      The monthly Total Billing Demand shall be the maximum metered demand during the current month or, where elected by customer, the billing demand determined in accordance with Rider I, Off-Peak Demand Provisions, but in no event less than 100 kW.
   
   b. Base Billing Demand
      The monthly Base Billing Demand, used only to apportion kilowatt-hours during the Company's winter billing season, shall be the Total Billing Demand during customer's immediately preceding May, October or maximum summer billing month, or customer's current winter month's Total Billing Demand, whichever is less.
   
   c. Seasonal Billing Demand
      The monthly Seasonal Billing Demand, used only to apportion kilowatt-hours during the Company's winter billing season, shall be the portion of customer's current month's Total Billing Demand in excess of customer's Base Billing Demand.
   
   d. Customers Without Prior Billing Determinants
      Customers on this rate who did not establish a billing demand during preceding billing periods shall have all kilowatt-hours billed on the Base Energy rate steps during the succeeding winter billing periods. After subsequent billing periods are completed, the customer's billing during the preceding winter will be reviewed using the Base Billing Demand determined from the following May billing period and a refund given if appropriate.
4. **DEMAND BILLING (Cont'd.)**
   
e. Demand Meters
   When normal use of an existing customer or the estimated use of a new customer exceeds 25,000 kWh per month for two consecutive summer billing months, or Company has reason to believe that customer's summer demand exceeds 100 kW regardless of his kWh use, Company will install a demand meter for purposes of measuring customer's demand.

5. **OPTIONAL TIME-OF-DAY (TOD) SERVICE**
   
   Applicable at customer's option for all Large General Service usage, subject to the following provisions:
   
a. Customer will be transferred to this TOD rate option effective with TOD meter installation and transferred from this TOD rate option to the applicable non-TOD rate after the meter is removed.
   
b. Customer electing this TOD option shall remain on said option for a minimum period of twelve (12) months, provided however, that customer may discontinue this option within the first ninety (90) days thereafter subject to the continued payment of the TOD customer charge, in lieu of any other customer charge, for the full twelve (12) month term of this option.
   
c. Any customer canceling this TOD option cannot thereafter resume billing under said option for a period of one year following the last billing period on the TOD option.

6. **CUMULATION OF SERVICES**
   
   Service provided through multiple meters to the same customer on the same premises and cumulated for billing purposes under this Service Classification, prior to May 5, 1990, may continue to receive such billing. Unless otherwise required for Company's engineering or other reasons, any additional services installed at customer's request and agreed to by Company on and after May 5, 1990, will not be cumulated or otherwise combined for billing purposes with any other service supplied to customer.

7. **GENERAL RULES AND REGULATIONS**
   
   In addition to the above specific rules and regulations, all of Company's General Rules and Regulations shall apply to the supply of service under this rate.

* Indicates Reissue.
SERVICE CLASSIFICATION NO. 3 (M) 
LARGE GENERAL SERVICE RATE (Cont’d.)

* FEDERAL TAX RATE REDUCTION

This bill line item is temporarily being added to allow the Company to pass the benefits of service cost reductions on to customers from the federal Tax Cuts and Jobs Act of 2017 ("TCJA") (Public Law 115-97) as required by Senate Bill 564.

The below flat rate will be applied as a credit to all metered kilowatt-hours (kWh) of energy to all 3M Customer Bills.

3M Large General Service Federal Tax Rate Reduction $ (0.00462)

* Indicates Change.
**SERVICE CLASSIFICATION NO. 4(M)**

**SMALL PRIMARY SERVICE RATE**

*RATE BASED ON MONTHLY METER READINGS*

**Summer Rate**  
(Applicable during 4 monthly billing periods of June through September)

- **Customer Charge** - per month: $323.82
- **Low-Income Pilot Program Charge** - per month: $0.56
- **Energy Charge** - per kWh:
  - First 150 kWh per kW of Billing Demand: 10.23¢
  - Next 200 kWh per kW of Billing Demand: 7.70¢
  - All Over 350 kWh per kW of Billing Demand: 5.16¢
- **Demand Charge** - per kW of Total Billing Demand: $4.66
- **Reactive Charge** - per kVar: 38.00¢
- **Energy Efficiency Program Charge** - per kWh (1): 0.03¢

**Winter Rate**  
(Applicable during 8 monthly billing periods of October through May)

- **Customer Charge** - per month: $323.82
- **Low-Income Pilot Program Charge** - per month: $0.56
- **Base Energy Charge** - per kWh:
  - First 150 kWh per kW of Base Demand: 6.44¢
  - Next 200 kWh per kW of Base Demand: 4.78¢
  - All Over 350 kWh per kW of Base Demand: 3.74¢
- **Seasonal Energy Charge** - Seasonal kWh: 3.74¢
- **Demand Charge** - per kW of Total Billing Demand: $1.69
- **Reactive Charge** - per kVar: 38.00¢
- **Energy Efficiency Program Charge** - per kWh (1): 0.02¢

(1) Not applicable to customers that have satisfied the opt-out provisions of Section 393.1075, RSMo.

Optional Time-of-Day Adjustments

<table>
<thead>
<tr>
<th>Additional Customer Charge</th>
<th>$21.08 per month</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy Adjustment - per kWh</td>
<td>On-Peak Hours(2)</td>
</tr>
<tr>
<td>Summer kWh (June-September billing periods)</td>
<td>+0.91¢</td>
</tr>
<tr>
<td>Winter kWh (October-May billing periods)</td>
<td>+0.34¢</td>
</tr>
</tbody>
</table>

(2) On-peak and Off-peak hours applicable herein shall be as specified within this service classification.

* Indicates Change.
UNION ELECTRIC COMPANY
ELECTRIC SERVICE

MO.P.S.C. SCHEDULE NO. 6 3rd Revised SHEET NO. 57.1
CANCELLING MO.P.S.C. SCHEDULE NO. 6 2nd Revised SHEET NO. 57.1

APPLYING TO
MISSOURI SERVICE AREA

SERVICE CLASSIFICATION NO. 4 (M)
SMALL PRIMARY SERVICE RATE (Cont'd.)

RATE BASED ON MONTHLY METER READINGS (Cont'd.)

Fuel and Purchased Power Adjustment (Rider FAC) Applicable to all metered kilowatt-hours (kWh) of energy.

Energy Efficiency Investment Charge (Rider EEIC) Applicable to all metered kilowatt-hours (kWh) of energy excluding kWh of energy supplied to customers that have satisfied the opt-out provisions of Section 393.1075, RSMo.

*Renewable Energy Standard Rate Adjustment Mechanism (Rider RESRAM) Applicable to all metered kilowatt-hours (kWh) of energy.

Payments Bills are due and payable within twenty-one (21) days from date of bill and become delinquent thereafter.

Term of Use One (1) year, terminable thereafter on three (3) days' notice.

Tax Adjustment Any license, franchise, gross receipts, occupation or similar charge or tax levied by any taxing authority on the amounts billed hereunder will be so designated and added as a separate item to bills rendered to customers under the jurisdiction of the taxing authority.

* Indicates Addition.

DATE OF ISSUE April 29, 2019
DATE EFFECTIVE May 29, 2019
ISSUED BY Michael Moehn President St. Louis, Missouri

FILED Missouri Public Service Commission JE-2019-0196
SERVICE CLASSIFICATION NO. 4 (M)
SMALL PRIMARY SERVICE RATE (Cont'd.)

1. RATE APPLICATION

This rate is applicable to primary service supplied by the Company in Missouri.

2. CHARACTER OF SERVICE SUPPLIED

Company will specify and supply a standard three-phase alternating current primary service voltage. Where Company supplies service at 34.5 kV or higher, the appropriate adjustments under Rider B will apply.

3. CUMULATION OF SERVICES

Service provided through multiple meters to the same customer on the same premises and cumulated for billing purposes under this Service Classification, prior to May 5, 1990, may continue to receive such billing. Unless otherwise required for Company's engineering or other reasons, any additional services installed at customer's request and agreed to by Company on and after May 5, 1990, will not be cumulated or otherwise combined for billing purposes with any other service supplied to customer.

4. ENERGY BILLING

The lesser of customer's maximum monthly metered demand or Total Billing Demand shall be used to apportion customer's kilowatt-hours to the kWh per kW energy rate steps for billing purposes. In addition, customer's proportion of Base and Seasonal Billing Demands, as defined in this rate, shall be used to initially apportion customer's kilowatt-hours to the Base and Seasonal Energy rate steps for billing purposes during the winter billing season.

5. DEMAND BILLING

a. Total Billing Demand

The monthly Billing Demand shall be the maximum demand established during peak hours or 50% of the maximum demand established during off-peak hours, whichever is greater, but in no event less than 100 kW.

Peak hours and off-peak hours are defined as follows:

Peak hours: 10:00 A.M. to 10:00 P.M., Monday through Friday.

Off-peak hours: All other hours including the entire 24 hours of the following days:

New Year's Day  Independence Day  Thanksgiving Friday
Good Friday  Labor Day  Christmas Eve Day
Memorial Day  Thanksgiving Day  Christmas Day

All times stated above apply to the local effective time.
5. **DEMAND BILLING (Cont'd.)**

   b. **Base Billing Demand**
   The monthly Base Billing Demand, used only to apportion kilowatt-hours during the Company's winter billing season, shall be the Total Billing Demand during customer's immediately preceding May, October or maximum summer billing month, or customer's current winter month's Total Billing Demand, whichever is less.

   c. **Seasonal Billing Demand**
   The monthly Seasonal Billing Demand, used only to apportion kilowatt-hours during the Company's winter billing season, shall be the portion of customer's current month's Total Billing Demand in excess of customer's Base Billing Demand.

   d. **Customers Without Prior Billing Determinants**
   Customers on this rate who did not establish a billing demand during preceding billing periods shall have all kilowatt-hours billed on the Base Energy rate steps during the succeeding winter billing periods. After subsequent billing periods are completed, the customer's billing during the preceding winter will be reviewed using the Base Billing Demand determined from the following May billing period and a refund given if appropriate.

   e. **Demand Meters**
   Company will install demand meters for the measurement of demands.

6. **REACTIVE CHARGE**

   The charge specified in this rate shall be applicable to the kilovars by which the customer's average metered kilovars exceed the customer's kilovars at an average power factor of 90% lagging during the billing period. Such average kilovar billing units shall be determined in accordance with the following formula:

   \[
   kVar = \left(\frac{kVarh}{kWh}\right) - 0.4843 \text{ (kW)}
   \]

   where:
   - \(kVar\) = kilovar billing units
   - \(kVarh\) = metered kilovar-hours
   - \(kWh\) = metered kilowatt-hours
   - \(kW\) = metered kilowatts
   - 0.4843 = kilovar requirement at 90% lagging power factor.
SERVICE CLASSIFICATION NO. 4 (M)
SMALL PRIMARY SERVICE RATE (Cont'd.)

6. REACTIVE CHARGE (Cont'd.)
   Where in the Company's judgment application of the above formula would not be appropriate to full or partial self-generation customers, an alternative agreement, between Company and customers, for the payment of reactive supply facilities may be substituted for said formula.

7. OPTIONAL TIME-OF-DAY (TOD) SERVICE
   Applicable at customer's option for all Small Primary Service usage, subject to the following provisions:
   a. Customer will be transferred to this TOD rate option effective with TOD meter installation and transferred from this TOD rate option to the applicable non-TOD rate after the meter is removed.
   b. Customer electing this TOD option, shall remain on said option for a minimum period of twelve (12) months, provided however, that customer may discontinue this option within the first ninety (90) days thereunder subject to the continued payment of the TOD customer charge, in lieu of any other customer charge, for the full twelve (12) month term of this option.
   c. Any customer canceling this TOD option cannot thereafter resume billing under said option for a period of one year following the last billing period on the TOD option.

8. GENERAL RULES AND REGULATIONS
   In addition to the above specific rules and regulations, all of Company's General Rules and Regulations shall apply to the supply of service under this rate.

* Indicates Reissue.
* FEDERAL TAX RATE REDUCTION

This bill line item is temporarily being added to allow the Company to pass the benefits of service cost reductions on to customers from the federal Tax Cuts and Jobs Act of 2017 ("TCJA") (Public Law 115-97) as required by Senate Bill 564.

The below flat rate will be applied as a credit to all metered kilowatt-hours (kWh) of energy to all 4M Customer Bills.

4M Small Primary Service Federal Tax Rate Reduction $0.00404

* Indicates Change.
SERVICE CLASSIFICATION NO. 5 (M)
STREET AND OUTDOOR AREA LIGHTING – COMPANY-OWNED

RATE PER UNIT PER MONTH LAMP AND FIXTURE

A. LED bracket mounted luminaire on existing wood pole:

<table>
<thead>
<tr>
<th>Identification</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>100W Equivalent (1)</td>
<td>$10.31</td>
</tr>
<tr>
<td>250W Equivalent (1)</td>
<td>$16.70</td>
</tr>
<tr>
<td>400W Equivalent (1)</td>
<td>$30.89</td>
</tr>
</tbody>
</table>

(1) The equivalent wattage represents the rating of the high pressure sodium lamp that the LED replaces.

* The Light Emitting Diode (LED) offerings under sections B. and C. below will be made available to customers beginning on or about July 1, 2017.

B. LED directional flood luminaire; limited to installations accessible to Company basket truck:

<table>
<thead>
<tr>
<th>Identification</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Directional - Small</td>
<td>$21.61</td>
</tr>
<tr>
<td>Directional - Medium</td>
<td>$34.69</td>
</tr>
<tr>
<td>Directional - Large</td>
<td>$69.13</td>
</tr>
</tbody>
</table>

** C. LED post-top luminaire including standard 17-foot post:

<table>
<thead>
<tr>
<th>Identification</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Styles</td>
<td>$22.59</td>
</tr>
</tbody>
</table>

The High Pressure Sodium and Mercury Vapor offerings under sections D. and E. below are no longer available. Company will replace these existing fixtures, upon failure, with an LED fixture under section A.

D. Standard horizontal burning, enclosed luminaire on existing wood pole:

<table>
<thead>
<tr>
<th>High Pressure Sodium</th>
<th>Rate</th>
<th>Mercury Vapor</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>9,500</td>
<td>$12.89</td>
<td>6,800</td>
<td>$12.89</td>
</tr>
<tr>
<td>25,500</td>
<td>$18.63</td>
<td>20,000</td>
<td>$18.63</td>
</tr>
<tr>
<td>50,000</td>
<td>$33.21</td>
<td>54,000</td>
<td>$33.21</td>
</tr>
</tbody>
</table>

E. Standard side mounted, hood with open bottom glassware on existing wood pole:

<table>
<thead>
<tr>
<th>High Pressure Sodium</th>
<th>Rate</th>
<th>Mercury Vapor</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>5,800</td>
<td>$10.44</td>
<td>3,300</td>
<td>$10.44</td>
</tr>
<tr>
<td>9,500</td>
<td>$11.41</td>
<td>6,800</td>
<td>$11.41</td>
</tr>
</tbody>
</table>

*Indicates Change. **Indicates Addition.
The High Pressure Sodium, Metal Halide and Mercury Vapor offerings under section F. below will only be available for new installations through on or about June 30, 2017. At that time, Company will replace these existing fixtures, upon failure, with an LED fixture under section B.

F. Pole-mounted, directional flood luminaire; limited to installations accessible to Company basket truck:

<table>
<thead>
<tr>
<th>Lumens</th>
<th>Rate</th>
<th>Lumens</th>
<th>Rate</th>
<th>Lumens</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>25,500</td>
<td>$23.65</td>
<td>34,000</td>
<td>$23.65</td>
<td>20,000</td>
<td>$23.65</td>
</tr>
<tr>
<td>50,000</td>
<td>$37.40</td>
<td>100,000</td>
<td>$74.76</td>
<td>54,000</td>
<td>$37.40</td>
</tr>
</tbody>
</table>

The High Pressure Sodium and Mercury Vapor offerings under sections G. below will only be available for new installations through on or about June 30, 2017.

* G. Standard post-top luminaire including standard 17-foot post:

<table>
<thead>
<tr>
<th>Lumens</th>
<th>Rate</th>
<th>Lumens</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>9,500</td>
<td>$23.65</td>
<td>3,300</td>
<td>$22.35</td>
</tr>
<tr>
<td>6,800</td>
<td>$23.65</td>
<td>6,800</td>
<td>$23.65</td>
</tr>
</tbody>
</table>

(1) Mercury Vapor lamps and fixtures are limited to customers served under contracts initiated prior to September 27, 1988. Company will continue to maintain these lamps and fixtures so long as parts are economically available.

* H. All poles and cable, where required to provide lighting service:

The installation of all standard poles and cables shall be paid for in advance by customer, with all subsequent replacements of said facilities provided by Company.

* I. Former Subsidiary Company lighting units provided under contracts initiated prior to April 9, 1986, which facilities will only be maintained by Company so long as parts are available in Company's present stock:

<table>
<thead>
<tr>
<th>Per Unit</th>
<th>Monthly Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>11,000 Lumens, Mercury Vapor, Open Bottom</td>
<td>$111.41</td>
</tr>
<tr>
<td>140,000 Lumens, H.P. Sodium, Directional</td>
<td>$74.76</td>
</tr>
</tbody>
</table>

Term of Contract Minimum term of three (3) years where only standard facilities are installed; ten (10) years where post-top luminaires are installed.

*Indicates Reissue.
SERVICE CLASSIFICATION NO. 5(M)

STREET AND OUTDOOR AREA LIGHTING – COMPANY-OWNED (Cont’d.)

*Discount for Franchised Municipal Customers  A 10% discount will be applied to bills rendered for lighting facilities served under the above rates and currently contracted for by municipalities with whom the Company has an ordinance granted electric franchise as of September 27, 1988. The above discount shall only apply for the duration of said franchise. Thereafter, the above discount shall apply only when the following two conditions are met: 1) any initial or subsequent ordinance granted electric franchise must be for a minimum term of twenty (20) years and 2) Company must have a contract for all lighting facilities for municipal lighting service provided by Company in effect.

*Payments  Bills are due and payable within twenty-one (21) days from date of bill and become delinquent thereafter.

Tax Adjustment  Any license, franchise, gross receipts, occupation or similar charge or tax levied by any taxing authority on the amounts billed hereunder will be so designated and added as a separate item to bills rendered to customers under the jurisdiction of the taxing authority.

*Indicates Reissue.
**SERVICE CLASSIFICATION NO. 5(M)**
**STREET AND OUTDOOR AREA LIGHTING - COMPANY-OWNED (Cont’d.)**

Fuel and Purchased Power Adjustment (Rider FAC) The kilowatt-hours for lighting service provided under the terms of this Service Classification shall be subject to the provisions of Company’s Fuel and Purchased Power Adjustment Clause (Rider FAC).

*Renewable Energy Standard Rate Adjustment Mechanism (Rider RESRAM) The kilowatt-hours for lighting service provided under the terms of this Service Classification shall be subject to the provisions of Company’s Renewable Energy Standard Rate Adjustment Mechanism (Rider RESRAM).

The kilowatt-hour consumption of each lamp, whose operating hours are determined by a photoelectric control, shall be determined from the manufacturer’s rated wattage multiplied by the number of hours of operation for the month, in accordance with the following schedules:

<table>
<thead>
<tr>
<th>High Pressure Sodium Fixtures</th>
<th>Rating (Watts)</th>
<th>Billing Month</th>
<th>Burning Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>5,800</td>
<td>70</td>
<td>December</td>
<td>417</td>
</tr>
<tr>
<td>9,500</td>
<td>120</td>
<td>November</td>
<td>387</td>
</tr>
<tr>
<td>16,000</td>
<td>202</td>
<td>October</td>
<td>368</td>
</tr>
<tr>
<td>25,500</td>
<td>307</td>
<td>September</td>
<td>298</td>
</tr>
<tr>
<td>50,000</td>
<td>482</td>
<td>August</td>
<td>255</td>
</tr>
<tr>
<td>140,000</td>
<td>1000</td>
<td>July</td>
<td>272</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mercury Vapor Fixtures</th>
<th>Rating (Watts)</th>
<th>Rating (Lumens)</th>
<th>Billing Month</th>
<th>Burning Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>3,300</td>
<td>127</td>
<td>3,300</td>
<td>December</td>
<td>54,000</td>
</tr>
<tr>
<td>6,800</td>
<td>207</td>
<td>6,800</td>
<td>November</td>
<td>108,000</td>
</tr>
<tr>
<td>11,000</td>
<td>294</td>
<td>11,000</td>
<td>October</td>
<td>42,000</td>
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<tr>
<td>20,000</td>
<td>455</td>
<td>20,000</td>
<td>September</td>
<td>20,000</td>
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<td>42,000</td>
<td>700</td>
<td>42,000</td>
<td>August</td>
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<tr>
<td>54,000</td>
<td>1080</td>
<td>54,000</td>
<td>July</td>
<td>54,000</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Metal Halide Fixtures</th>
<th>Rating (Watts)</th>
<th>Rating (Lumens)</th>
<th>Billing Month</th>
<th>Burning Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>34,000</td>
<td>450</td>
<td>34,000</td>
<td>December</td>
<td>34,000</td>
</tr>
<tr>
<td>100,000</td>
<td>1100</td>
<td>100,000</td>
<td>November</td>
<td>100,000</td>
</tr>
</tbody>
</table>

*Indicates Addition.
SERVICE CLASSIFICATION NO. 5(M)
STREET AND OUTDOOR AREA LIGHTING – COMPANY-OWNED (Cont’d.)

* 1. RATE APPLICATION
Available for lighting streets, alleys, walkways and other thoroughfares, or for outdoor lighting of public or private areas for security or similar purposes when such lighting facilities are operated and maintained as an extension of Company's distribution system.

* 2. CHARACTER OF SERVICE SUPPLIED
Company shall inventory, furnish, install, maintain and deliver electric service to automatically-controlled lighting fixtures currently offered as standard facilities by Company. Customer shall select the type and size of lamps and fixtures from the standard equipment inventoried and offered by the Company and shall specify the location of said fixtures. Other than service to Company's post-top fixtures, the service provided hereunder shall be supplied by lines or cables through fixtures supported by standard upsweep brackets attached to existing poles; however, certain non-standard facilities may be installed hereunder in accordance with the terms and conditions stated in the following paragraph 3.

* 3. NON-STANDARD FACILITIES
Whenever customer requires Company to install non-standard facilities hereunder (such as longer upsweep brackets, switches, protective barriers, etc.) and there is no engineering, construction, safety, legal or practical reason which would, in Company's judgment, make such non-standard installation inadvisable, Company will make such installation provided customer pays in advance to Company all costs in connection therewith. Subsequent replacements of said facilities will be provided by the Company.

* 4. CONVERSION OR MODIFICATION OF LAMPS
Where customer requests a conversion or modification of the size or type of lamp currently installed, and Company would not otherwise be converting such lights at that time, Company will make the requested changes, within the parameters described below, provided that customer pays in advance to the Company $100.00 per lamp for both the removal cost and loss of the remaining life of such lamps and, additionally, signs a new contract at the time when 20 percent or more of the customer's total lamps then installed are so converted or modified. Billing for the revised lamps will be prorated based on the removal and installation dates.

*Indicates Reissue.
SERVICE CLASSIFICATION NO. 5(M)
STREET AND OUTDOOR AREA LIGHTING – COMPANY-OWNED (Cont’d.)

* 4. CONVERSION OR MODIFICATION OF LAMPS (Cont’d.)

Company will convert to LED up to 1,000 lights per year requested by customers. Customer requests for LED lights will not be accepted prior to April 1, 2016 and will be limited to twenty-five (25) lights per customer account per calendar year. Customer requests must be in writing and, at a minimum, identify the specific physical location and billing account number and service date requested of each light. In the event Company determines it cannot accommodate all requests for conversions in the timeframes requested, prioritization of the requests will be at Company’s discretion.

* 5. CHANGE OR RELOCATION

Upon receipt of written request and authorization from customer, Company will, insofar as it may be practical and permissible, make any other change in or relocation of its facilities used in rendering service hereunder, provided customer pays in advance Company's estimated costs in connection therewith.

* 6. ADDITIONAL INSTALLATIONS

Customer may obtain the installation of additional lamps and the supply of service thereto under the existing contract for the remainder of the term thereof upon written application to the Company, provided, however, that if at any time during the term of the contract customer requires such additional lamps so as to cause the total number of lamps in service to exceed by 20% the lamps originally contracted for and then installed, the parties shall execute a new contract.

* 7. TERMINATION

If customer requests in writing the termination of all or a portion of any lighting service, not paid for in advance, within three years of the installation of the lamps being terminated, or within ten years of the installation of post top luminaires, wood poles or cable being terminated, customer shall pay in advance to Company $100.00 per lamp for both the removal costs associated therewith and the loss of the remaining life value of such facilities. If said request for termination of lighting service is made after the above three and ten year in-service periods, as applicable, and customer requests a new lighting installation within twelve months after the removal of the prior terminated lighting facilities, customer shall pay the amount specified earlier in this paragraph for all facilities previously removed prior to Company making any new lighting installation.

*Indicates Reissue.
SERVICE CLASSIFICATION NO. 5(M)

STREET AND OUTDOOR AREA LIGHTING – COMPANY-OWNED (Cont’d.)

* 8. GENERAL PROVISIONS

Customer shall furnish to Company without cost to Company and on forms suitable to it, or customer shall reimburse Company for all costs incurred in obtaining all rights, permits and easements necessary to permit the installation and maintenance of Company's facilities on, over, under and across both public and private property where and as needed by Company in providing service hereunder. In addition, customer shall pay all costs incurred by Company in extending its distribution system, including transformers, to provide energy to said lighting facilities supplied hereunder, in accordance with the provisions of Section III.Q - Special Facilities.

* 9. GENERAL RULES AND REGULATIONS

In addition to the above specific rules and regulations, all of Company's General Rules and Regulations shall apply to service supplied under this Service Classification.

*Indicates Reissue.
SERVICE CLASSIFICATION NO. 5 (M)
STREET AND OUTDOOR AREA LIGHTING – COMPANY-OWNED (Cont’d.)

FEDERAL TAX RATE REDUCTION

This bill line item is temporarily being added to allow the Company to pass the benefits of service cost reductions on to customers from the federal Tax Cuts and Jobs Act of 2017 ("TCJA") (Public Law 115-97) as required by Senate Bill 564.

The below flat rate will be applied as a credit per kilowatt-hour of lighting service to all 5M Customer Bills.

5M Company Owned Lighting Federal Tax Rate Reduction $(0.01701)
UNION ELECTRIC COMPANY
ELECTRIC SERVICE

MO.P.S.C. SCHEDULE NO. 6  4th Revised  SHEET NO. 59
CANCELLING MO.P.S.C. SCHEDULE NO. 6  3rd Revised  SHEET NO. 59

APPLYING TO
MISSOURI SERVICE AREA

SERVICE CLASSIFICATION NO. 6 (M)
STREET AND OUTDOOR AREA LIGHTING - CUSTOMER-OWNED

MONTHLY RATE FOR METERED SERVICE

| Customer Charge Per Meter | $6.97 per month |
|-----------------------------------------------------|
| Energy Charge | 4.72¢ per kWh |

RATE PER UNIT PER MONTH FOR UNMETERED SERVICE

<table>
<thead>
<tr>
<th>H.P. Sodium</th>
<th>Energy &amp; Maintenance (1)</th>
<th>Energy Only (2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9,500 Lumens, Standard</td>
<td>$3.80</td>
<td>$1.84</td>
</tr>
<tr>
<td>25,500 Lumens, Standard</td>
<td>$6.61</td>
<td>$4.70</td>
</tr>
<tr>
<td>50,000 Lumens, Standard</td>
<td>$9.54</td>
<td>$7.39</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Metal Halide</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>5,500 Lumens, Standard</td>
<td>$5.49</td>
</tr>
<tr>
<td>12,900 Lumens, Standard</td>
<td>$6.57</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mercury Vapor (3)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>3,300 Lumens, Standard</td>
<td>$3.80</td>
</tr>
<tr>
<td>6,800 Lumens, Standard</td>
<td>$4.94</td>
</tr>
<tr>
<td>11,000 Lumens, Standard</td>
<td>$6.69</td>
</tr>
<tr>
<td>20,000 Lumens, Standard</td>
<td>$8.87</td>
</tr>
<tr>
<td>54,000 Lumens, Standard</td>
<td>$18.93</td>
</tr>
</tbody>
</table>

Light Emitting Diodes (LED) | Energy Only

| Energy Charge - per rated wattage per month | 1.59¢ |

(1) Company will furnish electric energy, furnish and replace lamps, and adjust and replace control mechanisms, as required. In conjunction with the Company’s conversion of its Company-Owned lights to LED, Company anticipates eliminating 6(M) Energy & Maintenance service in the future but not prior to 6/1/2022. Customers remaining on Energy & Maintenance at that time will be transitioned to Energy Only service.

(2) Limited to lamps served under contracts initiated prior to September 27, 1988.

(3) Maintenance of lamps and fixtures limited to customers served under contracts prior to November 15, 1991. N/A Not Available.

Term of Contract One (1) year, terminable thereafter on three (3) days' notice.

Discount For Franchised Municipal Customers A 10% discount will be applied to bills rendered for lighting facilities served under the above rates and currently contracted for by municipalities with whom the Company has an ordinance granted electric franchise as of September 27, 1988. The above discount shall only apply for the duration of said franchise. Thereafter, the above discount shall apply only when the following two conditions are met: 1) any initial or subsequent ordinance granted electric franchise must be for a minimum term of twenty (20) years and 2) Company must have a contract for all lighting facilities for municipal lighting service provided by Company in effect.

DATE OF ISSUE  April 29, 2019  DATE EFFECTIVE  May 29, 2019

ISSUED BY  Michael Moehn  President  Missouri Public Service Commission  St. Louis, Missouri
UNION ELECTRIC COMPANY
ELECTRIC SERVICE

MO.P.S.C. SCHEDULE NO. 6
3rd Revised
3rd Revised
SHEET NO. 59.1
SHEET NO. 59.1

CANCELLING MO.P.S.C. SCHEDULE NO. 6
2nd Revised
2nd Revised
SHEET NO. 59.1
SHEET NO. 59.1

APPLYING TO
MISSOURI SERVICE AREA

SERVICE CLASSIFICATION NO. 6 (M)
STREET AND OUTDOOR AREA LIGHTING – CUSTOMER-OWNED (Cont’d.)

Fuel and Purchased Power Adjustment (Rider FAC) The kilowatt-hours for lighting service provided under the terms of this Service Classification shall be subject to the provisions of Company’s Fuel and Purchased Power Adjustment Clause (Rider FAC).

* Renewable Energy Standard Rate Adjustment Mechanism (Rider RESRAM) The kilowatt-hours for lighting service provided under the terms of this Service Classification shall be subject to the provisions of Company’s Renewable Energy Standard Rate Adjustment Mechanism (Rider RESRAM).

The kilowatt-hour consumption of each lamp, whose operating hours are determined by a photoelectric control, shall be determined from the manufacturer’s rated wattage multiplied by the number of hours of operation for the month, in accordance with the following schedules:

<table>
<thead>
<tr>
<th>Lamp Size</th>
<th>Rating</th>
<th>Billing</th>
<th>Burning</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Lumens)</td>
<td>(Watts)</td>
<td>Month</td>
<td>Hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>H. P. Sodium</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9,500</td>
<td>120</td>
<td>January</td>
<td>408</td>
</tr>
<tr>
<td>25,500</td>
<td>307</td>
<td>February</td>
<td>347</td>
</tr>
<tr>
<td>50,000</td>
<td>482</td>
<td>March</td>
<td>346</td>
</tr>
<tr>
<td>100,000</td>
<td>1025</td>
<td>April</td>
<td>301</td>
</tr>
<tr>
<td>150,000</td>
<td>1534</td>
<td>May</td>
<td>279</td>
</tr>
<tr>
<td>200,000</td>
<td>2043</td>
<td>June</td>
<td>255</td>
</tr>
<tr>
<td>250,000</td>
<td>2551</td>
<td>July</td>
<td>272</td>
</tr>
<tr>
<td>300,000</td>
<td>3059</td>
<td>August</td>
<td>298</td>
</tr>
<tr>
<td>350,000</td>
<td>3567</td>
<td>September</td>
<td>322</td>
</tr>
<tr>
<td>400,000</td>
<td>4075</td>
<td>October</td>
<td>368</td>
</tr>
<tr>
<td>450,000</td>
<td>4583</td>
<td>November</td>
<td>387</td>
</tr>
<tr>
<td>500,000</td>
<td>5090</td>
<td>December</td>
<td>417</td>
</tr>
</tbody>
</table>

Mercury Vapor

3,300  127  August  298
6,800  207  September 322
11,000 294  October 368
20,000 455  November 387
54,000 1080  December 417

Metal Halide

5,500  122
12,900 206

Light Emitting Diodes (LED)

Based on the rated wattage of individual customer lights.

Payments

Bills are due and payable within twenty-one (21) days from date of bill and become delinquent thereafter.

Tax Adjustment

Any license, franchise, gross receipts, occupation or similar charge or tax levied by any taxing authority on the amounts billed hereunder will be so designated and added as a separate item to bills rendered to customers under the jurisdiction of the taxing authority.

*Indicates Addition.
SERVICE CLASSIFICATION NO. 6 (M)
STREET AND OUTDOOR AREA LIGHTING – CUSTOMER-OWNED (Cont’d.)

1. RATE APPLICATION

Available for automatically controlled dusk-to-dawn lighting where customer furnishes, installs and owns all street and outdoor area lighting facilities. Lighting service provided under this Service Classification shall consist of metered service with all maintenance of such facilities provided by the customer, or unmetered service as provided for or limited by the rate section of this Classification. The metered service portion of this Classification is not available on an individual premises where all other electric service thereon is provided to an individual customer or entity. Any account billed under the provisions of the metered portion of this Classification on September 1, 1992 may continue to be billed under such provisions until alternative or replacement rates or tariff options are approved by the Commission.

2. CHARACTER OF SERVICE SUPPLIED

Company will specify and provide a standard single- and/or three-phase alternating current secondary service voltage. Where customer requires and Company supplies service at a primary service voltage, customer shall furnish all transformers necessary to transform such service to a secondary service voltage.

3. GENERAL PROVISIONS

a. Customer shall pay all costs incurred by Company in constructing any line extensions required in providing said lighting service to the point or points of delivery designated by Company, in accordance with the provisions of Section III - Special Facilities.

b. Where required, customer shall install suitable switching, protective equipment, meter loop, space and mounting facilities as determined by the Company.

c. All equipment owned and installed by customer shall be of a type acceptable to Company and shall be maintained by customer in a condition satisfactory to and approved by the appropriate electrical inspection authority.

d. Where required for connection to customer's lighting system, customer shall provide, without cost to Company, wire of sufficient length to reach a point specified by Company on Company's secondary distribution system and Company will make the required connection. Such wire may be removed by Company at any time after termination of service hereunder.
3. GENERAL PROVISIONS (Cont'd.)
   e. Customer shall furnish to Company, without cost to Company and on forms suitable to it, or customer shall reimburse Company for all costs incurred in obtaining all rights, permits and easements necessary to permit the installation and maintenance of Company's facilities on, over, under and across both public and private property where and as needed by Company in providing service hereunder.
   
f. Customer shall notify Company immediately if any changes are made in customer's installation.
   
g. Company may refuse to make the initial connection or may discontinue service to any installation if there is any engineering, construction, safety, legal or practical reason for doing so.
   
h. In case of destruction or damage of customer's property hereunder due to highway accidents, storm damage or other similar causes or where replacement of equipment other than as provided above is required, Company, upon receipt of either written or verbal instructions from customer, may at its option, effect the necessary repairs or replacement of the damaged equipment to place it in normal operating condition. Such repairs will be made with parts supplied by customer or, where applicable, with suitable standard items carried in Company stores. Customer shall reimburse Company for such work at the Company's current Productive man-hour rate including applicable overhead for all labor expended and 1.2 times all direct costs or charges incurred by Company for all materials and any related items. All charges and payments hereunder shall be in addition to the monthly charge for normal maintenance.
   
   *i. For unmetered service, Company shall have the right to verify or audit the type and/or rated wattage of lights installed.
   
* 4. LIMITED LED CONVERSION OPTION AND GRANDFATHERING PROVISION

Customer-owned horizontal enclosed or open bottom lights which were installed on Company distribution poles and billed under this Service Classification on or before April 1, 2017 are eligible for participation in a LED lighting conversion program.

If customer elects this LED conversion option, the Company will replace existing fixtures, upon failure of the bulb, and/or the lighting fixture or apparatus with an equivalent LED fixture. The Company will install, own and operate and maintain the LED fixture, mast, and wiring. Customer shall continue to receive service under this Service Classification 6(M) subject to being billed the following applicable monthly charges:

* Indicates Addition.
SERVICE CLASSIFICATION NO. 6 (M)
STREET AND OUTDOOR AREA LIGHTING – CUSTOMER-OWNED (Cont'd.)

* 4. LIMITED LED CONVERSION OPTION AND GRANDFATHERING PROVISION (Cont'd.)

The monthly unmetered energy-only 6(M) LED rate plus,
$2.76 per month for a 100 watt equivalent LED fixture;
$3.58 per month for a 250 watt equivalent LED fixture;
$6.32 per month for a 400 watt equivalent LED fixture.

In addition, all other applicable charges under this Service Classification 6(M) shall apply.

If customer requests, in writing, the termination of all or a portion of converted LEDs under this provision within ten years of the installation of the LED being terminated, customer shall pay in advance to Company $100.00 per fixture for both the removal costs associated therewith and the loss of the remaining life value of such facilities. If said request for termination is made after the above ten year in-service period, and customer requests a new lighting installation within twelve months after the removal of the prior terminated lighting facilities, customer shall pay the amount specified earlier in this paragraph for all facilities previously removed prior to Company making any new lighting installation.

** 5. GENERAL RULES AND REGULATIONS

In addition to the above specific rules and regulations, all of Company's General Rules and Regulations shall apply to service supplied under this Service Classification.

* Indicates Addition. ** Indicates Reissue.
SERVICE CLASSIFICATION NO. 6 (M)
STREET AND OUTDOOR AREA LIGHTING – CUSTOMER-OWNED (Cont’d.)

FEDERAL TAX RATE REDUCTION

This bill line item is temporarily being added to allow the Company to pass the benefits of service cost reductions on to customers from the federal Tax Cuts and Jobs Act of 2017 ("TCJA") (Public Law 115-97) as required by Senate Bill 564.

The below flat rate will be applied as a credit per kilowatt-hour of lighting service to all 6M Customer Bills.

6M Customer Owned Lighting Federal Tax Rate Reduction  $(0.00315)
**UNION ELECTRIC COMPANY**

**ELECTRIC SERVICE**

<table>
<thead>
<tr>
<th>MO.P.S.C. SCHEDULE NO.</th>
<th>6</th>
<th>SHEET NO.</th>
<th>60</th>
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<tbody>
<tr>
<td>CANCELLING MO.P.S.C. SCHEDULE NO.</td>
<td>6</td>
<td>Original</td>
<td>SHEET NO.</td>
</tr>
</tbody>
</table>

**APPLYING TO** MISSOURI SERVICE AREA

---

* THIS SHEET RESERVED FOR FUTURE USE.

---

* Indicates Change.

---

**Issued pursuant to the Order of the Mo.P.S.C. in Case No. ER-2014-0258.**

<table>
<thead>
<tr>
<th>DATE OF ISSUE</th>
<th>May 6, 2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>DATE EFFECTIVE</td>
<td>June 5, 2015</td>
</tr>
</tbody>
</table>

**ISSUED BY**

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>ADDRESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Michael Moehn</td>
<td>President</td>
<td>St. Louis, Missouri</td>
</tr>
<tr>
<td>MO.P.S.C. SCHEDULE NO.</td>
<td>6</td>
<td>SHEET NO.</td>
</tr>
<tr>
<td>-----------------------</td>
<td>---</td>
<td>-----------</td>
</tr>
<tr>
<td>CANCELLING MO.P.S.C. SCHEDULE NO.</td>
<td>6</td>
<td>SHEET NO.</td>
</tr>
</tbody>
</table>

**APPLYING TO**

**MISSOURI SERVICE AREA**

---

* THIS SHEET RESERVED FOR FUTURE USE.

---

* Indicates Change.

---

Issued pursuant to the Order of the Mo.P.S.C. in Case No. ER-2014-0258.

**DATE OF ISSUE** May 6, 2015

**DATE EFFECTIVE** June 5, 2015

**FILED**

Missouri Public Service Commission

ER-2014-0258; YE-2015-0325

May 30, 2015

---

**ISSUED BY**

Michael Moehn

**NAME OF OFFICER**

President

**TITLE**

St. Louis, Missouri

**ADDRESS**
UNION ELECTRIC COMPANY ELECTRIC SERVICE

MO.P.S.C. SCHEDULE NO. 6 1st Revised SHEET NO. 60.2
CANCELLING MO.P.S.C. SCHEDULE NO. 6 Original SHEET NO. 60.2

APPLYING TO MISSOURI SERVICE AREA

* THIS SHEET RESERVED FOR FUTURE USE.
UNION ELECTRIC COMPANY  ELECTRIC SERVICE

MO.P.S.C. SCHEDULE NO. 6  1st Revised  SHEET NO. 60.3
CANCELLING MO.P.S.C. SCHEDULE NO. 6  Original  SHEET NO. 60.3

APPLYING TO MISSOURI SERVICE AREA

* THIS SHEET RESERVED FOR FUTURE USE.

Issued pursuant to the Order of the Mo.P.S.C. in Case No. ER-2014-0258.

DATE OF ISSUE May 6, 2015
DATE EFFECTIVE June 5, 2015

Issued by Michael Moehn President
St. Louis, Missouri

FILED Missouri Public Service Commission
ER-2014-0258; YE-2015-0325
May 30, 2015
CANCELLING MO.P.S.C. SCHEDULE NO. 6

DATE EFFECTIVE

DATE OF ISSUE

APPLYING TO

NAME OF OFFICER

ADDRESS

FILED

* Indicates Change.

Issued pursuant to the Order of the Mo.P.S.C. in Case No. ER-2014-0258.
**SERVICE CLASSIFICATION NO. 11(M)**

**LARGE PRIMARY SERVICE RATE**

*RATE BASED ON MONTHLY METER READINGS*

Summer Rate  (Applicable during 4 monthly billing periods of June through September)

- Customer Charge - per month $323.82
- Low-Income Pilot Program Charge - per month $ 61.10
- Energy Charge - per kWh 3.54¢
- Demand Charge - per kW of Billing Demand $ 21.16
- Reactive Charge - per kVar 38.00¢
- Energy Efficiency Program Charge - per kWh (1) 0.01¢

Winter Rate  (Applicable during 8 monthly billing periods of October through May)

- Customer Charge - per month $323.82
- Low-Income Pilot Program Charge - per month $ 61.10
- Energy Charge - per kWh 3.14¢
- Demand Charge - per kW of Billing Demand $  9.61
- Reactive Charge - per kVar 38.00¢
- Energy Efficiency Program Charge - per kWh (1) 0.01¢

(1) Not applicable to customers that have satisfied the opt-out provisions of Section 393.1075, RSMo.

Optional Time-of-Day Adjustments

- Additional Customer Charge - per month $21.08 per month
- Energy Adjustment - per kWh
  - On-Peak Hours(2)
    - Summer kWh(June-September billing periods) +0.69¢
    - Winter kWh(October-May billing periods) +0.31¢
  - Off-Peak Hours(2)
    - Summer kWh(June-September billing periods) -0.38¢
    - Winter kWh(October-May billing periods) -0.18¢

(2) On-peak and off-peak hours applicable herein shall be as specified within this service classification.

* Indicates Change.
UNION ELECTRIC COMPANY  ELECTRIC SERVICE

MO.P.S.C. SCHEDULE NO. 6  3rd Revised  SHEET NO. 61.1
CANCELLING MO.P.S.C. SCHEDULE NO. 6  2nd Revised  SHEET NO. 61.1

APPLYING TO  MISSOURI SERVICE AREA

SERVICE CLASSIFICATION NO. 11(M)
LARGE PRIMARY SERVICE RATE (Cont'd.)

RATE BASED ON MONTHLY METER READINGS (Cont'd.)

Fuel and Purchased Power Adjustment (Rider FAC) Applicable to all metered kilowatt-hours (kWh) of energy.

Energy Efficiency Investment Charge (Rider EEIC) Applicable to all metered kilowatt-hours (kWh) of energy excluding kWh of energy supplied to customers that have satisfied the opt-out provisions of Section 393.1075, RSMo.

* Renewable Energy Standard Rate Adjustment Mechanism (Rider RESRAM) Applicable to all metered kilowatt-hours (kWh) of energy.

Payments Bills are due and payable within twenty-one (21) days from date of bill and become delinquent thereafter.

Term of Use One (1) year, terminable thereafter on three (3) days' notice.

Tax Adjustment Any license, franchise, gross receipts, occupation or similar charge or tax levied by any taxing authority on the amounts billed hereunder will be so designated and added as a separate item to bills rendered to customers under the jurisdiction of the taxing authority.

* Indicates Addition.

DATE OF ISSUE  April 29, 2019  DATE EFFECTIVE  May 29, 2019
ISSUED BY  Michael Moehn  President  Missouri Public Service Commission  St. Louis, Missouri
NAME OF OFFICER  TITLE  ADDRESS  JE-2019-0196

FILED
Missouri Public Service Commission
JE-2019-0196
1. RATE APPLICATION
The rate shall be applicable, at customer’s request, to all service at a primary voltage or higher, provided customer agrees to a minimum monthly billing demand of 5,000 kilowatts.

2. CHARACTER OF SERVICE SUPPLIED
Company will specify and supply a standard three-phase alternating current primary service voltage. Where Company supplies service at 34.5 kV or higher, the appropriate adjustments under Rider B will apply.

3. CUMULATION OF SERVICES
Service provided through multiple meters to the same customer on the same premises and cumulated for billing purposes under this Service Classification, prior to May 5, 1990, may continue to receive such billing. Unless otherwise required for Company’s engineering or other reasons, any additional services installed at customer’s request and agreed to by Company on and after May 5, 1990, will not be cumulated or otherwise combined for billing purposes with any other service supplied to customer.

4. DEMAND METERS
Company will install demand meters for the measurement of demands.

5. BILLING DEMAND
The Billing Demand in any month will be the highest demand established during peak hours or 50% of the highest demand established during off-peak hours, whichever is highest during the month, but in no event less than 5,000 kW.

Peak hours and off-peak hours are defined as follows:

Peak hours: 10:00 A.M. to 10:00 P.M., Monday thru Friday.

Off-Peak hours: All other hours including the entire 24 hours of the following days:

New Year’s Day Independence Day Thanksgiving Friday
Good Friday Labor Day Christmas Eve Day
Memorial Day Thanksgiving Day Christmas Day

All times stated above apply to the local effective time.
UNION ELECTRIC COMPANY

ELECTRIC SERVICE

MO.P.S.C. SCHEDULE NO. 6

CANCELLING MO.P.S.C. SCHEDULE NO.

SHEET NO. 61.3

ORIGINAL

APPLYING TO MISSOURI SERVICE AREA

SERVICE CLASSIFICATION NO. 11(M)

LARGE PRIMARY SERVICE RATE (Cont’d.)

6. REACTIVE CHARGE

The charge specified in this rate shall be applicable to the kilovars by which the customer’s average metered kilovars exceed the customer’s kilovars at an average power factor of 90% lagging during the billing period. Such average kilovar billing units shall be determined in accordance with the following formula:

\[ \text{kVar} = \left( \frac{\text{kVarh}}{\text{kWh}} - 0.4843 \right) \text{(kW)} \]

where:

- \( \text{kVar} \) = kilovar billing units
- \( \text{kVarh} \) = metered kilovar-hours
- \( \text{kWh} \) = metered kilowatt-hours
- \( \text{kW} \) = metered kilowatts
- 0.4843 = kilovar requirement at 90% lagging power factor.

Where in the Company’s judgment application of the above formula would not be appropriate to full or partial self-generation customers, an alternative agreement, between Company and customers, for the payment of reactive supply facilities may be substituted for said formula.

7. OPTIONAL TIME-OF-DAY (TOD) SERVICE

Applicable at customer’s option for all Large Primary Service usage, subject to the following provisions:

a. Customer will be transferred to this TOD rate option effective with TOD meter installation and transferred from this TOD rate option to the applicable non-TOD rate after the meter is removed.

b. Customer electing this TOD option, shall remain on said option for a minimum period of twelve (12) months, provided however, that customer may discontinue this option within the first ninety (90) days thereunder subject to the continued payment of the TOD customer charge, in lieu of any other customer charge, for the full twelve (12) month term of this option.

c. Any customer canceling this TOD option cannot thereafter resume billing under said option for a period of one year following the last billing period on the TOD option.

DATE OF ISSUE May 31, 2013

DATE EFFECTIVE June 30, 2013

ISSUED BY Warner L. Baxter

NAME OF OFFICER President & CEO

ADDRESS St. Louis, Missouri

FILED Missouri Public Service Commission

ET-2013-0546; JE-2013-0582
**SERVICE CLASSIFICATION NO. 11(M)**

**LARGE PRIMARY SERVICE RATE (Cont'd.)**

*8. GENERAL RULES AND REGULATIONS*

In addition to the above specific rules and regulations, all of the Company’s General Rules and Regulations shall apply to the supply of service under this rate.

* Indicates Reissue.
SERVICE CLASSIFICATION NO. 11(M)  
LARGE PRIMARY SERVICE RATE (Cont’d.)

FEDERAL TAX RATE REDUCTION

This bill line item is temporarily being added to allow the Company to pass the benefits of service cost reductions on to customers from the federal Tax Cuts and Jobs Act of 2017 ("TCJA") (Public Law 115-97) as required by Senate Bill 564.

The below flat rate will be applied as a credit to all metered kilowatt-hours (kWh) of energy to all 11M Customer Bills.

11M Large Primary Service Federal Tax Rate Reduction $(0.00348)
SERVICE CLASSIFICATION NO. 12(M)
LARGE TRANSMISSION SERVICE RATE

RATE BASED ON MONTHLY METER READINGS

Summer Rate (Applicable during four (4) monthly billing periods of June through September)

- Customer Charge - per month $323.82
- Low-Income Pilot Program Charge - per month $1,500.00
- Demand Charge - per kW of Billing Demand $15.55
- Energy Charge - per kWh 2.953¢
- Reactive Charge - per kVar 38.000¢

Winter Rate (Applicable during eight (8) monthly billing periods of October through May)

- Customer Charge - per month $323.82
- Low-Income Pilot Program Charge - per month $1,500.00
- Demand Charge - per kW of Billing Demand $5.94
- Energy Charge - per kWh 2.600¢
- Reactive Charge - per kVar 38.000¢

Optional Time-of-Day Adjustments

- Additional Customer Charge - per month $ 21.08

Energy Adjustment - per kWh

<table>
<thead>
<tr>
<th></th>
<th>On-Peak Hours</th>
<th>Off-Peak Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summer kWh (June-September Billing Periods)</td>
<td>+0.68¢</td>
<td>-0.38¢</td>
</tr>
<tr>
<td>Winter kWh (October-May Billing Periods)</td>
<td>+0.31¢</td>
<td>-0.17¢</td>
</tr>
</tbody>
</table>

(1) On-peak and off-peak hours applicable herein shall be as specified within this service classification.

Fuel and Purchased Power Adjustment (Rider FAC) Applicable to all metered kilowatt-hours (kWh) of energy plus energy line losses from use of a transmission system other than Company's, if any.

Energy Efficiency Investment Charge (Rider EEIC) Applicable to all metered kilowatt-hours (kWh) of energy excluding kWh of energy supplied to customers that have satisfied the opt-out provisions of Section 393.1075, RSMo.

* Renewable Energy Standard Rate Adjustment Mechanism (Rider RESRAM) Applicable to all metered kilowatt-hours (kWh) of energy.

Energy Line Loss Rate Compensation for customer's energy line losses from use of the transmission system(s) outside Company's control area shall be in the form of energy solely supplied by Company to the transmission owner(s) and compensated by payment at a monthly rate of $0.0399 per kWh after appropriate Rider C adjustment of meter readings.

* Indicates Addition.
1. **TRANSMISSION SERVICE REQUIREMENTS**

Company’s obligation to provide service under this rate is conditioned upon receipt of approval from the appropriate Regional Transmission Organization (RTO) to incorporate customer’s load within Company’s Network Integration Transmission Service agreement without the obligation or requirement that Company construct, upgrade, or improve any existing or new transmission plant or facilities.

Customer shall be responsible for securing firm transmission service throughout the Contract Term outside of Company's control area at no cost or charge to Company (except for Energy Line Losses), if necessary, and customer agrees to indemnify and hold Company harmless from all such costs or charges imposed or billed. In any event, customer shall be responsible for all costs and charges imposed or billed to Company from an RTO that are based on the fact that customer’s load is not directly connected to Company’s system (e.g. Through and Out rates imposed by the Midwest Independent System Operator, Inc.)

2. **CREDIT REQUIREMENTS**

A customer taking service under this rate shall agree to the following special credit terms and conditions, in addition to those that may be required pursuant to Company’s rules, regulations, rates or tariffs. Company, upon request and in its sole discretion, may demand of customer a security deposit in the form of cash, letter of credit or surety bond, equal to two times (2x) the highest monthly utility bill from the prior 12-month period, upon the occurrence of any of the following:

a. an assignment to customer or customer's parent of a long-term public debt rating by Moody's that falls below the rating of Baa3;

b. an assignment to customer or customer’s parent of a long-term public debt rating by Standard & Poor's that falls below the rating of BBB-;

c. a significant change in ownership, as determined by Company, including but not limited to a change in ownership or possession of the assets of customer;

d. the assessment of two (2) late payment charges within any 12 month rolling period; or

e. customer makes an assignment for the benefit of creditors, or otherwise becomes bankrupt or insolvent (however evidenced), in which case Company may pursue other remedies available in law or equity, including a declaration that the agreement is in default.

*Company, at its sole discretion, may enter into an agreement with customer to vary from its General Rules and Regulations, including, but not limited to bill payment dates, estimated usages, late payment charges and disconnection practices, as an alternative to demanding a security deposit.

* Indicates Addition.
UNION ELECTRIC COMPANY
ELECTRIC SERVICE

MO.P.S.C. SCHEDULE NO. 6 1st Revised SHEET NO. 62.2
CANCELLING MO.P.S.C. SCHEDULE NO. 6 Original SHEET NO. 62.2

APPLYING TO
MISSOURI SERVICE AREA

SERVICE CLASSIFICATION NO. 12(M)
LARGE TRANSMISSION SERVICE RATE (Cont'd.)

* 3. PAYMENTS

Bills are due and payable within twenty-one (21) days from date of bill and become delinquent thereafter.

4. CONTRACT TERM

A customer taking service under this rate shall agree to an initial Contract Term of 15 years. The Contract Term shall be extended in one-year increments unless or until the contract is terminated at the end of the Contract Term or any annual extension thereof by a written notice of termination given by either party or received not later than five years prior to the date of termination. During the Contract Term, a customer taking service under this rate agrees that Company shall be the exclusive supplier of power and energy to customer's premises, and waives any right or entitlement by virtue of any law, including but not limited to Section 91.026 RSMo as it now exists or as amended from time to time, statute, rule, regulation, or tariff, to purchase, acquire or take delivery of power and energy from any other person or entity.

5. TAX ADJUSTMENT

Any license, franchise, gross receipts, occupation or similar charge or tax levied by any taxing authority on the amounts billed hereunder will be so designated and added as a separate item to bills rendered to customers under the jurisdiction of the taxing authority.

6. RATE APPLICATION

This rate shall be applicable, at customer's request, to any customer that 1) meets the Rate Application conditions of the Large Primary Service rate, 2) can demonstrate to Company's satisfaction that such energy was routinely consumed at a load factor of 95% or higher or that customer will, in the ordinary course of its operations, operate at a similar load factor, 3) if necessary, arranges and pays for transmission service for the delivery of electricity over the transmission facilities of a third party, 4) does not require use of Company's distribution system or distribution arrangements that are provided by Company at Company's cost, excepting Company's metering equipment, for service to customer, and 5) meets all other required terms and conditions of the rate.

7. CHARACTER OF SERVICE SUPPLIED

Company will supply a standard three-phase alternating current transmission service voltage. The appropriate adjustments under Rider C will apply; however, there will be no adjustments under Rider B.

* Indicates Change.

Issued pursuant to the Order of the Mo.P.S.C. in Case No. ER-2016-0179.

DATE OF ISSUE March 8, 2017
DATE EFFECTIVE April 7, 2017

Michael Moehn
President
St. Louis, Missouri

FILED
Missouri Public
Service Commission
ER-2016-0179; YE-2017-0173

April 1, 2017
8. **DEMAND METERS**

Company will be responsible for the demand meters which have been installed for the measurement of demands.

9. **BILLING DEMAND**

The Billing Demand in any month will be the highest demand established during peak hours or 50% of the highest demand established during off-peak hours, whichever is highest during the month, but in no event less than 5,000 kilowatts.

Peak hours and off-peak hours are defined as follows:

- **Peak hours:** 10:00 A.M. to 10:00 P.M., Monday thru Friday.
- **Off-Peak hours:** All other hours including the entire 24 hours of the following days:
  - New Year’s Day
  - Independence Day
  - Thanksgiving Friday
  - Good Friday
  - Labor Day
  - Christmas Eve Day
  - Memorial Day
  - Thanksgiving Day
  - Christmas Day

All times stated above apply to the local effective time.

10. **REACTIVE CHARGE**

The kVar charge specified in this rate shall be applicable to the kilovars by which the customer's average metered kilovars exceed the customer's kilovars at an average power factor of 90% lagging during the billing period. Such average kilovar billing units shall be determined in accordance with the following formula:

\[
\text{kVar} = \left( \frac{\text{kVarh}}{\text{kWh}} - 0.4843 \right) \text{(kW)}
\]

where:
- \(\text{kVar}\) = kilovar billing units
- \(\text{kVarh}\) = metered kilovar-hours
- \(\text{kWh}\) = metered kilowatt-hours
- \(\text{kW}\) = metered kilowatts
- 0.4843 = kilovar requirement at 90% lagging power factor.

Where in Company's sole judgment application of the above formula would not be appropriate to a customer, an agreement between Company and customer for the costs or charges associated with reactive supply facilities may be substituted for said formula.
11. **OPTIONAL TIME OF DAY (TOD) SERVICE**

Applicable at customer's option for all Large Transmission Service usage, subject to the following provisions:

a. Customer will be transferred to this TOD rate option effective with TOD meter installation and transferred from this TOD rate option to the applicable non-TOD rate after the meter is removed.

b. A customer electing this TOD option shall remain on the option for a minimum period of 12 months provided however, that customer may discontinue this option within the first 90 days following election subject to the continued payment of the TOD Customer Charge, in lieu of any other customer charge, for the full 12-month term of this option.

c. Any customer canceling this TOD option may not thereafter resume billing under said option for a period of one year following the last billing period on the TOD option.

12. **GENERAL RULES AND REGULATIONS**

In addition to the above specific rules and regulations, all of Company's General Rules and Regulations shall apply to the supply of service under this rate.
UNION ELECTRIC COMPANY  ELECTRIC SERVICE

MO.P.S.C. SCHEDULE NO.  6  1st Revised  SHEET NO. 62.5
CANCELLING MO.P.S.C. SCHEDULE NO.  6  Original  SHEET NO. 62.5

APPLYING TO  MISSOURI SERVICE AREA

* THIS SHEET RESERVED FOR FUTURE USE

Issued pursuant to the Order of the Mo.P.S.C. in Case No. ER-2016-0179.

DATE OF ISSUE  March 8, 2017  DATE EFFECTIVE  April 7, 2017

ISSUED BY  Michael Moehn  President  St. Louis, Missouri

FILED  Missouri Public Service Commission
ER-2016-0179; YE-2017-0173

April 1, 2017
MISCELLANEOUS CHARGES

A. Reconnection Charges per Connection Point

Sheet No. 79, Par. B-3 (Annually Recurring Service) $30.00
Sheet No. 145, Par. I (Reconnection of Service) $30.00

*B. Supplementary Service Minimum Monthly Charges

Sheet No. 78, Par. C-3

Charges applicable during 4 monthly billing periods of June through September

<table>
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<tr>
<th>Primary Service Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Customer Charge per month, plus</td>
</tr>
<tr>
<td>Low-Income Pilot Program Charge - per month</td>
</tr>
<tr>
<td>All kW @</td>
</tr>
</tbody>
</table>

Charges applicable during 8 monthly billing periods of October through May

<table>
<thead>
<tr>
<th>Primary Service Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Customer Charge per month, plus</td>
</tr>
<tr>
<td>Low-Income Pilot Program Charge - per month</td>
</tr>
<tr>
<td>All kW @</td>
</tr>
</tbody>
</table>

C. Service Call Charge

Customer’s reporting service problems may be charged a $50.00 fee for a service call, if it is determined the problem is within the customer’s electrical system.

Tax Adjustment Any license, franchise, gross receipts, occupation or similar charge or tax levied by any taxing authority on the amounts billed hereunder will be so designated and added as a separate item to bills rendered to customers under the jurisdiction of the taxing authority.
UNION ELECTRIC COMPANY

ELECTRIC SERVICE

MO.P.S.C. SCHEDULE NO. 6

Original SHEET NO. 65

CANCELING MO.P.S.C. SCHEDULE NO.

SHEET NO.

APPLYING TO MISSOURI SERVICE AREA

DATE OF ISSUE May 31, 2013

DATE EFFECTIVE June 30, 2013

ISSUED BY Warner L. Baxter President & CEO St. Louis, Missouri

NAME OF OFFICER TITLE ADDRESS

FILED Missouri Public Service Commission ET-2013-0546; JE-2013-0582

THIS SHEET RESERVED FOR FUTURE USE
UNION ELECTRIC COMPANY

ELECTRIC SERVICE

MO.P.S.C. SCHEDULE NO. 6  Original  SHEET NO. 67

CANCELLING MO.P.S.C. SCHEDULE NO.  SHEET NO.____

APPLYING TO  MISSOURI SERVICE AREA

THIS SHEET RESERVED FOR FUTURE USE

DATE OF ISSUE  May 31, 2013  DATE EFFECTIVE  June 30, 2013

ISSUED BY  Warner L. Baxter  President & CEO  St. Louis, Missouri

NAME OF OFFICER  TITLE  ADDRESS
# UNION ELECTRIC COMPANY  ELECTRIC SERVICE

MO.P.S.C. SCHEDULE NO.  6  3rd Revised  SHEET NO.  70
CANCELLING MO.P.S.C. SCHEDULE NO.  6  2nd Revised  SHEET NO.  70

APPLYING TO  MISSOURI SERVICE AREA

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</tr>
</tbody>
</table>

* Indicates Addition.
**RIDER FAC**

**FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE**

**(Applicable To Billed Revenues For Service Provided Between June 21, 2010 And The Day Before The Effective Date Of This Tariff)**

**APPLICABILITY**

This rider is applicable to kilowatt-hours (kWh) of energy supplied to customers served by the Company under Service Classification Nos. 1(M), 2(M), 3(M), 4(M), 5(M), 6(M), 7(M), 8(M), 11(M), and 12(M).

Costs passed through this Fuel and Purchased Power Adjustment Clause (FAC) reflect differences between actual fuel and purchased power costs, including transportation, net of Off-System Sales Revenues (OSSR) (i.e., Actual Net Fuel Costs) and Net Base Fuel Costs (factor NBFC, as defined below), calculated and recovered as provided for herein.

The Accumulation Periods and Recovery Periods are as set forth in the following table:

<table>
<thead>
<tr>
<th>Accumulation Period (AP)</th>
<th>Filing Date</th>
<th>Recovery Period (RP)</th>
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<tbody>
<tr>
<td>February through May</td>
<td>By August 1</td>
<td>October through September</td>
</tr>
<tr>
<td>June through September</td>
<td>By December 1</td>
<td>February through January</td>
</tr>
<tr>
<td>October through January</td>
<td>By April 1</td>
<td>June through May</td>
</tr>
</tbody>
</table>

Accumulation Period (AP) means the historical calendar months during which fuel and purchased power costs, including transportation, net of OSSR for all kWh of energy supplied to Missouri retail customers are determined.

Recovery Period (RP) means the billing months as set forth in the above table during which the difference between the Actual Net Fuel Costs during an Accumulation Period and NBFC are applied to and recovered through retail customer billings on a per kWh basis, as adjusted for service voltage level.

The Company will make a Fuel and Purchased Power Adjustment (FPA) filing by each Filing Date. The new FPA rates for which the filing is made will be applicable starting with the Recovery Period that begins following the Filing Date. All FPA filings shall be accompanied by detailed workpapers supporting the filing in an electronic format with all formulas intact.

**FPA DETERMINATION**

Ninety five percent (95%) of the difference between Actual Net Fuel Costs and NBFC for all kWh of energy supplied to Missouri retail customers during the respective Accumulation Periods shall be reflected as an FPA Credit or debit, stated as a separate line item on the customer’s bill and will be calculated according to the following formulas.

For the FPA filing made by each Filing Date, the FPA rate, applicable starting with the Recovery Period following the applicable Filing Date, to recover fuel and purchased power costs, including transportation, net of OSSR, to the extent they vary from Net Base Fuel Costs (NBFC), as defined below, during the recently-completed Accumulation Period is calculated as:

**Indicates Change.**
RIDER FAC
FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (CONT'D)

**(Applicable To Billed Revenues For Service Provided Between June 21, 2010 And The Day Before The Effective Date Of This Tariff)**

\[
FPA_{(RP)} = \left[ \left( CF + CPP - OSSR - TS - S - W \right) - \left( NBFC \times S_{AR} \right) \right] \times 95\% + I + R - N \right) / S_{RP}
\]

The FPA rate, which will be multiplied by the voltage level adjustment factors set forth below, applicable starting with the following Recovery Period is calculated as:

\[
FPA_{C} = FPA_{(RP)} + FPA_{(RP-1)} + FPA_{(RP-2)}
\]

where:

- \(FPA_{C}\) = Fuel and Purchased Power Adjustment rate applicable starting with the Recovery Period following the applicable Filing Date.
- \(FPA_{RP}\) = FPA Recovery Period rate component calculated to recover under/over collection during the Accumulation Period that ended prior to the applicable Filing Date.
- \(FPA_{(RP-1)}\) = FPA Recovery Period rate component from prior \(FPA_{RP}\) calculation, if any.
- \(FPA_{(RP-2)}\) = FPA Recovery Period rate component from \(FPA_{RP}\) calculation prior to \(FPA_{(RP-1)}\), if any.
- \(CF\) = Fuel costs incurred to support sales to all retail customers and Off-System Sales allocated to Missouri retail electric operations, including transportation, associated with the Company’s generating plants. These costs consist of the following:
  a) For fossil fuel or hydroelectric plants:
    (i) the following costs reflected in Federal Energy Regulatory Commission (FERC) Account Number 501: coal commodity, applicable taxes, gas, alternative fuels, fuel additives, Btu adjustments assessed by coal suppliers, quality adjustments related to the sulfur content of coal assessed by coal suppliers, costs and revenues for SO\(_2\) and NO\(_x\) emission allowances, railroad transportation, switching and demurrage charges, railcar repair and inspection costs, railcar depreciation, railcar lease costs, similar costs associated with other applicable modes of transportation, fuel hedging costs (for purposes of factor \(CF\), hedging is defined as realized losses and costs minus realized gains associated with mitigating volatility in the Company’s cost of fuel and purchased power, including but not limited to, the Company’s use of futures, options and over-the-counter derivatives including, without limitation, futures contracts, puts, calls, caps, floors, collars, and swaps), hedging costs associated with SO\(_2\) and fuel oil.

** Indicates Change.
**RIDER FAC**

**FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (CONT’D)**

**(Applicable To Billed Revenues For Service Provided Between June 21, 2010 And The Day Before The Effective Date Of This Tariff)**

Adjustments included in commodity and transportation costs, broker commissions and fees associated with price hedges, oil costs, ash disposal revenues and expenses, and revenues and expenses resulting from fuel and transportation portfolio optimization activities; and

(ii) the following costs reflected in FERC Account Number 547: natural gas generation costs related to commodity, oil, transportation, storage, capacity reservation charges, fuel losses, hedging costs, and revenues and expenses resulting from fuel and transportation portfolio optimization activities;

b) Costs in FERC Account Number 518 (Nuclear Fuel Expense).

**CPP** = Costs of purchased power reflected in FERC Account Numbers 555, 565, and 575, excluding MISO administrative fees arising under MISO Schedules 10, 16, 17, and 24, and excluding capacity charges for contracts with terms in excess of one (1) year, incurred to support sales to all Missouri retail customers and Off-System Sales allocated to Missouri retail electric operations. Also included in factor "CPP" are insurance premiums in FERC Account Number 924 for replacement power insurance (other than relating to the Taum Sauk Plant) to the extent those premiums are not reflected in base rates. Changes in replacement power insurance premiums (other than those relating to the Taum Sauk Plant) from the level reflected in base rates shall increase or decrease purchased power costs. Additionally, costs of purchased power will be reduced by expected replacement power insurance recoveries (other than those relating to the Taum Sauk Plant) qualifying as assets under Generally Accepted Accounting Principles. Notwithstanding the foregoing, concurrently with the date the “TS” factor is eliminated as provided for in this tariff, the premiums and recoveries relating to replacement power insurance coverage for the Taum Sauk Plant shall be included in this CPP Factor.

**OSSR** = Revenues from Off-System Sales allocated to Missouri electric operations.

Off-System Sales shall include all sales transactions (including MISO revenues in FERC Account Number 447), excluding Missouri retail sales and long-term full and partial requirements sales to Missouri municipalities, that are associated with (1) AmerenUE Missouri jurisdictional generating units, (2) power purchases made to serve Missouri retail load, and (3) any related transmission.

**Indicates Change.**
RIDER FAC
FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (CONT’D)

** (Applicable To Billed Revenues For Service Provided Between June 21, 2010 And The Day Before The Effective Date Of This Tariff)

Adjustment For Reduction of Service Classification 12(M) Billing Determinants:

Should the level of monthly billing determinants under Service Classification 12(M) fall below the level of normalized 12(M) monthly billing determinants as established in Case No. ER-2010-0036 an adjustment to OSSR shall be made in accordance with the following levels:

a) A reduction of less than 40,000,000 kWh in a given month
   - No adjustment will be made to OSSR.

b) A reduction of 40,000,000 kWh or greater in a given month
   - All Off-System revenues derived from all kWh of energy sold off-system due to the entire reduction shall be excluded from OSSR.

TS = The Accumulation Period value of Taum Sauk. This factor will be used to reduce actual fuel costs to reflect the value of Taum Sauk, and will be credited in FPA filings (of which there are three each year as shown in the table above), until the next rate case or, if sooner, until Taum Sauk is placed back in service. This value is $26.8 million annually, one third of which (i.e., $8.93 million) will be applied to each Accumulation Period.

S = The Accumulation Period value of Blackbox Settlement Amount of $3 million annually, which shall expire on September 1, 2010. One third of the annual value ($1 million) shall be applied to each Accumulation Period. For the Accumulation Period during which the factor expires, the factor shall be prorated according to the number of days during which it was effective during that Accumulation Period.

W = $300,000 per month for the months, July 1, 2010 through, June 30, 2011. This factor “W” expires on June 30, 2011.

N = The positive amount by which, over the course of the Accumulation Period, (a) revenues derived from the off-system sale of power made possible as a result of reductions in the level of 12(M) sales (as addressed in the definition of OSSR above) exceeds (b) the reduction of 12(M) revenues compared to normalized 12(M) revenues as determined in Case No. ER-2010-0036.

I = Interest applicable to (i) the difference between Actual Net Fuel Costs (adjusted for Taum Sauk, factor “S”, and factor “W”) and NBFC for all kWh of energy supplied to Missouri retail customers during an Accumulation Period until those costs have been recovered; (ii) refunds due to prudence reviews (a portion of factor R, below); and (iii) all under- or over-recovery

** Indicates Change.
RIDER FAC
FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (CONT’D)

**(Applicable To Billed Revenues For Service Provided Between June 21, 2010 And The Day Before The Effective Date Of This Tariff)**

balances created through operation of this FAC, as determined in the true-up filings provided for herein (a portion of factor R, below). Interest shall be calculated monthly at a rate equal to the weighted average interest rate paid on the Company’s short-term debt, applied to the month-end balance of items (i) through (iii) in the preceding sentence.

R  = Under/over recovery (if any) from currently active and prior Recovery Periods as determined for the FAC true-up adjustments, and modifications due to adjustments ordered by the Commission (other than the adjustment for Taum Sauk as already reflected in the TS factor), as a result of required prudence reviews or other disallowances and reconciliations, with interest as defined in item I.

S_AF  = Supplied kWh during the Accumulation Period that ended prior to the applicable Filing Date, at the generation level, plus the kWh reductions up to the kWh of energy sold off-system associated with the 12(M) OSSR adjustment above.

S_RF  = Applicable Recovery Period estimated kWh, at the generation level, subject to the FPAAF to be billed.

NBFC  = Net Base Fuel Costs are the net costs determined by the Commission’s order as the normalized test year value (and reflecting an adjustment for Taum Sauk, consistent with the term TS) for the sum of allowable fuel costs (consistent with the term CF), plus cost of purchased power (consistent with the term CPP), less revenues from off-system sales (consistent with the term OSSR), less adjustments (consistent with the terms “S” and “W”), expressed in cents per kWh, at the generation level, as included in the Company’s retail rates. The NBFC rate applicable to June through September calendar months (“Summer NBFC Rate”) is 1.236 cents per kWh. The NBFC rate applicable to October through May calendar months (“Winter NBFC Rate”) is 1.044 cents per kWh.

To determine the FPA rates applicable to the individual Service Classifications, the FPA_c rate determined in accordance with the foregoing will be multiplied by the following voltage level adjustment factors:

<table>
<thead>
<tr>
<th>Voltage Level</th>
<th>Adjustment Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Secondary Voltage Service</td>
<td>1.0789</td>
</tr>
<tr>
<td>Primary Voltage Service</td>
<td>1.0459</td>
</tr>
<tr>
<td>Large Transmission Voltage Service</td>
<td>1.0124</td>
</tr>
</tbody>
</table>

The FPA rates applicable to the individual Service Classifications shall be rounded to the nearest 0.001 cents, to be charged on a cents/kWh basis for each applicable kWh billed.

** Indicates Change.
RIDERS FAC

FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (CONT’D)

**(Applicable To Billed Revenues For Service Provided Between June 21, 2010 And The Day Before The Effective Date Of This Tariff)

TRUE-UP OF FAC

After completion of each Recovery Period, the Company will make a true-up filing in conjunction with an adjustment to its FAC, where applicable. The true-up filings shall be made on the first Filing Date that occurs at least two (2) months after completion of each Recovery Period. Any true-up adjustments or refunds shall be reflected in item R above, and shall include interest calculated as provided for in item I above.

The true-up adjustments shall be the difference between the revenues billed and the revenues authorized for collection during the Recovery Period.

GENERAL RATE CASE/PRUDENCE REVIEWS

The following shall apply to this Fuel and Purchased Power Adjustment Clause, in accordance with Section 386.266.4, RSMo. and applicable Missouri Public Service Commission Rules governing rate adjustment mechanisms established under Section 386.266, RSMo:

The Company shall file a general rate case with the effective date of new rates to be no later than four years after the effective date of a Missouri Public Service Commission order implementing or continuing this Fuel and Purchased Power Adjustment Clause. The four-year period referenced above shall not include any periods in which the Company is prohibited from collecting any charges under this Fuel and Purchased Power Adjustment Clause, or any period for which charges hereunder must be fully refunded. In the event a court determines that this Fuel and Purchased Power Adjustment Clause is unlawful and all moneys collected hereunder are fully refunded, the Company shall be relieved of the obligation under this Fuel and Purchased Power Adjustment Clause to file such a rate case.

Prudence reviews of the costs subject to this Fuel and Purchased Power Adjustment Clause shall occur no less frequently than every eighteen months, and any such costs which are determined by the Missouri Public Service Commission to have been imprudently incurred shall be returned to customers with interest at a rate equal to the weighted average interest rate paid on the Company’s short-term debt.

** Indicates Change.
**RIDER FAC**

**FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (CONT’D.)**

*(Applicable for the billing months of October 2011 through January 2012)*

* Calculation of Current FPA<sub>C</sub> Rate:

Accumulation Period Ending: May 31, 2011

1. Total Energy Cost (CF+CPP-OSSR-TS-S-W) $131,274,998
2. Base Energy Cost - $125,408,921
   2.1 NBFC ($/kWh)  x $0.01044
   2.2 Accumulation Period Sales kWh (S<sub>AP</sub>) 12,012,348,796
3. First Subtotal (1.-2.) $5,866,077
4. Customer Responsibility  95%  5. Second Subtotal $5,572,773
   (I + R - N)
7. Third Subtotal $(9,733,915)
8. Estimated Recovery Period Sales kWh (S<sub>RP</sub>) + 25,926,961,348
9. FPA<sub>RP</sub> $(0.00038)
10. FPA<sub>RP</sub>-1 + $ 0.00058
11. FPA<sub>RP</sub>-2 + $ 0.00154
12. FPA<sub>C</sub> (without Voltage Level Adjustment) $ 0.00174
13. Voltage Level Adjustment Factor
   13.1 Secondary  x 1.0789
   13.2 Primary  x 1.0459
   13.3 Large Transmission  x 1.0124
14. FPA<sub>C</sub> (with voltage level adjustment)
   14.1 Secondary  $0.00188
   14.2 Primary  $0.00182
   14.3 Large Transmission  $0.00176

* Indicates Change.

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FILED
Missouri Public
Service Commission
ER-2012-0028; YE-2012-0065

DATE OF ISSUE  August 16, 2011  DATE EFFECTIVE  September 23, 2011

ISSUED BY  Warner L. Baxter  President & CEO  St. Louis, Missouri

NAME OF OFFICER  TITLE  ADDRESS

70.7

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RIDER FAC

FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE
(Applicable To Service Provided Between July 31, 2011 And January 1, 2013)

APPLICABILITY
This rider is applicable to kilowatt-hours (kWh) of energy supplied to customers served by the Company under Service Classification Nos. 1(M), 2(M), 3(M), 4(M), 5(M), 6(M), 7(M), 11(M), and 12(M).

Costs passed through this Fuel and Purchased Power Adjustment Clause (FAC) reflect differences between actual fuel and purchased power costs, including transportation, net of Off-System Sales Revenues (OSSR) (i.e., Actual Net Fuel Costs) and Net Base Fuel Costs (factor NBFC, as defined below), calculated and recovered as provided for herein.

The Accumulation Periods and Recovery Periods are as set forth in the following table:

<table>
<thead>
<tr>
<th>Accumulation Period (AP)</th>
<th>Filing Date</th>
<th>Recovery Period (RP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>February through May</td>
<td>By August 1</td>
<td>October through May</td>
</tr>
<tr>
<td>June through September</td>
<td>By December 1</td>
<td>February through September</td>
</tr>
<tr>
<td>October through January</td>
<td>By April 1</td>
<td>June through January</td>
</tr>
</tbody>
</table>

Accumulation Period (AP) means the historical calendar months during which fuel and purchased power costs, including transportation, net of OSSR for all kWh of energy supplied to Missouri retail customers are determined.

Recovery Period (RP) means the billing months as set forth in the above table during which the difference between the Actual Net Fuel Costs during an Accumulation Period and NBFC are applied to and recovered through retail customer billings on a per kWh basis, as adjusted for service voltage level.

The Company will make a Fuel and Purchased Power Adjustment (FPA) filing by each Filing Date. The new FPA rates for which the filing is made will be applicable starting with the Recovery Period that begins following the Filing Date. All FPA filings shall be accompanied by detailed workpapers supporting the filing in an electronic format with all formulas intact.

FPA DETERMINATION

Ninety five percent (95%) of the difference between Actual Net Fuel Costs and NBFC for all kWh of energy supplied to Missouri retail customers during the respective Accumulation Periods shall be reflected as an FPA; credit or debit, stated as a separate line item on the customer’s bill and will be calculated according to the following formulas.
RIDER FAC

FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont’d.)
(Applicable To Service Provided Between July 31, 2011 And January 1, 2013)

FPA DETERMINATION (Cont’d.)

For the FPA filing made by each Filing Date, the FPAc rate, applicable starting with the Recovery Period following the applicable Filing Date, to recover fuel and purchased power costs, including transportation, net of OSSR, to the extent they vary from Net Base Fuel Costs (NBFC), as defined below, during the recently-completed Accumulation Period is calculated as:

\[
FPA_{RP} = \frac{[(CF+CPP-OSSR-W) - (NBFC x S_A)] x 95% + I + R - N}{S_A}
\]

The FPA rate, which will be multiplied by the voltage level adjustment factors set forth below, applicable starting with the following Recovery Period is calculated as:

\[
FPA_c = FPA_{RP} + FPA_{RP-1} + FPA_{RP-2}
\]

Effective with the Company’s April 1, 2012 filing, FPAc shall be revised to:

\[
FPA_c = FPA_{RP} + FPA_{RP-1}
\]

where:

- \(FPA_c\) = Fuel and Purchased Power Adjustment rate applicable starting with the Recovery Period following the applicable Filing Date.
- \(FPA_{RP}\) = FPA Recovery Period rate component calculated to recover under/over collection during the Accumulation Period that ended prior to the applicable Filing Date.
- \(FPA_{RP-1}\) = FPA Recovery Period rate component from prior FPA calculation, if any.
- \(FPA_{RP-2}\) = FPA Recovery Period rate component from FPA calculation prior to FPA_{RP-1}, if any.
- \(CF\) = Fuel costs incurred to support sales to all retail customers and Off-System Sales allocated to Missouri retail electric operations, including transportation, associated with the Company’s generating plants. These costs consist of the following:
  - a) For fossil fuel or hydroelectric plants:
    - i) the following costs reflected in Federal Energy Regulatory Commission (FERC) Account Number 501: coal commodity, applicable taxes, gas, alternative fuels, fuel additives, Btu adjustments assessed by coal suppliers, quality adjustments related to the sulfur content of coal assessed by coal suppliers, railroad transportation,
RIDER FAC

FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont’d.)
(Applicable To Service Provided Between July 31, 2011 And January 1, 2013)

FPA DETERMINATION (Cont’d.)

switching and demurrage charges, railcar repair and inspection costs, railcar depreciation, railcar lease costs, similar costs associated with other applicable modes of transportation, fuel hedging costs (for purposes of factor CF, hedging is defined as realized losses and costs minus realized gains associated with mitigating volatility in the Company’s cost of fuel and purchased power, including but not limited to, the Company’s use of futures, options and over-the-counter derivatives including, without limitation, futures contracts, puts, calls, caps, floors, collars, and swaps), hedging costs associated with SO2 and fuel oil adjustments included in commodity and transportation costs, broker commissions and fees associated with price hedges, oil costs, ash disposal revenues and expenses, and revenues and expenses resulting from fuel and transportation portfolio optimization activities; and

(ii) the following costs reflected in FERC Account Number 547: natural gas generation costs related to commodity, oil, transportation, storage, capacity reservation charges, fuel losses, hedging costs, and revenues and expenses resulting from fuel and transportation portfolio optimization activities; and

(iii) costs and revenues for SO2 and NOx emission allowances;

b) Costs in FERC Account Number 518 (Nuclear Fuel Expense).

CPP = Costs of purchased power reflected in FERC Account Numbers 555, 565, and 575, excluding MISO administrative fees arising under MISO Schedules 10, 16, 17, and 24, and excluding capacity charges for contracts with terms in excess of one (1) year, incurred to support sales to all Missouri retail customers and Off-System Sales allocated to Missouri retail electric operations. Also included in factor "CPP" are insurance premiums in FERC Account Number 924 for replacement power insurance to the extent those premiums are not reflected in base rates. Changes in replacement power insurance premiums from the level reflected in base rates shall increase or decrease purchased power costs. Additionally, costs of purchased power will be reduced by expected replacement power insurance recoveries qualifying as assets under Generally Accepted Accounting Principles.
RIDER FAC

FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont'd.)
(Applicable To Service Provided Between July 31, 2011 And January 1, 2013)

FPA DETERMINATION (Cont'd.)

OSSR = All revenues in FERC Account 447.

Adjustment For Reduction of Service Classification 12(M) Billing Determinants:

Should the level of monthly billing determinants under Service Classification 12(M) fall below the level of normalized 12(M) monthly billing determinants as established in Case No. ER-2011-0028 an adjustment to OSSR shall be made in accordance with the following levels:

a) A reduction of less than 40,000,000 kWh in a given month
   - No adjustment will be made to OSSR.

b) A reduction of 40,000,000 kWh or greater in a given month
   - All Off-System Sales revenues derived from all kWh of energy sold off-system due to the entire reduction shall be excluded from OSSR.

W = $300,000 per month for the months, July 1, 2010 through, June 30, 2011. This factor "W" expires on June 30, 2011.

N = The positive amount by which, over the course of the Accumulation Period, (a) revenues derived from the off-system sale of power made possible as a result of reductions in the level of 12(M) sales (as addressed in the definition of OSSR above) exceeds (b) the reduction of 12(M) revenues compared to normalized 12(M) revenues as determined in Case No. ER-2011-0028.

I = Interest applicable to (i) the difference between Actual Net Fuel Costs (adjusted for factor "W") and NBFC for all kWh of energy supplied to Missouri retail customers during an Accumulation Period until those costs have been recovered; (ii) refunds due to prudence reviews (a portion of factor R, below); and (iii) all under- or over-recovery balances created through operation of this FAC, as determined in the true-up filings provided for herein (a portion of factor R, below). Interest shall be calculated monthly at a rate equal to the weighted average interest rate paid on the Company’s short-term debt, applied to the month-end balance of items (i) through (iii) in the preceding sentence.
RIDER FAC

FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont’d.)
(Applicable To Service Provided Between July 31, 2011 And January 1, 2013)

FPA DETERMINATION (Cont’d.)

\[ \text{R} = \text{Under/over recovery (if any) from currently active and prior Recovery Periods as determined for the FAC true-up adjustments, and modifications due to adjustments ordered by the Commission, as a result of required prudence reviews or other disallowances and reconciliations, with interest as defined in item I.} \]

\[ \text{S}_{\text{AP}} = \text{kWh during the Accumulation Period that ended prior to the applicable Filing Date, as measured by taking the retail component of the Company’s load settled at its MISO CP node (AMMO.UE or successor node), plus the kWh reductions up to the kWh of energy sold off-system associated with the 12(M) OSSR adjustment above.} \]

\[ \text{S}_{\text{RP}} = \text{Applicable Recovery Period estimated kWh representing the expected retail component of the Company’s load settled at its MISO CP node (AMMO.UE or successor node), subject to the FPA}_{\text{RP}} \text{ to be billed.} \]

\[ \text{NBFC} = \text{Net Base Fuel Costs are the net costs determined by the Commission’s order as the normalized test year value for the sum of allowable fuel costs (consistent with the term CF), plus cost of purchased power (consistent with the term CPP), less revenues from off-system sales (consistent with the term OSSR), less an adjustment (consistent with the term “W”), expressed in cents per kWh, based on the retail kWh from the net output calculation in the fuel run used in part to determine Net Base Fuel Costs, as included in the Company’s retail rates. The NBFC rate applicable to June through September calendar months (“Summer NBFC Rate”) is 1.319 cents per kWh. The NBFC rate applicable to October through May calendar months (“Winter NBFC Rate”) is 1.213 cents per kWh.} \]

To determine the FPA rates applicable to the individual Service Classifications, the FPAc rate determined in accordance with the foregoing will be multiplied by the following voltage level adjustment factors:

- Secondary Voltage Service: 1.0557
- Primary Voltage Service: 1.0234
- Large Transmission Voltage Service: 0.9906

The FPA rates applicable to the individual Service Classifications shall be rounded to the nearest 0.001 cents, to be charged on a cents/kWh basis for each applicable kWh billed.
RIDER FAC

FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont’d.)
(Applicable To Service Provided Between July 31, 2011 And January 1, 2013)

TRUE-UP OF FAC

After completion of each Recovery Period, the Company will make a true-up filing in conjunction with an adjustment to its FAC. The true-up filing shall be made on the same day as the filing made to adjust its FAC. Any true-up adjustments or refunds shall be reflected in item R above, and shall include interest calculated as provided for in item I above.

The true-up adjustments shall be the difference between the revenues billed and the revenues authorized for collection during the Recovery Period.

GENERAL RATE CASE/PRUDENCE REVIEWS

The following shall apply to this Fuel and Purchased Power Adjustment Clause, in accordance with Section 386.266.4, RSMo. and applicable Missouri Public Service Commission Rules governing rate adjustment mechanisms established under Section 386.266, RSMo:

The Company shall file a general rate case with the effective date of new rates to be no later than four years after the effective date of a Missouri Public Service Commission order implementing or continuing this Fuel and Purchased Power Adjustment Clause. The four-year period referenced above shall not include any periods in which the Company is prohibited from collecting any charges under this Fuel and Purchased Power Adjustment Clause, or any period for which charges hereunder must be fully refunded. In the event a court determines that this Fuel and Purchased Power Adjustment Clause is unlawful and all moneys collected hereunder are fully refunded, the Company shall be relieved of the obligation under this Fuel and Purchased Power Adjustment Clause to file such a rate case.

Prudence reviews of the costs subject to this Fuel and Purchased Power Adjustment Clause shall occur no less frequently than every eighteen months, and any such costs which are determined by the Missouri Public Service Commission to have been imprudently incurred or incurred in violation of the terms of this rider shall be returned to customers with interest at a rate equal to the weighted average interest rate paid on the Company’s short-term debt.
RIDER FAC
FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont'd.)
(Applicable For The Billing Months Of February 2013 Through May 2013)

Calculation of Current FPA Rate:

<table>
<thead>
<tr>
<th>Calculation</th>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Total Energy Cost (CF+CPP-OSSR-W)</td>
<td>$277,767,604</td>
</tr>
<tr>
<td>2.</td>
<td>Base Energy Cost</td>
<td>$191,274,586</td>
</tr>
<tr>
<td>2.1</td>
<td>NBFC ($/kWh) x $0.01319</td>
<td>$0.1215</td>
</tr>
<tr>
<td>2.2</td>
<td>Accumulation Period Sales kWh (SAP)</td>
<td>14,501,484,910</td>
</tr>
<tr>
<td>3.</td>
<td>First Subtotal (1.-2.)</td>
<td>$86,493,018</td>
</tr>
<tr>
<td>4.</td>
<td>Customer Responsibility x 95%</td>
<td>$82,168,367</td>
</tr>
<tr>
<td>5.</td>
<td>Second Subtotal</td>
<td>$83,568,227</td>
</tr>
<tr>
<td>6.</td>
<td>Adjustment for Interest plus Under / Over recovery for Prior Periods less Factor N (I + R - N)</td>
<td>$1,399,860</td>
</tr>
<tr>
<td>7.</td>
<td>Third Subtotal</td>
<td>$83,568,227</td>
</tr>
<tr>
<td>8.</td>
<td>Estimated Recovery Period Sales kWh (SRP)</td>
<td>24,483,956,796</td>
</tr>
<tr>
<td>9.</td>
<td>FPA_{RP}</td>
<td>$0.00328</td>
</tr>
<tr>
<td>10.</td>
<td>FPA_{RP-1}</td>
<td>$0.00112</td>
</tr>
<tr>
<td>11.</td>
<td>FPA_{c} (without Voltage Level Adjustment)</td>
<td>$0.00440</td>
</tr>
<tr>
<td>12.</td>
<td>Voltage Level Adjustment Factor</td>
<td></td>
</tr>
<tr>
<td>12.1</td>
<td>Secondary x 1.0557</td>
<td>$0.00465</td>
</tr>
<tr>
<td>12.2</td>
<td>Primary x 1.0234</td>
<td>$0.00450</td>
</tr>
<tr>
<td>12.3</td>
<td>Large Transmission x 0.9906</td>
<td>$0.00436</td>
</tr>
<tr>
<td>13.</td>
<td>FPA_{c} (with voltage level adjustment)</td>
<td></td>
</tr>
<tr>
<td>13.1</td>
<td>Secondary</td>
<td>$0.00465</td>
</tr>
<tr>
<td>13.2</td>
<td>Primary</td>
<td>$0.00450</td>
</tr>
<tr>
<td>13.3</td>
<td>Large Transmission</td>
<td>$0.00436</td>
</tr>
</tbody>
</table>
RIDER FAC

FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE
*(Applicable To Service Provided Between January 2, 2013 And The Day Before The Effective Date Of This Tariff)*

APPLICABILITY

*This rider is applicable to kilowatt-hours (kWh) of energy supplied to customers served by the Company under Service Classification Nos. 1(M), 2(M), 3(M), 4(M), 5(M), 6(M), 7(M), 11(M), 12(M) and 13(M).*

Costs passed through this Fuel and Purchased Power Adjustment Clause (FAC) reflect differences between actual fuel and purchased power costs, including transportation and emissions costs and revenues, net of off-system sales revenues (OSSR) (i.e., Actual Net Energy Costs (ANEC)) and Net Base Energy Costs (B), calculated and recovered as provided for herein.

The Accumulation Periods and Recovery Periods are as set forth in the following table:

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AP means the four (4) calendar months during which the actual costs and revenues subject to this rider will be accumulated for the purposes of determining the Fuel Adjustment Rate (FAR).

RP means the billing months during which the FAR is applied to retail customer usage on a per kWh basis, as adjusted for service voltage.

The Company will make a FAR filing no later than sixty (60) days prior to the first billing cycle read date of the applicable Recovery Period above. All FAR filings shall be accompanied by detailed workpapers supporting the filing in an electronic format with all formulas intact.

FAR DETERMINATION

Ninety five percent (95%) of the difference between ANEC and B for each respective AP will be utilized to calculate the FAR under this rider pursuant to the following formula with the results stated as a separate line item on the customers' bills.

* Indicates Change.
RIDER FAC

FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont'd.)
*(Applicable To Service Provided Between January 2, 2013 And The Day Before The Effective Date Of This Tariff)

FAR DETERMINATION (Cont'd.)

For each FAR filing made, the FAR_{SP} is calculated as:

\[
FAR_{SP} = \frac{(ANEC - B) \times 95\% + I \pm P \pm T}{SRP}
\]

Where:

ANEC = FC + PP + E - OSSR
FC = Fuel costs and revenues associated with the Company’s generating plants.

These consist of the following:

1. For fossil fuel plants:
   A. the following costs and revenues (including applicable taxes) reflected in Federal Energy Regulatory Commission (FERC) Account 501 for: coal commodity, gas, alternative fuels, fuel additives, Btu adjustments assessed by coal suppliers, quality adjustments related to the sulfur content of coal assessed by coal suppliers, railroad transportation, switching and demurrage charges, railcar repair and inspection costs, railcar depreciation, railcar lease costs, similar costs associated with other applicable modes of transportation, fuel hedging costs, fuel oil adjustments included in commodity and transportation costs, oil costs, ash disposal costs and revenues, and revenues and expenses resulting from fuel and transportation portfolio optimization activities; and
   B. the following costs and revenues reflected in FERC Account 502 for: consumable costs related to Air Quality Control System (AQCS) operation, such as urea, limestone and powder activated carbon; and
   C. the following costs and revenues reflected in FERC Account 547 for: natural gas generation costs related to commodity, oil, transportation, storage, capacity reservation, fuel losses, hedging, and revenues and expenses resulting from fuel and transportation portfolio optimization activities; and

2. Costs and revenues in FERC Account 518 (Nuclear Fuel Expense), including nuclear fuel commodity and waste disposal expense, and nuclear fuel hedging costs.

PP = Purchased power costs and revenues and consists of the following:

1. Costs and revenues for purchased power reflected in FERC Accounts 555 and 575, excluding all charges under Midwest Independent Transmission System Operator, Inc. ("MISO") Schedules 10, 16, 17 and 24 (or any successor to those MISO Schedules), and excluding generation capacity charges for contracts with terms in excess of one (1) year. Such costs and revenues include:

* Indicates Change.
UNION ELECTRIC COMPANY  ELECTRIC SERVICE

MO.P.S.C. SCHEDULE NO. 6  1st Revised   SHEET NO. 72.2
CANCELLING MO.P.S.C. SCHEDULE NO. 6   Original   SHEET NO. 72.2

APPLYING TO  MISSOURI SERVICE AREA

RIDER FAC

FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont’d.)
*(Applicable To Service Provided Between January 2, 2013 And The Day Before The Effective Date Of This Tariff)

FAR DETERMINATION (Cont’d.)

A. MISO costs or revenues for MISO’s energy and operating reserve market settlement charge types and capacity market settlement clearing costs or revenues associated with:
   i. Energy;
   ii. Losses;
   iii. Congestion management including:
       a. Congestion;
       b. Financial Transmission Rights; and
       c. Auction Revenue Rights;
   iv. Generation capacity acquired in MISO’s capacity auction or market; provided such capacity is acquired for a term of one (1) year or less;
   v. Revenue sufficiency guarantees;
   vi. Revenue neutrality uplift;
   vii. Net inadvertent energy distribution amounts;
   viii. Ancillary Services, including:
       a. Regulating reserve service (MISO Schedule 3, or its successor);
       b. Energy imbalance service (MISO Schedule 4, or its successor);
       c. Spinning reserve service (MISO Schedule 5, or its successor); and
       d. Supplemental reserve service (MISO Schedule 6, or its successor); and
   ix. Demand response, including:
       a. Demand response allocation uplift; and
       b. Emergency demand response cost allocation (MISO Schedule 30, or its successor);

B. Non-MISO costs or revenues as follows:
   i. If received from a centrally administered market (e.g. PJM/SPP), costs or revenues of an equivalent nature to those identified for the MISO costs or revenues specified in subpart A of part 1 above;
   ii. If not received from a centrally administered market:
       a. Costs for purchases of energy; and
       b. Costs for purchases of generation capacity, provided such capacity is acquired for a term of one (1) year or less; and

* Indicates Change.
FAR DETERMINATION (Cont'd.)

C. Realized losses and costs (including broker commissions and fees) minus realized gains for financial swap transactions for electrical energy that are entered into for the purpose of mitigating price volatility associated with anticipated purchases of electrical energy for those specific time periods when the Company does not have sufficient economic energy resources to meet its native load obligations, so long as such swaps are for up to a quantity of electrical energy equal to the expected energy shortfall and for a duration up to the expected length of the period during which the shortfall is expected to exist; and

2. Insurance premiums in FERC Account 924 for replacement power insurance. Costs of purchased power will be reduced by expected replacement power insurance recoveries qualifying as assets under Generally Accepted Accounting Principles; and

3. All transmission service costs reflected in FERC Account 565 and all transmission service revenues reflected in FERC Account 456.1. Such transmission service costs and revenues include:
   A. MISO costs and revenues associated with:
      i. network transmission service (MISO Schedule 9 or its successor);
      ii. point-to-point transmission service (MISO Schedules 7 and 8 or their successors);
      iii. System control and dispatch, (MISO Schedule 1 or its successor);
      iv. Reactive supply and voltage control (MISO Schedule 2 or its successor);
      v. MISO Schedule 11 or its successor;
      vi. MISO Schedules 26, 26A, 37 and 38 or their successors; and
      vii. MISO Schedule 33;
   B. Non-MISO costs associated with:
      i. network transmission service;
      ii. point-to-point transmission service;
      iii. System control and dispatch; and
      iv. Reactive supply and voltage control.

* Indicates Change.
RIDER FAC

FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont’d.)
*(Applicable To Service Provided Between January 2, 2013 And The Day Before The Effective Date Of This Tariff)

FAR DETERMINATION (Cont’d.)

E = Costs and revenues for SO₂ and NOₓ emissions allowances in FERC Accounts 411.8, 411.9, and 509, including those associated with hedging.

OSSR = Costs and revenues in FERC Account 447 for:
1. Capacity;
2. Energy;
3. Ancillary services, including:
   A. Regulating reserve service (MISO Schedule 3, or its successor);
   B. Energy Imbalance Service (MISO Schedule 4, or its successor);
   C. Spinning reserve service (MISO Schedule 5, or its successor); and
   D. Supplemental reserve service (MISO Schedule 6, or its successor);
4. Make-whole payments, including:
   A. Price volatility; and
   B. Revenue sufficiency guarantee; and
5. Hedging.

Adjustment For Reduction of Service Classification 12(M) Billing Determinants:
Should the level of monthly billing determinants under Service Classification 12(M) fall below the level of normalized 12(M) monthly billing determinants as established in Case No. ER-2012-0166, an adjustment to OSSR shall be made in accordance with the following levels:

a) A reduction of less than 40,000,000 kWh in a given month
   - No adjustment will be made to OSSR.

b) A reduction of 40,000,000 kWh or greater in a given month
   - An adjustment excluding off-system sales revenue from OSSR will be made equal to the lesser of (1) all off-system sales revenues derived from all kWh of energy sold off-system due to the entire reduction, or (2) off-system sales revenues up to the reduction of 12(M) revenues compared to normalized 12(M) revenues as determined in Case No. ER-2012-0166.

* Indicates Change.
FAR DETERMINATION (Cont'd.)

For purposes of factors FC, E, and OSSR, “hedging” is defined as realized losses and costs (including broker commissions and fees associated with the hedging activities) minus realized gains associated with mitigating volatility in the Company’s cost of fuel, off-system sales and emission allowances, including but not limited to, the Company’s use of futures, options and over-the-counter derivatives including, without limitation, futures contracts, puts, calls, caps, floors, collars, and swaps.

Costs and revenues not specifically detailed in Factors FC, PP, E, or OSSR shall not be included in the Company's FAR filings; provided however, in the case of Factors PP or OSSR the market settlement charge types under which MISO or another centrally administered market (e.g., PJM or SPP) bills/credits a cost or revenue need not be specifically detailed in Factors PP or OSSR for the costs or revenues to be considered specifically detailed in Factors PP or OSSR; and provided further, should the MISO or another centrally administered market (e.g. PJM or SPP) implement a market settlement charge type not listed in Exhibit H of the Non-Unanimous Stipulation and Agreement Regarding Class Kilowatt-Hours, Revenues And Billing Determinants, Net Base Energy Costs, and Fuel Adjustment Clause Tariff Sheets approved in Case No. ER-2012-0166 (a “new charge type”):

A. The Company may include the new charge type cost or revenue in its FAR filings if the Company believes the new charge type cost or revenue possesses the characteristics of, and is of the nature of, the costs or revenues listed in factors PP or OSSR, as the case may be, subject to another party’s right to challenge the inclusion (or failure to include) as outlined in E. below;

B. The Company will include in its monthly reports required by the Commission's fuel adjustment clause rules notice of the new charge type no later than 60 days prior to the Company including the new charge type cost or revenue in a FAR filing. Such notice shall identify the proposed accounts affected by such change, provide a description of the new charge type demonstrating that it possesses the characteristics of, and is of the nature of, the costs or revenues listed in factors PP or OSSR as the case may be, and identify the preexisting market settlement charge type(s) which the new charge type replaces or supplements;

C. The Company will also provide notice in its monthly reports required by the Commission’s fuel adjustment clause rules that identifies the new charge type costs or revenues by amount, description and location within the monthly reports;

D. The Company shall account for the new charge type costs or revenues in a manner which allows for the transparent determination of current period and cumulative costs or revenues; and

* Indicates Change.
RIDER FAC

FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont'd.)

*(Applicable To Service Provided Between January 2, 2013 And The Day Before The Effective Date Of This Tariff)*

FAR DETERMINATION (Cont'd.)

E. If the Company includes a new charge type cost or revenue in a FAR filing and a party challenges the inclusion (or if the Company does not include a new charge type cost or revenue and a party challenges the failure to include it), such challenge will not delay approval of the FAR filing. To challenge the inclusion of a new charge type, a party shall make a filing with the Commission based upon that party’s contention that the new charge type costs or revenues at issue should not have been included, because they do not possess the characteristics of the costs or revenues listed in Factors PP or OSSR, as the case may be. To challenge the failure to include a new charge type, a party shall make a filing with the Commission based upon that party’s contention that the new charge type costs or revenues at issue should have been included, because they do possess the characteristics of the costs or revenues listed in Factors PP or OSSR, as the case may be. In the event of a challenge, the Company shall bear the burden of proof to support its decision to include or exclude or its failure to include or exclude a new charge type in a FAR filing. Should such challenge be upheld by the Commission, any such costs will refunded (or revenues retained) through a future FAR filing in a manner consistent with that utilized for Factor P.

Should FERC require any item covered by factors FC, PP, E or OSSR to be recorded in an account different than the FERC accounts listed in such factors, such items shall nevertheless be included in factor FC, PP, E or OSSR. In the month that the Company begins to record items in a different account, the Company will file with the Commission the previous account number, the new account number and what costs or revenues that flow through this Rider FAC are to be recorded in the account.

\[ B = BF \times S_{AP} \]

**BF** = The Base Factor, which is equal to the normalized value for the sum of allowable fuel costs (consistent with the term FC), plus cost of purchased power (consistent with the term PP), and emissions costs and revenues (consistent with the term E), less revenues from off-system sales (consistent with the term OSSR) divided by corresponding normalized retail kWh as adjusted for applicable losses. The normalized values referred to in the prior sentence shall be those values used to determine the revenue requirement in the Company’s most recent rate case. The BF applicable to June through September calendar months (BF\text{SUMMER}) is $0.01496 per kWh. The BF applicable to October through May calendar months (BF\text{WINTER}) is $0.01454 per kWh.

* Indicates Change.
RIDER FAC

FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont'd.)
*(Applicable To Service Provided Between January 2, 2013 And The Day Before The Effective Date Of This Tariff)

FAR DETERMINATION (Cont'd.)

\[ S_{AP} = \text{kWh during the AP that ended immediately prior to the FAR filing, as measured by taking the retail component of the Company's load settled at its MISO CP node (AMMO.UE or successor node), plus the kWh reductions up to the kWh of energy sold off-system associated with the 12(M) OSSR adjustment above plus the metered net energy output of any generating station operating within its certificated service territory as a behind the meter resource in MISO, the output of which served to reduce the Company's load settled at its MISO CP node (AMMO.UE or successor node).} \]

\[ S_{RP} = \text{Applicable RP estimated kWh representing the expected retail component of the Company's load settled at its MISO CP node (AMMO.UE or successor node) plus the metered net energy output of any generating station operating within its certificated service territory as a behind the meter resource in MISO, the output of which served to reduce the Company's load settled at its MISO CP node (AMMO.UE or successor node).} \]

\[ I = \text{Interest applicable to (i) the difference between ANEC and B for all kWh of energy supplied during an AP until those costs have been recovered; (ii) refunds due to prudence reviews ("P"), if any; and (iii) all under- or over-recovery balances created through operation of this FAC, as determined in the true-up filings ("T") provided for herein. Interest shall be calculated monthly at a rate equal to the weighted average interest rate paid on the Company’s short-term debt, applied to the month-end balance of items (i) through (iii) in the preceding sentence.} \]

\[ P = \text{Prudence disallowance amount, if any, as defined below.} \]

\[ T = \text{True-up amount as defined below.} \]

The FAR, which will be multiplied by the Voltage Adjustment Factors (VAF) set forth below is calculated as:

\[ \text{FAR} = \text{FAR}_{RP} + \text{FAR}_{(RP-1)} \]

where:

\[ \text{FAR} = \text{Fuel Adjustment Rate applied to retail customer usage on a per kWh basis starting with the applicable Recovery Period following the FAR filing.} \]

\[ \text{FAR}_{RP} = \text{FAR Recovery Period rate component calculated to recover under- or over-collection during the Accumulation Period that ended immediately prior to the applicable filing.} \]

\[ \text{FAR}_{(RP-1)} = \text{FAR Recovery Period rate component for the under- or over-collection during the Accumulation Period immediately preceding the Accumulation Period that ended immediately prior to the application filing for FAR}_{RP}. \]

* Indicates Change.

Issued pursuant to the Order of the Mo.P.S.C. in Case No. ER-2014-0258.

DATE OF ISSUE May 6, 2015

DATE EFFECTIVE June 5, 2015

ISSUED BY Michael Moehn

NAME OF OFFICER

President

TITLE

St. Louis, Missouri

ADDRESS
FAR DETERMINATION (Cont'd.)

To determine the FAR applicable to the individual Service Classifications, the FAR determined in accordance with the foregoing will be multiplied by the following Voltage Adjustment Factors (VAF):

- Secondary Voltage Service (VAFSEC) 1.0575
- Primary Voltage Service (VAFPRI) 1.0252
- Large Transmission Voltage Service (VAFTRAN) 0.9917

The FAR applicable to the individual Service Classifications shall be rounded to the nearest $0.00001 to be charged on a $/kWh basis for each applicable kWh billed.

TRUE-UP

After completion of each RP, the Company shall make a true-up filing on the same day as its FAR filing. Any true-up adjustments shall be reflected in T above. Interest on the true-up adjustment will be included in I above.

The true-up adjustments shall be the difference between the revenues billed and the revenues authorized for collection during the RP.

GENERAL RATE CASE/PRUDENCE REVIEWS

The following shall apply to this FAC, in accordance with Section 386.266.4, RSMo. and applicable Missouri Public Service Commission Rules governing rate adjustment mechanisms established under Section 386.266, RSMo:

The Company shall file a general rate case with the effective date of new rates to be no later than four years after the effective date of a Commission order implementing or continuing this FAC. The four-year period referenced above shall not include any periods in which the Company is prohibited from collecting any charges under this FAC, or any period for which charges hereunder must be fully refunded. In the event a court determines that this FAC is unlawful and all moneys collected hereunder are fully refunded, the Company shall be relieved of the obligation under this FAC to file such a rate case.

Prudence reviews of the costs subject to this FAC shall occur no less frequently than every eighteen months, and any such costs which are determined by the Commission to have been imprudently incurred or incurred in violation of the terms of this rider shall be returned to customers. Adjustments by Commission order, if any, pursuant to any prudence review shall be included in the FAR calculation in P above unless a separate refund is ordered by the Commission. Interest on the prudence adjustment will be included in I above.

* Indicates Change.
RIDER FAC

FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont’d.)
(Applicable To Calculation of Fuel Adjustment Rate for the Billing Months of June 2015 through September 2015)

*Calculation of Current Fuel Adjustment Rate (FAR):

Accumulation Period Ending: January, 31, 2015

1. Actual Net Energy Cost (ANEC) (FC+PP+E-OSSR) $ 247,303,227

2. Net Base Energy Cost (B) - $ 185,185,349
   2.1 Base Factor (BF) x $ 0.01454
   2.2 Accumulation Period Sales (SAF) 12,736,268,895 kWh

3. Total Company Fuel and Purchased Power Difference = $ 62,117,878
   3.1 Customer Responsibility x 95%

4. Fuel and Purchased Power Amount to be Recovered = $ 59,011,984
   4.1 Interest (I) + $ 339,400
   4.2 True-Up Amount (T) + $ 630,030
   4.3 Prudence Adjustment Amount (P) ±

5. Fuel and Purchased Power Adjustment (FPA) = $ 59,981,414

6. Estimated Recovery Period Sales (SRP) ÷ 26,517,199,004 kWh

7. Current Period Fuel Adjustment Rate (FARRP) = $ 0.00226/kWh

8. Prior Period Fuel Adjustment Rate (FARRP-1) + $ 0.00171/kWh

9. Fuel Adjustment Rate (FAR) = $ 0.00397/kWh

10. Secondary Voltage Adjustment Factor (VAFSEC) 1.0575

11. FAR for Secondary Customers (FARSEC) $0.00420/kWh

12. Primary Voltage Adjustment Factor (VAFPRI) 1.0252

13. FAR for Primary Customers (FARPRI) $0.00407/kWh

14. Transmission Voltage Adjustment Factor (VAFTRAN) 0.9917

15. FAR for Transmission Customers (FARTRAN) $0.00394/kWh

*Indicates Change.
RIDER FAC

FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE

*(Applicable To Service Provided Between May 30, 2015 And The Day Before The Effective Date Of This Tariff)*

APPLICABILITY

This rider is applicable to kilowatt-hours (kWh) of energy supplied to customers served by the Company under Service Classification Nos. 1(M), 2(M), 3(M), 4(M), 5(M), 6(M), 11(M), 12(M), and 13(M).

Costs passed through this Fuel and Purchased Power Adjustment Clause (FAC) reflect differences between actual fuel and purchased power costs, including transportation and emissions costs and revenues, net of off-system sales revenues (OSSR) (i.e., Actual Net Energy Costs (ANEC)) and Net Base Energy Costs (B), calculated and recovered as provided for herein.

The Accumulation Periods and Recovery Periods are as set forth in the following table:

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AP means the four (4) calendar months during which the actual costs and revenues subject to this rider will be accumulated for the purposes of determining the Fuel Adjustment Rate (FAR).

RP means the billing months during which the FAR is applied to retail customer usage on a per kWh basis, as adjusted for service voltage.

The Company will make a FAR filing no later than sixty (60) days prior to the first billing cycle read date of the applicable Recovery Period above. All FAR filings shall be accompanied by detailed workpapers supporting the filing in an electronic format with all formulas intact.

FAR DETERMINATION

Ninety five percent (95%) of the difference between ANEC and B for each respective AP will be utilized to calculate the FAR under this rider pursuant to the following formula with the results stated as a separate line item on the customers' bills.

*Indicates Change.
UNION ELECTRIC COMPANY  ELECTRIC SERVICE

MO.P.S.C. SCHEDULE NO.  6         1st Revised SHEET NO. 73.1
CANCELLING MO.P.S.C. SCHEDULE NO.  6         Original SHEET NO. 73.1

APPLYING TO  MISSOURI SERVICE AREA

RIDER FAC

FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont'd.)
*(Applicable To Service Provided Between May 30, 2015 And The Day Before The Effective Date Of This Tariff)

FAR DETERMINATION (Cont'd.)

For each FAR filing made, the FAR_{np} is calculated as:

\[ FAR_{np} = \frac{{[(ANEC - B) \times 95\% + I + P + T]}}{SRP} \]

Where:

ANEC = FC + PP + E - OSSR

FC = Fuel costs and revenues associated with the Company’s generating plants. These consist of the following:

1. For fossil fuel plants:
   A. the following costs and revenues (including applicable taxes) reflected in Federal Energy Regulatory Commission (FERC) Account 501 for: coal commodity, gas, alternative fuels, fuel additives, Btu adjustments assessed by coal suppliers, quality adjustments related to the sulfur content of coal assessed by coal suppliers, railroad transportation, switching and demurrage charges, railcar repair and inspection costs, railcar depreciation, railcar lease costs, similar costs associated with other applicable modes of transportation, fuel hedging costs, fuel oil adjustments included in commodity and transportation costs, oil costs, ash disposal costs and revenues, and revenues and expenses resulting from fuel and transportation portfolio optimization activities; and
   B. the following costs and revenues reflected in FERC Account 502 for: consumable costs related to Air Quality Control System (AQCS) operation, such as urea, limestone and powder activated carbon; and
   C. the following costs and revenues reflected in FERC Account 547, excluding fuel costs related to the Company’s landfill gas generating plant known as Maryland Heights Energy Center. Such costs and revenues include natural gas generation costs related to commodity, oil, transportation, storage, capacity reservation, fuel losses, hedging, and revenues and expenses resulting from fuel and transportation portfolio optimization activities; and

2. The following costs and revenues in FERC Account 518 (Nuclear Fuel Expense) for: nuclear fuel commodity expense, waste disposal expense, and nuclear fuel hedging costs.

PP = Purchased power costs and revenues and consists of the following:

1. The following costs and revenues for purchased power reflected in FERC Account 555, excluding all charges under Midwest Independent Transmission System Operator, Inc. ("MISO") Schedules 10, 16, 17 and 24 (or any successor to those MISO Schedules), and excluding generation capacity charges for contracts with terms in excess of one (1) year. Such costs and revenues include:

*Indicates Change.

Issued pursuant to the Order of the Mo.P.S.C. in Case No. ER-2016-0179.

DATE OF ISSUE         March 8, 2017         DATE EFFECTIVE         April 7, 2017

ISSUED BY  Michael Moehn  President  St. Louis, Missouri

NAME OF OFFICER TITLE ADDRESS
RIDER FAC

FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont'd.)

*(Applicable To Service Provided Between May 30, 2015 And The Day Before The Effective Date Of This Tariff)*

FAR DETERMINATION (Cont'd.)

A. MISO costs or revenues for MISO’s energy and operating reserve market settlement charge types and capacity market settlement clearing costs or revenues associated with:
   i. Energy;
   ii. Losses;
   iii. Congestion management:
      a. Congestion;
      b. Financial Transmission Rights; and
      c. Auction Revenue Rights;
   iv. Generation capacity acquired in MISO’s capacity auction or market; provided such capacity is acquired for a term of one (1) year or less;
   v. Revenue sufficiency guarantees;
   vi. Revenue neutrality uplift;
   vii. Net inadvertent energy distribution amounts;
   viii. Ancillary Services:
      a. Regulating reserve service (MISO Schedule 3, or its successor);
      b. Energy imbalance service (MISO Schedule 4, or its successor);
      c. Spinning reserve service (MISO Schedule 5, or its successor); and
      d. Supplemental reserve service (MISO Schedule 6, or its successor);
   ix. Demand response:
      a. Demand response allocation uplift; and
      b. Emergency demand response cost allocation (MISO Schedule 30, or its successor);

B. Non-MISO costs or revenues as follows:
   i. If received from a centrally administered market (e.g. PJM/SPP), costs or revenues of an equivalent nature to those identified for the MISO costs or revenues specified in subpart A of part 1 above;
   ii. If not received from a centrally administered market:
      a. Costs for purchases of energy; and
      b. Costs for purchases of generation capacity, provided such capacity is acquired for a term of one (1) year or less; and

* Indicates Change.
FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont'd.)
*(Applicable To Service Provided Between May 30, 2015 And The Day Before The Effective Date Of This Tariff)

FAR DETERMINATION (Cont'd.)

C. Realized losses and costs (including broker commissions and fees) minus realized gains for financial swap transactions for electrical energy that are entered into for the purpose of mitigating price volatility associated with anticipated purchases of electrical energy for those specific time periods when the Company does not have sufficient economic energy resources to meet its native load obligations, so long as such swaps are for up to a quantity of electrical energy equal to the expected energy shortfall and for a duration up to the expected length of the period during which the shortfall is expected to exist; and

2. Three and one-half percent (3.5%) of the transmission service costs reflected in FERC Account 565. Such transmission service costs include:

   A. MISO costs and revenues associated with:
      i. network transmission service (MISO Schedule 9 or its successor);
      ii. point-to-point transmission service (MISO Schedules 7 and 8 or their successors);
      iii. System control and dispatch, (MISO Schedule 1 or its successor);
      iv. Reactive supply and voltage control (MISO Schedule 2 or its successor);
      v. MISO Schedule 11 or its successor;
      vi. MISO Schedules 26, 26A, 37 and 38 or their successors; and
      vii. MISO Schedule 33;
      viii. MISO Schedules 41, 42-A, 42-B, 45 and 47;

   B. Non-MISO costs associated with:
      i. network transmission service;
      ii. point-to-point transmission service;
      iii. System control and dispatch; and
      iv. Reactive supply and voltage control.

*Indicates Change.
**RIDER FAC**

**FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont’d.)**

*(Applicable To Service Provided Between May 30, 2015 And The Day Before The Effective Date Of This Tariff)*

**FAR DETERMINATION (Cont’d.)**

\[ E = \text{Costs and revenues for SO}_2\text{ and NO}_x\text{ emissions allowances in FERC Accounts 411.8, 411.9, and 509, including those associated with hedging.} \]

\[ OSSR = \text{Costs and revenues in FERC Account 447 for:} \]

1. Capacity;
2. Energy;
3. Ancillary services, including:
   A. Regulating reserve service (MISO Schedule 3, or its successor);
   B. Energy Imbalance Service (MISO Schedule 4, or its successor);
   C. Spinning reserve service (MISO Schedule 5, or its successor); and
   D. Supplemental reserve service (MISO Schedule 6, or its successor);
4. Make-whole payments, including:
   A. Price volatility; and
   B. Revenue sufficiency guarantee; and
5. Hedging.

**Adjustment For Reduction of Service Classification 12(M) or 13(M) Billing Determinants:**

Should the level of monthly billing determinants under Service Classifications 12(M) or 13(M) fall below the level of normalized 12(M) or 13(M) monthly billing determinants as established in Case No. ER-2014-0258, an adjustment to OSSR shall be made in accordance with the following levels:

a) A reduction of less than 40,000,000 kWh in a given month
   - No adjustment will be made to OSSR.

b) A reduction of 40,000,000 kWh or greater in a given month
   - An adjustment excluding off-system sales revenue from OSSR will be made equal to the lesser of (1) all off-system sales revenues derived from all kWh of energy sold off-system due to the entire reduction, or (2) off-system sales revenues up to the reduction of 12(M) or 13(M) revenues compared to normalized 12(M) or 13(M) revenues as determined in Case No. ER-2014-0258.

* Indicates Change.
RIDER FAC

FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont'd.)

*(Applicable To Service Provided Between May 30, 2015 And The Day Before The Effective Date Of This Tariff)

FAR DETERMINATION (Cont'd.)

For purposes of factors FC, E, and OSSR, “hedging” is defined as realized losses and costs (including broker commissions and fees associated with the hedging activities) minus realized gains associated with mitigating volatility in the Company’s cost of fuel, off-system sales and emission allowances, including but not limited to, the Company’s use of futures, options and over-the-counter derivatives including, without limitation, futures contracts, puts, calls, caps, floors, collars, and swaps.

Costs and revenues not specifically detailed in Factors FC, PP, E, or OSSR shall not be included in the Company's FAR filings; provided however, in the case of Factors PP or OSSR the market settlement charge types under which MISO or another centrally administered market (e.g., PJM or SPP) bills/credits a cost or revenue need not be detailed in Factors PP or OSSR for the costs or revenues to be considered specifically detailed in Factors PP or OSSR; and provided further, should the MISO or another centrally administered market (e.g. PJM or SPP) implement a market settlement charge type or schedule not listed in the FAC Charge Type Exhibit filed with the Commission in File No. ER-2014-0258 on May 6, 2015 (a “new charge type”):

A. The Company may include the new charge type cost or revenue in its FAR filings if the Company believes the new charge type cost or revenue possesses the characteristics of, and is of the nature of, the costs or revenues listed in factors PP or OSSR, as the case may be, subject to the requirement that the Company make a filing with the Commission as outlined in B below and also subject to another party’s right to challenge the inclusion as outlined in E below;

B. The Company will make a filing with the Commission giving the Commission notice of the new charge type no later than 60 days prior to the Company including the new charge type cost or revenue in a FAR filing. Such filing shall identify the proposed accounts affected by such change, provide a description of the new charge type demonstrating that it possesses the characteristics of, and is of the nature of, the costs or revenues listed in factors PP or OSSR as the case may be, and identify the preexisting market settlement charge type(s) which the new charge type replaces or supplements;

C. The Company will also provide notice in its monthly reports required by the Commission’s fuel adjustment clause rules that identifies the new charge type costs or revenues by amount, description and location within the monthly reports;

D. The Company shall account for the new charge type costs or revenues in a manner which allows for the transparent determination of current period and cumulative costs or revenues; and

* Indicates Change.
RIDER FAC

FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont’d.)

*(Applicable To Service Provided Between May 30, 2015 And The Day Before The Effective Date Of This Tariff)

FAR DETERMINATION (Cont’d.)

E. If the Company makes the filing provided for in B above and a party challenges the inclusion, such challenge will not delay approval of the FAR filing. To challenge the inclusion of a new charge type, a party shall make a filing with the Commission based upon that party’s contention that the new charge type costs or revenues at issue should not have been included, because they do not possess the characteristics of the costs or revenues listed in Factors PP or OSSR, as the case may be. A party wishing to challenge the inclusion of a charge type shall include in its filing the reasons why it believes the Company did not show that the new charge type possesses the characteristics of the costs or revenues listed in Factors PP or OSSR, as the case may be, and its filing shall be made within 30 days of the Company’s filing under B above. In the event of a timely challenge, the Company shall bear the burden of proof to support its decision to include a new charge type in a FAR filing. Should such challenge be upheld by the Commission, any such costs will be refunded (or revenues retained) through a future FAR filing in a manner consistent with that utilized for Factor P; and

F. A party other than the Company may seek the inclusion of a new charge type in a FAR filing by making a filing with the Commission no less than 60 days before the Company’s next FAR filing. Such a filing shall give the Commission notice that such party believes the new charge type should be included because it possesses the characteristics of, and is of the nature of, the costs or revenues listed in factors PP or OSSR, as the case may be. The party’s filing shall identify the proposed accounts affected by such change, provide a description of the new charge type demonstrating that it possesses the characteristics of, and is of the nature of, the costs or revenues listed in factors PP or OSSR as the case may be, and identify the preexisting market settlement charge type(s) which the new charge type replaces or supplements. If a party makes the filing provided for by this paragraph F and a party (including the Company) challenges the inclusion, such challenge will not delay inclusion of the new charge type in the FAR filing or delay approval of the FAR filing. To challenge the inclusion of a new charge type, the challenging party shall make a filing with the Commission based upon that party’s contention that the new charge type costs or revenues at issue should not have been included, because they do not possess the characteristics of the costs or revenues listed in Factors PP or OSSR, as the case may be. The challenging party shall make its filing challenging the inclusion and stating the reasons why it believes the new charge type does not possess the characteristic of the costs or revenues listed in Factors PP or OSSR, as the case may be, within 30 days of the

*Indicates Change.
RIDERS AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont'd.)

*(Applicable To Service Provided Between May 30, 2015 And The Day Before The Effective Date Of This Tariff)*

**FAR DETERMINATION (Cont'd.)**

Filing that seeks inclusion of the new charge type. In the event of a timely challenge, the party seeking the inclusion of the new charge type shall bear the burden of proof to support its contention that the new charge type should be included in the Company’s FAR filings. Should such challenge be upheld by the Commission, any such costs will be refunded (or revenues retained) through a future FAR filing in a manner consistent with that utilized for Factor P.

Should FERC require any item covered by factors FC, PP, E or OSSR to be recorded in an account different than the FERC accounts listed in such factors, such items shall nevertheless be included in factor FC, PP, E or OSSR. In the month that the Company begins to record items in a different account, the Company will file with the Commission the previous account number, the new account number and what costs or revenues that flow through this Rider FAC are to be recorded in the account.

\[ B = BF \times S_{AP} \]

BF = The Base Factor, which is equal to the normalized value for the sum of allowable fuel costs (consistent with the term FC), plus cost of purchased power (consistent with the term PP), and emissions costs and revenues (consistent with the term E), less revenues from off-system sales (consistent with the term OSSR) divided by corresponding normalized retail kWh as adjusted for applicable losses. The normalized values referred to in the prior sentence shall be those values used to determine the revenue requirement in the Company’s most recent rate case. The BF applicable to June through September calendar months (BF_{SUMMER}) is $0.01796 per kWh. The BF applicable to October through May calendar months (BF_{WINTER}) is $0.01729 per kWh.

S_{AP} = kWh during the AP that ended immediately prior to the FAR filing, as measured by taking the most recent kWh data for the retail component of the Company’s load settled at its MISO CP node (AMMO.UE or successor node), plus the kWh reductions up to the kWh of energy sold off-system associated with the 12(M) or 13(M) OSSR adjustment above plus the metered net energy output of any generating station operating within its certificated service territory as a behind the meter resource in MISO, the output of which served to reduce the Company’s load settled at its MISO CP node (AMMO.UE or successor node).

*Indicates Change.

Issued pursuant to the Order of the Mo.P.S.C. in Case No. ER-2016-0179.

DATE OF ISSUE: March 8, 2017

DATE EFFECTIVE: April 7, 2017

Issued by Michael Moehn

President

St. Louis, Missouri
RIDER FAC

FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont'd.)
*(Applicable To Service Provided Between May 30, 2015 And The Day Before The Effective Date Of This Tariff)

FAR DETERMINATION (Cont'd.)

\[ S_{RP} = \text{Applicable RP estimated kWh representing the expected retail component of the Company's load settled at its MISO CP node (AMMO.UE or successor node) plus the metered net energy output of any generating station operating within its certificated service territory as a behind the meter resource in MISO, the output of which served to reduce the Company's load settled at its MISO CP node (AMMO.UE or successor node).} \]

\[ I = \text{Interest applicable to (i) the difference between ANEC and B for all kWh of energy supplied during an AP until those costs have been recovered; (ii) refunds due to prudence reviews ("P"), if any; and (iii) all under- or over-recovery balances created through operation of this FAC, as determined in the true-up filings ("T") provided for herein. Interest shall be calculated monthly at a rate equal to the weighted average interest rate paid on the Company's short-term debt, applied to the month-end balance of items (i) through (iii) in the preceding sentence.} \]

\[ P = \text{Prudence disallowance amount, if any, as defined below.} \]

\[ T = \text{True-up amount as defined below.} \]

The FAR, which will be multiplied by the Voltage Adjustment Factors (VAF) set forth below is calculated as:

\[ \text{FAR} = \text{FAR}_{SP} + \text{FAR}_{(SP-1)} \]

where:

\[ \text{FAR} = \text{Fuel Adjustment Rate applied to retail customer usage on a per kWh basis starting with the applicable Recovery Period following the FAR filing.} \]

\[ \text{FAR}_{SP} = \text{FAR Recovery Period rate component calculated to recover under- or over-collection during the Accumulation Period that ended immediately prior to the applicable filing.} \]

\[ \text{FAR}_{(SP-1)} = \text{FAR Recovery Period rate component for the under- or over-collection during the Accumulation Period immediately preceding the Accumulation Period that ended immediately prior to the application filing for FAR}_{SP}. \]

* Indicates Change.
**RIDER FAC**

**FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont’d.)**

*(Applicable To Service Provided Between May 30, 2015 And The Day Before The Effective Date Of This Tariff)*

**FAR DETERMINATION (Cont’d.)**

The Initial Rate Component For the Individual Service Classifications shall be determined by multiplying the FAR in accordance with the foregoing by the following Voltage Adjustment Factors (VAF):

- Secondary Voltage Service (VAFSEC) 1.0575
- Primary Voltage Service (VAFPRI) 1.0252
- Transmission Voltage Service (VAFTRAN) 0.9917

Customers served by the Company under Service Classification No. 13(M), Industrial Aluminum Smelter (IAS) Service shall be capped such that their FARIAS, adjusted for applicable voltage service, does not exceed $0.00200/kWh, with FARIAS to be determined as follows:

\[
FAR_{IAS} = \text{the lesser of }$0.00200/\text{kWh or the Initial Rate Component For Transmission Customers}
\]

Where the Initial Rate Component for Transmission Customers is greater than $0.00200/kWh, then a Per kWh FAR Shortfall Adder shall apply to each of the respective Initial Rate Components to be determined as follows:

\[
\text{Per kWh FAR Shortfall Adder} = \frac{((\text{Initial Rate Component For Transmission Customers} - FAR_{IAS}) \times S_{IAS})}{(S_{RP} - S_{RP-IAS})}
\]

Where:

- \(S_{IAS}\) = Estimated Recovery Period IAS kWh sales at the retail meter
- \(S_{RP-IAS}\) = Estimated Recovery Period IAS kwh sales at the Company’s MISO CP Node (AMMO.UE or successor node)

The FAR Applicable to the Individual Service Classifications shall be determined as follows:

- \(FAR_{SEC}\) = Initial Rate Component For Secondary Customers + (Per kWh FAR Shortfall Adder x VAFSEC)
- \(FAR_{PRI}\) = Initial Rate Component For Primary Customers + (Per kWh FAR Shortfall Adder x VAFPRI)
- \(FAR_{TRAN}\) = Initial Rate Component For Transmission Customers + (Per kWh FAR Shortfall Adder x VAFTRAN)

The FAR applicable to the individual Service Classifications shall be rounded to the nearest $0.00001 to be charged on a $/kWh basis for each applicable kWh billed.

**TRUE-UP**

After completion of each RP, the Company shall make a true-up filing on the same day as its FAR filing. Any true-up adjustments shall be reflected in T above. Interest on the true-up adjustment will be included in I above.

*Indicates Change.

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**DATE OF ISSUE** March 8, 2017

**DATE EFFECTIVE** April 7, 2017

**ISSUED BY** Michael Moehn President St. Louis, Missouri

**NAME OF OFFICER**

**TITLE**

**ADDRESS**
RIDER FAC

FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont’d.)
*(Applicable To Service Provided Between May 30, 2015 And The Day Before The Effective Date Of This Tariff)

TRUE-UP (Cont’d.)
The true-up adjustments shall be the difference between the revenues billed and the revenues authorized for collection during the RP.

GENERAL RATE CASE/PRUDENCE REVIEWS
The following shall apply to this FAC, in accordance with Section 386.266.4, RSMo. and applicable Missouri Public Service Commission Rules governing rate adjustment mechanisms established under Section 386.266, RSMo:

The Company shall file a general rate case with the effective date of new rates to be no later than four years after the effective date of a Commission order implementing or continuing this FAC. The four-year period referenced above shall not include any periods in which the Company is prohibited from collecting any charges under this FAC, or any period for which charges hereunder must be fully refunded. In the event a court determines that this FAC is unlawful and all moneys collected hereunder are fully refunded, the Company shall be relieved of the obligation under this FAC to file such a rate case.

Prudence reviews of the costs subject to this FAC shall occur no less frequently than every eighteen months, and any such costs which are determined by the Commission to have been imprudently incurred or incurred in violation of the terms of this rider shall be returned to customers. Adjustments by Commission order, if any, pursuant to any prudence review shall be included in the FAR calculation in P above unless a separate refund is ordered by the Commission. Interest on the prudence adjustment will be included in I above.

* Indicates Change.

Issued pursuant to the Order of the Mo.P.S.C. in Case No. ER-2016-0179.

DATE OF ISSUE March 8, 2017    DATE EFFECTIVE April 7, 2017

ISSUED BY Michael Moehn  President  St. Louis, Missouri

NAME OF OFFICER TITLE ADDRESS
**RIDER FAC**

**FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont’d.)**

(Applicable To Calculation of Fuel Adjustment Rate for the Billing Months of June 2017 through September 2017)

*Calculation of Current Fuel Adjustment Rate (FAR):*

<table>
<thead>
<tr>
<th>Accumulation Period Ending:</th>
<th>January 31, 2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Actual Net Energy Cost</td>
<td>(ANEC) (FC+PP+E-OSSR) $210,620,197</td>
</tr>
<tr>
<td>2. Net Base Energy Cost (B)</td>
<td>(BF x S_AP) $209,251,548</td>
</tr>
<tr>
<td>2.1 Base Factor (BF)</td>
<td>$0.01729/kWh</td>
</tr>
<tr>
<td>2.2 Accumulation Period Sales (S_AP)</td>
<td>12,102,460,901 kWh</td>
</tr>
<tr>
<td>3. Total Company Fuel and Purchased Power Difference</td>
<td>$1,368,649</td>
</tr>
<tr>
<td>3.1 Customer Responsibility</td>
<td>x 95%</td>
</tr>
<tr>
<td>4. Fuel and Purchased Power Amount to be Recovered</td>
<td>$1,300,217</td>
</tr>
<tr>
<td>4.1 Interest (I)</td>
<td>$494,654</td>
</tr>
<tr>
<td>4.2 True-Up Amount (T)</td>
<td>$562,405</td>
</tr>
<tr>
<td>4.3 Prudence Adjustment Amount (P)</td>
<td>$0</td>
</tr>
<tr>
<td>5. Fuel and Purchased Power Adjustment (FPA)</td>
<td>$1,232,466</td>
</tr>
<tr>
<td>6. Estimated Recovery Period Sales (S_RP)</td>
<td>$23,465,388,463 kWh</td>
</tr>
<tr>
<td>7. Current Period Fuel Adjustment Rate (FAR_RP)</td>
<td>$0.00005/kWh</td>
</tr>
<tr>
<td>8. Prior Period Fuel Adjustment Rate (FAR_RP-1)</td>
<td>$0.00060/kWh</td>
</tr>
<tr>
<td>9. Fuel Adjustment Rate (FAR)</td>
<td>$0.00065/kWh</td>
</tr>
</tbody>
</table>

**FAR Applicable to the Individual Service Classifications**

| 10. Secondary Voltage Adjustment Factor (VAF_SEC) | 1.0575 |
| 10.1 Fuel Adjustment Rate (FAR) = | $0.00065/kWh |
| 11. FAR for Secondary Customers (FAR_SEC) | $0.00069/kWh |
| 12. Primary Voltage Adjustment Factor (VAF_PRI) | 1.0252 |
| 12.1 Fuel Adjustment Rate (FAR) = | $0.00065/kWh |
| 13. FAR for Primary Customers (FAR_PRI) | $0.00067/kWh |
| 14. Transmission Voltage Adjustment Factor (VAF_TRAN) | 0.9917 |
| 14.1 Fuel Adjustment Rate (FAR) = | $0.00065/kWh |
| 15. FAR for Transmission Customers (FAR_TRAN) | $0.00065/kWh |

*Indicates Change.
RIDER FAC

FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE
(Applicable To Service Provided On The Effective Date Of This Tariff Sheet And Thereafter)

APPLICABILITY

*This rider is applicable to kilowatt-hours (kWh) of energy supplied to customers served by the Company under Service Classification Nos. 1(M), 2(M), 3(M), 4(M), 5(M), 6(M), 11(M), and 12(M).

Costs passed through this Fuel and Purchased Power Adjustment Clause (FAC) reflect differences between actual fuel and purchased power costs, including transportation and emissions costs and revenues, net of off-system sales revenues (OSSR) (i.e., Actual Net Energy Costs (ANEC)) and Net Base Energy Costs (B), calculated and recovered as provided for herein.

The Accumulation Periods and Recovery Periods are as set forth in the following table:

<table>
<thead>
<tr>
<th>Accumulation Period (AP)</th>
<th>Recovery Period (RP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>February through May</td>
<td>October through May</td>
</tr>
<tr>
<td>June through September</td>
<td>February through September</td>
</tr>
<tr>
<td>October through January</td>
<td>June through January</td>
</tr>
</tbody>
</table>

AP means the four (4) calendar months during which the actual costs and revenues subject to this rider will be accumulated for the purposes of determining the Fuel Adjustment Rate (FAR).

RP means the billing months during which the FAR is applied to retail customer usage on a per kWh basis, as adjusted for service voltage.

The Company will make a FAR filing no later than sixty (60) days prior to the first billing cycle read date of the applicable Recovery Period above. All FAR filings shall be accompanied by detailed workpapers supporting the filing in an electronic format with all formulas intact.

FAR DETERMINATION

Ninety five percent (95%) of the difference between ANEC and B for each respective AP will be utilized to calculate the FAR under this rider pursuant to the following formula with the results stated as a separate line item on the customers' bills.

*Indicates Change.

Issued pursuant to the Order of the Mo.P.S.C. in Case No. ER-2016-0179.

DATE OF ISSUE March 8, 2017  DATE EFFECTIVE April 7, 2017

ISSUED BY Michael Moehn  NAME OF OFFICER President

ADDRESS St. Louis, Missouri
FAR DETERMINATION (Cont’d.)

For each FAR filing made, the FAR$_{rg}$ is calculated as:

$$\text{FAR}_{rg} = \frac{[(\text{ANEC} - B) \times 95\% \pm I \pm P \pm T]}{\text{SRP}}$$

Where:

* ANEC = FC + PP + E ± R – OSSR
* FC = Fuel costs and revenues associated with the Company’s generating plants that are listed in Federal Energy Regulatory Commission ("FERC") Account 151 and recorded in FERC Accounts 501 or 547, and all costs and revenues that are recorded in FERC Account 518. These include the following:

1. For fossil fuel plants:
   *A. the following costs and revenues (including applicable taxes) arising from steam plant operations: coal commodity, gas, alternative fuels, Btu adjustments assessed by coal suppliers, quality adjustments related to the sulfur content of coal assessed by coal suppliers, railroad transportation, switching and demurrage charges, railcar repair and inspection costs, railcar depreciation, railcar lease costs, similar costs associated with other applicable modes of transportation, fuel hedging costs, fuel oil adjustments included in commodity and transportation costs, fuel additive costs included in commodity or transportation costs, oil costs, and expenses resulting from fuel and transportation portfolio optimization activities; and
   *B. the following costs and revenues (including applicable taxes) arising from non-steam plant operations: natural gas generation costs related to commodity, oil, transportation, storage, capacity reservation, fuel losses, hedging, and revenues and expenses resulting from fuel and transportation portfolio optimization activities, but excluding fuel costs related to the Company’s landfill gas generating plant known as Maryland Heights Energy Center; and

2. The following costs and revenues (including applicable taxes) arising from nuclear plant operations: nuclear fuel commodity expense, waste disposal expense, and nuclear fuel hedging costs.

PP = Purchased power costs and revenues and consists of the following:

*1. The following costs and revenues for purchased power reflected in FERC Account 555, excluding all charges under Midcontinent Independent System Operator, Inc. ("MISO") Schedules 10, 16, 17 and 24 (or any successor to those MISO Schedules), and excluding generation capacity charges for contracts with terms in excess of one (1) year. Such costs and revenues include:

*Indicates Change.
FAR DETERMINATION (Cont'd.)

A. MISO costs or revenues for MISO’s energy and operating reserve market settlement charge types and capacity market settlement clearing costs or revenues associated with:
   i. Energy;
   ii. Losses;

iii. Congestion management:
    a. Congestion;
    b. Financial Transmission Rights; and
    c. Auction Revenue Rights;

iv. Generation capacity acquired in MISO’s capacity auction or market; provided such capacity is acquired for a term of one (1) year or less;

v. Revenue sufficiency guarantees;

vi. Revenue neutrality uplift;

vii. Net inadvertent energy distribution amounts;

viii. Ancillary Services:
    a. Regulating reserve service (MISO Schedule 3, or its successor);
    b. Energy imbalance service (MISO Schedule 4, or its successor);
    c. Spinning reserve service (MISO Schedule 5, or its successor); and
    d. Supplemental reserve service (MISO Schedule 6, or its successor); and

ix. Demand response:
    a. Demand response allocation uplift; and
    b. Emergency demand response cost allocation (MISO Schedule 30, or its successor);

B. Non-MISO costs or revenues as follows:
   i. If received from a centrally administered market (e.g. PJM/SPP), costs or revenues of an equivalent nature to those identified for the MISO costs or revenues specified in subpart A of part 1 above;

   ii. If not received from a centrally administered market:
    a. Costs for purchases of energy; and
    b. Costs for purchases of generation capacity, provided such capacity is acquired for a term of one (1) year or less; and

FILED Missouri Public Service Commission ER-2016-0179; YE-2017-0173 April 1, 2017
RIDER FAC

FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont'd.)
(Applicable To Service Provided On The Effective Date Of This Tariff Sheet And Thereafter)

FAR DETERMINATION (Cont'd.)

C. Realized losses and costs (including broker commissions and fees) minus realized gains for financial swap transactions for electrical energy that are entered into for the purpose of mitigating price volatility associated with anticipated purchases of electrical energy for those specific time periods when the Company does not have sufficient economic energy resources to meet its native load obligations, so long as such swaps are for up to a quantity of electrical energy equal to the expected energy shortfall and for a duration up to the expected length of the period during which the shortfall is expected to exist; and

*2. One and 71/100 percent (1.71%) of transmission service costs reflected in FERC Account 565 and one and 71/100 percent (1.71%) of transmission revenues reflected in FERC Account 456.1 (excluding costs or revenues under MISO Schedule 10, or any successor to that MISO Schedule). Such transmission service costs and revenues included in Factor PP include:

A. MISO costs and revenues associated with:
   i. Network transmission service (MISO Schedule 9 or its successor);
   ii. Point-to-point transmission service (MISO Schedules 7 and 8 or their successors);
   iii. System control and dispatch (MISO Schedule 1 or its successor);
   iv. Reactive supply and voltage control (MISO Schedule 2 or its successor);
   v. MISO Schedule 11 or its successor;
   vi. MISO Schedules 26, 26A, 37 and 38 or their successors;
   vii. MISO Schedule 33; and
   viii. MISO Schedules 41, 42-A, 42-B, 45 and 47;

B. Non-MISO costs and revenues associated with:
   i. Network transmission service;
   ii. Point-to-point transmission service;
   iii. System control and dispatch; and
   iv. Reactive supply and voltage control.

*Indicates Change.
RIDER FAC

FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont'd.)
(Applicable To Service Provided On The Effective Date Of This Tariff Sheet And Thereafter)

FAR DETERMINATION (Cont'd.)

E = Costs and revenues for SO₂ and NOₓ emissions allowances in FERC Accounts 411.8, 411.9, and 509, including those associated with hedging.

** R = Net insurance recoveries for costs/revenues included in this Rider FAC (and the insurance premiums paid to maintain such insurance), and subrogation recoveries and settlement proceeds related to costs/revenues included in this Rider FAC.

* OSSR = Costs and revenues in FERC Account 447 for:
1. Capacity;
2. Energy;
3. Ancillary services, including:
   A. Regulating reserve service (MISO Schedule 3, or its successor);
   B. Energy Imbalance Service (MISO Schedule 4, or its successor);
   C. Spinning reserve service (MISO Schedule 5, or its successor); and
   D. Supplemental reserve service (MISO Schedule 6, or its successor);
4. Make-whole payments, including:
   A. Price volatility; and
   B. Revenue sufficiency guarantee; and
5. Hedging.

* Indicates Change. ** Indicates Addition.
RIDER FAC

FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont'd.)
(Applicable To Service Provided On The Effective Date Of This Tariff Sheet And Thereafter)

FAR DETERMINATION (Cont'd.)

For purposes of factors FC, E, and OSSR, “hedging” is defined as realized losses and costs (including broker commissions and fees associated with the hedging activities) minus realized gains associated with mitigating volatility in the Company’s cost of fuel, off-system sales and emission allowances, including but not limited to, the Company’s use of futures, options and over-the-counter derivatives including, without limitation, futures contracts, puts, calls, caps, floors, collars, and swaps.

*Costs and revenues not specifically detailed in Factors FC, PP, E, or OSSR shall not be included in the Company's FAR filings; provided however, in the case of Factors PP or OSSR the market settlement charge types under which MISO or another centrally administered market (e.g., PJM or SPP) bills/credits a cost or revenue need not be detailed in Factors PP or OSSR for the costs or revenues to be considered specifically detailed in Factors PP or OSSR; and provided further, should the MISO or another centrally administered market (e.g. PJM or SPP) implement a market settlement charge type or schedule not listed in the FAC Charge Type Table included in this rider (a "new charge type"): 

A. The Company may include the new charge type cost or revenue in its FAR filings if the Company believes the new charge type cost or revenue possesses the characteristics of, and is of the nature of, the costs or revenues listed in factors PP or OSSR, as the case may be, subject to the requirement that the Company make a filing with the Commission as outlined in B below and also subject to another party’s right to challenge the inclusion as outlined in E. below;

B. The Company will make a filing with the Commission giving the Commission notice of the new charge type no later than 60 days prior to the Company including the new charge type cost or revenue in a FAR filing. Such filing shall identify the proposed accounts affected by such change, provide a description of the new charge type demonstrating that it possesses the characteristics of, and is of the nature of, the costs or revenues listed in factors PP or OSSR as the case may be, and identify the preexisting market settlement charge type(s) which the new charge type replaces or supplements;

C. The Company will also provide notice in its monthly reports required by the Commission's fuel adjustment clause rules that identifies the new charge type costs or revenues by amount, description and location within the monthly reports;

D. The Company shall account for the new charge type costs or revenues in a manner which allows for the transparent determination of current period and cumulative costs or revenues; and

* Indicates Change.
RIDER FAC

FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont'd.)
(Applicable To Service Provided On The Effective Date Of This Tariff Sheet And Thereafter)

FAR DETERMINATION (Cont'd.)

E. If the Company makes the filing provided for in B above and a party challenges the inclusion, such challenge will not delay approval of the FAR filing. To challenge the inclusion of a new charge type, a party shall make a filing with the Commission based upon that party’s contention that the new charge type costs or revenues at issue should not have been included, because they do not possess the characteristics of the costs or revenues listed in Factors PP or OSSR, as the case may be. A party wishing to challenge the inclusion of a charge type shall include in its filing the reasons why it believes the Company did not show that the new charge type possesses the characteristics of the costs or revenues listed in Factors PP or OSSR, as the case may be, and its filing shall be made within 30 days of the Company’s filing under B above. In the event of a timely challenge, the Company shall bear the burden of proof to support its decision to include a new charge type in a FAR filing. Should such challenge be upheld by the Commission, any such costs will be refunded (or revenues retained) through a future FAR filing in a manner consistent with that utilized for Factor P; and

F. A party other than the Company may seek the inclusion of a new charge type in a FAR filing by making a filing with the Commission no less than 60 days before the Company’s next FAR filing. Such a filing shall give the Commission notice that such party believes the new charge type should be included because it possesses the characteristics of, and is of the nature of, the costs or revenues listed in factors PP or OSSR, as the case may be. The party’s filing shall identify the proposed accounts affected by such change, provide a description of the new charge type demonstrating that it possesses the characteristics of, and is of the nature of, the costs or revenues listed in factors PP or OSSR as the case may be, and identify the preexisting market settlement charge type(s) which the new charge type replaces or supplements. If a party makes the filing provided for by this paragraph F and a party (including the Company) challenges the inclusion, such challenge will not delay inclusion of the new charge type in the FAR filing or delay approval of the FAR filing. To challenge the inclusion of a new charge type, the challenging party shall make a filing with the Commission based upon that party’s contention that the new charge type costs or revenues at issue should not have been included, because they do not possess the characteristics of the costs or revenues listed in Factors PP or OSSR, as the case may be. The challenging party shall make its filing challenging the inclusion and stating the reasons why it believes the new charge type does not possess the characteristic of the costs or revenues listed in Factors PP or OSSR, as the case may be, within 30 days of the
RIDER FAC

FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont'd.)
(Applicable to service provided on the effective date of this tariff sheet and thereafter)

FAR DETERMINATION (Cont'd.)

filing that seeks inclusion of the new charge type. In the event of a timely challenge, the party seeking the inclusion of the new charge type shall bear the burden of proof to support its contention that the new charge type should be included in the Company’s FAR filings. Should such challenge be upheld by the Commission, any such costs will be refunded (or revenues retained) through a future FAR filing in a manner consistent with that utilized for Factor P.

Should FERC require any item covered by factors FC, PP, E or OSSR to be recorded in an account different than the FERC accounts listed in such factors, such items shall nevertheless be included in factor FC, PP, E or OSSR. In the month that the Company begins to record items in a different account, the Company will file with the Commission the previous account number, the new account number and what costs or revenues that flow through this Rider FAC are to be recorded in the account.

\[ B = BF \times SAP \]

*BF = The Base Factor, which is equal to the normalized value for the sum of allowable fuel costs (consistent with the term FC), plus cost of purchased power (consistent with the term PP), and emissions costs and revenues (consistent with the term E), less revenues from off-system sales (consistent with the term OSSR) divided by corresponding normalized retail kWh as adjusted for applicable losses. The normalized values referred to in the prior sentence shall be those values used to determine the revenue requirement in the Company’s most recent rate case. The BF applicable to June through September calendar months (BF_SUMMER) is $0.01565 per kWh. The BF applicable to October through May calendar months (BF_WINTER) is $0.01536 per kWh.

*SAP = kWh during the AP that ended immediately prior to the FAR filing, as measured by taking the most recent kWh data for the retail component of the Company’s load settled at its MISO CP node (AMMO.UE or successor node), plus the metered net energy output of any generating station operating within its certificated service territory as a behind the meter resource in MISO, the output of which served to reduce the Company’s load settled at its MISO CP node (AMMO.UE or successor node).

*Indicates Change.
RIDER FAC

FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont'd.)
(Applicable To Service Provided On The Effective Date Of This Tariff Sheet And Thereafter)

FAR DETERMINATION (Cont'd.)

S_RP = Applicable RP estimated kWh representing the expected retail component of the Company's load settled at its MISO CP node (AMMO.UE or successor node) plus the metered net energy output of any generating station operating within its certificated service territory as a behind the meter resource in MISO, the output of which served to reduce the Company's load settled at its MISO CP node (AMMO.UE or successor node).

I = Interest applicable to (i) the difference between ANEC and B for all kWh of energy supplied during an AP until those costs have been recovered; (ii) refunds due to prudence reviews (“P”), if any; and (iii) all under- or over-recovery balances created through operation of this FAC, as determined in the true-up filings (“T”) provided for herein. Interest shall be calculated monthly at a rate equal to the weighted average interest rate paid on the Company’s short-term debt, applied to the month-end balance of items (i) through (iii) in the preceding sentence.

P = Prudence disallowance amount, if any, as defined below.

T = True-up amount as defined below.

The FAR, which will be multiplied by the Voltage Adjustment Factors (VAF) set forth below is calculated as:

\[ \text{FAR} = \text{FAR}_{\text{RP}} + \text{FAR}_{(\text{RP}-1)} \]

where:

FAR = Fuel Adjustment Rate applied to retail customer usage on a per kWh basis starting with the applicable Recovery Period following the FAR filing.

FAR_{RP} = FAR Recovery Period rate component calculated to recover under- or over-collection during the Accumulation Period that ended immediately prior to the applicable filing.

FAR_{(RP-1)} = FAR Recovery Period rate component for the under- or over-collection during the Accumulation Period immediately preceding the Accumulation Period that ended immediately prior to the application filing for FAR_{RP}.
RIDER FAC

FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont'd.)
(Applicable To Service Provided On The Effective Date Of This Tariff Sheet And Thereafter)

FAR DETERMINATION (Cont'd.)

*To determine the FAR applicable to the individual Service Classifications, the FAR determined in accordance with the foregoing will be multiplied by the following Voltage Adjustment Factors (VAF):

Secondary Voltage Service (VAFSEC) 1.0549
Primary Voltage Service (VAFPRI) 1.0238
Transmission Voltage Service (VAFTRAN) 0.9921

The FAR applicable to the individual Service Classifications shall be rounded to the nearest $0.00001 to be charged on a $/kWh basis for each applicable kWh billed.

TRUE-UP

After completion of each RP, the Company shall make a true-up filing on the same day as its FAR filing. Any true-up adjustments shall be reflected in T above. Interest on the true-up adjustment will be included in I above.

The true-up adjustments shall be the difference between the revenues billed and the revenues authorized for collection during the RP.

GENERAL RATE CASE/PRUDENCE REVIEWS

The following shall apply to this FAC, in accordance with Section 386.266.4, RSMo. and applicable Missouri Public Service Commission Rules governing rate adjustment mechanisms established under Section 386.266, RSMo:

The Company shall file a general rate case with the effective date of new rates to be no later than four years after the effective date of a Commission order implementing or continuing this FAC. The four-year period referenced above shall not include any periods in which the Company is prohibited from collecting any charges under this FAC, or any period for which charges hereunder must be fully refunded. In the event a court determines that this FAC is unlawful and all moneys collected hereunder are fully refunded, the Company shall be relieved of the obligation under this FAC to file such a rate case.

Prudence reviews of the costs subject to this FAC shall occur no less frequently than every eighteen months, and any such costs which are determined by the Commission to have been imprudently incurred or incurred in violation of the terms of this rider shall be returned to customers. Adjustments by Commission order, if any, pursuant to any prudence review shall be included in the FAR calculation in P above unless a separate refund is ordered by the Commission. Interest on the prudence adjustment will be included in I above.

*Indicates Change.
MISO Energy & Operating Reserve Market Settlement Charge Types and Capacity Market Charges and Credits

MISO Transmission Service Settlement Schedules

MISO Charge Types Which Appear On MISO Settlement Statements Represent Administrative Charges And Are Specifically Excluded From The FAC

* Indicates Addition.
RIDER FAC
FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont’d.)
*FAC CHARGE TYPE TABLE (Cont’d.)

PJM Market Settlement Charge Types

- Auction Revenue Rights;
- Balancing Operating Reserve;
- Balancing Operating Reserve for Load Response;
- Balancing Spot Market Energy;
- Balancing Transmission Congestion;
- Balancing Transmission Losses;
- Capacity Resource Deficiency;
- Capacity Transfer Rights;
- Day-ahead Economic Load Response;
- Day-Ahead Load Response Charge Allocation;
- Day-ahead Operating Reserve;
- Day-ahead Operating Reserve for Load Response;
- Day-ahead Transmission Congestion;
- Day-ahead Transmission Losses;
- Demand Resource and 1LM Compliance Penalty;
- Emergency Energy;
- Emergency Load Response;
- Energy Imbalance Service;
- Financial Transmission Rights Auction;
- Generation Deactivation;
- Generation Resource Rating Test Failure;
- Inadvertent Interchange;
- Incremental Capacity Transfer Rights;
- Interruptible Load for Reliability;
- Load Reconciliation for Inadvertent Interchange;
- Load Reconciliation for Operating Reserve Charge;
- Load Reconciliation for Regulation and Frequency Response Service;
- Load Reconciliation for Spot Market Energy;
- Load Reconciliation for Synchronized Reserve;
- Load Reconciliation for Synchronous Condensing;
- Load Reconciliation for Transmission Congestion;
- Load Reconciliation for Transmission Losses;
- Locational Reliability;
- Miscellaneous Bilateral;
- Non-Unit Specific Capacity Transaction;
- Peak Season Maintenance Compliance Penalty;
- Peak-Hour Period Availability;
- PJM Customer Payment Default;
- Planning Period Congestion Uplift;
- Planning Period Excess Congestion;
- Ramapo Phase Angle Regulators;
- Real-time Economic Load Response;
- Real-Time Load Response Charge Allocation;
- Regulation and Frequency Response Service;
- RPM Auction;
- Station Power;
- Synchronized Reserve;
- Synchronous Condensing;
- Transmission Congestion;
- Transmission Losses;

PJM Transmission Service Charge Types

- Black Start Service;
- Day-ahead Scheduling Reserve;
- Direct Assignment Facilities;
- Expansion Cost Recovery;
- Firm Point-to-Point Transmission Service;
- Internal Firm Point-to-Point Transmission Service;
- Internal Non-Firm Point-to-Point Transmission Service;
- Load Reconciliation for PJM Scheduling, System Control and Dispatch Service;
- Network Integration Transmission Service Offset;
- Non-Firm Point-to-Point Transmission Service;
- Non-Zone Network Integration Transmission Service;
- Other Supporting Facilities;
- PJM Scheduling, System Control and Dispatch Services;
- PJM Scheduling, System Control and Dispatch Refunds;
- Qualifying Transmission Upgrade Compliance Penalty;
- Reactive Services;

* Indicates Addition.
RIDER FAC

FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont’d.)

*FAC CHARGE TYPE TABLE (Cont’d.)

PJM Transmission Service Charge Types (Cont’d.)

Load Reconciliation for PJM Scheduling, System Control and Dispatch Service Refund; Load Reconciliation for Reactive Services; Load Reconciliation for Transmission Owner Scheduling, System Control and Dispatch Service; Network Integration Transmission Service; Network Integration Transmission Service (exempt);

Reactive Supply and Voltage Control from Generation and Other Sources Service; Transmission Owner Scheduling, System Control and Dispatch Service; Unscheduled Transmission Service;

PJM Charge Types Which Appear On The Settlement Statements Represent Administrative Charges Are Specifically Excluded From The FAC

Annual PJM Building Rent; Annual PJM Cell Tower; FERC Annual Charge Recovery; Load Reconciliation for FERC Annual Charge Recovery; Load Reconciliation for North American Electric Reliability Corporation (NERC); Load Reconciliation for Organization of PJM States, Inc. (OPSI) Funding; Load Reconciliation for Reliability First Corporation (RFC); Market Monitoring Unit (MMU) Funding;

Michigan - Ontario Interface Phase Angle Regulators; North American Electric Reliability Corporation (NERC); Organization of PJM States, Inc. (OPSI) Funding; PJM Annual Membership Fee; PJM Settlement, Inc.; Reliability First Corporation (RFC); RTO Start-up Cost Recovery; Virginia Retail Administrative Fee;

* Indicates Addition.
RIDERS FAC
FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont'd.)
(Applicable To Calculation of Fuel Adjustment Rate for the Billing Months of February 2020 through May 2020)

Calculation of Current Fuel Adjustment Rate (FAR):

Accumulation Period Ending: September 30, 2019

1. Actual Net Energy Cost = (ANEC) (FC+PP+E-OSSR) $176,031,218

2. Net Base Energy Cost (B) = (BF x SAP)
   2.1 Base Factor (BF) $0.01565/kWh
   2.2 Accumulation Period Sales (SAP) 12,264,681,280 kWh

3. Total Company Fuel and Purchased Power Difference = $(15,911,044)
   3.1 Customer Responsibility x 95%

4. Fuel and Purchased Power Amount to be Recovered = $(15,115,492)
   4.1 Interest (I) + $(711,148)
   4.2 True-Up Amount (T) + $107,127
   4.3 Prudence Adjustment Amount (P) ± $0

5. Fuel and Purchased Power Adjustment (FPA) = $(15,719,513)

6. Estimated Recovery Period Sales (SREP) ÷ 22,345,620,173 kWh

7. Current Period Fuel Adjustment Rate (FARREP) = $(0.00070)/kWh

8. Prior Period Fuel Adjustment Rate (FARREP-1) + $(0.00003)/kWh

9. Fuel Adjustment Rate (FAR) = $(0.00073)/kWh

FAR Applicable to the Individual Service Classifications

10. Secondary Voltage Adjustment Factor (VAFSEC) = 1.0549
    10.1 Fuel Adjustment Rate (FAR) x $(0.00073)/kWh

11. FAR for Secondary Customers (FARSEC) = $(0.00077)/kWh

12. Primary Voltage Adjustment Factor (VAFPRI) = 1.0238
    12.1 Fuel Adjustment Rate (FAR) x $(0.00073)/kWh

13. FAR for Primary Customers (FARPRI) = $(0.00075)/kWh

14. Transmission Voltage Adjustment Factor (VAFTRAN) = 0.9921
    14.1 Fuel Adjustment Rate (FAR) x $(0.00073)/kWh

15. FAR for Transmission Customers (FARTRAN) = $(0.00073)/kWh

FILED
Missouri Public Service Commission
ER-2020-0143; ER-2020-0144; JE-2020-0088

DATE OF ISSUE November 22, 2019 DATE EFFECTIVE January 27, 2020
ISSUED BY Michael Moehn President St. Louis, Missouri
NAME OF OFFICER TITLE ADDRESS
Where a customer served under rate schedules 4(M) or 11(M) takes delivery of power and energy at a delivery voltage of 34kV or higher, Company will allow discounts from its applicable rate schedule as follows:

*1. A monthly credit of $1.23/kW of billing demand for customers taking service at 34.5 or 69kV.

*2. A monthly credit of $1.46/kW of billing demand for customers taking service at 115kV or higher.
UNION ELECTRIC COMPANY ELECTRIC SERVICE

CANCELLING MO.P.S.C. SCHEDULE NO. 6         1st Revised         SHEET NO. 76
APPLYING TO MISSOURI SERVICE AREA

RIDER C

ADJUSTMENTS OF METER READINGS FOR METERING AT A VOLTAGE NOT PROVIDED FOR IN RATE SCHEDULE

Where service is metered at a voltage other than the voltage provided for under the applicable rate schedule, an adjustment in both the kilowatt-hour (kWh) and kilowatt (kW) meter readings for the applicable service will be made as follows:

For customers on rate schedule 2(M) or 3(M) taking delivery at secondary voltage:

1. Metered at Primary Voltage or higher, meter readings (kWh and kW) will be decreased by 0.68%.

For customers on rate schedule 4(M) or 11(M):

2. Metered at 34kV or higher, meter readings (kWh and kW) will be decreased by 0.68%

3. Metered at Secondary voltage, meter readings (kWh and kW) will be increased by 0.68%

4. Delivered at 34 kV or higher, served through a single transformation to secondary voltage, and metered at secondary voltage, no Rider C adjustment will apply.

5. Served at transmission voltage, metered kWh will be increased to account for the energy line losses from the use of a transmission system other than Company’s, if any.

Company shall not be required to provide any distribution facilities beyond the metering point except when required for engineering or other valid reasons.

* Indicates Addition.
RIDER D

TEMPORARY SERVICE

Customers desiring service for operations which are not considered permanent in nature, including, but not limited to, construction connections, carnivals, lawn parties, bazaars, fetes, etc., may contract for such service under the applicable rate, subject to all terms and conditions of said rate and applicable rules and regulations except as hereinafter modified:

1. Customer will pay Company in advance or at the option of Company, with the first bill for service rendered, the estimated cost of connection and disconnection of service, installation, reading and removing of meters, and any other cost or expense incurred by Company incident to the connection and disconnection of such service, less the estimated net salvage value of recoverable facilities and materials.

2. Customer may have service disconnected by giving written notice to Company ten (10) days prior to the date when service is to be disconnected.

3. In case of service required for carnivals, lawn parties, bazaars, fetes, etc., which is generally required for only a few days, Company may estimate the service used based upon connected load and hours of use.

4. This service may not be cumulated with any other service for billing purposes. Each connection of temporary service will be billed for separately.

5. Upon request by Company, customer will furnish insurance to protect Company against liability for injury or damage claims incident to the supply of service to temporary installations.

6. If after a customer has entered into a contract for Temporary Service, such service becomes permanent in character and customer receives electric service during the entire term specified in the rate under which service is supplied, Company may refund all or part of the payment made by customer under (1) above. Such refund will be made by Company at the end of the first year's use of service, or sooner if full refund is earned prior to that time, under the following provisions:

   a. If a non-residential customer is receiving the class of service designated by Company, the cost of the extension which was made to connect such service to customer's premises shall be determined in accordance with the Extension Cost definition in Section III - Distribution System Extensions.
RIDER D

TEMPORARY SERVICE (Cont'd.)

6. a. (Cont'd.)
Refund in full will be made if the Company's Extension Allowance, as defined in Section III and calculated based on Marginal Revenues for electric service during the one-year period, commencing with the fourth billing period for service, equals or exceeds the Extension Cost as defined in Section III. If the Extension Allowance calculated for the one year period is less than the Extension Cost, Company shall retain the calculated Extension Charge and refund to the customer the remainder, if any, of customer's payment. No refund shall exceed the amount actually paid by customer under (1) above.

b. If a non-residential customer has been supplied a class of service different from that designated by Company, an estimate will be made by Company (in accordance with the definition of Extension Cost in Section III.B) of the excess cost of the extension actually made over the cost of the extension which Company would have had to make to supply the class of service designated by Company. Such estimated excess cost, to be retained by Company, will be deducted from the amount subject to refund and the balance, if any, shall be subject to refund to customer in accordance with the provisions of Section 6(a) above.
RIDER E
SUPPLEMENTARY SERVICE

A. DEFINITION
Where the service supplied by Company is available in the event of failure or shutdown of customer's private plant service or any other source of electrical energy or motive power through electrical or mechanical means or by means of operational procedure, or where the service in effect serves to relieve, sustain or augment any other source of power, such service shall constitute Supplementary Service.

* B. AVAILABILITY
Supplementary Service will be supplied whenever, in the opinion of the Company, it will have capacity available for the supply of such service during the term of the proposed Electric Service Agreement. This Rider is limited to those customers receiving Supplementary Service prior to April 1, 2017. After April 1, 2017 all new customers or those customer(s) on Rider E who experience a significant change to the customer’s generating equipment shall have Supplementary Service supplied under Standby Service.

C. RATE FOR SERVICE
1. Supplementary Service will be delivered to customer under the Primary Service Rate at a primary service voltage to be selected by Company. All provisions of the Primary Service Rate under which supplementary service is to be supplied shall remain in effect, except as hereinafter specifically provided.

2. Electric service actually used each month shall be charged for under the applicable rate specified in customer's Electric Service Agreement.

3. The monthly bill to be paid by customer, whether or not any electric service is actually used, shall in no case be less than the minimum charge specified in the applicable rate or the amount based on the Contract Demand (as hereinafter defined) computed on the schedule of charges set forth on Sheet No. 63, Miscellaneous Charges, whichever is greater.

D. GENERAL PROVISIONS
1. Contract Demand is defined as the higher of either:
   a. The number of kilowatts mutually agreed upon by Company with customer as representing customer's maximum service requirements under all conditions of use, and such demand shall be specified in customer's Electric Service Agreement; or
   b. The maximum demand established by customer in use of Company's service.

* Indicates Change.

Issued pursuant to the Order of the Mo.P.S.C. in Case No. ER-2016-0179.

DATE OF ISSUE March 8, 2017
DATE EFFECTIVE April 7, 2017

ISSUED BY Michael Moehn
NAME OF OFFICER
President
TITLE
St. Louis, Missouri
ADDRESS
D. GENERAL PROVISIONS (Cont'd.)

2. Contract Demand may not be reduced and shall remain in effect during the initial term specified in customer's Electric Service Agreement and thereafter until said Agreement is terminated.

3. If at any time customer desires to increase the Contract Demand above the capacity of Company's facilities used in supplying said service, customer will sign new agreement for the full capacity of service required.

4. Company will make such extension of its service facilities as may be required to supply the Supplementary Service contracted for hereunder in accordance with its applicable rules governing extension of its overhead distribution system. Where an enlargement of existing service facilities is required, the estimated additional revenue to be received by Company from customer from such enlargement shall be used in place of the estimated total revenue.

5. Customer's generating equipment shall not be operated in parallel with Company's service except when such operation is approved by Company and permitted under a written agreement with Company.

6. When required at any time by Company, customer will provide, install and maintain a circuit breaker of size and type approved by Company. Circuit breaker will be controlled, locked or sealed by Company and set to limit the demand in kW to that contracted for by customer. Circuit breaker will be set for a kilovolt-ampere demand limit of 120% of the Contract Demand in kilowatts.

7. Company will install and maintain necessary suitable meters for measurement of service rendered hereunder.

8. Annually recurring service with extended periods of shut down (Rider F) is not available to customers purchasing Supplementary Service.
RIDER F

ANNUALLY RECURRING SERVICE WITH 
EXTENDED PERIODS OF SHUT DOWN

Customers desiring service for other than residential use during recurring portions of successive years, where all service is normally discontinued or curtailed during the remaining portion of the year, have the option of contracting for service under either of the two following plans:

A. Pay for all service used under the applicable service rate subject to the minimum bill provisions of such rate during periods of shut down, or

B. Receive service under provisions stated in the following paragraphs 1 to 8, inclusive.

1. Customer shall pay the total installed cost of all facilities initially utilized for the supply of service, and any subsequent replacements thereof, under the provisions of Section III - Special Facilities. Such installed cost shall include all facilities from the metering point back to the point on the Company's system where adequate capacity exists to provide for the customer's requirements.

2. Facilities supplied by Company will be predicated upon customer's statement of his maximum load requirements.

3. Customer shall give Company reasonable advance notice when service is required or is to be discontinued or curtailed. All provisions of the applicable rate shall apply to service used within each such period of use. The reconnection charge shown on Sheet No. 63, Miscellaneous Charges, will be made for each connection point each time normal use of service is resumed. Minimum monthly charges, as provided for under the applicable rate schedule, will be waived during the period in which service is discontinued or curtailed.

4. Where service is used at the election and option of customer, such as for air conditioning, ball park lighting, driving tees, ice manufacturing, seasonal use by municipal or private sewage and/or water systems, summer refreshment stands, etc., bills will be normally rendered on regular monthly schedules for all service used between regular meter reading dates, provided, however, that customer shall be entitled to not more than two prorated bills for service during each calendar year where service is reconnected or disconnected or curtailed between regular meter reading dates.
RIDER F

ANNUALLY RECURRING SERVICE WITH
EXTENDED PERIODS OF SHUT DOWN (Cont'd.)

4. (Cont'd.)

Where use of service during emergencies is irregular, indeterminate and not subject to control by customer, such as for pumping of flood water, or pumping of gas during emergencies incident to the acquisition of gas from pipe line operator, Company will prorate all bills rendered based on the respective periods of use requested by customer.

5. Customer who, in lieu of complete disconnection, following periods of normal use of service, requires a small amount of service during the period of shut down, may obtain such service during this period under the Small General Service Rate.

Company reserves the right to require customer to install a separate service entrance for the service required during the period of shut down.

6. This schedule is not available to customers who qualify as Supplementary Service customers under the provisions of Rider E or who qualify as Standby Service customers under the provisions of Rider SSR.

7. Upon completion of payments required of customer in accordance with paragraph (1) above, customer may cancel contract for service at any time thereafter upon 3 days advance written notice to Company.

8. This service may not be cumulated with any other service for billing purposes.
RIDER H

PROVIDING FOR ELECTRICAL CONNECTION BETWEEN UNITS OF A SINGLE ENTERPRISE UNDER IDENTICAL OWNERSHIP AND MANAGEMENT BUT SEPARATED BY PUBLIC PROPERTY

Customers operating a single enterprise under one ownership and management where the property is intersected by public property subject to the jurisdiction of a municipality or other tax supported public agency, may arrange for the necessary crossing of such public property in order to purchase their entire electrical requirements of the separated segments of the enterprise at one point provided the Company agrees to supply all service at a single point and under one contract, under the following terms and conditions:

1. Municipality or public authority shall have granted to Company the necessary permits and easements required to cross the public property in form satisfactory to the Company.

2. None of the electricity crossing public property may be resold or distributed to tenants or others.

3. The customer will pay with the first bill for electric service after the crossing goes into service, the total cost incurred by Company in making the installation under the following specifications:
   
   a. The Company will install the necessary overhead wires between terminal supports, provided by the customer and located on customer's property at either end of the crossing, or
   
   b. The Company will install the necessary underground conduits or ducts across the public property so that the customer can extend them on customer property to convenient terminal facilities.
   
   c. The customer shall provide, install and thereafter maintain at his own expense, all other facilities required including all cable (if the crossing is in underground conduit) and connections to the wiring at either end of the crossing, including switches, fuses, protective and other similar equipment as required for the operation and control of customer's circuits.
   
   d. All work shall be done in accordance with the rules and regulations of public authorities applicable thereto, and all cable and duct work shall be in accordance with plans and specifications approved by the Company.
   
   e. Company, at its option, may install the facilities under (a) or (b) above, or may sublet the work to the contractor, or authorize the customer to make or subcontract the installation.
RIDER H

PROVIDING FOR ELECTRICAL CONNECTION BETWEEN UNITS OF A SINGLE ENTERPRISE UNDER IDENTICAL OWNERSHIP AND MANAGEMENT BUT SEPARATED BY PUBLIC PROPERTY (Cont’d.)

4. The wires, conduits, ducts and incidental equipment installed by or in behalf of Company, and the cable crossing public property installed by customer, as provided under the preceding Section 3, shall be and remain permanently the property of Company and may be removed by Company at any time after the termination of this Rider. In cases in which installation, upon Company's request, has been made by customer, or customer's contractor, customer shall transfer to Company by Bill of Sale or other appropriate document, as determined by Company, title to and ownership of said installation.

5. It is customer's responsibility to determine the need for repair or maintenance of the wires, conduits, ducts and equipment installed by Company under this Rider. However, all such repair and maintenance work shall be performed by Company and Company, upon its own volition, may undertake such repairs or maintenance whenever in its judgment such work is necessary or desirable. The expense incurred by Company in repair or maintenance work shall be reimbursed to it by the customer.

6. The customer assumes responsibility for all injury to any and all persons and to any and all property, whether owned by customer or others, directly or indirectly caused by the said wires, conduits, ducts and equipment installed by either of the parties hereto under this Rider, whether due to negligence or not, and shall protect the Company against any and all claims for damages caused thereby or arising therefrom.

7. This Rider may be terminated by customer at its option upon thirty days written notice to Company.

This Rider may be terminated forthwith by Company:

a. Upon violation or default by customer in complying with any of the terms of this Rider, or
b. Upon expiration or cancellation of the electric service agreement by the parties thereto to which this Rider is attached, or
c. Upon termination or cancellation of the permits or easements under which the connection covered by this Rider is installed or maintained, or
d. Upon order of the regulatory authority having jurisdiction.

8. On the termination of this Rider or at any time the crossing is removed, the Company will refund to the customer the actual or estimated salvage value thereof less cost of removal, if such salvage value exceeds the estimated or actual cost of removal, as determined by Company.
RIDER I

SECONDARY SERVICE OFF-PEAK DEMAND PROVISIONS

A. The monthly billing demand of any non-residential customer who is taking secondary service shall, upon his request therefor, be determined as follows:

The billing demand in any month will be the highest demand established during peak hours or 50% of the highest demand established during off-peak hours, whichever is highest during the month, but in no event less than 100 kW.

Peak hours and off-peak hours are defined as follows:

Peak hours - 10:00 A.M. to 10:00 P.M., Monday through Friday.

Off-peak hours - 10:00 P.M. of Monday through Thursday to 10:00 A.M. of the following day, and from 10:00 P.M. Friday to 10:00 A.M. Monday.

- The entire 24 hours of the following days:
  - New Year's Day
  - Good Friday
  - Memorial Day
  - Independence Day
  - Thanksgiving Day
  - Thanksgiving Friday
  - Christmas Eve Day
  - Christmas Day
  - Labor Day

All times stated above apply to the local effective time.

B. Customer shall pay for all metering equipment necessary for the application of the provisions of this Rider at the charges specified in Section IV.B - Additional Metering.

C. This Rider, if requested by customer, shall remain in effect for an initial period of three (3) years and shall be terminable thereafter on three (3) days' notice.
A customer operating a single enterprise under one ownership and management and occupying contiguous buildings in the conduct of such enterprise may, if desired and if Company agrees, obtain all electric service of like character required for said enterprise through a single point of delivery subject to the following terms and conditions:

1. The contiguous buildings occupied by customer shall not be separated by any property under control of any party other than customer.

2. The contiguous buildings shall be owned or leased of record by customer throughout the period of such combined service, and, if leased, such lease shall at the time of commencement of such combined service be for a term extending at least five years thereafter.

3. Service supplied by Company to customer may not be submetered or resold to a third party.

4. There shall be only one point of delivery of all service of like character, except where Company, for reasons of engineering, construction or safety, determines that additional points of delivery are required; and in all cases Company will specify the point or points of delivery.

5. Customer shall be responsible for the installation, maintenance and replacement of all wiring and other electrical facilities, other than Company's meters, on customer's property beyond the point or points of delivery, including any connections between the contiguous buildings.

6. Customer shall pay to Company at the time of combining such service the present cost of reproduction less depreciation, as estimated by Company, of any separate service facilities theretofore installed by Company for service to such contiguous buildings, which will no longer be required, plus the estimated cost of removal, less the estimated salvage value thereof. Such payment is not subject to refund.

7. Customer’s right to combined service shall cease when any of the conditions set forth above shall have been violated or shall no longer obtain, or upon termination of the electric service agreement, or upon order of regulatory authority having jurisdiction. When combined service as theretofore rendered is terminated for any of the foregoing reasons, customer shall, as a condition of further service, make such wiring separation or rearrangement between the separate buildings as Company may deem appropriate for the receipt of service by customer under such changed conditions.
RIDER M
OPTION BASED CURTAILMENT RIDER

PURPOSE
The purpose of this Rider is to provide customers the option to grant Company the right, but not the obligation, to call for curtailment of a certain level of customer’s energy consumption, based upon various curtailment options and associated prices offered by Company, selected by customer, and specified by contract between customer and Company.

APPLICABILITY
This Rider is applicable to and is to be used in conjunction with the Company’s Electric Service Classifications 4(M) - Small Primary Service Rate, 11(M) - Large Primary Service Rate or 12(M) Large Transmission Service Rate. All of the provisions of such Service Classifications and the Company’s General Rules and Regulations shall apply, except as modified by this Rider.

The applicability of this Rider is limited to customers receiving service under the above referenced Service Classifications and who agree to curtail their electrical use, upon notice by Company, by a minimum of 1,000 kilowatt-hours (kWh) per hour at a single premises, under the terms and conditions of this Rider and those specified by contract.

Applicants for this Rider must provide the Company with an acceptable action plan for complying with the provisions of the Rider.

OPTION PREMIUM PAYMENT
The Option Premiums offered by Company, for payment to customer under the provisions of this Rider, will be based upon projected power market prices for the forthcoming summer season and the curtailment options selected by customer. Due to market price volatility, the Option Premiums quoted under the provisions of this Rider will be time sensitive and subject to the conditions in existence at the time such Premiums are contracted for between Company and customer. However, all customers will be quoted the same Options Premium, per unit of load reduction, for the same selected customer options at the same point in time.

The Option Premium Payment shall be based upon the following options selected by customer and contracted for with Company: a) curtailment Strike Price of either $250, $500, or $750 per megawatthour, b) allowed frequency of curtailments from three (3) to five (5) weekdays per week, and c) the curtailment interval duration of either eight (8) or sixteen (16) hours.
OPTION PREMIUM PAYMENT (Cont'd.)

Said Option Premium Payment shall be paid to customer in four monthly installments (billing periods of June, July, August, and September), in consideration for the curtailment option provided by customer to Company under the provisions of this Rider.

STRIKE PRICE APPLICATION

For each kWh that the customer curtails, up to the level of curtailment called for by contract, Company shall pay customer the Contract Strike Price selected by customer. Such kWh shall be determined in accordance with the verification methodology set forth below. The total amount paid by Company under this provision shall be provided as a credit on the customer’s bill, for the month during which the curtailment occurred, or paid by separate check, at the Company’s discretion.

PASSTHROUGH MARKET PRICE

Should customer fail to reduce its kWh consumption by its contracted for level during any Company call for curtailment, customer shall pay Company a Passthrough Market Price for each kWh customer failed to curtail during any hour of the curtailment interval. Such kWh shortfall shall be determined in accordance with the verification methodology set forth below.

The Passthrough Market Price for each hour will be equal to the positive difference, if any, between (a) the Weighted Average Index Price for delivery to Cinergy as published in the Megawatt Daily "Trades for Standard 16-Hour Daily Products," (Daily Market Price) for the day the customer failed to curtail consumption, adjusted to account for the value difference between daily and hourly products by multiplying the Daily Market Price by the applicable hourly factor set forth below; and (b) the Contract Strike Price. The adjustment factor, based on such value difference, shall be as follows:

<table>
<thead>
<tr>
<th>Hour Ending</th>
<th>Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>700-1200</td>
<td>0.25</td>
</tr>
<tr>
<td>1300-1400</td>
<td>1.00</td>
</tr>
<tr>
<td>1500-1800</td>
<td>2.50</td>
</tr>
<tr>
<td>1900-2200</td>
<td>0.60</td>
</tr>
</tbody>
</table>
CURTAILMENT NOTIFICATION

Company shall provide customer notice of its intent to exercise a curtailment option by facsimile, which, at Company’s sole discretion, may be supplemented with contact by telephone, pager, or E-mail. The notice shall state the date and time that the curtailment shall commence, the required curtailment interval duration (Curtailment Period). Such notice shall be provided no later than 10:00 a.m. Central Prevailing Time (CPT) of the last business day immediately prior to the intended day of curtailment.

Curtailment interval durations of sixteen hours will commence at 6:00 a.m. CPT. Curtailments interval durations of eight hours will commence, at Company’s sole discretion, between 6:00 a.m. CPT and 2:00 p.m. CPT. All referenced hours refer to clock hours.

VERIFICATION OF CUSTOMER COMPLIANCE

Customer compliance with Company’s curtailment notice shall be determined based upon the average kilowatt-hours (kWh) consumed by the customer during each hour of the customer’s Equivalent Period, as defined below, less the actual kilowatt-hours (kWh) consumed during each hour of the Curtailment Period. The calculation is expressed as the following formula:

\[
\text{Curtailment Kilowatt-hours (kWh) for each Curtailment Period Hour} = \frac{\text{Average Kilowatt-hours (kWh) for each Equivalent Period Hour}}{-\text{Actual Kilowatt-hours (kWh) for each Curtailment Period Hour}}
\]

For purposes of verification, customer’s Equivalent Period shall be the same hours as those hours noticed for the Curtailment Period during the ten (10) non-curtailed, non-holiday weekday periods immediately prior to the date of notification. Company reserves the right to adjust Equivalent Period days for periods where usage during such days is not a typical peak weekday, such as a weekend day, holiday, or day when other events influenced usage patterns.

BILLING DEMAND STANDARD

Company’s exercise of its curtailment option under this Rider shall not result in any adjustment or prorating of the customer’s billing demand determined in accordance with the provisions of Service Classifications 4(M) or 11(M).
RIDER M

OPTION BASED CURTAILMENT RIDER (Cont'd.)

ADDITIONAL METERING

Service under this Rider requires the use of interval time sensitive electronic load profile metering at each meter location, metering not considered standard by Company under some rate classifications. The customer shall pay a monthly fee of $21.00 for each electronic load profile meter required solely for the application and billing of this Rider.

COMPANY AND CUSTOMER OBLIGATIONS

Company shall have no liability to a customer or to any other person, firm or corporation for any loss, damage or injury by reason of non-delivery of electric energy during any curtailment relative to Company’s exercise of its Curtailment Option.

The customer’s generating equipment, if any, shall not be operated in parallel with Company’s service except when such operation is approved by Company and permitted under a separate written agreement with Company. Company assumes no responsibility for controlling the customer’s generation and/or shedding the customer’s load and shall not be liable for the cost of fuel, operation and maintenance expense or repairs resulting from a customer’s use of its own electric generation during curtailments under this Rider.

The possibility of interruption, curtailment or reduction of electric service caused by, resulting from, or arising out of unexpected causes or occurrences shall not be deemed to be Company’s exercise of any Curtailment Option entitling the customer to the payment of the Strike Price under this Rider.

CONTRACT

Service under this Rider shall be evidenced by a contract between the customer and the Company, a copy of which shall be provided for informational purposes to the Commission’s Manager of the Electric Department within ten days of execution.

The term of service under this Rider shall be customer’s billing months that encompass the calendar months of June through September, within a customer’s contract year.
PURPOSE

The purpose of this Rider is to provide reserve capacity on the Company’s distribution system to customers that request a reserve distribution service connection for the delivery of electricity from distribution facilities other than the standard or preferred distribution supply facilities designated by Company.

* APPLICABILITY

This optional Rider is limited to customers who qualify for service under the Company's Service Classification 3(M) Large General Service Rate, 4(M) Small Primary Service Rate, or 11(M) Large Primary Service Rate, with a minimum monthly metered demand of 500 kilowatts or greater. This Rider shall expire on December 31, 2021 and no further requests for service under this Rider will be accepted after that time. All contracts in existence as of December 31, 2021 shall remain in force per the terms of those agreements.

AVAILABILITY

The availability of reserve distribution supply service to a customer shall be contingent upon Company’s engineering studies of the impact of providing reserve distribution service to a customer and the Company’s current and projected system distribution capacity needs.

DESCRIPTION OF RESERVE DISTRIBUTION SERVICE

When provided, Company will designate the reserve distribution capacity on its electric distribution system that will be available to the customer upon a single contingency failure of the preferred or “standard” supply to the customer. Such reserve service is subject to the following conditions:

The determination of delivery circuits and routes to provide sufficient single contingency distribution reserve capacity will be made by Company and will be subject to change as operating conditions change.

Company will make all reasonable efforts to provide reserve distribution service on an adequate and continuous basis, but will not be liable for service interruptions, deficiencies or imperfections which result from conditions which are beyond the reasonable control of the Company. The Company cannot guarantee the service as to continuity, freedom from voltage and frequency variations. The Company will not be responsible or liable for damages to customer’s apparatus resulting from failure or imperfection of service beyond the reasonable control of the Company.

*Indicates Change
DESCRIPTION OF RESERVE DISTRIBUTION SERVICE (Cont'd.)

Where such failure or imperfection of service might damage customer’s apparatus, customer should install suitable protective equipment.

Company does not commit to reserve supplies from different substations and reserves the right to designate the preferred and reserve supplies and limit switching of customer’s load from one service supply to the other.

CUSTOMER REQUIREMENTS

The customer and Company shall contract for the level of electrical load for which the Company is providing electric distribution reserve capacity.

CONTRIBUTION AND RATES FOR ELECTRIC DISTRIBUTION RESERVE SERVICE

The customer shall pay, in advance of construction, to Company its estimated cost to extend or reinforce the reserve portion of the additional distribution supply back to a point on the Company’s system where the Company reasonably expects adequate distribution capacity will exist. Said payment shall be non-refundable.

If the customer’s load increases above their contracted capacity, and/or they request additional reserve capacity for new load and the Company must install additional distribution reserve capacity facilities, an additional customer payment will be required. Said payment shall be in advance and be equal to the Company’s total estimated costs as described above to modify or expand Company’s distribution system to accommodate the increased load. The cost of all transformers and switchgear included as part of the reserve capacity shall include the estimated costs to install and remove said facilities.

Additionally, the following monthly rates for electric distribution reserve capacity shall apply, based on the lowest voltage level at which distribution reserve facilities are provided, regardless of the voltage of the customer’s standard or preferred supply.

<table>
<thead>
<tr>
<th>Voltage Of:</th>
<th>Monthly Rate per kW of Billing Demand</th>
</tr>
</thead>
<tbody>
<tr>
<td>For Second Supply</td>
<td>(Same Billing Demand As Metered and Delivered)</td>
</tr>
<tr>
<td>120 – 600 volts</td>
<td>Large General Service Total Billing Demand Charges</td>
</tr>
<tr>
<td>601 – 15,000 volts</td>
<td>Small Primary Service Total Billing Demand Charges</td>
</tr>
<tr>
<td>15,001 – 69,000 volts</td>
<td>Small Primary Service Total Billing Demand Charges less Rider B Demand Discount Credit (Item 1.)</td>
</tr>
<tr>
<td>69,001 – 345,000 volts</td>
<td>Small Primary Service Total Billing Demand Charges less Rider B Demand Discount Credit (Item 2.)</td>
</tr>
</tbody>
</table>

DATE OF ISSUE: May 31, 2013  DATE EFFECTIVE: June 30, 2013

ISSUED BY: Warner L. Baxter  TITLE: President & CEO  ADDRESS: St. Louis, Missouri
DUPLICATE ON-SITE SUPPLY FACILITIES

Requests for duplicate supply facilities on the customer’s premises, such as a second transformer or a second primary extension from a single supply feeder, shall be provided under provisions of the Company’s Special Facilities tariff, Section III.Q.

TERM

Customer shall be required to sign a contract for an initial term of ten (10) years, cancelable by customer at any time after one (1) year with six (6) months’ written notice to Company. Absent such cancellation during the initial term, the contract shall be automatically renewed for successive terms of one (1) year each, subject to termination by the giving of written notice, by either Company or customer, of at least six (6) months prior to the expiration of any renewal term.

Said contract shall be based on the Form of Contract included with this Rider RDC tariff and provided within ten days of execution to the Missouri Public Service Commission “Commission” Staff for informational purposes. The Company will file a revised Form of Contract tariff with the Commission before any significant modifications are made to said Contract.

GENERAL RULES AND REGULATIONS

In addition to the above specific rules and regulations, all of the Company’s General Rules and Regulations shall apply to the supply of service under this Rider.
FORM OF CONTRACT

This Agreement is entered into as of this _____ day of ________, 20__, by and between Union Electric Company d/b/a Ameren Missouri (“Company”) and _________________________________ (Customer) for the providing of a second or reserve distribution connection to serve Customer’s load not to exceed _______ kilowatts.

WITNESSETH:

Whereas, Company has on file with the Public Service Commission of the State of Missouri (Commission) a certain Reserve Distribution Capacity Rider (Rider), and;

Whereas, Customer has satisfied the Availability and Applicability provisions of the Rider, and;

Whereas, Customer wishes to take electric service from the Company, and the Company agrees to furnish electric service to the Customer under this Rider and pursuant to all other applicable tariffs of the Company;

The Company and Customer agree as follows:

1. Service to the Customer’s Facilities shall be pursuant to the Rider, all other applicable tariffs, and the Company’s General Rules and Regulations Applying to Electric Service, as may be in effect from time to time and filed with the Commission.

2. Customer acknowledges that this Agreement is not assignable voluntarily by Customer, but shall nevertheless inure to the benefit of and be binding upon the Customer’s successors by operation of law.

3. Customer shall be required to sign a contract for an initial term of ten (10) years, cancelable by Customer at any time after one (1) year with six (6) months’ written notice to Company. Absent such cancellation during the initial term, the contract shall be automatically renewed for successive terms of one (1) year each, subject to termination by the giving of written notice, by either Company or Customer, of at least six (6) months prior to the expiration of any renewal term.

4. This Agreement shall be governed in all respects by the laws of the State of Missouri (regardless of conflict of laws provisions), and by the orders, rules and regulations of the Commission as they may exist from time to time. Nothing contained herein shall be construed as divesting, or attempting to divest, the Commission of any rights jurisdiction, power or authority vested in it by law.

In witness whereof, the parties have signed this Agreement as of the date first above written.

Union Electric Company d/b/a Ameren Missouri 

Customer

By ________________________________ By ________________________________
RIDER UG
MUNICIPAL UNDERGROUND COST RECOVERY RIDER

APPLICABILITY

If any Municipality or other governmental subdivision (hereinafter referred to as the “Municipality”) by ordinance or other regulation requires Company to construct lines and appurtenances or other facilities designed for any Distribution or Transmission voltages (hereinafter referred to as “facilities”) underground for any new or existing facilities in the Municipality when the Company, absent from such ordinance or regulation, would construct or continue to maintain the facilities overhead, and where the recovery of the additional cost for such underground is not otherwise provided for in the Company’s General Rules and Regulations Applying to Electric Service, the cost of the additional investment required by the Company to construct the facilities underground shall be assessed against the Municipality.

Before Company starts placing any facilities underground pursuant to this Rider, the Municipality shall provide adequate assurance to Company that the Municipality’s obligations to pay for such facilities are valid, lawful, and enforceable against the Municipality.

INVESTMENT RECOVERY

The following shall be used in determining and recovering the additional investment from each Municipality:

1. The Company shall estimate the installed cost of the underground facilities and the installed cost of equivalent overhead facilities and shall provide these estimates to the Municipality to aid the Municipality in determining whether to proceed with the undergrounding of the facilities.

2. Where underground facilities will not replace existing overhead facilities, any actual cost of installing underground facilities in excess of the estimated cost of installing overhead facilities, plus the cost of estimating the installed cost of both facilities, shall be the additional investment.

3. Where underground facilities will replace existing overhead facilities the actual installation cost of underground facilities, plus all costs associated with the retirement of the existing overhead facilities, plus the costs of estimating the underground facilities and retirement of the existing facilities, shall be the additional investment. The costs associated with retirement of the facilities shall include all costs associated with removal, as well as the original cost of such facilities, less accrued depreciation and salvage value.
RIDER UG
MUNICIPAL UNDERGROUND COST RECOVERY RIDER (Cont'd.)

INVESTMENT RECOVERY (Cont'd.)

4. The length of the recovery of this additional instrument will be seven years or such terms as agreed by the Municipality and the Company from the date of installation of each underground project. For recovery periods greater than ten years, the Company must file for Commission approval.

5. Monthly charges under this Rider shall be calculated by multiplying the additional investment by the Company’s monthly fixed charge rate in effect as of the date the first monthly charge for that additional investment was billed. The monthly fixed charge rate shall include a component for equity return, debt return, depreciation, taxes, property taxes, and administrative and general expenses. Monthly charges shall be shown as a separate line item on the monthly electric bill of the Municipality. If the Municipality does not take electric service from the Company, the Company shall render monthly bills for the charges to the Municipality.

The monthly fixed charge shall be determined as follows:

\[
FC = PVRR \times \left[ \frac{i}{1 - (1 + i)^{-N}} \right] \div 12
\]

Where:

FC = Levelized fixed charge

\[
PVRR = \sum_{T=1}^{N} Revenue Requirement_T \left( \frac{1}{1+i} \right)^T
\]

PVRR = Present Value of Annual Revenue Requirements

i = Composite Return (overall after-tax rate of return)

N = Number of years

T = Year

Revenue Requirement_T = Dbt + Pfd + Eq + Dpr + Tax + Prop Tax + A&G

Dbt = Return on Debt
Pfd = Return on Preferred
Eq = Return on Common Equity
Dpr = Return of investment, depreciation
Tax = Current & Deferred Income Taxes
Prop Tax = Property Taxes
A&G = Administrative and General
INVESTMENT RECOVERY (Cont'd.)

6. The monthly charge will appear on bills rendered to the Municipality 30 days after placing in service the first facilities for each project that are subject to that Municipality’s ordinance or regulation in service. The monthly charge may reflect the total estimated costs of undergrounding until the final actual costs of the additional facilities are known. The monthly charge shall be adjusted to reconcile the estimated costs to the actual costs. The amount of the monthly charge shall be reviewed and adjusted at least once annually or more often at the discretion of the Company to reflect the cost of additional facilities installed underground.

7. All costs of the Company referenced in this Rider shall include the total cost of all labor and materials, applicable retirements, easements, licenses, permits, cleared right-of-way and all other incidental costs, including indirect costs. The indirect costs will include, where applicable, the cost of engineering, supervision, inspection, insurance, payments for injury and damage awards, taxes, AFUDC (Allowance for Funds Used During Construction), legal and administrative and general expenses associated with these costs. The percentage used for indirect costs reflects the Company’s historical indirect cost experience. A copy of the Company’s estimate of the cost of construction including direct and indirect costs shall be furnished to the customer upon request prior to construction.

8. If the Municipality repeals or rescinds its requirements concerning underground facilities subject to this Rider, the monthly charges shall continue until all costs incurred pursuant to ordinance or regulation have been paid.

9. Failure by the Municipality to pay the monthly charges shall be grounds for disconnection of service to such customer in accordance with the Company’s General Rules and Regulations Applying to Electric Service.
RIDER EDI
ECONOMIC DEVELOPMENT INCENTIVE

PURPOSE
The purpose of this Rider EDI - Economic Development Incentive rider ("Rider") is to comply with §393.1640 RSMo.

*AUTHORITY TO OFFER DISCOUNTS
The Company may provide a Rider EDI Discount and/or a Beneficial Location of Facilities Discount ("Discounts") under this Rider to qualifying customers who enter into a written Agreement with the Company. No new Agreement will be entered into under this Rider after December 31, 2023, unless Company has obtained an Order from the Missouri Public Service Commission ("Commission") required under subsection 5 of §393.1400 RSMo. Even if the Company has obtained an Order from the Commission required under subsection 5 of section 393.1400, no new Agreement will be entered into under this Rider after December 31, 2028. If the Company's authority to issue Discounts expires under §393.1400 during the term of an Agreement entered into under this Rider, the customer will continue to receive the Incentive Provisions contained in the Agreement but any Discounts will be provided by Company under Rider EDRR - Economic Development and Retention Rider for the remainder of the term specified in the Agreement.

*AVAILABILITY
Transferred Load shall not be eligible for Discounts under this Rider.

Electric service under this Rider is only available to customers meeting all of the following criteria:

1. That have submitted an Application to Company for Discounts under this Rider prior to a public announcement of the growth project that would qualify for this Rider.
2. That are currently served under or will become eligible for service from the Company under the Company's Service Classifications 3(M) Large General Service Rate, 4(M) Small Primary Service Rate, or 11(M) Large Primary Service Rate.
3. That also receive local, regional, or state governmental economic development incentives in conjunction with the incremental load.
4. Where the electric account is an industrial or commercial facility not accessible by the general public for the purpose of directly selling or providing goods and/or services.
5. That are not receiving service under §393.355 RSMo.
6. That are not receiving or have withdrawn from receiving incentives under any other economic development tariff of Company.

*Indicates Change.
RIDER EDI
ECONOMIC DEVELOPMENT INCENTIVE (Cont’d.)

*AVAILABILITY (Cont’d.)

7. When Company’s analysis indicates that the discounted rate makes a positive contribution to fixed costs associated with such service in excess of the variable costs associated with the electric account that is discounted. If customer has applied for Rebates or has received Rebates within the past twelve (12) months for the same electric account as customer’s Application, Company’s analysis will consider the impact of those rebates.

APPLICABILITY

The qualifying load under this Rider shall be the load of a new customer at a single premises or the incremental load of an existing customer at a single premises but in either case net of any Baseline Usage and/or Transferred Load. In addition, the incremental load must meet the following criteria for consideration under this Rider:

1. The Load Factor of the customer’s incremental load is reasonably projected to equal or exceed fifty-five percent (55%) during each Contract Year of application of this Rider.

2. The Qualifying Demand of the customer’s incremental load is reasonably projected to equal or exceed 300 kW during each Contract Year of application of this Rider.

Company may deny enrollment under this Rider to any customer that, in Company’s discretion, is not reasonably projected to satisfy the Applicability requirements listed and may terminate Agreements under this Rider if requirements are not maintained or documented by customer.

DEFINITIONS

Agreement – The Rider EDI agreement between customer and Company specifying the customer’s election of discount percentages for each Contract Year.

Application – The Company document that provides notification by customer to Company of an intent to seek qualification for the Rider EDI Discount which includes the initial customer and project information as known at the time of Application.

Average On-Peak Demand – The average of the twelve (12) on-peak demand values, in kilowatts (kW), recorded during each billing period of a Contract Year where on-peak demand is defined by the tariff selected by customer to receive service under.

Baseline Usage – The actual or estimated billing determinants associated with the twelve (12) billing periods preceding the receipt by Company of a Rider EDI Application from customer: i) where the qualifying load is being added to an existing electric account, or ii) where customer has had a reduced electric demand or energy requirements or termination of other accounts.

*Indicates Reissue.
RIDER EDI
ECONOMIC DEVELOPMENT INCENTIVE (Cont'd.)

DEFINITIONS (Cont'd.)

*Beneficial Location of Facilities Discount – A ten percent (10%) reduction in base rate components which shall be subject to Company's determination at the time of Application that the customer is taking service from an under-utilized circuit. The term of which will be up to one (1) year commencing when a customer's Rider EDI Discount ends and is subject to continued qualification by customer and availability.

Contract Year – Twelve (12) consecutive billing periods for which Discounts available under this Rider are applicable. The first Contract Year will commence the later of i) when the meter for permanent service has been set up in the name of the customer that qualified for the Discount, and ii) the first full billing period after execution of the Agreement.

Load Factor – The ratio of the actual annual incremental kilowatt-hours (kWh) vs. potential kWh based on the Average On-Peak Demand using the following formula:

\[
\text{Load Factor} = \frac{\text{Annual Incremental kWh}}{\text{Average On-Peak Demand}} \times \frac{1}{8760} 
\]

Where Annual Incremental kWh equals annual metered kWh less any kWh of Baseline Usage and Transferred Load and Average On-Peak Demand equals the average of the twelve (12) monthly on-peak demand metered amounts less any on-peak KW of Baseline Usage and Transferred Load.

Qualifying Demand – The average of the peak demands of a retail electric account recorded during the twelve (12) billing periods of a Contract Year less any Baseline Usage and Transferred Load with peak metered demand as defined by the tariff selected by customer to receive service under.

Rebates – Direct payments available through Company's tariffs, other than those required by legislation, including but not limited to payments under any electrification program and provisions of Company's line extension tariffs but excluding energy efficiency and demand control response rebates and incentives provided through Company's tariffs implementing the Missouri Energy Efficiency Investment Act (MEEIA) §393.1075 RSMo.

**Rider EDI Discount – The reduction in base rate components which shall be available under this Rider for up to five (5) Contract Years subject to continued qualification by customer and availability of the Rider EDI Discount. At the time of execution of the Agreement, customer will specify the level of discount from base rates for each individual Contract Year to 30%, 40%, or 50% provided the average discount for the five (5) Contract Years equals 40%.

Transferred Load – Actual or estimated billing determinants of an electric load of the customer at any electric account that is being served by Company at the time of Application and for which the equipment or process is subsequently transferred to the electric account associated with the Application.

*Indicates Reissue. **Indicates Change.
APPPLICABILITY OF DISCOUNTS

The customer shall separately submit an Application for service under this Rider and also enter into an Agreement with the Company specifying the nature of the service to be provided, the level of discount from base rates to be applied each Contract Year, the Baseline Usage (if applicable), any Transferred Load that is anticipated, the term of the Agreement, the availability of the Beneficial Location of Facilities Discount, and such other terms and conditions of service as are lawful and mutually agreeable. No Discounts will be provided prior to execution of such Agreement. No Discounts will be provided sooner than 90 days following Company's receipt of customer's Application.

The discount level specified in the Agreement for each Contract Year will reduce the amount due for each bill for electric service issued by Company during the term that the Discounts are effective.

Where it has been determined that there is Baseline Usage and/or Transferred Load, the Discounts will be applied to the difference between the bill that would be calculated using total metered demand and energy and the bill that would be calculated using Baseline Usage plus Transferred Load except where the difference is negative, the Discounts will not be negative.

If the Commission determines in a general rate proceeding that the level of Discounts provided do not result in a positive contribution to fixed costs in excess of variable costs, then the Discounts will be reduced, prospectively, to the extent required by the Commission order irrespective of the Contract Year discount level specified in the Agreement.

RELOCATION COSTS

Costs associated with relocation of Company facilities that are necessary to make the premises suitable for customer's siting or expansion will be treated as line extension costs and will not be subject to the provisions of Company's General Rules and Regulations, III. Distribution System Extensions, Relocation of the Distribution System tariff.

Costs associated with relocation of Company facilities that are cosmetic or strictly for customer convenience will remain subject to the provisions of Company's General Rules and Regulations, III. Distribution System Extensions, Relocation of the Distribution System tariff.

*Indicates Change.
RIDER EDI

ECONOMIC DEVELOPMENT INCENTIVE (Cont’d.)

CUSTOMER OBLIGATIONS

In order to continue receiving service under this Rider, customer must provide either by paper copy or electronically the following verifications to Company, under Affidavit, by June 30 of each year:

1. Verification from the local, regional, or state governmental entity that provided economic development incentives in conjunction with the incremental load that the incentives provided remain effective and have not been in any manner cancelled or revoked.
2. Verification that the facility is an industrial or commercial facility not accessible by the general public for the purpose of directly selling or providing goods and/or services.
3. Verification of Transferred Load:
   a. Certification that there was not any Transferred Load, or
   b. A description of the Transferred Load, including account numbers, suitable for Company to determine or estimate the billing determinants of the Transferred Load.

EVALUATION OF LOAD

Beginning at the end of the second Contract Year and annually thereafter, customer's Qualifying Demand and Load Factor of the incremental load will be evaluated to verify that it qualifies to continue receiving the Rider EDI Discount or the Beneficial Location of Facilities Discount. Only the incremental demand and energy will be evaluated after subtracting any Baseline Usage and/or Transferred Load. Company may consider any Force Majeure conditions that impacted customer during the Contract Year when completing the incremental load evaluation.

*EARLY TERMINATION

Company shall terminate service under this Rider and no further Rider EDI Discount or Beneficial Location of Facilities Discount will be available under any of the following conditions:

1. Customer cannot or does not provide the annual verifications listed under Customer Obligations, or
2. Customer 's Qualifying Demand or Load Factor no longer satisfy the minimum requirements to receive Discounts under this Rider, or
3. If any term or terms of this Rider are determined to be discriminatory or otherwise unlawful by a court of competent jurisdiction or the Commission, or
4. If at any time during term of the Agreement, customer is allowed by changes in federal law, state law or Commission rules to take part or all of electric service from a provider other than Company.

*Indicates Change.
RIDERS EDI
ECONOMIC DEVELOPMENT INCENTIVE (Cont'd.)

EARLY TERMINATION (Cont'd.)

When Company's authority to provide the Rider EDI Discount and the Beneficial Location of Facilities Discount expires, subject to continued incremental load qualification and local, regional, or state governmental entity verification of continued incentives, a customer with an existing Agreement will be eligible to receive the Incentive Provisions specified in Company's Rider EDRR - Economic Development and Retention Rider for the remainder of the initial five (5) year term associated with the Rider EDI Discount.

Customer may terminate service under this Rider upon written notice. Such termination shall become effective at the end of the current billing period in which the written notice is received by Company.

FILING REQUIREMENTS

Within thirty (30) days of execution of Agreement, Company will submit the following information through EFIS:

1. The Agreement.
2. Verification of local, regional, or state governmental economic development incentives received by customer.
3. Estimates of anticipated Qualifying Demand and Load Factor.
4. Company's estimate of the contribution to fixed costs in excess of variable costs after applying the Discounts for the electric account that is discounted.
5. Determination that the electric account is an industrial or commercial facility not accessible by the general public for the purpose of directly selling or providing goods and/or services.

This information will be submitted as a Non-Case-Related Submission. Company shall also file a publicly accessible version of each submittal with confidential information redacted in File No. ET-2019-0149.

Within thirty (30) days of the early termination of any Agreement, Company will submit notice of such early termination as a Non-Case-Related Submission.

Company will include, in its integrated resource plan filing and each update, a report for all active Agreements under this Rider which includes:

1. Records of the most recent verification of local, regional, or state governmental economic development incentives.
2. Company's estimate of the contribution to fixed costs after applying the Discounts for each Agreement separately, based on actual historical usage.
3. Affidavit as to the veracity of the calculations made in paragraph 2.
RIDER EDI
ECONOMIC DEVELOPMENT INCENTIVE (Cont'd.)

**EARLY TERMINATION (Cont'd.)**

When Company's authority to provide the Discounts ends, subject to continued incremental load qualification and local, regional, or state governmental entity verification of continued incentives, a customer with an existing Agreement will be eligible to continue to receive Discounts subject to the provisions of "Availability To Rider EDI Customers" specified in Company's Rider EDRR – Economic Development and Retention Rider for the remainder of the term specified in the Agreement.

Customer may terminate service under this Rider upon written notice. Such termination shall become effective at the end of the current billing period in which the written notice is received by Company.

**FILING REQUIREMENTS**

Within thirty (30) days of execution of Agreement, Company will submit the following information through EFIS:

1. The Agreement.
2. Verification of local, regional, or state governmental economic development incentives received by customer.
3. Estimates of anticipated Qualifying Demand and Load Factor.
4. Company's estimate of the contribution to fixed costs in excess of variable costs after applying the Discounts for the electric account that is discounted.
5. Determination that the electric account is an industrial or commercial facility not accessible by the general public for the purpose of directly selling or providing goods and/or services.

This information will be submitted as a Non-Case-Related Submission. Company shall also file a publicly accessible version of each submittal with confidential information redacted in File No. ET-2019-0149.

Within thirty (30) days of the early termination of any Agreement, Company will submit notice of such early termination as a Non-Case-Related Submission.

Company will include, in its integrated resource plan filing and each update, a report for all active Agreements under this Rider which includes:

1. Records of the most recent verification of local, regional, or state governmental economic development incentives.
2. Company's estimate of the contribution to fixed costs after applying the Discounts for each Agreement separately, based on actual historical usage.
3. Affidavit as to the veracity of the calculations made in paragraph 2.

*Indicates Change.
RIDER EDRR

ECONOMIC DEVELOPMENT AND RETENTION RIDER

PURPOSE

The purpose of this Economic Development and Retention Rider ("Rider") is to encourage new industrial and commercial development in Company's service territory and to retain existing load where possible.

STANDARD AVAILABILITY

Electric service under this Rider is only available, at Company’s option, to customers currently served by or considering service from the Company where other viable electric supply options outside of Company’s service area have been offered. Customer must be currently served, or qualify for service, under the Company's Service Classifications 3(M) Large General Service Rate, 4(M) Small Primary Service Rate, or 11(M) Large Primary Service Rate. Electric service under this Rider is only available in conjunction with local, regional, or state governmental economic development activities where incentives have been offered and accepted by customer who is requesting service to locate new or expanding facilities in the Company's service area or whose exit from the Company’s service area is imminent.

*AVAILABILITY TO RIDER EDI CUSTOMERS

In the event that Company's authorization to provide Rider EDI Discounts and Beneficial Location of Facilities Discounts as defined under Rider EDI ends, a customer with an existing Rider EDI agreement will be eligible, as specified in the agreement, to either:

1. Receive the Incentive Provisions of this Rider EDRR for the remainder of the term specified in the Rider EDI agreement.

2. As evidenced within the Rider EDI agreement by customer's certification, where customer's location decision would not have resulted in the qualifying load being located in Company's service territory but for the customer's qualifying load receiving the discount levels specified in Rider EDI for the full term under the agreement, such customer will continue to receive all of the Rider EDI Discounts and Beneficial Location of Facilities Discounts as defined under Rider EDI and specified in the Rider EDI agreement for the term of that agreement as if the Company's authorization under §393.1640 RSMo had not ended.

In either case, the Definitions, Applicability, Customer Obligations, Evaluation of Load, and Early Termination provisions contained in Rider EDI will continue to apply to all agreements initially entered into under Rider EDI. Company reporting concerning such agreements shall be made under the Filing Requirements of Rider EDRR.

APPLICABILITY

The qualifying load under this Rider shall be the entire load of a new customer, the incremental new load of an existing customer, or the portion of an existing load.

*Indicates Change.
RIDER EDRR

ECONOMIC DEVELOPMENT AND RETENTION RIDER (Cont'd.)

*APPLICABILITY (Cont'd.)

Customer’s load for which exit from the Company’s service area is imminent. In addition, the qualified load must meet the following criteria for consideration under this Rider:

1. The annual load factor of the customer’s qualifying load is reasonably projected to equal or exceed fifty-five percent (55%) during the entire term of application of this Rider, where

   Load factor = annual kWh / peak demand / 8760 hours.

2. The peak demand of the customer’s qualifying load is, or is reasonably projected to be, at least 500 kW during each contract year under this Rider.

3. The availability of this Rider shall be limited to industrial and commercial facilities not involved in selling or providing goods and/or services directly to the general public.

As a condition of service under this Rider, customer must furnish to Company such documentation as deemed necessary by Company to verify customer’s intent to select a viable electric supply option outside of Company’s service area, including an affidavit stating customer’s intent.

The Company, at its sole discretion, shall determine whether an applicant or customer meets the requirements of this Rider and the acceptability of the information provided.

Service under this Rider shall be evidenced by a contract between the customer and the Company, which shall be submitted to the Commission for informational purposes. The terms of the contract shall be held in confidence by the Commission, the customer or its agent, and the Company.

**INCENTIVE PROVISIONS

The customer shall enter into a contract with the Company specifying the nature of the service to be provided, the discounts from standard tariffs to be applied, the term of the contract, and such other terms and conditions of service as are lawful and mutually agreeable. Revenues to be received from customer over the term of the contract shall be greater than the applicable incremental cost to provide electric service, as determined by the Company, ensuring a positive contribution to fixed costs. Except as specified in a Rider EDI agreement, a contract entered into under this Rider EDRR shall not:

1. Represent more than a 15% discount from otherwise applicable tariffs, before tax additions, or

2. Include a contract term which extends more than five (5) years.

If customer fails to fulfill the entire term of the contract under this Rider EDRR, any agreed upon discounts shall become void and shall be repaid by customer.

Incentives under Rider EDI agreements are not subject to repayment by customer.

*Indicates Reissue. **Indicates Change.
RIER EDRR
ECONOMIC DEVELOPMENT AND RETENTION RIDER (Cont'd.)

**TERM**
This Rider shall immediately become void, and the Company shall have no further obligations or liabilities hereunder, if any term or terms of this Rider are determined to be discriminatory or otherwise unlawful by a court of competent jurisdiction.

**CUSTOMER OBLIGATIONS**
For customers that commence service under or are transferred to this Rider after the initial effective date of this tariff, in order to continue receiving service under this Rider, customer must provide either by paper copy or electronically the following verifications to Company, under Affidavit, by June 30 of each year:

1. Verification from the local, regional, or state governmental entity that provided economic development incentives in conjunction with the incremental load that the incentives provided remain effective and have not been in any manner cancelled or revoked.
2. Verification that the electric account is an industrial or commercial facility not involved in selling or providing goods and/or services directly to the general public.
3. Verification of transferred load:
   a. Certification that no equipment or process that was operating at the time of application was transferred to the electric account receiving service under this Rider, or
   b. A description of the transferred load, including account numbers, suitable for Company to determine or estimate the billing determinants of the transferred load.

**FILING REQUIREMENTS**
Within thirty (30) days of execution of a contract, Company will submit the following information through EFIS:

1. The contract.
2. Verification of local, regional, or state governmental economic development incentives received by customer.
3. Estimates of anticipated peak demand and load factor
4. Company's estimate of the contribution to fixed costs in excess of variable costs after applying the discounts for the electric account that is discounted.
5. Determination that the electric account is an industrial or commercial facility not involved in selling or providing goods and/or services directly to the general public.

This information will be submitted as a Non-Case-Related Submission. Company shall also file a publicly accessible version of each submittal with confidential information redacted in File No. ET-2019-0149.

*Indicates Reissue.
RIDER EDRR
ECONOMIC DEVELOPMENT AND RETENTION RIDER (Cont'd.)

*FILING REQUIREMENTS (Cont’d.)

Within thirty (30) days of the early termination of any contract, Company will submit notice of such early termination as a Non-Case-Related Submission.

For customers that commence service under or are transferred to this Rider after the initial effective date of this tariff, Company will include, in its integrated resource plan filing and each update, a report for all active contracts under this Rider which includes:

1. Records of the most recent verification of local, regional, or state governmental economic development incentives.
2. Company's estimate of the contribution to fixed costs after applying the discounts for each contract or Agreement separately, based on actual historical usage.
3. Affidavit as to the veracity of the calculations made in paragraph 2.

*Indicates Change.
RIDER ERR

ECONOMIC RE-DEVELOPMENT RIDER

PURPOSE

The purpose of this Economic Re-Development Rider is to encourage re-development of certain sites in the Company’s service territory. Projects eligible for service under this Rider shall provide socio-economic benefits to the areas in which they locate as well as provide the Company with more efficient utilization of Company’s existing infrastructure.

AVAILABILITY

Available, only at Company’s option, to customers locating to previously vacant sites within the City of St. Louis and applying for electric service otherwise qualified for service under the Company's Service Classification 3(M) Large General Service Rate, 4(M) Small Primary Service Rate, or 11(M) Large Primary Service Rate. All Terms and Conditions of Company’s tariffs shall apply to the service supplied to customer, except as modified by this Rider.

Availability of this Rider is subject to the following limitations:

1. Project shall have an estimated average monthly peak demand of at least 500 kW during each contract year under this Rider.

2. The Rider is available only for projects on sites that are within the designated areas of the City of St. Louis and defined on maps contained in this Rider.

3. This Rider is available for eligible load associated with an existing premises served or previously served by Company, provided the premises is either unoccupied or otherwise dormant (e.g. vacant land and/or buildings) for a minimum period of one hundred-eighty (180) days.

4. Electric service under this Rider is only available in conjunction with Federal, State, Regional or Local governmental economic development activities such as, but not limited to, Tax Increment Financing (“TIF”), Empowerment and Enterprise Zone incentives, brownfield tax credits, new market tax credits, etc., where these incentives have been offered and accepted by customer who is requesting service to locate new or expanding facilities within the aforementioned sites.

5. Service under this Rider is limited to loads, which in the Company’s sole judgment, utilize existing infrastructure in a manner which is beneficial to the local electric service delivery system.

6. This Rider is not available to a successor customer that results merely from load shifted from one location on Company’s system to a qualifying site, unless approved by Company.
RIDER ERR
ECONOMIC RE-DEVELOPMENT RIDER (Cont'd.)

INCENTIVE PROVISIONS

1. Facilities and Relocation Charges
   In the presence of physical conflicts associated with any new construction or expansion of customer's premises or electrical load, Company may, at its sole discretion, upon customer's request, relocate any distribution facilities to a right-of-way acceptable to Company on or off customer's premises, following the payment by customer of the Company’s estimated net cost of relocating its distribution facilities. The net relocation cost chargeable to customer may be offset in part by an amount not to exceed 50 percent (50%) of any net annual revenue estimated to be derived from customer’s premises, and not utilized in meeting the Company’s tariff provisions governing extensions to non-residential customers.

2. Discount from Standard Tariff
   The customer shall enter into a contract with the Company specifying the character of the service to be provided and such other terms and conditions of service as are mutually agreeable. Customers meeting the criteria established in this tariff shall be eligible for a 15% discount from otherwise applicable base rate tariff charges, before application of taxes. Application of this discount provision is limited to customers whose average annual peak demand is at least 500 kW and whose annual load factor exceeds 55%. The discount shall remain in effect for up to 60 months and is not available for customers which are residential or retail in nature.

TERMS AND CONDITIONS

Customers participating in this Rider will be ineligible for participation in any other economic development, economic retention, or similar tariff of the Company.

Maps showing the locations qualifying for consideration under this Rider, subject to Company approval, are attached and part of this Rider.

Notwithstanding the above, this Rider shall immediately become void, and the Company shall have no further obligations or liabilities hereunder, if any term or terms of this Rider are determined to be discriminatory or otherwise unlawful by a court of competent jurisdiction.
RIDER ERR
ECONOMIC RE-DEVELOPMENT RIDER (Cont'd.)

City of St. Louis, Missouri:
RIDER ERR

ECONOMIC RE-DEVELOPMENT RIDER (Cont'd.)

City of St. Louis, Missouri:
RIDER ERR

ECONOMIC RE-DEVELOPMENT RIDER (Cont'd.)

City of St. Louis, Missouri:
RIDER ERR

ECONOMIC RE-DEVELOPMENT RIDER (Cont'd.)

City of St. Louis, Missouri:

DATE OF ISSUE  May 31, 2013  DATE EFFECTIVE  June 30, 2013

ISSUED BY  Warner L. Baxter  President & CEO  St. Louis, Missouri
The purpose of this Rider SR Solar Rebate 2019-2023 is to implement the solar rebate established through §393.1670 RSMo and to establish the terms, conditions and procedures which the Company will rely on in accepting rebate applications and authorizing rebate payments to eligible participants for a qualifying solar electric system.

**AVAILABILITY**

Except as otherwise provided herein, the Solar Rebate program is available to all customers receiving service under Service Classifications 1(M) Residential Service Rate, 2(M) Small General Service Rate, 3(M) Large General Service Rate, 4(M) Small Primary Service Rate, 6(M) Street and Outdoor Area Lighting – Customer-Owned, 11(M) Large Primary Service Rate, or 12(M) Large Transmission Service Rate.

Details concerning the current Rebate Commitment levels, Reservation Queue, and payment levels are posted on the Company’s website at www.ameren.com and will be updated monthly.

Retail customers (customer) of Company are eligible for the solar rebate with the following limitations and conditions:

1. The customer must be an active account on the Company’s system.
2. The System must be permanently installed on the customer’s premise.
3. The customer must declare the installed System will remain in place on the account holder’s premise for a minimum of ten (10) years.
4. The solar modules and inverters shall be new equipment and include a manufacturer's warranty of ten (10) years.
5. A retail electric account receiving service under 1(M) Residential Service will be eligible for a solar rebate not to exceed twenty-five kilowatts (25 KW) and all other service classification will be eligible for a solar rebate not to exceed one hundred fifty kilowatts (150 KW) of new or expanded capacity irrespective of the number of meters/service points associated with the account.
6. The System or expansion of an existing System must not become operational until after December 31, 2018 and must become operational on or before December 31, 2023.
7. The System shall meet all requirements of either: a) 4 CSR 240-20.065 and Company’s Electric Power Purchases from Qualified Net Metering Units tariff or b) 4 CSR-240-20.060 and Company’s Electric Power Purchase from Qualifying Facilities tariff.
8. The system must include a "Grid Support Utility Interactive Inverter" or inverters from Go Solar California's approved list.

*Indicates Addition
**RIDER SR**

**SOLAR REBATE 2019-2023 - 393.1670 (Cont'd.)**

*AVAILABILITY (Cont'd.)*

9. The System must be situated in a location where a minimum of eighty-five percent (85%) of the solar resource is available to the System.

*DEFINITIONS*

**Completion Requirements** - All System installation and final documentation requirements as defined on Company’s website [www.ameren.com](http://www.ameren.com) for an Interconnection Application and Solar Rebate Application provided to Company including but not limited to the System installation date, all required signatures, approval of the local inspection authority having jurisdiction (if applicable), copies of detailed receipts and invoices, and System photo(s).

**Interconnection Application** - Section A. through Section D. of a “Interconnection Application/Agreement for Net Metering Systems with a Capacity of 100 kW or Less” ("Net Metering Agreement") or "Interconnection Application/Agreement for Inverter-Based Generator Systems with Capacity of 1,000 kW or Less" ("Qualifying Facilities Agreement") which can be obtained from Company’s website [www.ameren.com](http://www.ameren.com).

**Operational Date** - The date that the Company installs a bi-directional meter and/or permits parallel operation of the System with Company’s electrical distribution system in accordance with Company’s Net Metering Agreement or Qualifying Facilities Agreement and respective tariffs.

**Qualification Date** - The date and time that determines a customer’s relative position in the Reservation Queue and is recorded when all Solar Rebate Application information has been entered into the online portal and the Solar Rebate Application is accepted by Company. The Qualification Date for paper or email copies of Solar Rebate Application information received by Company will be based on when the information is manually entered by Company into the online portal, and Company makes no guarantee as to the length of time necessary for Company to make such entry and accept the Solar Rebate Application.

**Rebate Commitment** - Company’s written communication to customer, by letter or email, confirming that solar rebate funding is available for a Solar Rebate Application submitted by customer.

**Reservation Queue** - The list of all accepted Solar Rebate Applications that have been received by Company which have not received a Rebate Commitment and have not expired and have not been paid a Solar Rebate.

**Solar Rebate Application** - Basic customer and System information necessary to receive approval of a Rebate Commitment from Company as defined on Company’s website [www.ameren.com](http://www.ameren.com) provided to Company including but not limited to accurate account number, name and service address matching customer billing information, all fields of the Solar Rebate Application, developer signature, and for accounts not receiving service under Service Classifications 1(M) Residential Service Rate, a taxpayer information form of the customer.

*Indicates Addition*
*DEFINITIONS (Cont'd.)
System – Qualifying solar electric system.

*REBATE RATE SCHEDULE
Subject to the Availability and other provisions of this Rider SR Solar Rebate 2019-2023, Systems that become operational on or before June 30, 2019 will be eligible for a solar rebate in the amount of $0.50 per watt and Systems that become operational from July 1, 2019 through December 31, 2023 will be eligible for a solar rebate in the amount of $0.25 per watt.

If a customer has satisfied all of the System Completion Requirements by June 30th, 2019 or by December 31, 2023, but the Company is not able to complete all of the Company’s steps needed to establish an Operational Date on or before the respective dates, the Rebate Rate will be determined based on the date the Completion Requirements were met by customer. If it is subsequently determined that the customer or the System did not satisfy all Completion Requirements on or before the respective date, the rebate rate will be determined based on the Operational Date.

*REBATE PAYMENT PERIODS AND FUNDING LEVELS
Company will not be obligated to make Rebate Commitments exceeding $28.0 million cumulatively over the five (5) calendar years 2019-2023. Of this amount, Company will reserve $800,000 of solar rebate funding cumulatively over the five (5) year period to only be available for use by customers receiving service under Service Classification 1(M) Residential Service that meet the eligibility for the Low-Income Program. For all other projects, Company will make Rebate Commitments that will not exceed the following schedule:

<table>
<thead>
<tr>
<th>Commitment Year</th>
<th>All Rebates Except Low Income</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019</td>
<td>$10.0 million</td>
</tr>
<tr>
<td>2020</td>
<td>$5.6 million</td>
</tr>
<tr>
<td>2021</td>
<td>$5.6 million</td>
</tr>
<tr>
<td>2022</td>
<td>$5.6 million</td>
</tr>
<tr>
<td>2023</td>
<td>$0.4 million</td>
</tr>
</tbody>
</table>

In any given year, any portion of rebate funds that have not been paid to customers, will be made available in the following year except any funds remaining at the conclusion of the 2023 program year will expire and will not be made available thereafter.

*Indicates Addition
RIDER SR

SOLAR REBATE 2019-2023 - 393.1670 (Cont'd.)

*SOLAR REBATE APPLICATION, QUALIFICATION DATE & REBATE COMMITMENT*

Company will begin accepting Solar Rebate Applications on November 1, 2018 for the 2019 payment year and on September 1 preceding each subsequent payment year for which rebates are available.

Only one (1) Solar Rebate Application may be active for an account at any time. The capacity of a Solar rebate application may be revised lower but may not be increased. Either an increase in the capacity of an existing Solar Rebate Application or the submission of a new Solar Rebate Application will automatically cancel any previous Solar Rebate Application for the account. The online portal will attempt, to the extent practical, to alert the customer or developer that the action being taken will generate a new Qualification Date and cancel any existing Qualification Date before accepting the Solar Rebate Application and assigning a new Qualification Date.

A Solar Rebate Application and an Interconnection Application do not need to be submitted at the same time. A Rebate Commitment can be made by Company without an Interconnection Application having been previously submitted. Customers or developers submitting Interconnection Applications prior to Company accepting Solar Rebate Applications may submit a Solar Rebate Application provided the System did not and does not have an Operational Date on or before December 31, 2018.

Company will only make a Rebate Commitment to a customer that has been assigned a Qualification Date. At the time that a Solar Rebate Application is accepted by Company, Company will notify the customer and developer in writing, by letter or email, that:

1. Solar rebate funds have been committed for their System, or
2. The solar rebate funds are fully subscribed and their Solar Rebate Application has been placed in the Reservation Queue.

To the extent possible, Company will also provide an "instant" notification of the above at the time the Solar Rebate Application is accepted.

A Solar Rebate Application will expire on the subsequent August 31st after it has been accepted by Company if a Rebate Commitment has not been made by Company.

A Rebate Commitment will expire if the System has not met all Completion Requirements upon the earlier of:

1. After sixty (60) days if a complete Interconnection Application has not been submitted and accepted by Company, or
2. Twelve (12) months from the date of the Rebate Commitment, or

*Indicates Addition*
RIDER SR

SOLAR REBATE 2019-2023 – 393.1670 (Cont'd.)

*RESERVATION QUEUE

In any year in which the solar rebate funding level has been reached, Company will establish a Reservation Queue for Solar Rebate Applications based on System Qualification Dates.

At least quarterly, Company will notify in writing, by letter or email, those customers and their developers that did not receive a Rebate Commitment when the Solar Rebate Application was accepted by Company and whose Solar Rebate Application has not expired but for which a Rebate Commitment is now being made as a result of other Solar Rebate Commitments having expired or been cancelled from the Reservation Queue.

For Rebate Commitments made to Solar Rebate Applications in the Reservation Queue, the customer or developer must, within thirty (30) days, provide confirmation of an intent to complete the System. Such confirmation by the customer or developer shall be registered through the Solar Rebate Application online portal or by returning an expression of interest form available on the Company website at www.ameren.com. A Rebate Commitment made to a Solar Rebate Application in the Reservation Queue will expire after 30 days if such confirmation is not provided to Company.

*REBATE PAYMENT

The amount of the rebate will be the combined direct current (DC) rating of the solar module(s) in watts from the manufacturer’s specification sheet(s) for the new System or the current expansion of an existing System multiplied by the rebate rate as determined by the Rebate Rate Schedule provisions of this Rider SR.

To the extent that the capacity (KW) of the Interconnection Application and the capacity (KW) of the Solar Rebate Commitment are not the same, the amount of the rebate payment shall be the lesser of the two (2) capacities.

A rebate payment will be made within thirty (30) days of the Operational Date provided that:

1. Customer has satisfied all Completion Requirements, and

2. An Interconnection Application has been executed by the customer and Company.

If a customer has satisfied all of the Completion Requirements but the Company is not able to complete all of the Company’s steps needed to establish an Operational Date by the expiration of the Rebate Commitment, the Rebate Rate will be determined as though the Operational Date was achieved prior to the expiration. If it is subsequently determined that the customer or the System did not satisfy all Completion Requirements required of the customer on or before the expiration date, the Rebate Commitment will expire and no payment will be made.

*Indicates Addition
RIDER SR

SOLAR REBATE 2019-2023 – 393.1670 (Cont'd.)

SOLAR RENEWABLE ENERGY CREDITS (SREC'S)

On and after January 1, 2019, as a condition of receiving a solar rebate, customer shall transfer to Company all right, title and interest in and to the solar renewable energy credits ("SRECs") associated with the new or expanded System that qualified customer for the solar rebate for a period of ten (10) years from the date Company confirmed that the System was installed and operational.

SRECs produced by the System, for which a rebate is received, cannot be sold or promised for sale to any other party by customer or used by customer for any environmental or "green" program for a period of ten (10) years from the date Company confirmed that the System was installed and operational.

The number of SRECs produced annually will be determined by Company using PVWatts software developed by the U.S. Department of Energy (DOE) with the result rounded to the tenths digit.

LOW-INCOME PROGRAM

Customers on Service Classification 1(M) Residential Service who have received assistance from either Missouri Energy Assistance (a.k.a. Low Income Home Energy Assistance Program or LIHEAP), Winter Energy Crisis Intervention Program, Summer Energy Crisis Intervention Program, the Company’s Keeping Current Low Income Pilot Program, and/or the Company’s Keeping Cool Low Income Pilot Program during any of the 12 months previous to submitting a Solar Rebate Application will be eligible for Low-Income Program solar rebate funds.

All terms and conditions of this Rider SR Solar Rebate 2019-2023 shall apply to the Low-Income Program.
RIDER SR

SOLAR REBATE 2019–2023 – 393.1670 (Cont'd.)

SOLAR REBATE APPLICATION FORM

The date and time that determines a customer’s relative position in the Reservation Queue and is recorded when all Solar Rebate Application information has been entered into the online portal and the Solar Rebate Application is accepted by Company. The Qualification Date for paper or email copies of Solar Rebate Application information received by Company will be based on when the information is manually entered by Company into the online portal, and Company makes no guarantee as to the length of time necessary for Company to make such entry and accept the Solar Rebate Application.

This form is only representative of the information that will be required to submit a Solar Rebate Application. The Solar Rebate Application should be accessed, completed and submitted through the Company website at www.ameren.com.

Customer Information Required:

Name: *_______________________ Account Number: *_______________________
Premises Address: *_________________________ Phone Number: _______________________
Email Address: _____________________________
Completed Taxpayer Information Form (W-9): **___ (to be attached/uploaded)

**Must match information on Ameren Missouri account.
**Does not apply to residential accounts

Contractor/Developer/Installer Information:

Company Name: ______________________________________________________________
Contact Name: ___________________________ Contact Phone: _______________________
Contact Email: ______________________________________________________________

System Information Required:

DC Rating of each panel (watts): __________
Number of Panels: _______________________
Single-line diagram: (to be attached/uploaded)

Solar Rebate Declarations (at time of application):

I understand and agree to the complete terms and conditions of the solar rebate program which are included in Company’s Rider SR – Solar Rebate 2019–2023 – 393.1670 tariff which can be accessed at www.ameren.com.

I understand that Company will not accept any Solar Rebate Application prior to November 1, 2018, or September 1 for subsequent years, and that any Solar Rebate Application received prior to those dates, in any form, will be discarded.
SOLAR REBATE APPLICATION FORM (Cont'd.)

I understand that upon receiving a Rebate Commitment I must submit an Interconnection Application (if I have not already done so) within 60 days or the Rebate Commitment will expire.

I understand that the System must include a "Grid Support Utility Interactive Inverter" or inverters from Go Solar California's approved list.

I understand that this program has a limited budget, and that application will be accepted on a first-come, first-served basis, while funds are available. It is possible that I may be notified I have been placed in the Reservation Queue if funds run out for the current year and that I will need to reapply for funds for a subsequent year if I have not received a Rebate Commitment by August 31. This program may be modified or discontinued at any time without notice from Company.

I understand that the solar System must:
• be permanently installed, and
• remain in place on premises for a minimum of ten (10) years, and
• be situated in a location where a minimum of eighty-five percent (85%) of the solar resource is available to the system, and
• be constructed with equipment that commercially available, new when installed, and carries a minimum ten (10) year warranty.

I understand a rebate may be available from Company in the amount of:
• $0.50 per watt for systems operational between January 1, 2019 and June 30, 2019;
• $0.25 per watt for systems operational between July 1, 2019 and December 31, 2023;

I understand that the maximum rebate available is:
• 25 KW for a customer receiving residential service, and
• 150 KW for all other customers

I understand the DC wattage rating of the panels provided by the original manufacturer will be used to determine rebate amount.

I understand I may receive an IRS Form related to my rebate amount. (Please consult your tax advisor with any questions.)

I understand that as a condition of receiving a solar rebate, I am transferring to Company all right, title and interest in and to the solar renewable energy credits (SRECs) associated with the new or expanded System that this Solar Rebate Application is applicable to for a period of ten (10) years from the date Company confirmed that the System was installed and operational, and during this period, I may not claim credit for the SRECs under any environmental program or transfer or sell the SRECs to any other party.
RIDER SR

SOLAR REBATE 2019-2023 - 393.1670 (Cont'd.)

SOLAR REBATE APPLICATION FORM (Cont'd.)

I understand that there are other requirements to be completed after the System becomes operational prior to Company releasing a rebate payment including but not limited to providing the following information to Company:

- Copies of detail receipts/invoices with purchase date circled
- Copies of detail spec sheets on each component
- Copies of proof of warranty sheet (minimum of 10 year warranty)
- Photo(s) of completed system

The undersigned warrants, certifies, and represents that the information provided in this form is true and correct to the best of my knowledge; and the installation will meet all Solar Rebate program and interconnection requirements.

Applicant’s Signature

Installer’s Signature

Print Solar Rebate Applicant’s Name

Print Installer’s Name

DATE OF ISSUE August 29, 2018

DATE EFFECTIVE September 28, 2018

ISSUED BY Michael Moehn

NAME OF OFFICER President

ADDRESS St. Louis, Missouri
RIDERSR
SOLAR REBATE RS MO 393.1030

*PURPOSE
The purpose of this Rider SR is to implement the solar rebate established through §393.1030 RSMo and to establish the terms, conditions and procedures which the Company will rely on in accepting rebate applications and authorizing rebate payments to eligible participants for a qualifying solar electric system.

*AVAILABILITY
The Company will not suspend payment of solar rebates in 2014 and beyond until the solar rebate payments reach an aggregate level of $91.9 million (the "specified level") incurred subsequent to July 31, 2012 as defined in the Non-Unanimous Stipulation and Agreement approved by the Missouri Public Service Commission ("Commission") in File Number ET-2014-0085 ("Stipulation"). Solar rebate payments are anticipated to reach the specified level during 2014. The Company has filed with the Commission an application under the 60-day process as outlined in §393.1030.3 RSMo. to cease payments when the specified level is reached and all future calendar years, in accordance with the approved Stipulation, and the Commission has determined that the the maximum average retail rate increase, as specified in §393.1030.3 RSMo., will be reached when the specified level of payments has been made. Ameren Missouri solar rebate funds are no longer available for new applicants. However, if you submitted an application in December 2013 you are in the rebate commitment queue. Details concerning the current payment levels are posted on the Company’s website at www.ameren.com.

All retail customers (customer) of Company are eligible for the solar rebate with the following limitations and conditions:

1. The customer must be an active account on the Company’s system and in good payment standing.
2. The System must be permanently installed on the customer’s premise.
3. The customer must declare the installed System will remain in place on the account holder’s premise for a minimum of ten (10) years.
4. The solar modules and inverters shall be new equipment and include a manufacturer's warranty of ten (10) years.
5. No retail electric account will be eligible for a solar rebate for more than twenty-five kilowatts (25 kW) of new or expanded capacity irrespective of the number of meters/service points associated with the account.
6. The System or expansion of an existing System must not become operational until after December 31, 2009 and must become operational on or before June 30, 2020.
7. The System shall meet all requirements of 4 CSR 240-20.065 and Company’s Electric Power Purchases from Qualified Net Metering Units tariff.

*Indicates Reissue

DATE OF ISSUE August 29, 2018   DATE EFFECTIVE September 28, 2018
ISSUED BY Michael Moehn   President   St. Louis, Missouri

NAME OF OFFICER   TITLE   ADDRESS
RIDER SR

SOLAR REBATE RS MO 393.1030 (Cont'd.)

*AVAILABILITY (Cont'd.)

8. The System must be situated in a location where a minimum of eighty-five percent (85%) of the solar resource is available to the System.

*DEFINITIONS

Application Requirements – All Net Metering Application and Solar Rebate Application information necessary to receive an approval from Company as defined on Company’s website www.ameren.com provided to Company including but not limited to accurate account number, name and service address matching customer billing information, all of the Net Metering Application, all fields of Solar Rebate Application except the “System Installation Date,” customer and developer signatures, System plans, specifications, warranties and wiring diagram.

Completion Requirements – All System installation and final documentation requirements as defined on Company’s website www.ameren.com provided to Company including but not limited to the System installation date, all required signatures, approval of the local inspection authority having jurisdiction (if applicable), copies of detailed receipts and invoices, System photo(s), taxpayer information form and affidavit (if applicable).

Net Metering Application – Section A. through Section D. of a “Interconnection Application/Agreement for Net Metering Systems with a Capacity of 100 kW or Less” which can be obtained from Company’s website www.ameren.com.

Operational Date – The date that the Company installs a bi-directional meter and permits parallel operation of the System with Company’s electrical distribution system in accordance with Company’s “Electric Power Purchases From Qualified Net Metering Units” tariff.

Qualification Date – The date that determines a customer’s relative position in the Reservation Queue.

Rebate Commitment – Company’s written communication to customer, by letter or email, confirming that solar rebate funding is available for a Solar Rebate Application submitted by customer.

Reservation Queue – The list of all complete Net Metering Applications that have been received by Company which have not expired and have not been paid a Solar Rebate.

Solar Rebate Application – Sections H. and I. of a “Interconnection Application/Agreement for Net Metering Systems with a Capacity of 100 kW or Less” which can be obtained from Company’s website www.ameren.com.

System – Qualifying solar electric system

*Indicates Reissue
RIDERSR
SOLAR REBATE RS MO 393.1030 (Cont'd.)

*REBATE RATE SCHEDULE

Subject to the Availability provisions of this Rider SR, complete and accurate Solar
Rebate Applications received by Company or postmarked on or before December 31st of
any year, and for which the System becomes operational on or before June 30th of the
following year, will be eligible for a solar rebate according to the following
schedule:

<table>
<thead>
<tr>
<th>Application Received on or before December 31st of the year</th>
<th>Operational Status Achieved on or before June 30th of the year</th>
<th>Rebate Rate per Watt</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013</td>
<td>2014</td>
<td>$2.00</td>
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<td>$0.50</td>
</tr>
<tr>
<td>2019</td>
<td>2020</td>
<td>$0.25</td>
</tr>
</tbody>
</table>

If a customer has satisfied all of the System Completion Requirements by June 30th,
of indicated years, but the Company is not able to complete all of the Company’s
steps needed to establish an Operational Date on or before June 30th, the Rebate
Rate will be determined as though the Operational Date was June 30th. If it is
subsequently determined that the customer or the System did not satisfy all
Completion Requirements required of the customer on or before June 30th, the rebate
rate will be determined based on the Operational Date.

*RESERVATION QUEUE

Company will establish a Reservation Queue for solar rebate payments based on System
Qualification Dates. A customer, and their developer, whose Net Metering
Application and Solar Rebate Application are approved will be notified in writing,
by letter or email that either:

1. Solar rebate funds have been committed for their System, subject to the
   Qualification Date not changing and the commitment not expiring, or

2. Solar rebate funds cannot be guaranteed for their System

At least twice monthly, Company will notify in writing, by letter or email, those
customers and their developers that did not receive a Rebate Commitment but for
which a Rebate Commitment is now being made as a result of other Systems that have
dropped out of the Reservation Queue. Details concerning the Reservation Queue are

*Indicates Reissue
RIDER SR
SOLAR REBATE RS MO 393.1030 (Cont'd.)

*RESERVATION QUEUE (Cont'd.)

Effective September 28, 2018, Company will only make additional Rebate Commitments under this Rider SR Solar Rebate RS MO 393.1030 tariff to Systems which have already become operational. Customers in the Reservation Queue having approved Net Metering Applications will be notified of the availability of solar rebate funding available through Rider SR Solar Rebate 2019-2023 and advised how and when they can submit an application under that program.

**QUALIFICATION DATE AND REBATE COMMITMENT

The Qualification Date will be the date Company receives a Net Metering Application and Solar Rebate Application, or the date that is postmarked if delivered by the U.S. Postal Service, that satisfy the Application Requirements and are subsequently approved by Company.

Company will only make a Rebate Commitment to a customer that has a Qualification Date and the customer, and their developer, will be notified in writing, by letter or email, of any deficiencies in the Application Requirements that will prevent a Rebate Commitment by Company.

Company’s Rebate Commitment to a customer will expire if:

1. Customer has not returned to Company a completed intent to install form within 30 days of the Rebate Commitment being made. Company will provide the customer with an intent form by U.S. Mail concurrently with the Rebate Commitment. Signing and returning the intent form does not in any way obligate a customer to complete a solar system, or

2. The System has not attained an Operational Date within twelve (12) months of the Rebate Commitment date, or

3. The System is not constructed in accordance with the design submitted by the customer and approved by Company, thereby causing the Net Metering Application to become invalid.

If a customer has satisfied all of the Completion Requirements but the Company is not able to complete all of the Company’s steps needed to establish an Operational Date by the expiration of the Rebate Commitment, the Rebate Rate will be determined as though the Operational Date was achieved prior to the expiration. If it is subsequently determined that the customer or the System did not satisfy all Completion Requirements required of the customer on or before the expiration date, the Rebate Commitment will expire and no payment will be made.
RIDER SR
SOLAR REBATE RS MO 393.1030 (Cont'd.)

*REBATE PAYMENT

The amount of the rebate will be the combined direct current (DC) rating of the solar module(s) in watts from the manufacturer’s specification sheet(s) for the new System or the current expansion of an existing System multiplied by the rebate rate as determined by the Rebate Rate Schedule provisions of this Rider SR.

A rebate payment will be made within thirty (30) days of the Operational Date provided that:

1. A complete and accurate Solar Rebate Application has been accepted by Company and a Rebate Commitment made by Company, and
2. Customer has satisfied all Completion Requirements, and
3. An “Interconnection Application/Agreement for Net Metering Systems with a Capacity of 100 kW or Less” has been executed by the customer and Company.

*SOLAR RENEWABLE ENERGY CREDITS (SREC’S)

On and after August 28, 2013, as a condition of receiving a solar rebate, customer shall transfer to Company all right, title and interest in and to the solar renewable energy credits (“SRECs”) associated with the new or expanded System that qualified customer for the solar rebate for a period of ten (10) years from the date Company confirmed that the System was installed and operational.

Rebate payments made by Company prior to August 28, 2013, do not entitle Company to any right, title and interest in the SRECs produced by the portion of the System for which the rebate payment was made.

SRECs produced by the System, for which a rebate is received, cannot be sold or promised for sale to any other party by customer or used by customer for any environmental or “green” program for a period of ten (10) years from the date Company confirmed that the System was installed and operational.

The number of SRECs produced annually will be determined by Company using PVWatts software developed by the U.S. Department of Energy (DOE) with the result rounded to the tenths digit.

*Indicates Reissue
RIDER SP

SOLAR RENEWABLE ENERGY CREDIT PURCHASE

PURPOSE

The purpose of this rider is to provide a mechanism for eligible customers to sell and Company to purchase the Renewable Energy Credits associated with energy generated by solar electric systems operating under Company’s Electric Power Purchases from Qualified Net Metering Units tariff herein.

AVAILABILITY

This rider is available to any retail electric customer operating a solar electric system in compliance with Company’s approved net metering tariff.

*Availability of service under this rider shall be limited to those customers for which an “Interconnection Application/Agreement for Net Metering Systems with a Capacity of 100 kW or Less” is received by Company or postmarked on or before August 27, 2013, and commitments offered by Company on or before December 31, 2013, and by the cumulative total of the actual payment commitments and estimated payment commitments offered by Company during 2013, of up to $1,000,000 with at least $350,000 (35%) being reserved specifically for commitments under the Lump Sum Offer as described below.

TERM

This rider shall be effective through December 31, 2014, and will terminate thereafter unless modified or extended. In the event that this rider expires, all commitments offered by Company on or before December 31, 2013, will be honored for their full term.

DEFINITIONS

1. REC - Renewable Energy Credit, or Renewable Energy Certificate means a tradable certificate, that is either certified by an entity approved as an acceptable authority by the Missouri Public Service Commission (Commission) or as validated through the Commission’s approved REC tracking system or a generator’s attestation and further defined in 4 CSR 240-20.100 Electric Utility Renewable Energy Standard Requirements.


3. SREC Price – $5.00 per SREC.

4. Retail Account Holder – The customer of record taking service from Company under any of Company’s retail electric tariffs.

*Indicates Change
RIDER SP

SOLAR RENEWABLE ENERGY CREDIT PURCHASE (Cont'd.)

DEFINITIONS (Cont'd.)

5. Customer-Generator – the owner, lessee, or operator of an electric energy generation unit that meets all of the following criteria:
   a. Is powered by a renewable energy resource.
   b. Is located on premises that are owned, operated, leased or otherwise controlled by the party as Retail Account Holder and which corresponds to the service address for the retail account.
   c. Has received approval from Company to interconnect with and operate in parallel phase and synchronization with Company’s electric distribution system.
   d. Meets all applicable safety, performance, interconnection, and reliability standards endorsed by the net metering rule, 4 CSR 240-20.065(1)(C)6 and 4 CSR 240-20.065(1)(C)7.

6. PVWatts – A program available from the U.S. Department of Energy (DOE) that estimates the kilowatt-hour (kWh) production of a solar electric system based on specific system parameters.

7. Incremental System Capacity - Any additional capacity installed by customer subsequent to Company having entered into a Net Metering Application/Agreement with Customer-Generator under Company’s Electric Power Purchases from Qualified Net Metering Units tariff. Revising the capacity of a pending Net Metering Application/Agreement that has not yet become effective constitutes a design change for that pending Application/Agreement and will not be considered Incremental System Capacity.

STANDARD OFFERS

Company will purchase SRECs produced and owned by a Customer-Generator under either the Lump Sum Offer or the Annual Payment Offer listed below based on the DC nameplate capacity of the Customer-Generator’s system. Only SRECs produced after January 1, 2013 are eligible for either Standard Offer. Payments will only be made to the Retail Account Holder.

* Lump Sum Offer applies to systems whose installed DC nameplate capacity is less than 10 kW and, at customer’s option, any systems of 10 kW or larger but not greater than 100 kW that have not already executed an agreement under the Annual Payment Offer:

*Indicates Change
RIDER SP

SOLAR RENEWABLE ENERGY CREDIT PURCHASE (Cont'd.)

STANDARD OFFERS (Cont'd.)

** 1. Company will offer to purchase 100% of the SRECs produced during the first 120 calendar months (10 years) following the execution of the agreement or the operational date of the Customer-Generator whichever occurs later.

** 2. The numbers of SRECs produced annually will be determined by Company using PVWatts software with the result rounded to the tenths digit.

3. Company will make a single payment up-front for all SRECs purchased over the term of the agreement according to the following formula:

$$\text{Up-Front Payment} = \text{Annual SRECs produced per year} \times 10 \text{ years} \times \text{SREC Price.}$$

* Annual Payment Offer is available, at customer’s option, to systems whose installed DC nameplate capacity is 10 kW or larger but not greater than 100 kW:

1. Company will offer to purchase 100% of the SRECs produced during the first 120 calendar months (10 years) following the execution of the agreement or the operational date of the Customer-Generator whichever occurs later.

2. Customer-Generator must make provisions for Company to meter all energy produced by the system. The numbers of SRECs produced annually will be determined by those meter readings with total SRECs available for purchase being kilowatt-hour energy divided by 1,000 with the result rounded to the tenths digit.

3. Company will make payments annually no later than March 31 based upon actual SRECs produced as measured by meter readings from the 12 billing periods ending approximately December 31 of the immediately preceding year. This will result in eleven (11) payments over the ten (10) year term for most agreements with the first and last payment being for less than a full twelve (12) month period according to the following formula:

$$\text{Annual Payment} = \text{SRECs produced per year} \times \text{SREC Price}$$

INCREMENTAL SYSTEM CAPACITY

When a customer adds Incremental System Capacity, Company will make an offer to purchase the SRECs associated with only the Incremental System Capacity.

1. If the total capacity of the system remains eligible for the Lump Sum Offer, then Company will provide a Lump Sum Offer for the Incremental System Capacity.

2. If the Incremental System Capacity results in a total capacity that exceeds the capacity limit of the Lump Sum Offer, then the Annual Payment Offer will apply to the Incremental System Capacity. The number of SRECs purchased under the Annual Payment Offer will be the total number of SRECs produced by the system less any SRECs already purchased under the Lump Sum Offer during the same period.

*Indicates Change  **Indicates Reissue
RIDER SP
SOLAR RENEWABLE ENERGY CREDIT PURCHASE (Cont’d.)

* OWNERSHIP CHANGE

If the Retail Account Holder associated with a Customer-Generator facility that has received payment under the Lump Sum Offer changes during the term of an agreement, the new Retail Account Holder will not be eligible for a contract until such time as the term of the existing Lump Sum Offer has expired.

If the Retail Account Holder associated with a Customer-Generator facility that has entered into an agreement under the Annual Payment Offer changes during the term of the agreement, the original Retail Account Holder will receive payment for all SRECs produced prior to the change and waives all rights to payment for SRECs produced after the change. Payments associated with SRECs produced subsequent to the change in the Retail Account Holder will be made to the new Retail Account Holder provided the new Retail Account Holder executes a new agreement for the balance of the five (5) year term.

CONTRACT/OFFER

Company will only accept a request for a standard offer contract if the Customer-Generator has submitted and Company has accepted a completed application for net metering service.

Company will provide a commitment to customer for either the Lump Sum Offer or the Annual Payment Offer provided that Company’s cumulative total of the actual payment commitments and estimated payment commitments have not exceeded the amount(s) indicated under “AVAILABILITY”.

For a Customer-Generator that is not yet operational (new systems), Company’s commitment will be presented to customer upon acceptance by Company of Customer-generator’s design. For a Customer-Generator that is already operating under Company’s Electric Power Purchases from Qualified Net Metering Units tariff herein, and has not previously received a Standard Offer from Company, Company’s commitment will be presented to customer within ninety (90) days of January 1, 2013. Customers that previously received a Standard Offer from Company but did not accept the offer remain eligible to receive an offer, upon request and subject to availability, but will not be solicited again by Company.

Company’s commitment will expire after twelve (12) months if any of the following conditions have not been met:

1. The Customer-Generator has not become operational or
2. the customer has not executed and returned the agreement or
3. Customer-Generator has not satisfied the metering requirements of the Annual Payment Offer.

*Indicates Reissue
RIDER SP

SOLAR RENEWABLE ENERGY CREDIT PURCHASE (Cont’d.)

CONTRACT/OFFER (Cont’d.)

* In the event Customer-Generator revises the nameplate capacity from that which Company’s offer was based upon:

1. If the change is not more than a 10% increase or decrease in nameplate capacity, Company will present a revised SREC offer based on the revised nameplate capacity, or
2. If the change is more than a 10% increase or decrease in nameplate capacity, Company’s offer will become void. Availability and Term of this tariff will determine whether Company will present a revised offer.

Company will enter into an agreement and initiate the Lump Sum Offer or the Annual Payment Offer only after the Customer-Generator has become operational.

Any agreement executed between Company and customer under previous versions of this rider remain valid under the terms specified in that agreement.

In the event that Company ceases entering into new agreements as a result of meeting the cumulative total payment commitment referenced above and subsequently authorizes additional expenditures, Customer-Generators whose design was accepted by Company but did not receive an offer will be given the opportunity to participate under this rider in the order that their design was accepted by Company.

Inquiries related to this tariff, net metering service and Rider SR – Solar Rebate should be made to:

One Ameren Plaza
1901 Chouteau Avenue
P.O. Box 66149, MC 1450
St. Louis MO 63103
Att: General Executive, Renewables

GENERAL RULES & REGULATIONS

In addition to the above specific rules and regulations, all of Company’s General Rules and Regulations shall apply to the supply of service under this rider.

*Indicates Reissue
<table>
<thead>
<tr>
<th>MO.P.S.C. SCHEDULE NO.</th>
<th>SHEET NO.</th>
</tr>
</thead>
<tbody>
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<td>CANCELLING MO.P.S.C. SCHEDULE NO.</td>
<td>SHEET NO.</td>
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<tr>
<td>6</td>
<td>90</td>
</tr>
</tbody>
</table>

**APPLYING TO** Missouri Service Area

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*THIS SHEET RESERVED FOR FUTURE USE*
UNION ELECTRIC COMPANY  ELECTRIC SERVICE

MO.P.S.C. SCHEDULE NO. 6  2nd Revised  SHEET NO. 90.2
CANCELLING MO.P.S.C. SCHEDULE NO. 6  1st Revised  SHEET NO. 90.2

APPLYING TO  MISSOURI SERVICE AREA

*THIS SHEET RESERVED FOR FUTURE USE
UNION ELECTRIC COMPANY
ELECTRIC SERVICE

MO.P.S.C. SCHEDULE NO. 6 2nd Revised SHEET NO. 90.3
CANCELLING MO.P.S.C. SCHEDULE NO. 6 1st Revised SHEET NO. 90.3

APPLYING TO MISSOURI SERVICE AREA

*THIS SHEET RESERVED FOR FUTURE USE

DATE OF ISSUE November 22, 2019
DATE EFFECTIVE January 21, 2020

 ISSUED BY Michael Moehn President St. Louis, Missouri
 NAME OF OFFICER TITLE ADDRESS

*Indicates Change.

FILED Missouri Public Service Commission
ER-2020-0147; YE-2020-0090
UNION ELECTRIC COMPANY  ELECTRIC SERVICE

M.O.P.S.C. SCHEDULE NO. 6  3rd Revised  SHEET NO. 90.4
CANCELLING M.O.P.S.C. SCHEDULE NO. 6  2nd Revised  SHEET NO. 90.4

APPLYING TO  MISSOURI SERVICE AREA

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*Indicates Change.
UNION ELECTRIC COMPANY   ELECTRIC SERVICE

MO.P.S.C. SCHEDULE NO. 6    4th Revised    SHEET NO. 90.5
CANCELLING MO.P.S.C. SCHEDULE NO. 6    3rd Revised    SHEET NO. 90.5

APPLYING TO    MISSOURI SERVICE AREA

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* Indicates Change.

DATE OF ISSUE    February 5, 2016    DATE EFFECTIVE    March 6, 2016

ISSUED BY    Michael Moehn    President    St. Louis, Missouri

NAME OF OFFICER    TITLE    ADDRESS
RIDER EEIC
ENERGY EFFICIENCY INVESTMENT CHARGE
For MEEIA Cycle 2 Plan

APPLICABILITY
This Rider EEIC - Energy Efficiency Investment Charge (Rider EEIC) is applicable to all kilowatt-hours (kWh) of energy supplied to customers served under Company's Service Classification Nos. 1(M), 2(M), 3(M), 4(M), 11(M), and 12(M), excluding kWh of energy supplied to "opt-out" or "low-income" customers.

An Ameren Missouri low-income customer who has received assistance from Missouri Energy Assistance (a.k.a. Low Income Home Energy Assistance Program or LIHEAP), Winter Energy Crisis Intervention Program, or Summer Energy Crisis Intervention Program and (i) whose account has not automatically been exempted from Rider EEIC, or (ii) who has been charged Rider EEIC charges and whose account has not been credited for said charges, may provide the Company, via facsimile to 866.297.8054, via email to myhomeamerenmissouri@ameren.com, or via regular mail to Ameren Missouri, P.O. Box 790098, St. Louis, MO 63179-0098:

a. documentation of the assistance received in the form of:
   i. a copy of the Division of Social Services Family Support Division ("DSSFSD") form EA-7 energy assistance payment notice received by the low-income customer, or
   ii. a copy of the DSSFSD LIHEAP Energy Assistance direct payment check received by the low-income customer, or
   iii. a copy of the Contract Agency energy crisis intervention program ("ECIP") payment notification letter received by the low-income customer, or
   iv. a printout of the low-income customer's DSSFSD LIHEAP EA E1RG System Registration screen identifying the supplier, benefit amount and payment processing date.

b. Upon receipt of the documentation, the Company will credit the low-income customer's account for:
   i. energy efficiency investment charges, and
   ii. any municipal charges attributable to said EEIC charges, that were previously charged to the low-income customer within twelve billing months following the documented receipt of energy assistance; provided that the low-income customer shall not be entitled to any credit, nor shall Company credit the low-income customer, for energy efficiency investment charges and associated municipal charges incurred and billed prior to the June 2015 commencement of the low-income exemption.

c. Upon receipt of the documentation, for the remainder of the twelve months following the documented receipt of energy assistance, the Company will exempt such low-income customer from any Rider EEIC charges thereafter imposed. The exemption will be evidenced on the low-income customer's bill as an EEIC charge, followed by a credit.

Charges passed through this Rider EEIC reflect the charges approved to be billed from the implementation of the Missouri Energy Efficiency Investment Act (MEEIA) 2016-18 Plan and any remaining unrecovered balances from the MEEIA 2013-15 plan. Those charges include...
APPLICABILITY (Cont’d.)

1) Program Costs, Company’s Throughput Disincentive (TD) and Earnings Opportunity (EO) Award (if any) for each Effective Period (EP)

2) Reconciliations, with interest, to true-up for differences between the revenues billed under this Rider EEIC and total actual monthly amounts for:
   i) Program Costs incurred in the MEEIA 2016-18 Plan, including those related to Long-Lead Projects, and/or remaining unrecovered Program balances for MEEIA 2013-15,
   ii) Company’s TD incurred in the MEEIA 2016-18 Plan, including those related to Long-Lead Projects, and/or remaining TD-NSB Share balances for MEEIA 2013-15,
   iii) Amortization of Earnings Opportunity ordered by the Missouri Public Service Commission (Commission), including those related to Long-Lead Projects, and/or remaining balances for the MEEIA 2013-15 Performance Incentive.

3) Any Ordered Adjustments.

Charges under this Rider EEIC shall continue after the anticipated February 28, 2019 end of MEEIA 2016-18 Plan until such time as the charges described in items 1), 2), and 3) above have been billed.

Charges arising from the MEEIA 2016-18 Plan that are the subject of this Rider EEIC shall be reflected in one “Energy Efficiency Invest Chg” on customers’ bills in combination with any charges arising from a rider that is applicable to the MEEIA 2013-15 Plan demand-side management programs.

DEFINITIONS

As used in this Rider EEIC, the following definitions shall apply:

“AFUDC” means the Allowance for Funds Used During Construction rate computed in accordance with the formula prescribed in the Code of Federal Regulations Title 18 Part 101.

“Company's Throughput Disincentive” (TD) means to represent the utility’s lost margins associated with the successful implementation of MEEIA programs. The detailed method for calculating the TD is described in Tariff Sheets 91.6 – 91.8.

“Earnings Opportunity” (EO) means the amount ordered by the Commission based on actual performance verified through Evaluation Measurement & Verification (EM&V) against planned targets. The details of determining EO are described herein.

* “Effective Period” (EP) means the twelve (12) months beginning with February and ending with January. Where an additional Rider EEIC filing is made to change the EEIC components during a calendar year, the EP for such a filing shall begin with the month of June or October and end the subsequent January.

* “End Use Category” means the unique summary category of end-use load shapes. The list of End Use Categories is included in Appendix E to the Stipulation.

*Indicates Change.
RIDERS EEIC
ENERGY EFFICIENCY INVESTMENT CHARGE (Cont'd.)
For MEEIA Cycle 2 Plan

DEFINITIONS (Cont'd.)

* "Evaluation Measurement & Verification" (EM&V) means the performance of studies and activities intended to evaluate the process of the Company’s program delivery and oversight and to estimate and/or verify the estimated actual energy and demand savings, cost effectiveness, and other effects from demand-side programs.

** "Impact Measurement & Verification" (IM&V) means the determination of ex-post net energy and demand savings for Long-Lead Projects through application of a net-to-gross ratio, but does not include a cost-effectiveness analysis.

* "Incentive" means any consideration provided by the Company, including, but not limited to, buy downs, markdowns, rebates, bill credits, payments to third parties, direct installation, giveaways, and education, which encourages the adoption of program measures.

** "Long-Lead Program Costs" means incentive payments made to customers, contract payments made to program administrators, and costs for IM&V. There will be no portfolio-level costs allocated to long-lead projects.

** "Long-Lead Project" means a project committed by a Customer, accepted by the Company, and submitted a signed commitment offer to the program administrator by January 31, 2019, according to the terms and implementation of the MEEIA 2016-2018 Energy Efficiency Plan that will require until a date after February 28, 2019, but no later than January 31, 2021, to certify completion.

** "Low-Income" customers means those Service Classification 1(M)-Residential customers eligible for the low income exemption provisions contained in Section 393.1075.6, RSMo. As approved in File No. ER-2014-0258, customers eligible under this definition will be exempt from Rider EEIC charges for 12 billing months following assistance received from either Missouri Energy Assistance (a.k.a. Low Income Home Energy Assistance Program or LIHEAP), Winter Energy Crisis Intervention Program, Summer Energy Crisis Intervention Program, the Company’s Keeping Current Low Income Pilot Program, and/or the Company’s Keeping Cool Low Income Pilot Program.

"Measure" means energy efficiency measures described for each program attached as Appendix B to the Stipulation.


"Programs" means MEEIA 2016-18 programs listed in tariff sheet no. 174.

"Program Costs" means any prudently incurred program expenditures, including such items as program planning, program design, administration, delivery, end-use measures and incentive payments, advertising expense, evaluation, measurement and verification, market potential studies and work on a utility and/or statewide Technical Resource Manual (TRM).

"TRM" means the Company’s Technical Resource Manual (attached as Appendix F to the Stipulation) and updated based on EM&V ex-post gross adjustments determined for Year 1 no later than twenty-four (24) months after commencement of MEEIA 2016-18.

"Stipulation" means the Stipulation and Agreement approved by the Commission in File No. EO-2015-0055, as it may be amended further by subsequent Commission orders.

*Indicates Reissue. **Indicates Addition.
ENERGY EFFICIENCY INVESTMENT RATE (EEIR) DETERMINATION

The EEIR during each applicable EP is a dollar per kWh rate for each applicable Service Classification calculated as follows:

$$ EEIR = \frac{NPC + NTD + NEO + NOA}{PE} $$

Where:

- **NPC** = Net Program Costs for the applicable EP as defined below,
  $$ NPC = PPC + PCR $$
- **PPC** = Projected Program Costs is an amount equal to Program Costs projected by the Company to be incurred during the applicable EP.
- **PCR** = Program Costs Reconciliation is equal to the cumulative difference, if any, between the PPC revenues billed resulting from the application of the NPC component of the EEIR and the actual Program Costs incurred through the end of the previous EP (which will reflect projections through the end of the previous EP due to timing of adjustments). Such amounts shall include monthly interest charged at the Company's monthly short-term borrowing rate.
- **NTD** = Net Throughput Disincentive for the applicable EP as defined below,
  $$ NTD = PTD + TDR $$
- **PTD** = Projected Throughput Disincentive is the Company’s TD projected by the Company to be incurred during the applicable EP. For the detailed method for calculating the TD, see Sheet 91.6.
- **TDR** = Throughput Disincentive Reconciliation is equal to the cumulative difference, if any, between the PTD revenues billed during the previous EP resulting from the application of the NTD component of the EEIR and the Company's TD through the end of the previous EP (which will reflect projections through the end of the previous EP due to timing of adjustments). Such amounts shall include monthly interest charged at the Company's monthly short-term borrowing rate.
- **NEO** = Net Earnings Opportunity for the applicable EP as defined below,
  $$ NEO = EO + EOR $$
- **EO** = Earnings Opportunity is equal to the Earnings Opportunity Award monthly amortization multiplied by the number of billing months in the applicable EP.
EEIR DETERMINATION (Cont’d.)

The monthly amortization shall be determined by dividing the Earnings Opportunity Award by the number of available billing months between the first billing month of the first EEIR filing after the determination of the Earnings Opportunity Award and 24 calendar months following the end of the annual period in which the Earnings Opportunity Award is determined.

The number of applicable billing months in the EP shall be the number of applicable billing months less the number of months including Earnings Opportunity Award amortization from previous EPs.

$EOR = \text{Earnings Opportunity Reconciliation is equal to the cumulative difference, if any, between the EO revenues billed resulting from the application of the NEO+NPI component of the EEIR and the monthly amortization of the Performance Incentive Award through the end of the previous EP (which will reflect projections through the end of the previous EP due to timing of adjustments). Such amounts shall include monthly interest charged at the Company's monthly short-term borrowing rate. Any remaining PIR balance from MEEIA Cycle 1 shall be rolled into the EOR calculation starting February 2019.}$

$NOA = \text{Net Ordered Adjustment for the applicable EP as defined below,}$

$\text{NOA} = OA + OAR$

$OA = \text{Ordered Adjustment is the amount of any adjustment to the Rider EEIC ordered by the Commission as a result of prudence reviews and/or corrections under this Rider EEIC. Such amounts shall include monthly interest at the Company's monthly short-term borrowing rate.}$

$OAR = \text{Ordered Adjustment Reconciliation is equal to the cumulative difference, if any, between the OA revenues billed resulting from the application of the EEIR and the actual OA ordered by the Commission through the end of the previous EP (which will reflect projections through the end of the previous EP due to timing of adjustments). Such amounts shall include monthly interest charged at the Company's monthly short-term borrowing rate.}$

$PE = \text{Projected Energy, in kWh, forecasted to be delivered to the customers to which the Rider EEIC applies during the applicable EP.}$
RIDER EEIC  
ENERGY EFFICIENCY INVESTMENT CHARGE (Cont’d.)  
For MEEIA Cycle 2 Plan  

EEIR DETERMINATION (Cont’d.)  

The EEIR components and Total EEIR applicable to the individual Service Classifications shall be rounded to the nearest $0.000001.

Allocations of charges for each applicable Service Classification for the MEEIA 2016-18 Plan will be made in accordance with the Stipulation and Agreement in File No. EO-2015-0055, Company’s MEEIA 2016-18 Plan.

This Rider EEIC shall not be applicable to customers that have satisfied the opt-out provisions contained in Section 393.1075.7, RSMo or the low-income exemption provisions described herein.
RIDER EEIC
ENERGY EFFICIENCY INVESTMENT CHARGE (Cont’d.)
For MEEIA Cycle 2 Plan

TD DETERMINATION
Monthly TD is the sum of the TD calculation for all End Use Categories applicable to Service Classifications as set out in the Availability section herein.

The TD for each End Use Category shall be determined by the following formula:

\[ TD = MS \times NMR \times NTGF \]

Where:

- **TD** = Throughput Disincentive, in dollars, to be collected for a given month, for a given Service Classification.
- **MS** = Monthly Savings, is the sum of all programs’ monthly savings, in kWh, for a given month, for a given Service Classification. The MS for each End Use Category shall be determined by the following formula:

\[ MS = ((MAsCM / 2) + CASPM - RB) \times LS \]

Where:

- **MAsCM** = The sum of (MC x ME) for all measures in a program in the current calendar month.
- **MC** = Measure Count. MC for a given month, for a given Service Classification, for each measure, is the number of each measure installed in the current calendar month. For the Home Energy Report program, the number of reports mailed during the current calendar month shall be used as the Measure Count.
- **ME** = Measure Energy. ME will be determined as follows, for each Measure:
  a. Prior to finalization of EM&V for MEEIA 2016-18 Plan, Year 1 programs, for Measures not listed under those programs listed in (c) below, the ME is the annual total of normalized savings for each measure at customer meter per measure defined in the Company’s Technical Resource Manual (TRM).
  b. After finalization of EM&V for MEEIA 2016-18 Plan, Year 1 programs, for Measures not listed under those programs listed in (c) below, the ME is the annual total of normalized savings for each measure at customer meter per measure defined in the updated TRM (which will be updated based on EM&V ex-post gross adjustments determined for Year 1 no later than 24 months after the commencement of MEEIA 2016-18 Plan).
RIDER EEIC
ENERGY EFFICIENCY INVESTMENT CHARGE (Cont’d.)
For MEEIA Cycle 2 Plan

TD DETERMINATION (Cont’d.)

a. For Measures under the Business Custom Incentive Program, Business New Construction Incentive Program, and Business Retro-Commissioning Program, the ME will be the annual value attributable to the installations reported monthly by the program implementer.

CM = Current calendar month.

CAS = Cumulative sum of MAS of all prior calendar months for each End Use Category for the MEEIA 2016-18 Plan.

PM = Prior calendar month.

RB = Rebasing Adjustment. The RB shall equal the CAS applicable as of the date used for MEEIA normalization when base rates are adjusted in any general electric rate case or otherwise resulting in new retail electric rates becoming effective during the accrual and collection of TD pursuant to this MEEIA 2016-18 Plan. In the event base rates are adjusted by more than one general electric rate case or otherwise resulting in new rates becoming effective during the accrual and collection of TD pursuant to this MEEIA 2016-18 Plan occurs, the RB adjustment shall include each and every prior RB adjustment calculation.

LS = Load Shape. The LS is the monthly load shape percent (%) for each End Use Category (attached as Appendix E to the Stipulation).

*NMR = Net Margin Revenue. NMR values for each applicable Service Classification are as follows:

<table>
<thead>
<tr>
<th>Service Classifications</th>
<th>Month</th>
<th>1(M)Res $/kWh</th>
<th>2(M)SGS $/kWh</th>
<th>3(M)LGS $/kWh</th>
<th>4(M)SPS $/kWh</th>
<th>11(M)LPS $/kWh</th>
</tr>
</thead>
<tbody>
<tr>
<td>January</td>
<td>0.041430</td>
<td>0.045700</td>
<td>0.034588</td>
<td>0.035639</td>
<td>0.028725</td>
<td></td>
</tr>
<tr>
<td>February</td>
<td>0.042148</td>
<td>0.045551</td>
<td>0.035551</td>
<td>0.036287</td>
<td>0.031331</td>
<td></td>
</tr>
<tr>
<td>March</td>
<td>0.044040</td>
<td>0.048054</td>
<td>0.036561</td>
<td>0.036895</td>
<td>0.030147</td>
<td></td>
</tr>
<tr>
<td>April</td>
<td>0.045920</td>
<td>0.050473</td>
<td>0.037263</td>
<td>0.036579</td>
<td>0.030010</td>
<td></td>
</tr>
<tr>
<td>May</td>
<td>0.048148</td>
<td>0.052224</td>
<td>0.038191</td>
<td>0.038374</td>
<td>0.031032</td>
<td></td>
</tr>
<tr>
<td>June</td>
<td>0.103081</td>
<td>0.089681</td>
<td>0.077969</td>
<td>0.078589</td>
<td>0.056455</td>
<td></td>
</tr>
<tr>
<td>July</td>
<td>0.103081</td>
<td>0.089681</td>
<td>0.076643</td>
<td>0.077954</td>
<td>0.058907</td>
<td></td>
</tr>
<tr>
<td>August</td>
<td>0.103081</td>
<td>0.089681</td>
<td>0.076994</td>
<td>0.078763</td>
<td>0.057650</td>
<td></td>
</tr>
<tr>
<td>September</td>
<td>0.103081</td>
<td>0.089681</td>
<td>0.077319</td>
<td>0.078028</td>
<td>0.058389</td>
<td></td>
</tr>
<tr>
<td>October</td>
<td>0.045144</td>
<td>0.050437</td>
<td>0.037248</td>
<td>0.037245</td>
<td>0.031531</td>
<td></td>
</tr>
<tr>
<td>November</td>
<td>0.048189</td>
<td>0.051888</td>
<td>0.037606</td>
<td>0.037399</td>
<td>0.031034</td>
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</tr>
<tr>
<td>December</td>
<td>0.043856</td>
<td>0.048895</td>
<td>0.035990</td>
<td>0.036578</td>
<td>0.029560</td>
<td></td>
</tr>
</tbody>
</table>

* Indicates Change.
RIDERS EEIC
ENERGY EFFICIENCY INVESTMENT CHARGE (Cont’d.)
For MEEIA Cycle 2 Plan

TD DETERMINATION (Cont’d.)

The Company shall file an update to NMR rates by month by Service Classification contemporaneous with filing any compliance tariff sheets in any general electric rate case reflecting the rates set in that case, and the billing determinants used in setting rates in such case. Updates to the NMR values shall be calculated following the same process described on pages 32-35 of the Company’s filed December 22, 2014 2016-18 Energy Efficiency Plan.

NTGF = Net To Gross Factor. The initial NTGF is 0.85. Upon completion of the three year cycle, the final portfolio Net To Gross factor applied for the Earnings Opportunity shall be used as the NTGF prospectively starting with the month in which the Earnings Opportunity is determined.

Annual kWh savings per measure will be updated prospectively in the Company’s TRM no later than twenty-four (24) months after the commencement of the plan based on EM&V ex-post gross adjustments determined for Year 1.

* The Company shall file a general electric rate case at some point before February 28, 2021 to make a Rebas ing Adjustment to rebase the TD arising from the MEEIA 2016-18 plan in its entirety, except as described below concerning Long-Lead Projects, and if Company fails to do so, the accrual and collection of the TD terminates beginning March 1, 2021. The filing of a general electric rate case utilizing an update or true-up period that ends between thirty (30) months and sixty (60) months after the effective date of the electric tariff sheets implementing MEEIA 2016-18 satisfies this requirement. For the rate case used to rebase the TD arising from the MEEIA 2016-18 plan in its entirety, the MEEIA normalization shall reach forward as far as the effective date of new rates in that rate case.

** Projects designated as Long-Lead Projects shall continue to incur TD until a rate case rebases all such projects or until February 28, 2023, whichever occurs first.

*Indicates Change. **Indicates Addition.
**RIDER RR EEIC**  
ENERGY EFFICIENCY INVESTMENT CHARGE (Cont’d.)  
For MEEIA Cycle 2 Plan

*EO DETERMINATION*

EO shall be calculated using the matrix below. EO will not go below zero dollars ($0). The EO at 100% is $27,801,935. Before adjustments reflecting TD EM&V including NTG, the EO cannot go above $39,212,516. The EO including adjustments reflecting TD EM&V including NTG cannot go above $54,212,516. The cap is based on current program levels. If Commission approved new programs are added in years 2017 and 2018, the Company may seek Commission approval to have the targets and the cap of the EO matrix scale adjusted. EO shall be adjusted for the difference, with carrying cost at the Company’s monthly Allowance for Funds Used During Construction (AFUDC) rate compounded semi-annually, between TD billed and what TD billed would have been if:

1. The ME used in the calculation were the normalized savings for each measure at customer meter per measure determined through EM&V ex-post gross analysis for each program year, and
2. The NTGF used in the calculation was the net-to-gross values determined through EM&V, except that if the NTGF value determined through EM&V is less than 0.80, the recalculation shall use 0.80 and if the NTG value determined through EM&V is greater than 1.0, the recalculation shall use 1.0.

*EARNINGS OPPORTUNITY MATRIX*

<table>
<thead>
<tr>
<th>Performance Metric</th>
<th>Payout Rate</th>
<th>Payout Unit</th>
<th>% of Target EO</th>
<th>100% payout</th>
<th>Target @ 100%</th>
<th>Cap/100% Multiplier</th>
<th>Cap</th>
</tr>
</thead>
<tbody>
<tr>
<td>Home Energy Report criteria will be effective, prudent spend of budget</td>
<td>n/a</td>
<td></td>
<td>7.19%</td>
<td>$2,000,000</td>
<td></td>
<td></td>
<td>$2,000,000</td>
</tr>
<tr>
<td>EE MWh (Excl. Home Energy Report, TStat &amp; LIMF); criteria will be the</td>
<td>$7.50</td>
<td>$/MWh</td>
<td>15.11%</td>
<td>$4,201,935</td>
<td>560.925</td>
<td>130%</td>
<td>5,462,516</td>
</tr>
<tr>
<td>cumulative of the 1st yr incremental MWh during the 3 year plan</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EE Coincident MWh (Excl. Home Energy Report, TStat &amp; LIMF); criteria will be the</td>
<td>$141,428.57</td>
<td>$/MWh</td>
<td>71.22%</td>
<td>$19,800,000</td>
<td>140</td>
<td>150%</td>
<td>29,700,000</td>
</tr>
<tr>
<td>cumulative of the 2023 MW reduction, coincident with system peak</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of Learning Thermostats Installed</td>
<td>$30.62</td>
<td>$/Unit</td>
<td>1.80%</td>
<td>$500,000</td>
<td>16.331</td>
<td>150%</td>
<td>750,000</td>
</tr>
<tr>
<td>Low Income Multi-Family (LIMF) and Low Income Assistance Program: criteria will</td>
<td>n/a</td>
<td></td>
<td>4.68%</td>
<td>$1,300,000</td>
<td></td>
<td></td>
<td>$1,300,000</td>
</tr>
<tr>
<td>be effective, prudent spend of budget</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Cap Including TD Adjustments</strong></td>
<td></td>
<td></td>
<td></td>
<td>$27,801,935</td>
<td></td>
<td></td>
<td>$39,212,516</td>
</tr>
</tbody>
</table>

*Indicates Change
*FILING

The Company shall make a Rider EEIC filing each calendar year to be effective for application to the usage on and after the first day of the subsequent February. The Company is allowed or may be ordered by the Commission to make one other Rider EEIC filing in each calendar year with such subsequent filing to be effective the first day of June or October. Rider EEIC filings shall be made at least sixty (60) days prior to their effective dates.

PRUDENCE REVIEWS

A prudence review shall be conducted no less frequently than at twenty-four (24) month intervals in accordance with 20 CSR 4240-20.093(10). Any costs which are determined by the Commission to have been imprudently incurred or incurred in violation of the terms of this Rider EEIC shall be addressed through an adjustment in the next EEIR determination and reflected in factor OA herein.

*Indicates Change.
UNION ELECTRIC COMPANY  ELECTRIC SERVICE

MO.P.S.C. SCHEDULE NO. 6  6th Revised  SHEET NO. 91.11
CANCELLING MO.P.S.C. SCHEDULE NO. 6  5th Revised  SHEET NO. 91.11

APPLYING TO  MISSOURI SERVICE AREA

*THIS SHEET RESERVED FOR FUTURE USE

*Indicates Change.

DATE OF ISSUE  November 22, 2019  DATE EFFECTIVE  January 21, 2020
 ISSUED BY  Michael Moehn  President  St. Louis, Missouri

NAME OF OFFICER  TITLE  ADDRESS

FILED  Missouri Public Service Commission
ER-2020-0147; YE-2020-0090

FILED  Missouri Public Service Commission
ER-2020-0147; YE-2020-0090
APPLICABILITY

This Rider EEIC – Energy Efficiency Investment Charge (Rider EEIC) is applicable to all kilowatt-hours (kWh) of energy supplied to customers served under Company’s Service Classification Nos. 1(M), 2(M), 3(M), 4(M), 11(M), and 12(M), excluding kWh of energy supplied to “opt-out” or “Low-income” customers.

An Ameren Missouri Low-income customer who has received assistance from Missouri Energy Assistance (a.k.a. Low Income Home Energy Assistance Program or LIHEAP), Winter Energy Crisis Intervention Program, or Summer Energy Crisis Intervention Program and (i) whose account has not automatically been exempt from Rider EEIC, or (ii) who has been charged Rider EEIC charges and whose account has not been credited for said charges, may provide the Company, via facsimile to 866.297.8054, via email to myhomeamerenmissouri@ameren.com, or via regular mail to Ameren Missouri, P.O. Box 790098, St. Louis, MO 63179-0098

a. documentation of the assistance received in the form of:
   i. a copy of the Division of Social Services Family Support Division (“DSSFSD”) form EA-7 energy assistance payment notice received by the Low-income customer, or
   ii. a copy of the DSSFSD LIHEAP Energy Assistance direct payment check received by the Low-income customer, or
   iii. a copy of the Contract Agency energy crisis intervention program (“ECIP”) payment notification letter received by the Low-income customer, or
   iv. a printout of the Low-income customer’s DSSFSD LIHEAP EA E1RG System Registration screen identifying the supplier, benefit amount and payment processing date.

b. Upon receipt of the documentation, the Company will credit the Low-income customer’s account within 12 billing months following the documented receipt of energy assistance for:
   i. energy efficiency investment charges, and
   ii. any municipal charges attributable to said EEIC charges that were previously charged to the Low-income customer;

c. Upon receipt of the documentation, for the remainder of the 12 months following the documented receipt of energy assistance, the Company will exempt such Low-income customer from any Rider EEIC charges thereafter imposed. The exemption will be evidenced on the Low-income customer’s bill as an EEIC charge, followed by a credit.

Charges passed through this Rider EEIC reflect the charges approved to be billed from the implementation of the Missouri Energy Efficiency Investment Act (MEEIA) 2019-21 Plan and any remaining unrecovered balances from the MEEIA 2016-18 Plan. Those charges include:
APPLICABILITY (Cont’d.)

1) Program Costs, Company’s Throughput Disincentive (TD) and Earnings Opportunity Award (if any) for each Effective Period (EP).

2) Reconciliations, with interest, to true-up for differences between the revenues billed under this Rider EEIC and total actual monthly amounts for:
   i) Program Costs incurred in the MEEIA 2019-21 Plan and/or remaining unrecovered Program Cost balances for MEEIA 2016-18;
   ii) Company’s TD incurred in the MEEIA 2019-21 Plan and/or remaining unrecovered TD balances for MEEIA 2016-18;
   iii) Amortization of Earnings Opportunity Award ordered by the Missouri Public Service Commission (Commission) for the MEEIA 2019-21 Plan and/or remaining unrecovered EO balances for MEEIA 2016-18.

3) Any Ordered Adjustments.

Charges under this Rider EEIC shall continue after the anticipated December 31, 2021 end of the non-low-income portions of the MEEIA 2019-21 Plan and after December 31, 2024 for the low-income portion of the MEEIA 2019-21 Plan until such time as the charges described in items 1), 2), and 3) above have been billed. Any programs and/or balance associated with the low-income portions of the MEEIA 2019-21 Plan may be rolled into the recovery mechanism for an approved MEEIA program that commences in 2022.

Charges arising from the MEEIA 2019-21 Plan that are the subject of this Rider EEIC shall be reflected in one “Energy Efficiency Invest Chg” on customers’ bills in combination with any charges arising from a rider that is applicable to previous MEEIA plans.

DEFINITIONS

As used in this Rider EEIC, the following definitions shall apply:

“Deemed Savings Table” means a list of Measures derived from the Company's TRM that characterizes associated gross energy and demand savings with Company-specific Measure parameters where available, as outlined in Appendix F to the MEEIA 2019-21 Plan and updated as provided for herein based on EM&V ex-post gross adjustments.

“Earnings Opportunity Award” (EO) means the dollar amount calculated for each Program Year by the EO Calculator as described in the Earnings Opportunity Award Determination section below.

* “Effective Period” (EP) means the months for which an approved EEIR is to be effective, i. e., the twelve (12) months beginning with February and ending with January unless there is an additional Rider EEIC filing made to change the Energy Efficiency Investment Rate components during a calendar year, the EP for such a filing shall begin with the either June or October and end with the subsequent January.

“End Use Category” means the unique summary category of end-use load shapes. The list of End Use Categories is included in Appendix G to the MEEIA 2019-21 Plan.

*Indicates Change.
"Incremental Internal Labor Cost and Associated Benefits" (IIL) means the labor costs and associated benefits of personnel (1) hired by Ameren Missouri after Commission approval of the MEEIA 2019-21 Plan that were (a) not hired to replace an Ameren Missouri or Ameren Services Company employee whose labor and benefit costs were accounted for in Ameren Missouri's prior general rate proceeding, (b) hired by Ameren Missouri and assigned exclusively to support Ameren Missouri's MEEIA Programs; and (2) were not an Ameren Missouri or Ameren Services Company employee whose labor and benefit costs were accounted for in Ameren Missouri's prior general rate proceeding.

"Evaluation Measurement & Verification" (EM&V) means the performance of studies and activities intended to evaluate the process of the Company's Program delivery and oversight and to estimate and/or verify the estimated actual energy and demand savings, cost effectiveness, and other effects from demand-side Programs.

"Incentive" means any consideration provided by the Company, including, but not limited to, buy downs, markdowns, rebates, bill credits, payments to third parties, direct installation, giveaways, and education, which encourages the adoption of Program Measures.

"Low-Income" customers means those Service Classification 1(M) residential customers eligible for the low income exemption provisions contained in Section 393.1075.6, RSMo. As approved in File No. ER-2014-0258, customers eligible under this definition will be exempt from Rider EEIC charges for 12 billing months following assistance received from either Missouri Energy Assistance (a.k.a. Low Income Home Energy Assistance Program or LIHEAP), Winter Energy Crisis Intervention Program, Summer Energy Crisis Intervention Program, the Company’s Keeping Current Low Income Pilot Program, and/or the Company’s Keeping Cool Low Income Pilot Program.

"Measure" means the same as defined in 4 CSR 240-20.092(1)FF.


"Programs” means MEEIA 2019-21 programs listed in tariff sheet nos. 174 and 174.1.

"Program Costs” means any prudently incurred Program expenditures, including such items as Program planning, education Programs, Program design, administration, delivery, end-use Measures and Incentive payments, advertising expense, EM&V, market potential studies, work on a Company and/or statewide Technical Resource Manual, and IIL.

"Program Year” means the period of Programs that ends on December 31 of each year of the MEEIA 2019-21 Plan. The first Program Year will be 10 months long and each subsequent Program Year will be 12 months long.

"TRM” means the Company’s Technical Resource Manual (attached as Appendices G-I to the MEEIA 2019-21 Plan) and updated based on EM&V ex-post gross adjustments.
ENERGY EFFICIENCY INVESTMENT RATE (EEIR) DETERMINATION

The EEIR during each applicable EP is a dollar per kWh rate for each applicable Service Classification calculated as follows:

\[
EEIR = \frac{NPC + NTD + NEO + NOA}{PE}
\]

Where:

- **NPC** = Net Program Costs for the applicable EP as defined below,
  
  \[
  NPC = PPC + PCR
  \]
  
  **PPC** = Projected Program Costs is an amount equal to Program Costs projected by the Company to be incurred during the applicable EP.

  - **PCR** = Program Costs Reconciliation is equal to the cumulative difference, if any, between the PPC revenues billed resulting from the application of the NPC component of the EEIR and the actual Program Costs incurred through the end of the previous EP (which will reflect projections through the end of the previous EP due to timing of adjustments). Such amounts shall include monthly interest charged at the Company's monthly short-term borrowing rate. Any remaining PCR balance from MEEIA 2016-18 shall be rolled into the PCR calculation starting February 2022.

- **NTD** = Net Throughput Disincentive for the applicable EP as defined below,
  
  \[
  NTD = PTD + TDR
  \]
  
  **PTD** = Projected Throughput Disincentive is the Company’s TD projected by the Company to be incurred during the applicable EP. For the detailed method for calculating the TD, see Sheet 91.17.

  - **TDR** = Throughput Disincentive Reconciliation is equal to the cumulative difference, if any, between the PTD revenues billed during the previous EP resulting from the application of the NTD component of the EEIR and the Company's TD through the end of the previous EP (which will reflect projections through the end of the previous EP due to timing of adjustments). Such amounts shall include monthly interest charged at the Company's monthly short-term borrowing rate. Any remaining TDR balance from MEEIA 2016-18 shall be rolled into the TDR calculation starting February 2024.
ENERGY EFFICIENCY INVESTMENT CHARGE (Cont'd.)

For MEEIA 2019-21 Plan

EEIR DETERMINATION (Cont’d.)

NEO = Net Earnings Opportunity for the applicable EP as defined below,

NEO = EO + EOR

EO = Earnings Opportunity is equal to the sum of the monthly amortizations of each Program Year's Earnings Opportunity Award multiplied by the number of billing months in the applicable EP.

A monthly amortization shall be determined by dividing each Program Year’s Earnings Opportunity Award by 12. The monthly amortization of each Program Year's Earnings Opportunity Award will continue through each subsequent EEIR determination until such time that the total Earnings Opportunity Award for that Program Year has been fully amortized.

EOR = Earnings Opportunity Reconciliation is equal to the cumulative difference, if any, between the EO revenues billed resulting from the application of the EEIR and the monthly amortization of the EO through the end of the previous EP (which will reflect projections through the end of the previous EP due to timing of adjustments). Such amounts shall include monthly interest charged at the Company's monthly short-term borrowing rate. Any remaining EO balance from MEEIA 2016-18 shall be rolled into the EOR calculation starting February 2022.

NOA = Net Ordered Adjustment for the applicable EP as defined below,

NOA = OA + OAR

OA = Ordered Adjustment is the amount of any adjustment to the EEIR ordered by the Commission as a result of prudence reviews and/or corrections under this Rider EEIC. Such amounts shall include monthly interest at the Company's monthly short-term borrowing rate.

OAR = Ordered Adjustment Reconciliation is equal to the cumulative difference, if any, between the OA revenues billed resulting from the application of the EEIR and the actual OA ordered by the Commission through the end of the previous EP (which will reflect projections through the end of the previous EP due to timing of adjustments). Such amounts shall include monthly interest charged at the Company's monthly short-term borrowing rate.

PE = Projected Energy, in kWh, forecasted to be delivered to the customers to which the Rider EEIC applies during the applicable EP.
RIDER EEIC
ENERGY EFFICIENCY INVESTMENT CHARGE (Cont’d.)
For MEEIA 2019-21 Plan

EEIR DETERMINATION (Cont’d.)

The EEIR components and total EEIR applicable to the individual Service Classifications shall be rounded to the nearest $0.000001.

Allocations of charges for each applicable Service Classification will be made in accordance with the MEEIA 2019-21 Plan.

This Rider EEIC shall not be applicable to customers that have satisfied the opt-out provisions contained in Section 393.1075.7, RSMo or the Low-income exemption provisions described herein.

TD DETERMINATION

Monthly TD is the sum of the TD calculation for all End Use Categories and Demand Response Event Net Energy (DRENE).

The TD for each End Use Category shall be determined by the following formula:

\[ TD = MS \times NMR \times NTGF \]

Where:

- **TD** = Throughput Disincentive, in dollars, to be collected for a given month, for a given Service Classification.
- **MS** = Monthly Savings, is the sum of all Programs’ monthly savings, in kWh, for a given month, for a given Service Classification. The MS for each End Use Category shall be determined by the following formula:

\[ MS = ((MASCM / 2) + CAS - RB) \times LS + DRENECM \]

Where:

- **MASCM** = The sum of \((MC \times ME)\) for all Measures in a Program in the current calendar month.
- **MC** = Measure Count. MC for a given month, for a given Service Classification, for each Measure, is the number of each Measure installed in the current calendar month. For the Home Energy Report Program, the number of reports mailed during the current calendar month shall be used as the Measure Count.
RIDER EEIC
ENERGY EFFICIENCY INVESTMENT CHARGE (Cont’d.)
For MEEIA 2019-21 Plan

TD DETERMINATION (Cont’d.)

ME  = Measure Energy. ME will be determined as follows, for each Measure:

a. For Measures in the Deemed Savings Table (including Residential Demand Response energy savings not included in DRENECM), the ME is the annual total of normalized savings for each Measure at customer meter per Measure defined in the Company’s current Deemed Savings Table.

b. For Measures not in the Deemed Savings Table, the ME will be the annual value attributable to the installations reported monthly by the Program administrator.

CM  = Current calendar month.

CAS = Cumulative sum of MAS of all prior calendar months for each End Use Category for the MEEIA 2019-21 Plan.

RB  = Rebasing Adjustment. The RB shall equal the CAS applicable as of the date used for MEEIA normalization when base rates are adjusted in any general electric rate case or otherwise resulting in new retail electric rates becoming effective during the accrual and collection of TD pursuant to this MEEIA 2019-21 Plan. In the event base rates are adjusted by more than one general electric rate case or otherwise resulting in new rates becoming effective during the accrual and collection of TD pursuant to this MEEIA 2019-21 Plan occurs, the RB adjustment shall include each and every prior RB adjustment calculation.

LS  = Load Shape. The LS is the monthly load shape percent (%) for each End-Use Category (included in the MEEIA 2019-21 Plan).

DRENECM = Demand Response Event Net Energy for the Current Month. DRENECM is the net energy savings resulting from demand response events during the month as reported by the program administrator consistent with TRM guidance. DRENECM incurred during the time period used for establishing billing determinants in general rate proceedings will be added back to those billing determinants and will not be included in the Rebasing Adjustment.
RIDERS EEIC
ENERGY EFFICIENCY INVESTMENT CHARGE (Cont’d.)
For MEEIA 2019-21 Plan

TD DETERMINATION (Cont’d.)

NMR = Net Margin Revenue. NMR values for each applicable Service Classification and by End Use Category where applicable are as follows:

<table>
<thead>
<tr>
<th>Service Classifications</th>
<th>January</th>
<th>February</th>
<th>March</th>
<th>April</th>
<th>May</th>
<th>June</th>
<th>July</th>
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<th>September</th>
<th>October</th>
<th>November</th>
<th>December</th>
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<tr>
<td>1(M) Res</td>
<td>$0.040912</td>
<td>$0.042255</td>
<td>$0.044016</td>
<td>$0.047279</td>
<td>$0.048669</td>
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<td>$0.103081</td>
<td>$0.103081</td>
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<td>2(M) SGS</td>
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<td>$0.089681</td>
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<th>COOLING</th>
<th>EXT LIGHTING</th>
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<tr>
<td>Month</td>
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<td>December</td>
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FILED
Missouri Public
Service Commission
EO-2018-0211; YE-2019-0133
RIDER EEIC

ENERGY EFFICIENCY INVESTMENT CHARGE (Cont’d.)
For MEEIA 2019-21 Plan

TD DETERMINATION (Cont’d.)

<table>
<thead>
<tr>
<th>Month</th>
<th>HVAC/BUILDING SHELL</th>
<th>LIGHTING</th>
<th>REFRIG.</th>
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<thead>
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<th>Month</th>
<th>3M</th>
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<tr>
<td>March</td>
<td>0.027954</td>
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<td>0.034623</td>
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<td>0.035035</td>
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<td>0.072717</td>
<td>0.070125</td>
<td>0.054609</td>
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<td>0.069795</td>
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<td>0.070017</td>
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<td>0.052298</td>
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<td>October</td>
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<td>December</td>
<td>0.032272</td>
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<td>0.026321</td>
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<tr>
<th>Month</th>
<th>3M</th>
<th>4M</th>
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<tbody>
<tr>
<td>January</td>
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<td>December</td>
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<td>0.029187</td>
<td>0.026321</td>
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DATE OF ISSUE: December 21, 2018
DATE EFFECTIVE: January 20, 2019

Michael Moehn
President
St. Louis, Missouri
RIDDER EEIC
ENERGY EFFICIENCY INVESTMENT CHARGE (Cont’d.)
For MEEIA 2019-21 Plan

TD DETERMINATION (Cont’d.)

The Company shall file an update to NMR rates by month by Service Classification and by end-use category contemporaneous with filing any compliance tariff sheets in any general electric rate case reflecting the rates set in that case, and the billing determinants used in setting rates in such case. Updates to the NMR values shall be calculated following the same process described in the Marginal Rate Analysis section of the MEEIA 2019-21 Plan.

NTGF = Net-To-Gross Factor. For each Program Year, all TD calculations will assume a NTGF of 0.85 until such time as a NTGF is determined through EM&V for that Program Year. Thereafter, for each given Program Year, the NTGF determined through EM&V will be used prospectively starting with the month in which the Earnings Opportunity Award is determined.

Annual kWh savings per Measure will be updated prospectively in the Company’s TRM and Deemed Savings Table.

EARNINGS OPPORTUNITY AWARD DETERMINATION

An Earnings Opportunity Award shall be calculated for each Program Year using the EO Calculator submitted with the MEEIA 2019-21 Plan as Appendix N. The Earnings Opportunity Award will not go below zero dollars ($0). If Commission-approved new programs are added to the Program, the Company may seek Commission approval to have the targets and the cap of the Earnings Opportunity Award adjusted. For each Program Year the Earnings Opportunity Award shall be adjusted for the difference, with carrying cost at the Company’s monthly short-term interest rate, between TD revenues billed resulting from the application of the EEIR and what those revenues would have been if:

(1) The ME used in the calculation were the normalized savings for each Measure at customer meter per Measure determined through EM&V ex-post gross analysis for each Program Year, and

(2) The NTGF used in the calculation was the net-to-gross values determined through EM&V.

*FILING

The Company shall make a Rider EEIC filing each calendar year to be effective for application to the usage on and after the first date of the subsequent February. The Company is allowed or may be ordered by the Commission to make one other Rider EEIC filing in each calendar year with such subsequent filing to be effective the first day of June or October. Rider EEIC filings shall be made at least 60 days prior to their effective dates.

PRUDENCE REVIEWS

A prudence review shall be conducted no less frequently than at 24-month intervals in accordance with 20 CSR 4240-20.093(11). Any costs which are determined by the Commission to have been imprudently incurred or incurred in violation of the terms of this Rider EEIC shall be addressed through an adjustment in the next EEIR determination and reflected in factor OA herein.

*Indicates Change.
**RIDER EEIC**

ENERGY EFFICIENCY INVESTMENT CHARGE (Cont’d.)

* (Applicable To Service Provided Beginning June 2019 through January 31, 2020)

### MEEIA 2013-15 EEIR Components (Applicable to MEEIA Cycle 1 Plan)

<table>
<thead>
<tr>
<th>Service Class</th>
<th>NPC/PE ($/kWh)</th>
<th>NTD/PE ($/kWh)</th>
<th>NPI/PE ($/kWh)</th>
<th>NOA/PE ($/kWh)</th>
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</thead>
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<tr>
<td>1(M)-Residential Service</td>
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<td>$0.000000</td>
<td>$0.000039</td>
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<tr>
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<tr>
<td>4(M)-Small Primary Service</td>
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<tr>
<td>11(M)-Large Primary Service</td>
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<td>12(M)-Large Transmission Service</td>
<td>$0.000000</td>
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</table>

### MEEIA 2016-18 EEIR Components (Applicable to MEEIA Cycle 2 Plan)

<table>
<thead>
<tr>
<th>Service Class</th>
<th>NPC/PE ($/kWh)</th>
<th>NTD/PE ($/kWh)</th>
<th>NEO/PE ($/kWh)</th>
<th>NOA/PE ($/kWh)</th>
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</thead>
<tbody>
<tr>
<td>1(M)-Residential Service</td>
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<td>3(M)-Large General Service</td>
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<td>4(M)-Small Primary Service</td>
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### MEEIA 2019-21 EEIR Components (Applicable to MEEIA Cycle 3 Plan)

<table>
<thead>
<tr>
<th>Service Class</th>
<th>NPC/PE ($/kWh)</th>
<th>NTD/PE ($/kWh)</th>
<th>NEO/PE ($/kWh)</th>
<th>NOA/PE ($/kWh)</th>
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<tr>
<td>1(M)-Residential Service</td>
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<td>$0.000181</td>
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<td>($0.000002)</td>
</tr>
<tr>
<td>4(M)-Small Primary Service</td>
<td>$0.002247</td>
<td>$0.000179</td>
<td>$0.000000</td>
<td>($0.000002)</td>
</tr>
<tr>
<td>11(M)-Large Primary Service</td>
<td>$0.002247</td>
<td>$0.000065</td>
<td>$0.000000</td>
<td>($0.000002)</td>
</tr>
<tr>
<td>12(M)-Large Transmission Service</td>
<td>$0.000000</td>
<td>$0.000000</td>
<td>$0.000000</td>
<td>$0.000000</td>
</tr>
</tbody>
</table>

**Summary EEIR Components and Total EEIR**

<table>
<thead>
<tr>
<th>Service Class</th>
<th>NPC ($/kWh)</th>
<th>NTD ($/kWh)</th>
<th>(NEO+NPI) ($/kWh)</th>
<th>NOA ($/kWh)</th>
<th>Total EEIR ($/kWh)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1(M)-Residential Service</td>
<td>$0.003065</td>
<td>$0.001466</td>
<td>$0.000039</td>
<td>$0.000005</td>
<td>$0.004575</td>
</tr>
<tr>
<td>2(M)-Small General Service</td>
<td>$0.002827</td>
<td>$0.002540</td>
<td>$0.000055</td>
<td>($0.000002)</td>
<td>$0.005420</td>
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<tr>
<td>3(M)-Large General Service</td>
<td>$0.002247</td>
<td>$0.001802</td>
<td>$0.000000</td>
<td>($0.000002)</td>
<td>$0.004924</td>
</tr>
<tr>
<td>4(M)-Small Primary Service</td>
<td>$0.002247</td>
<td>$0.00179</td>
<td>$0.000000</td>
<td>($0.000002)</td>
<td>$0.004608</td>
</tr>
<tr>
<td>11(M)-Large Primary Service</td>
<td>$0.002247</td>
<td>$0.00065</td>
<td>$0.000000</td>
<td>($0.000002)</td>
<td>$0.003830</td>
</tr>
<tr>
<td>12(M)-Large Transmission Service</td>
<td>$0.000000</td>
<td>$0.000000</td>
<td>$0.000000</td>
<td>$0.000000</td>
<td>$0.000000</td>
</tr>
</tbody>
</table>

*Indicates Change.
RIDER EEIC
ENERGY EFFICIENCY INVESTMENT CHARGE (Cont’d.)
(Applicable To Service Provided Beginning February 1, 2020 through January 31, 2021)

MEEIA 2016-18 EEIR Components (Applicable to MEEIA Cycle 2 Plan)

<table>
<thead>
<tr>
<th>Service Class</th>
<th>NPC/PE ($/kWh)</th>
<th>NTD/PE ($/kWh)</th>
<th>NEO/PE ($/kWh)</th>
<th>NOA/PE ($/kWh)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1(M) - Residential Service</td>
<td>$0.000126</td>
<td>$0.000108</td>
<td>$0.000822</td>
<td>$0.000000</td>
</tr>
<tr>
<td>2(M) - Small General Service</td>
<td>$0.000112</td>
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</tr>
<tr>
<td>3(M) - Large General Service</td>
<td>$0.000043</td>
<td>$0.000556</td>
<td>$0.000833</td>
<td>$0.000000</td>
</tr>
<tr>
<td>4(M) - Small Primary Service</td>
<td>($0.000006)</td>
<td>$0.000541</td>
<td>$0.000862</td>
<td>$0.000000</td>
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<tr>
<td>11(M) - Large Primary Service</td>
<td>($0.000182)</td>
<td>$0.000481</td>
<td>$0.000995</td>
<td>$0.000000</td>
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<tr>
<td>12(M) - Large Transmission Service</td>
<td>$0.000000</td>
<td>$0.000000</td>
<td>$0.000000</td>
<td>$0.000000</td>
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</table>

MEEIA 2019-21 EEIR Components (Applicable to MEEIA Cycle 3 Plan)

<table>
<thead>
<tr>
<th>Service Class</th>
<th>NPC/PE ($/kWh)</th>
<th>NTD/PE ($/kWh)</th>
<th>NEO/PE ($/kWh)</th>
<th>NOA/PE ($/kWh)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1(M) - Residential Service</td>
<td>$0.002501</td>
<td>$0.000389</td>
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<tr>
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<td>$0.002225</td>
<td>$0.000279</td>
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</tr>
<tr>
<td>3(M) - Large General Service</td>
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<td>$0.000181</td>
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<td>$0.000000</td>
</tr>
<tr>
<td>4(M) - Small Primary Service</td>
<td>$0.002249</td>
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<tr>
<td>11(M) - Large Primary Service</td>
<td>$0.002314</td>
<td>$0.000237</td>
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<td>$0.000000</td>
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<tr>
<td>12(M) - Large Transmission Service</td>
<td>$0.000000</td>
<td>$0.000000</td>
<td>$0.000000</td>
<td>$0.000000</td>
</tr>
</tbody>
</table>

Summary EEIR Components and Total EEIR

<table>
<thead>
<tr>
<th>Service Class</th>
<th>NPC ($/kWh)</th>
<th>NTD ($/kWh)</th>
<th>(NEO+NPI) ($/kWh)</th>
<th>NOA ($/kWh)</th>
<th>Total EEIR ($/kWh)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1(M) - Residential Service</td>
<td>$0.002627</td>
<td>$0.000497</td>
<td>$0.000822</td>
<td>$0.000000</td>
<td>$0.003946</td>
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<tr>
<td>2(M) - Small General Service</td>
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<td>$0.000000</td>
<td>$0.003743</td>
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<td>3(M) - Large General Service</td>
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<tr>
<td>4(M) - Small Primary Service</td>
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<tr>
<td>11(M) - Large Primary Service</td>
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<td>$0.000718</td>
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<td>$0.003845</td>
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<tr>
<td>12(M) - Large Transmission Service</td>
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<td>$0.000000</td>
<td>$0.000000</td>
<td>$0.000000</td>
<td>$0.000000</td>
</tr>
</tbody>
</table>
RIDER SSR
STANDBY SERVICE RIDER

APPLICABILITY

Applicable to each customer not currently served by Rider E, at a single premises with behind the meter on-site parallel distributed generation and/or storage system(s) with a capacity over 100 kilowatts (kW), as a modification to standard electric service supplied under either the tariffed rate schedules of Large General Service 3(M), Small Primary Service 4(M), or Large Primary Service 11(M). Customers with emergency backup, solar or wind generation that is not integrated with a storage system are excluded from this Rider.

DEFINITIONS

DISTRIBUTED GENERATION AND/OR STORAGE - Customer’s private on-site generation and/or storage that:
1. is located behind the meter on the customer’s premises,
2. has a rated capacity of 100 kW or more,
3. operates in parallel with the Company’s system, and
4. adheres to applicable interconnection agreement entered into with the Company.

SUPPLEMENTAL SERVICE - Electric service provided by the Company to customer to supplement normal operation of the customer’s on-site parallel distributed generation and/or storage in order to meet the customer’s full service requirements.

STANDBY SERVICE - Service supplied to the premises by the Company in the event of the customer exceeding its Supplemental Contract Capacity. Standby Service may be needed on either a scheduled or unscheduled basis. Standby Service comprises capacity and associated energy during the time it is used.

1. BACKUP SERVICE - Unscheduled Standby Service.
2. MAINTENANCE SERVICE - Scheduled Standby Service.

BACK-UP SERVICE - The portion of Standby Contract Capacity and associated energy used without advance permission from the Company. The customer must notify the Company within thirty (30) minutes of taking Back-up Service for amounts over five (5) megawatts (MW). For Back-up Service billed, the customer shall be charged the daily standby demand charge for back-up service and back-up energy charges associated with Standby Service. The rates for these charges as well as the monthly fixed charges are stated in this Rider. Back-up Service charges will be shown and calculated separately on the customer bill.

MAINTENANCE SERVICE - The portion of Standby Contract Capacity used with advance permission from the Company. The customer must schedule Maintenance Service with the Company not less than six (6) days prior to its use. Unless otherwise agreed to by the Company, Maintenance Service shall be limited to not more than six (6) occurrences and not more than sixty (60) total and partial days during twelve (12) consecutive billing periods (based on billing dates). Maintenance Service may be available during all months and shall not be greater than the seasonal Standby Contract Capacity. The scheduling of Maintenance Service may be restricted by the Company during times associated with system peaking conditions or other times as necessary. For Maintenance Service billed, the customer shall be charged the daily standby demand charge for maintenance service associated with Standby Service Demand.
DEFINITIONS (Cont’d.)

MAINTENANCE SERVICE (Cont’d.) - The rates for these daily demand charges as well as the monthly fixed charges are stated in this Rider. Energy charges for Maintenance Service associated with the Standby Service will be billed as standard energy charges per the applicable tariffed rate schedule. Maintenance Service charges will be shown and calculated separately on the customer bill.

SUPPLEMENTAL CONTRACT CAPACITY - The customer must designate and contract by season the maximum amount of demand, in kW, taken at the premises through the billing meter that may be billed on the applicable standard tariffed rate and shall be mutually agreeable to customer and Company. The Supplemental Contract Capacity shall insofar as possible estimate ninety percent (90%) of the historic or probable loads of the facility as adjusted for customer generation.

STANDBY CONTRACT CAPACITY - The higher of:
1. The number of kilowatts mutually agreed upon by Company with customer as representing the customer’s maximum service requirements under all conditions of use less Supplemental Contract Capacity, and such demand shall be specified in customer’s Electric Service Agreement. Such amount shall be seasonally designated and shall not exceed the nameplate rating(s) of the customer's own generation. The amount of Standby Contract Capacity will generally consider the seasonal (summer or winter billing periods) capacity ratings and use of the generator(s), or may be selected based on a Company approved load shedding plan.
2. The maximum demand established by customer in use of Company’s service less the product of Supplemental Contract Capacity and 110%.

Fixed monthly charges for generation and transmission access and facilities shall be levied upon a capacity not to exceed the nameplate rating(s) of the customer's generating unit(s).

SUPPLEMENTAL DEMAND - The lesser of:
1. Supplemental Contract Capacity or
2. The Total Billing Demand in this Rider.

STANDBY SERVICE DEMAND - The Total Billing Demand as determined in this Rider in excess of the Supplemental Contract Capacity.

TOTAL BILLING DEMAND - Total Billing Demand for purposes of this Rider shall be the maximum 15 minute demand established during peak hours or 50% of the maximum 15 minute demand established during off-peak hours, whichever is greater, but in no event less than 100 kW for Large General Service or Small Primary Service, nor less than 5,000 kW for Large Primary Service.

Peak and off-peak hours are defined as follows:
Peak hours: 10:00 A.M. to 10:00 P.M., Monday through Friday
Off-peak hours: All other hours including the entire 24 hours of the tariffed holidays as defined in the base tariff. All times stated above apply to the local effective time.
GENERAL PROVISIONS

The contract term shall be one (1) year, automatically renewable, unless usage, plant modifications or additional generation requires a change to Supplemental Contract Capacity or Standby Contract Capacity.

The Company will install and maintain the necessary suitable meters for measurement of service rendered hereunder. The Company may inspect generation logs or other evidence that the customer’s generator is being used in accordance with the provisions this Rider.

Power production equipment at the customer site shall not commence parallel operation until after inspection by the Company and a written interconnection agreement is executed. The sale of excess energy to the Company may be included in the interconnection or other agreement.

If at any time customer desires to increase demand above the capacity of Company's facilities used in supplying said service due to plant modifications, customer will sign a new agreement for the full capacity of service required and in accordance with applicable rules governing extension of its distribution system.

In addition to the charges in the applicable rate schedule, customers taking service under this Rider will be subject to the applicable Administrative Charge, Generation and Transmission Access Charges, and the Facilities Charge each month contained herein. If customer chooses the Time-Of-Day (TOD) option under the applicable rate schedule such option will apply to this Rider SSR as well.

Those customers choosing to install more than one (1) generating unit on the same premises will have a twenty five percent (25%) discount applied to the monthly Generation and Transmission Access Charges and Facilities Charges applicable to each additional generator on the same premises.

In addition to the above specific rules and regulations, all of Company’s General Rules and Regulations shall apply to the supply of service under this Rider.

In the event a customer adds distributed generation and/or storage after investments are made by the Company in accordance with the net revenue test described in the Company’s line extension policy, the Company may require reimbursement by the customer. Such reimbursement shall be limited to that investment which was incurred within the previous five years and shall be based upon the change in load requirements on the Company’s electric system.

Fuel and Purchased Power Adjustment (Rider FAC). Applicable to all billed kilowatt-hours (kWh) of energy under this Rider.

Energy Efficiency Investment Charge (Rider EEIC) and Energy Efficiency Program Charge. Applicable to all billed kilowatt-hours (kWh) of energy under this Rider excluding kWh of energy supplied to customers that have satisfied the opt-out provisions of Section 393.1075, RSMo.
# Rider SSR

**STANDBY SERVICE RIDER (Cont’d.)**

## Standby Rate

<table>
<thead>
<tr>
<th>Large General Service</th>
<th>Small Primary Service</th>
<th>Large Primary Service</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Standby Fixed Charges</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Administrative Charge</td>
<td>$187.00/month</td>
<td>$187.00/month</td>
</tr>
<tr>
<td>Generation and Transmission Access Charge per month per kW of Contracted Standby Demand</td>
<td>$0.63/kW</td>
<td>$0.63/kW</td>
</tr>
<tr>
<td>Facilities Charge per month per kW of Contracted Standby Demand:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Summer</td>
<td>$3.88/kW</td>
<td>$3.18/kW</td>
</tr>
<tr>
<td>Winter</td>
<td>$0.97/kW</td>
<td>$0.68/kW</td>
</tr>
</tbody>
</table>

## Daily Standby Demand Rate – Summer

<table>
<thead>
<tr>
<th>Per kW of Daily Standby Service Demand:</th>
<th>Back-Up</th>
<th>Maintenance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Back-Up</td>
<td>$0.04/kW</td>
<td>$0.04/kW</td>
</tr>
<tr>
<td>Maintenance</td>
<td>$0.02/kW</td>
<td>$0.02/kW</td>
</tr>
</tbody>
</table>

## Daily Standby Demand Rate – Winter

<table>
<thead>
<tr>
<th>Per kW of Daily Standby Service Demand:</th>
<th>Back-Up</th>
<th>Maintenance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Back-Up</td>
<td>$0.02/kW</td>
<td>$0.02/kW</td>
</tr>
<tr>
<td>Maintenance</td>
<td>$0.01/kW</td>
<td>$0.01/kW</td>
</tr>
</tbody>
</table>

## Back-Up Energy Charges – Summer

<table>
<thead>
<tr>
<th>kWh in excess of Supplemental Contract Capacity Energy(1)</th>
<th>9.94c/kWh</th>
<th>9.61c/kWh</th>
<th>3.32c/kWh</th>
</tr>
</thead>
<tbody>
<tr>
<td>On-Peak Energy(2)</td>
<td>11.11c/kWh</td>
<td>10.46c/kWh</td>
<td>3.97c/kWh</td>
</tr>
<tr>
<td>Off-Peak Energy(2)</td>
<td>9.27c/kWh</td>
<td>9.13c/kWh</td>
<td>2.97c/kWh</td>
</tr>
</tbody>
</table>

## Back-Up Energy Charges – Winter

<table>
<thead>
<tr>
<th>kWh in excess of Supplemental Contract Capacity Energy(1)</th>
<th>6.25c/kWh</th>
<th>6.05c/kWh</th>
<th>2.95c/kWh</th>
</tr>
</thead>
<tbody>
<tr>
<td>On-Peak Energy(2)</td>
<td>6.60c/kWh</td>
<td>6.37c/kWh</td>
<td>3.24c/kWh</td>
</tr>
<tr>
<td>Off-Peak Energy(2)</td>
<td>6.05c/kWh</td>
<td>5.88c/kWh</td>
<td>2.78c/kWh</td>
</tr>
</tbody>
</table>

## High Voltage Facilities Charge Discount

<table>
<thead>
<tr>
<th>Facilities Charge Credit per month per kW of Contracted Standby Demand</th>
<th>@ 34.5 or 69kV</th>
<th>@ 115kV or higher</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td>$1.23/kW</td>
<td>$1.46/kW</td>
</tr>
</tbody>
</table>

(1) Applicable to customers not on TOD rates.
(2) Applicable to customers on TOD rates for its non-back-up energy charges.

* Indicates Change.

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**DATE OF ISSUE** July 16, 2018  **DATE EFFECTIVE** August 1, 2018

**ISSUED BY** Michael Moehn  **TITLE** President  **ADDRESS** St. Louis, Missouri
RIDERS RESRAM

RENEWABLE ENERGY STANDARD RATE ADJUSTMENT MECHANISM

APPLICABILITY

This rider is applicable to all kilowatt-hours (kWh) of energy supplied to all customers served under all of the Company’s Service Classifications.

Charges or credits passed through this rider reflect Missouri Renewable Energy Standard (section 393.1030 et. seq., RSMo.) (“RES”) Compliance Costs, which consist of prudently incurred costs, both capital and expense, directly related to RES compliance which are not reflected in a regulatory asset arising under Section 393.1400.2, RSMo., and also reflect the pass-through of benefits received as a result of RES compliance to the extent those benefits are not passed through to customers in the Fuel Adjustment Rate under Rider FAC (“RESRAM Benefits”). RES Compliance Costs shall include solar rebates paid under Section 393.1670. The RES costs and benefits subject to inclusion in this rider are costs incurred related to new RES investments placed into service or RES compliance activities initiated on or after January 1, 2019.

The revised RESRAM Rate effective on the date of the rate schedules published as a result of a general rate proceeding shall reset the RESRAM Rate so that it excludes factor RRR, as defined below, except for any portion of RES Compliance Costs or RESRAM Benefits reflected in factor RRR that were not included in the revenue requirement established in that general rate proceeding.

The following items 1 to 3 apply to revised RESRAM rate schedules to adjust the RESRAM Rate other than when the RESRAM Rate is reset upon the effective date of rate schedules published as a result of a general rate proceeding or as a result of an offset adjustment being ordered:

1. Accumulation Period (AP): the historical calendar months during which RES Compliance Costs and RESRAM Benefits are incurred or received and for which over- or under-recoveries of those costs/benefits (factor ROUR, defined below) are calculated and accumulated through the ROUR. The initial AP under this rider shall begin on the first day of the first month that begins on or after the date this rider becomes effective and shall end on July 31, 2019. Each subsequent AP shall begin on August 1st, and shall end on July 31st of the following year.

2. Recovery Period (RP): the calendar months during which the over-/under-recoveries (factor ROUR) of RES Compliance Costs and RESRAM Benefits from the immediately preceding AP shall be reflected in the RESRAM Rate, along with the actual RES Revenue Requirement (factor RRR, defined below), True-Up Amount (factor T, defined below), and the Ordered Adjustment (factor OA, defined below) for that RP. Each RP shall begin on the first day of February following each AP, and shall be in effect for one year until the next RP begins.

3. RESRAM Rate Adjustment Filings: The Company shall adjust its RESRAM Rate by filing a revised RESRAM Rate Schedule (1) no later than 60 days after the end of each AP to take effect on the first day of February following each AP, (2) concurrent with rate schedules effectuating a general rate proceeding as applicable to reset the RESRAM Rate and to update Base Amount unless otherwise ordered, and (3) in compliance with any Commission order as applicable to incorporate an Required Offset Amount (“ROA”) as the result of a Commission order.

DATE OF ISSUE August 23, 2019
DATE EFFECTIVE September 22, 2019

Issued by Michael Moehn
President St. Louis, Missouri

NAME OF OFFICER TITLE ADDRESS

FILED Missouri Public Service Commission
JE-2020-0034
RIDER RESRAM

RENEWABLE ENERGY STANDARD RATE ADJUSTMENT MECHANISM

RESRAM RATE DETERMINATION

Application of the RESRAM Rate, net of benefits received from RES compliance other than the RESRAM Benefits, shall not generate an annual amount of revenue that exceeds the one percent (1%) retail rate impact limitation as provided in the RES and 4 CSR 240-20.100(5), and any applicable successor Commission Rule. Any amounts otherwise recoverable under this rider but for the retail rate impact limitation shall be deferred to a regulatory asset, at a carrying cost each month equal to the Company's monthly Short-Term Borrowing Rate to be recovered in a subsequent RP or reflected in the revenue requirement established in the Company's next general rate proceeding, if not already fully recovered.

For each RESRAM Rate adjustment filing, the RESRAM Rate is calculated as:

\[ \text{RESRAM Rate} = \text{TRR} + \text{ROA} \]

Where:

\[ \text{TRR} = \text{The minimum: of the rate determined by dividing TRR by } S_RP, \text{ and the rate reflected in RAC.} \]

\[ \text{TRR} = \text{Total RESRAM Recoveries} \]

\[ \text{TRR} = \text{ROUR} + \text{RRR} + T + OA \]

\[ S_RP = \text{Estimated recovery period sales in kWh.} \]

\[ \text{RAC} = \text{Rate Adjustment Cap.} \]

\[ \text{ROA} = \text{Required Offset Amount} \]

\[ \text{ROA} = \text{DA} / \text{DPE} \]

\[ \text{DA} = \text{Disallowance Amount - an amount ordered by the Commission to be disallowed during a subsequent general rate proceeding or prudence review under this rider that was previously reflected in a RESRAM rate.} \]

\[ \text{DPE} = \text{Disallowance Period Energy - the energy projected to be sold in the six (6) months beginning with the first billing month following the promulgation of a RESRAM Rate that includes a DA.} \]
RIDER RESRAM
RENEWABLE ENERGY STANDARD RATE ADJUSTMENT MECHANISM

ROUR = RES Over/Under Recovery

ROUR = ARC - RCR + I

ARC = Actual RES Costs
The actual RES Compliance Costs and RESRAM Benefits incurred or received during the recently completed AP, including monthly adjustments to rate base included in the MBAs and the RBAs for accumulated depreciation and accumulated deferred income taxes.

RCR = RES Costs Recovered
The RES Compliance Costs and RESRAM Benefits reflected in the RBA and the sum of the applicable MBA for the AP.

I = Interest applicable to the following:
(i) the difference between RCR and ARC for each month of each AP;
(ii) Ordered Adjustments ("OA"), if any;
(iii) adjustments due to a required offset amount ("ROA");
(iv) all under- or over-recovery balances created through operation of this RESRAM, as determined in the true-up filings ("T") provided for herein.

Interest shall be calculated monthly at the Short-Term Borrowing Rate, applied to the month-end balance of items (i) through (iv) in the preceding sentence.

RRR = RESRAM Revenue Requirement: An amount equal to the revenue requirement associated with all RES Compliance Costs net of RESRAM Benefits that are not reflected in the revenue requirement that was established in the Company’s last general rate proceeding. The RRR shall consist of (1) the capital costs associated with investments in renewable energy resources used to comply with the RES that have been placed into service on the Company's books as of the end of each AP, except the 85% of the return and depreciation on such investments which is reflected in a mechanism authorized under Section 393.1400; and (2) the non-capital RES Compliance Costs and RESRAM Benefits reflected on the Company's books during that AP except to the extent those costs and benefits are addressed under the company’s Rider FAC, on an annualized basis for the first AP which may be less than twelve months in length, or if the asset to which the costs and benefits relate was only in service for a portion of the AP. Notwithstanding the previous sentence, if a wind generation asset used for RES compliance ceases to earn Production Tax Credits during an AP, an adjustment necessary to offset the annual impact of those Production Tax Credits as reflected in rates established in a general rate proceeding shall be included.
RIDER RESRAM
RENEWABLE ENERGY STANDARD RATE ADJUSTMENT MECHANISM

T = True-Up Amount: An amount calculated at the end of each AP reflecting the difference between (1) the revenues billed for the first 6 months of the then-effective RP and projected to be billed for the second 6 months of the RP and (2) the revenues authorized for collection through this rider during the first 6 months of the then-effective RP and projected to be collected during the second 6 months of the RP, excluding amounts of authorized and actual revenues associated with factor RRR, resulting from the difference in forecasted RP total kWh usage, and actual total kWh usage from the RP. Forecasted amounts shall be trued-up with actual amounts in the next applicable calculation.

OA = Ordered Adjustment: The amount of any adjustment to the TRR ordered by the Commission not reflected as an ROA.

MBA = Monthly Base Amount: Is one-twelfth of the Base Amount. The Base Amount is the revenue requirement associated with RES Compliance Costs and RESRAM Benefits reflected in the revenue requirement established in the applicable general rate proceedings. At the conclusion of each general rate proceeding, unless otherwise ordered, the Base Amount shall be published on a replacement sheet for Sheet 93.4.

RBA = RESRAM Base Amount: is the sum of the monthly RESRAM Revenue Requirements (which is one-twelfth of the applicable factor RRR) for each month in the AP. Each month's RESRAM Revenue Requirement is associated with the amount reflected in RRR used to determine the RESRAM Rate that is in effect for that month.

RAC = Rate Adjustment Cap: applies to the RESRAM rate and shall apply so long as the rate caps provided for by Section 393.1655, RSMo. are in effect, and shall be calculated by multiplying the baseline rate as determined under Section 393.1655.4 by the 2.85% CAGR compounded for the amount of time that has passed since the effective date of rate schedules published to effectuate the Commission's Order that approved the Stipulation and Agreement that resolved File No. ER-2016-0179, and subtracting the then-current FAR under Rider FAC and the average base rate determined from the most recent general rate proceeding as calculated pursuant to Section 393.1655.

"Short-Term Borrowing Rate" = A rate applied monthly that is equal to the weighted average interest rate paid on the Company's short-term debt.

The RESRAM Rates applicable to customer bills shall be rounded to the nearest 0.00001 cents, to be charged on a cents/kWh basis for each applicable kWh billed.

PRUDENCE REVIEWS:
A prudence review shall be conducted no less frequently than every twenty-four (24) months. RES Compliance Costs which are determined by the Commission to have been imprudently incurred or incurred in violation of the terms of this rider shall be credited to customers through factor DA with interest using factor I. RES Compliance Costs included in the revenue requirement in a general rate proceeding shall not be subject to further prudence review hereunder.
RIDER RESRAM
RENEWABLE ENERGY STANDARD RATE ADJUSTMENT MECHANISM

RESRAM Rate Schedule

Accumulation Period Ending: 07/31/19

1. Actual RES Costs Incurred in AP (ARC) $6,774,827.83
2. RES Expenses Recovered in AP (RCR) = (RBA + sum of monthly MBAs) $0
3. RES Over/Under Recovery (ROUR) = $6,774,827.83
   3.1 Interest + $124,948.67
   3.2 (Over)/Under Recovered Costs (ARC-RCR) + $6,899,776.50
4. RES Revenue Requirement (RRR) + $7,234,842.53
5. True-Up (T) + $0
6. Ordered Adjustment (OA) ± $0
7. Total RESRAM Recoveries (TRR) = (ROUR + RRR + T + OA) = $14,134,619.03
8. Estimated Recovery Period Sales (SRP) ÷ 31,846,280,575 kWh
9. TRR_RATE = MIN of (TRR/SRP), (RAC) = $0.00044/kWh
10. RESRAM_RATE = TRR_RATE + ROA 1 $0.00044/kWh
11. Required Offset Amount (ROA) + $0.00000/kWh
12. RESRAM_RATE (applicable for the first 6 months if ROA is greater than $0.00000) = $0.00044/kWh

*A negative RESRAM Rate represents a per kWh credit that would be applied to a customer's bill.

Recovery Period for Above RESRAM Rate
February 1, 2020 to January 31, 2021

Current RBA = $7,234,842

Base Amount File No. ER-2016-0179 = $0.00

1 If ROA is equal $0.00000, The RESRAM RATE stated in this Line 10 shall apply for the entire Recovery Period. If ROA is greater than $0.00000, the RESRAM RATE shall be the value shown on line 12 for the first 6 months and, thereafter, the value shown on Line 10.

FILED
Missouri Public Service Commission
ER-2020-0086; YE-2020-0048
PURPOSE

The purpose of the Renewable Choice Program ("Program") is to offer eligible Customers an opportunity to subscribe to a designated new renewable wind resource ("Resource") to be developed for the Program.

PROGRAM DESCRIPTION

Under the Program, eligible Customers can elect to receive renewable energy service ("RE Service"). By doing so, Customers agree to contract for a subscribed portion of a RE Block of renewable power that is produced for sale into the wholesale energy market. The RE Block will be sold to Customers in accordance with the price, terms and conditions that are defined in each individual Customer’s RE Service Agreement (the form of which is included in the tariff sheets governing this Program). The Customer’s subscription shall be reflected in the RE Service Agreement, and will be based upon the Customer’s Annual Usage and Customer's RE Subscription Level. Each Customer subscription shall continue for a term of 15 years, unless a different subscription term is otherwise established for a specific RE Block. Eligible Customers may subscribe for up to 100% of their Annual Usage as established at the time of subscription.

DEFINITIONS

Account: Except as otherwise agreed between Company and Customer, each premise where electricity is individually metered is an account.

Actual Metered Hourly RE Production: This is the total actual energy production of the Resource, as measured at the CP node where the power is injected into the wholesale energy market, as further described below. This value is expressed as the hourly metered production of energy (measured in megawatt-hours ("MWh")).

Company Administration Charge: A charge of $0.05-$0.35 per MWh to cover Company costs of administering the Program. The specific level of this charge will be established within the range stated above for each RE Block offered under the Program.

CP Node: The point where the renewable energy from the Resource will be injected into the wholesale energy market.

Customer: As defined in the Company’s General Rules and Regulations, unless otherwise specified with respect to affiliates as set forth in the RE Service Agreement.

Customer Monthly RE Adjustment: An adjustment that is calculated on a monthly basis. The adjustment will be based upon the metered output of the Resource(s) multiplied by the Customer’s RE Allocation Factor. These volumes will then be multiplied by the difference between the RE Price and the WMP and will be rounded to the nearest penny. To this amount will be added the sum of the applicable Company Administrative Charge and the Risk Premium, multiplied by the metered output of the Resource(s) multiplied by the Customer’s RE Allocation Factor. For purposes of Rider EDR and Rider EDRR or any similar discounted economic development rate, the Customer Monthly RE Adjustment shall not be discounted.
RIDERS RC

RENEWABLE CHOICE PROGRAM (Cont’d.)

DEFINITIONS (Cont’d.)

Governmental Entity: A county or the city established by Section 46.040, RSMo, or a city, town, or village established under Missouri law pursuant to Article VI, Section 15 of the Missouri Constitution and applicable enabling statutes enacted by the General Assembly thereunder.

Owned-Resource Cost: The per-unit cost of energy applicable to a given block, calculated by operation of the spreadsheet attached as Exhibit B to the Stipulation and Agreement approved by the Commission in File No. ET-2018-0063, pursuant to the terms of that Stipulation and Agreement.

RE Allocation Factor (%): This is calculated for each Customer subscription by dividing the RE Service Level (measured in megawatts “MW”) by the total capacity of the RE Block (in MW). The RE Allocation Factor represents the percentage of the RE Block that produces energy for the Customer. The RE Allocation Factor is used to calculate the Customer Monthly RE Adjustment and Company Administration Charge that are to be allocated to each Customer account.

RE Block: The nameplate capacity in MW of the Resource or aggregated Resources that will be acquired by Company and dedicated to a group of subscribing Customers. The minimum aggregate RE Service Level for which a Resource will be acquired will be 50 MW. If the Company has transferred functional control of its transmission system to a regional transmission organization as the time a Resource is to be acquired, the Resource shall be located within the footprint of such regional transmission organization. Each Resource shall be registered as a separate asset in such regional transmission organization’s wholesale market.

RE Price: A price in $/MWh for each RE Block. The RE Price for a given RE Block, if only made up of one Resource, will be the RE Resource Price for the Resource that constitutes that RE Block. If an RE Block consists of aggregated Resources, the RE Price applicable to the RE Block in each month shall be the average of the RE Resource Prices associated with the Resources included in the RE Block weighted by the applicable monthly energy output of the Resources.

RE Resource Price: The RE Resource Price shall be the price at the CP Node per MWh paid by the Company to the seller of the wind energy over the term of the purchase contract according to its provisions, if Company purchases the energy, or the Owned-Resource Cost of the wind energy if the Company owns the Resource. The RE Resource Price for each Resource in each RE Block shall be reflected in the published tariff sheet for each RE Block.

Not-to-Exceed RE Resource Price: For each RE Block offered, the Not-to-Exceed RE Resource Price shall reflect the upper limit of the RE Resource Price applicable to the Resources that comprise the RE Block used to solicit final enrollment in the RE Block. The final RE Resource Price will be subject to update consistent with the terms of the Stipulation and Agreement in File No. ET-2018-0063 and subsection b of the Subscription section of this tariff, but shall not exceed the Not-to-Exceed RE Resource Price.
RIDER RC

RENEWABLE CHOICE PROGRAM (Cont'd.)

DEFINITIONS (Cont’d.)

RE Service Agreement: A written contract executed by the Company and an eligible Customer setting forth the specific terms of a Customer’s subscription(s) under the Program, including the Customer accounts covered by the subscription. A separate RE Service Agreement is required for each distinct subscription of a Customer.

RE Service Level (MW): The RE Service Level is determined at the time the Customer subscribes to receive RE Service and is calculated using the following formula:

\[ \text{RE Service Level (MW)} = \left( \frac{\text{Customer’s Annual Usage (MWh)} \times \text{RE Subscription Level} \times \%}{8,760 \text{ hours/year} \times \text{Capacity Factor}} \right) \]

where:

- Annual Usage = Customer’s actual metered energy usage over the previous 12 monthly billing periods, if available, or Customer’s expected metered energy usage over 12 monthly billing period as determined by Company. Annual Usage shall be established at the time of subscription, and cannot be modified during the subscription term.

- Capacity Factor = Assumed capacity factor of the Resource(s) (to be determined by Company once the Resource(s) are identified; if multiple Resources are acquired for an RE Block the assumed capacity factor will be weighted).

RE Subscription Level (0-100%): An eligible Customer may subscribe to RE Service in single percentage increments, up to 100% of the Customer’s Annual Usage at the time of subscription. The RE Subscription Level and RE Service Level are fixed for the term of the subscription.

Risk Premium: A $0.50/MWh adder to the Owned Resource Cost used to establish the RE Price applicable to a Resource owned by the Company and dedicated to subscribers in the Program designed to compensate the Program for uncertainties inherent in establishing a fixed price applicable to future service.

Wholesale Market Price (WMP): A price calculated for a Resource in each calendar month that represents the accumulation of all applicable market revenues and charges arising from or related to injection of the energy output of a Resource into the wholesale energy market in that calendar month, divided by the Actual Metered Hourly RE Production, using the best available data from the wholesale energy market operator for the calendar month as of the date Customer’s RE Adjustment is being prepared. The numerator of the WMP calculation will also be adjusted to reflect net costs or revenues associated with service under the Program in prior months, for which more recent wholesale market settlement data supersedes the data that was used to calculate initial charges or credits that were assessed to participating Customers.

DATE OF ISSUE July 16, 2018
DATE EFFECTIVE August 15, 2018

ISSUED BY Michael Moehn
NAME OF OFFICER
St. Louis, Missouri
ADDRESS
AVAILABILITY

Electric service under this Program is only available to Customers currently served by the Company under the Large General Service Rate 3 (M), Small Primary Service Rate 4 (M), or Large Primary Service Rate 11 (M) service classification and that have an aggregate electric load of at least 2.5 MW, based upon annual billing demand, or to a Governmental Entity. Aggregation of meters by a single non-Governmental Entity Customer is permitted to meet the 2.5 MW minimum. Aggregation between different Customers is not allowed, except as may be provided for with respect to Customers that are affiliates of each other in the applicable RE Service Agreement. Eligible Customers can contract for up to a maximum of 100% of their Annual Usage. At the Company's discretion, Customers may be deemed ineligible for the Program if they have received a disconnection notice within twelve (12) months preceding their application.

SUBSCRIPTION

1. For a period of at least 30 days the Company will solicit Customer interest in subscribing to a potential RE Block, during which time eligible Customers will have the opportunity to make a non-binding commitment to enroll.

2. The Company will use the non-binding commitments to size an RE Block to be offered. The Company will conditionally acquire the right to obtain wind power in a quantity necessary to serve an RE Block of a size supported by the level of non-binding commitments. Such wind power will be obtained through either a Purchased Power Agreement or with Company-owned wind generation, or both. This conditional acquisition of the right to obtain such wind power will be the result of a competitive request for proposal process, whether commenced prior to the inception of the Program or after its inception. Once the Company has secured the conditional right to obtain the wind power, the Company will file a tariff sheet in the form of Sheet No. 94.8 in File No. ET-2018-0063 bearing a 45-day effective date (if the Resource(s) for the RE Block are all pursuant to Purchase Power Agreements priced on a $/MWh basis) or a 90-day effective date (if a Resource in the RE Block is to be Company owned, or includes a PPA priced on anything other than a $/MWh basis) that indicates a Not-to-Exceed RE Price, State, and RTO of the Resource(s) to be included in that RE Block.

3. If the Resource(s) for a given RE Block are all pursuant to Purchase Power Agreements, simultaneous with the tariff sheet filing provided for in subsection 2, above, the Company will file in such case the commercial agreements specified in the Stipulation and Agreement in File No. ET-2018-0063 related to the purchase of the wind power, as well as a summary of their material terms and conditions. Within 30 days the Staff shall and other parties may file a report confirming whether the Not-to-Exceed RE Resource Price and other terms in the filed tariff sheet are consistent with the terms of the Agreement, this tariff, and the Stipulation and Agreement approved by the Commission in File No. ET-2018-0063. If the tariff sheet does not conform, Staff’s Report shall specify the manner in which it does not conform, or otherwise state the information necessary to determine such confirmation, and...
RIDER RC

RENEWABLE CHOICE PROGRAM (Cont'd.)

3. recommend rejection of the tariff sheet or suspension of the tariff sheet pending its confirmation of conformation, or the Company's modification of the tariff sheet so that it does so conform.

4. If any of the Resource(s) in the RE Block are to be Company owned, at least 90 days prior to the filing described in subsection 2, above, the Company shall file an application pursuant to Section 393.170.1, RSMo. and applicable Commission rules, which will be consolidated with File No. ET-2018-0063. If any of the Resource(s) in the RE Block are to be Company owned but Section 393.170.1 and applicable Commission rules do not require a filing under Section 393.170.1, RSMo., the Company shall, also at least 90 days prior to the filing described in subsection 2 above, file in File No. ET-2018-0063 the information required under 4 CSR 240-3.105(1)(B) - (E) or successor rules, as described in Paragraph 16 of the Stipulation and Agreement approved by the Commission in File No. ET-2018-0063. In either case, such filing must include the documents specified in Paragraph 5b of the Stipulation and Agreement in File No. ET-2018-0063 and a summary of the material terms and conditions of each agreement. Such filing shall also include the applicable Not-to-Exceed RE Resource Price based on the Owned-Resource Cost calculation as an operable spreadsheet in the form attached as Exhibit C to the Stipulation and Agreement approved by the Commission in File No. ET-2018-0063, including supporting documentation for all inputs to that calculation. Within the later of 60 days after the filing of the tariff sheet provided for by subsection 1 above, or the issuance of a Report and Order granting a certificate of convenience and necessity for a Company-owned resource (if required by Section 393.170.1, RSMo.), the Staff shall and other parties may file a Report confirming whether the resulting Not-to-Exceed RE Resource Price and other terms in the filed tariff sheet are consistent with the terms of the Agreement, this tariff, and the Stipulation and Agreement approved by the Commission in File No. ET-2018-0063. If the tariff sheet does not conform, Staff's Report shall specify the manner in which it does not conform, or otherwise state the information necessary to determine such confirmation, and recommend rejection of the tariff sheet or suspension of the tariff sheet pending its confirmation of conformation, or the Company's modification of the tariff sheet so that it does so conform.

5. Upon the effectiveness of the tariff sheet to be filed under subsection 2, Customers that executed a non-binding commitment during the RE Block subscription process provided for in subsection 1 associated with that tariff sheet will be provided with the Not-to-Exceed RE Price and other terms and conditions and will have the opportunity to enroll for RE Service by executing an RE Service Agreement. If RE Service is oversubscribed in relation to the available RE Block, the customers will be subscribed in order of execution of RE Service Agreements. Customers executing an RE Service Agreement for a Block that are unable to take service in that Block shall receive priority in subscription of the next RE Block, although the RE Service Agreement related to the oversubscribed RE Block shall be voided. If RE Service is undersubscribed in relation to the available RE Block, the subscription to the RE Block will...
SUBSCRIPTION (Cont'd.)

5. Be made available to Customers who did not extend a non-binding commitment on a first-come, first-served basis. Subsequent RE Blocks will proceed in the manner described above so long as there is sufficient demand for the Program, up to a total of 400 MW. Interest in subsequent RE Blocks will be solicited not less than two years following the approval of each RE Block up until the Program Term ends or the 400 MW cap is reached. Customers that made a non-binding commitment during an earlier phase of the Program will have priority to enroll for RE Service over eligible Customers that did not make a non-binding commitment as additional RE Blocks become available for subscription.

6. At such time as the final RE Price for a Resource is determined, but no less than 90 days prior to the date a Customer Monthly RE Adjustment will begin to appear on the bills of subscribing Customers, the Company will file an updated tariff sheet with the final RE Price.

MONTHLY BILL

All charges provided for under, and other terms and conditions of, the Customer’s applicable standard service classification(s) tariff shall continue to apply and will continue to be based on actual metered energy use during the Customer’s normal billing cycle.

Customers that participate in this program will see an additional charge or credit (i.e., the Customer Monthly RE Adjustment) added to their bill associated with the most recent calendar month as of the time the bill is produced.

The Customer Monthly RE Adjustment reflects the Customer’s procurement of renewable energy from the Company in an amount equal to the Customer’s chosen percentage of the Customer’s Annual Usage.

OTHER PROGRAM PROVISIONS AND TERMS

1. Eligible Customers should carefully consider the risks of participation in the Program. To assist in the consideration of program risks, the Company’s website contains answers to “Frequently Asked Questions” regarding the Program.

2. The renewable energy certificates (RECs) associated with the generation output of the Resource dedicated to subscribers will be retired as further outlined in the RE Service Agreement, and shall not be used for any other purposes during the term of a subscription including for the Company's compliance with Renewable Energy Standard requirements, except when a Customer within the RE Block terminates or defaults on their RE Service Agreement. The Program is considered a voluntary program unrelated to compliance with Renewable Energy Standard requirements, therefore, the Commission is not actively monitoring the retirement of RECs or allocation amongst customers.
RIDER RC

RENEWABLE CHOICE PROGRAM (Cont'd.)

OTHER PROGRAM PROVISIONS AND TERMS (Cont'd.)

3. Any Customer being served or having been served on this Program waives all rights to any billing adjustments or other relief arising from a claim that the Customer's service would be or would have been at a lower cost had the Customer not participated in the Program.

4. A Customer's subscription for RE Service is specific to the Customer accounts specified in the applicable RE Service Agreement. If, prior to the end of the term of a given subscription, a Customer premises that constitutes a separate account is relocated to another location within the Company's service territory, the Customer's subscription shall continue to the new account established at the new location.

5. If, prior to the end of the term of a given subscription, a Customer provides written notification of its election to terminate RE Service for an account covered by an RE Service Agreement:

   a. The Customer without penalty may transfer the RE Service to another account that is within the Company's service territory and is either (i) currently not covered by an RE Service Agreement, or (ii) covered by an RE Service agreement for only a part of its eligible usage, in either case only to the extent the consumption at the new account under (i) or the eligible unsubscribed usage at an account that had already been receiving RE Service under (ii) is sufficient to accommodate the transfer; or

   b. At Customer’s written request, Company will attempt to find another interested Customer that meets Company’s eligibility requirements and is willing to accept transfer of RE Service (or that part which cannot be transferred to another Customer account) for the remainder of the term of the subscription at issue; or

   c. If option a) or b) is not applicable as to some or all the RE Service at issue, the Customer will continue to be obligated to pay for, or be eligible to receive, the Monthly RE Adjustment as to that part of the RE Service that was not transferred; or

   d. If option a) or b) is not applicable and in lieu of option c), the Customer may terminate RE Service for the account at issue upon payment of the Termination Fee, which is as follows: The average of the Customer’s Monthly RE Adjustment for the preceding 12 months (or all preceding months, if less than 12) times the number of months remaining in the term; if this value is less than or equal to zero (e.g., a credit to Customer), then the Termination Fee is zero, and in no event shall the Customer receive a net credit from Company for terminating RE Service.

6. Any Customer who terminates Program participation must wait thirty-six (36) months after the first billing cycle without a subscription to re-enroll in future RE Blocks of the Program.
RIDERS RC

RENEWABLE CHOICE PROGRAM (Cont'd.)

7. Failure to pay Customer’s bill when due, including that part of the bill reflecting charges for RE Service, shall constitute a failure to pay a bill due for services for purposes of Paragraph A.2 of Section VII of the Company’s General Rules and Regulations.

8. Unless extended by the Company prior to its expiration, new offerings under the Program will no longer be offered 5 years after the initial Program tariff sheets take effect; provided, that RE Service Agreements entered into prior to Program expiration shall continue in effect according to their terms.

9. The Company will use its reasonable best efforts to develop projects sufficient to meet the total demand for the Program expressed by eligible Customers up to an aggregated RE Service Level of 400 MW, as provided for in the Stipulation and Agreement approved in File No. ET-2018-0063

GENERAL RULES AND REGULATIONS

In addition to the above specific rules and regulations, all of Company's General Rules and Regulations shall apply to service supplied under this Program, except as specifically modified herein.
### RE BLOCK PRICING & RESOURCE SPECIFICATIONS

<table>
<thead>
<tr>
<th>RE BLOCK GROUP</th>
<th>Resource Capacity (MW)</th>
<th>Admin Cost ($/MWh)</th>
<th>Not-To-Exceed RE Resource Price ($/MWh)</th>
<th>RE Resources in RE BLOCK</th>
<th>RE Resource Price ($/MWh)</th>
<th>Owned</th>
<th>Risk Premium ($/MWh)</th>
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**RIDER RC**

**RENEWABLE CHOICE PROGRAM (Cont'd.)**

**FILED**

RENEWABLE ENERGY (RE) SERVICE AGREEMENT
(For Governmental Entities)

A. Customer’s Information*

Company Electric Account No. to which RE Service Will Apply (from Utility Bill): ____________________________

Name on Company Electric Account: ________________________________________________________________

Service/Street Address of Company Electric Account: __________________________________________________

City: ___________________________________________ State: ____________ Zip Code: ________________

Mailing Address (if different from above): _____________________________________________________________

City: ___________________________________________ State: ____________ Zip Code: ________________

Customer Contact Person: __________________________________________________________________________

Customer Contact E-mail address (if available): ______________________________________________________

Daytime Phone: __________________ Fax: ______________________________________________________________

Emergency Contact Phone: __________________________________________________________________________

If an account has multiple meters, provide the meter number to which generation will be connected: _________

*Attach an additional sheet(s) if application is being made for multiple accounts, and include all requested
information for each such account.

B. Additional Terms and Conditions

In addition to abiding by terms of Company Renewable Energy Program as reflected in Company’s tariff sheets
and Company’s other applicable rules and regulations, the Customer understands and agrees to the following
specific terms and conditions:

1. Customer’s Subscription (to be specified separately for each account to which this RE Service Agreement
applies – attach additional sheets as necessary)

   Annual Usage: ________________________________

   RE Subscription Level: ________________________________

   RE Service Level (state separately for each Resource, if multiple Resources): __________________

   Resource(s): __________________________________________

   Resource(s) Capacity Factor* (state separately for each Resource, if multiple Resources): _______

   RE Price (state separately for each Resource, if multiple Resources)*: ______________

   *At the time this RE Service Agreement is executed, the Resource(s) Capacity Factor and RE Price shall
be a not-to-exceed price. Customer’s Monthly RE Adjustment, once it commences, shall be based upon
the final RE Price set forth in the final filed tariff sheet filed in File No. ET-2018-0063.
B. Additional Terms and Conditions (Cont'd.)

2. Renewable Energy Credits

Company will establish a Group Retirement subaccount with the North American Renewables Registry (“NAR”). RECs will be retired by the Company on Customer’s behalf in that Group Retirement subaccount in accordance with NAR operating procedures, or transferred to Customer’s NAR account if the customer so elects. Title to and risk of loss of the RECs required to be transferred to Customer hereunder shall transfer from Company to Buyer at the time that such RECs are retired in the Group Subaccount or transferred to Customer’s NAR account. The Company will take all such other actions that are necessary for Customer to receive the transfer of the RECs from Company. Upon the request of Customer, Company shall deliver or cause to be delivered to Customer such attestations/certifications of such RECs as may be requested by Customers. Customer may report under any such program that RECs transferred hereunder belong to it. The Environmental Attributes Customer shall receive through its ownership of the RECs mean any and all claims, credits, benefits, emissions reductions, offsets, and allowances, howsoever entitled, resulting from the avoidance of the emission of any gas, chemical, or other substance to the air, soil or water. Such Environmental Attributes include but are not limited to the following to the extent attributable to the power to which Customer subscribes hereunder: (a) any avoided emissions of pollutants to the air, soil, or water such as (subject to the foregoing) sulfur oxides, nitrogen oxides, carbon monoxide, and other pollutants; and (b) any avoided emissions of carbon dioxide, methane, and other greenhouse gases as defined by U.S. laws or regulations as of the Effective Date or as they may be modified during the Term. However, Environmental Attributes do not include (i) any local, state or federal cash grants, depreciation deductions or other tax credits providing a tax benefit to Company or any other person, firm, or entity based on ownership of, or energy production from, any portion of the Resource(s), including production tax credits or investment tax credits that may be available with respect to the Resource(s) or (ii) cash grants, depreciation deductions and other tax benefits arising from ownership or operation of the Resource(s). In the case of each of the foregoing clauses (i) and (ii), as between Company and Customer, Company shall maintain all rights, title and interest in and to such items.

For purposes of this RE Service Agreement, (a) “RECs” means (a) the Environmental Attributes associated with the energy produced by the Resource(s), together with (b) the REC Reporting Rights (or successor rights, if the terminology in effect on the Effective Date is modified during the Term) associated with the such energy and Environmental Attributes, however commercially transferred or traded and however denominated. One (1) REC represents the Environmental Attributes made available by the generation of one MWh of energy from the Resource(s); and (b) “REC Reporting Rights” means the exclusive right of a purchaser of Environmental Attributes to report ownership of Environmental Attributes in compliance with federal or state law, if applicable, to federal or state agencies or other parties at such purchaser’s discretion, and includes reporting under Section 1605(b) of the Energy Policy Act of 1992, or under any present or future domestic, international, or foreign emissions trading program or renewable portfolio standard.
B. Additional Terms and Conditions (Cont'd.)

3. Term

This RE Service Agreement becomes effective (the Effective Date) when signed by both the Customer and Company, and shall continue in effect for a term of fifteen (15) years after Company determines that the Resource(s) has achieved commercial operation. Company shall notify Customer’s representative in writing of the date the Resource(s) achieves commercial operation.

4. Assignment

a. Restriction on Assignments. Except as expressly provided below, neither party may assign this RE Service Agreement or any of its rights or obligations hereunder without the prior written consent of the other party. Any assignment in contravention of this restriction will be void. Notwithstanding the foregoing, a party may, without the need for consent from the other party (but with notice to the other party, including the names of the assignees): (a) transfer, sell, pledge, encumber or collaterally assign this RE Service Agreement or the accounts, revenues or proceeds therefrom in connection with any financing or other financial arrangements; (b) transfer or assign this RE Service Agreement to any affiliate of the transferor (in the case of Company, only with approval of the Missouri Public Service Commission); or (c) transfer or assign this RE Service Agreement to any party succeeding to all or substantially all of the assets or generating assets of the transferor (in the case of Company, only with approval of the Missouri Public Service Commission) as a result of a merger with or otherwise.

b. Binding Nature. This RE Service Agreement shall be binding upon and inure to the benefit of the permitted successors and assigns of the parties hereto.

5. Dispute Resolution

If any disagreements between the Customer-Generator and Company arise that cannot be resolved through normal negotiations between them, the disagreements may be brought to the Missouri Public Service Commission by either party, through an informal or formal complaint. Procedures for filing and processing these complaints are described in 4 CSR 240-2.070. The complaint procedures described in 4 CSR 240-2.070 apply only to retail electric power suppliers to the extent that they are regulated by the Missouri Public Service Commission.
UNION ELECTRIC COMPANY

ELECTRIC SERVICE

MO.P.S.C. SCHEDULE NO. 6
CANCELLING MO.P.S.C. SCHEDULE NO. __________________

Original SHEET NO. 94.12
SHEET NO. ________

APPLYING TO MISSOURI SERVICE AREA

RENEWABLE ENERGY (RE) SERVICE AGREEMENT
(For Governmental Entities) (Cont'd.)

UNION ELECTRIC COMPANY

By: __________________________
Printed Name: __________________________
Its: __________________________
Date: __________________________

CUSTOMER

By: __________________________
Printed Name: __________________________
Its: __________________________
Date: __________________________

DATE OF ISSUE July 16, 2018
DATE EFFECTIVE August 15, 2018

ISSUED BY Michael Moehn
NAME OF OFFICER
President
TITLE
St. Louis, Missouri
ADDRESS

FILED Missouri Public Service Commission
ET-2018-0063; YE-2019-0005
A. Customer’s Information*

Company Electric Account No. to which RE Service Will Apply (from Utility Bill): ______________________

Name on Company Electric Account:______________________________________________________________

Service/Street Address of Company Electric Account:________________________________________________

City: ___________________________________________ State: ____________ Zip Code: ________________

Mailing Address (if different from above): _________________________________________________________

City: ___________________________________________ State: ____________ Zip Code: ________________

Customer Contact Person: ________________________________________________________________

Customer Contact E-mail address (if available):____________________________________________________

Daytime Phone: __________________ Fax: __________________

Emergency Contact Phone: ________________________________________________________________

If an account has multiple meters, provide the meter number to which generation will be connected: _________

*Attach an additional sheet(s) if application is being made for multiple accounts, and include all requested information for each such account. Accounts of Customers who are Affiliates of each other may be covered by one RE Service Agreement, in which case any reference to “Customer” in subsection B of this RE Service Agreement shall be a reference to all such affiliates, collectively.

For purposes of this RE Service Agreement, “Affiliate” means, with respect to any entity, each entity that directly or indirectly controls, is controlled by, or is under common control with, such designated entity, with “control” meaning the possession, directly or indirectly, of the power to direct management and policies, whether through the ownership of voting securities (if applicable) or by contract or otherwise.
B. Additional Terms and Conditions

In addition to abiding by terms of Company Renewable Energy Program as reflected in Company’s tariff sheets and Company’s other applicable rules and regulations, the Customer understands and agrees to the following specific terms and conditions:

1. **Customer’s Subscription** (to be specified separately for each account to which this RE Service Agreement applies – attach additional sheets as necessary)
   
   Annual Usage: ________________________________
   
   RE Subscription Level: ________________________________
   
   RE Service Level (state separately for each Resource, if multiple Resources): ________________________________
   
   Resource(s): ________________________________
   
   Resource(s) Capacity Factor* (state separately for each Resource, if multiple Resources): ____________
   
   RE Price (state separately for each Resource, if multiple Resources)*: ________________________________
   
   *At the time this RE Service Agreement is executed, the Resource(s) Capacity Factor and RE Price shall be a not-to-exceed price. Customer’s Monthly RE Adjustment, once it commences, shall be based upon the final RE Price set forth in the final filed tariff sheet filed in File No. ET-2018-0063.

2. **Multiple Accounts**

   If this RE Service Agreement applies to multiple accounts, the premises for which are owned by the same person, firm, or entity or are owned by Affiliates, this RE Service Agreement must be signed by an authorized representative of the owner of each premises to which each account applies.

3. **Security for Performance**

   Company may, at its option, require security to ensure the performance by Customer of Customer’s obligations under the RE Program and under this RE Service Agreement. Such security may include at Company’s option:

   1. A guaranty of payment by a guarantor and in a form an substance satisfactory to Company;
   2. A letter of credit issued by an issuer and in a form, substance, and amount satisfactory to Company; or
   3. A cash deposit in an amount satisfactory to Company.
B. Additional Terms and Conditions (Cont’d.)

4. Renewable Energy Credits

Company will establish a Group Retirement subaccount with the North American Renewables Registry (“NAR”). RECs will be retired by the Company on Customer’s behalf in that Group Retirement subaccount in accordance with NAR operating procedures, or transferred to Customer’s NAR account if the customer so elects. Title to and risk of loss of the RECs required to be transferred to Customer hereunder shall transfer from Company to Buyer at the time that such RECs are retired in the Group Subaccount or transferred to Customer’s NAR account. The Company will take all such other actions that are necessary for Customer to receive the transfer of the RECs from Company. Upon the request of Customer, Company shall deliver or cause to be delivered to Customer such attestations/certifications of such RECs as may be requested by Customers. Customer may report under any such program that RECs transferred hereunder belong to it. The Environmental Attributes Customer shall receive through its ownership of the RECs mean any and all claims, credits, benefits, emissions reductions, offsets, and allowances, howsoever entitled, resulting from the avoidance of the emission of any gas, chemical, or other substance to the air, soil or water. Such Environmental Attributes include but are not limited to the following to the extent attributable to the power to which Customer subscribes hereunder: (a) any avoided emissions of pollutants to the air, soil, or water such as (subject to the foregoing) sulfur oxides, nitrogen oxides, carbon monoxide, and other pollutants; and (b) any avoided emissions of carbon dioxide, methane, and other greenhouse gases as defined by U.S. laws or regulations as of the Effective Date or as they may be modified during the Term. However, Environmental Attributes do not include (i) any local, state or federal cash grants, depreciation deductions or other tax credits providing a tax benefit to Company or any other person, firm, or entity based on ownership of, or energy production from, any portion of the Resource(s), including production tax credits or investment tax credits that may be available with respect to the Resource(s) or (ii) cash grants, depreciation deductions and other tax benefits arising from ownership or operation of the Resource(s). In the case of each of the foregoing clauses (i) and (ii), as between Company and Customer, Company shall maintain all rights, title and interest in and to such items.

For purposes of this RE Service Agreement, (a) “RECs” means (a) the Environmental Attributes associated with the energy produced by the Resource(s), together with (b) the REC Reporting Rights (or successor rights, if the terminology in effect on the Effective Date is modified during the Term) associated with the such energy and Environmental Attributes, however commercially transferred or traded and however denominated. One (1) REC represents the Environmental Attributes made available by the generation of one MWh of energy from the Resource(s); and (b) “REC Reporting Rights” means the exclusive right of a purchaser of Environmental Attributes to report ownership of Environmental Attributes in compliance with federal or state law, if applicable, to federal or state agencies or other parties at such purchaser’s discretion, and includes reporting under Section 1605(b) of the Energy Policy Act of 1992, or under any present or future domestic, international, or foreign emissions trading program or renewable portfolio standard.
B. Additional Terms and Conditions (Cont’d.)

5. Term

This RE Service Agreement becomes effective (the Effective Date) when signed by both the Customer and Company, and shall continue in effect for a term of fifteen (15) years after Company determines that the Resource(s) has achieved commercial operation. Company shall notify Customer’s representative in writing of the date the Resource(s) achieves commercial operation.

6. Mutual Representations and Warranties

Customer and Company represent and warrant to the other that, as of the Effective Date:

a. Organization. It is duly organized and validly existing under the laws of the jurisdiction of its organization.

b. Authority. It (a) has the requisite power and authority to enter into this RE Service Agreement, (b) has, or as of the requisite time will have, all regulatory and other authority necessary to perform hereunder, and (c) is duly qualified and in good standing under the laws of each jurisdiction where its ownership, lease or operation of property or the conduct of its business requires such qualification.

c. Corporate Actions. It has taken all corporate or limited liability company actions required to be taken by it to authorize the execution, delivery and performance hereof and the consummation of the transactions contemplated hereby.

d. No Contravention. The execution, delivery, performance and observance hereof by it of its obligations hereunder do not (a) contravene any provision of, or constitute a default under, (i) any indenture, mortgage, security instrument or undertaking, or other material agreement to which it is a party or by which it is bound, (ii) any valid order of any court, or any regulatory agency or other body having authority to which it is subject, or (iii) any material requirements of law presently in effect having applicability to it, or (b) require the consent or approval of, or material filing or registration with, any governmental authority or other person, firm, or entity other than such consents or approvals that are not yet required but expected to be obtained in due course.

e. Valid and Enforceable Agreement. This RE Service Agreement is a valid and legally binding obligation of it, enforceable against it in accordance with its terms, except as the enforceability hereof may be limited by general principles of equity or bankruptcy, insolvency, bank moratorium or similar laws affecting creditors’ rights generally and laws restricting the availability of equitable remedies.

f. Litigation. No litigation, arbitration, investigation or other proceeding is pending or, to the best of such party’s knowledge, threatened against such party or any Affiliate of such party with respect to this RE Service Agreement or the transactions contemplated hereunder, in each case, that if it were decided against such party would materially and adversely affect such party’s ability to perform its obligations hereunder.
RENEWABLE ENERGY (RE) SERVICE AGREEMENT
(For Non-Governmental Entities) (Cont’d.)

B. Additional Terms and Conditions (Cont’d.)

6. Mutual Representations and Warranties (Cont’d.)

Customer and Company each acknowledge that it has entered hereinto in reliance upon only the representations and warranties set forth in this RE Service Agreement, and that no other representations or warranties have been made by the other party with respect to the subject matter hereof, except as reflected in Company’s RE Program tariffs.

7. Assignment

a. Restriction on Assignments. Except as expressly provided below, neither party may assign this RE Service Agreement or any of its rights or obligations hereunder without the prior written consent of the other party. Any assignment in contravention of this restriction will be void. Notwithstanding the foregoing, a party may, without the need for consent from the other party (but with notice to the other party, including the names of the assignees): (a) transfer, sell, pledge, encumber or collaterally assign this RE Service Agreement or the accounts, revenues or proceeds therefrom in connection with any financing or other financial arrangements; (b) transfer or assign this RE Service Agreement to any affiliate of the transferor (in the case of Company, only with approval of the Missouri Public Service Commission); or (c) transfer or assign this RE Service Agreement to any party succeeding to all or substantially all of the assets or generating assets of the transferor (in the case of Company, only with approval of the Missouri Public Service Commission) as a result of a merger with or otherwise.

b. Binding Nature. This RE Service Agreement shall be binding upon and inure to the benefit of the permitted successors and assigns of the parties hereto.

8. Dispute Resolution

If any disagreements between the Customer-Generator and Company arise that cannot be resolved through normal negotiations between them, the disagreements may be brought to the Missouri Public Service Commission by either party, through an informal or formal complaint. Procedures for filing and processing these complaints are described in 4 CSR 240-2.070. The complaint procedures described in 4 CSR 240-2.070 apply only to retail electric power suppliers to the extent that they are regulated by the Missouri Public Service Commission.
UNION ELECTRIC COMPANY

By: ________________________________

Printed Name: ________________________________

Its: ________________________________

Date: ________________________________

CUSTOMER

By: ________________________________

Printed Name: ________________________________

Its: ________________________________

Date: ________________________________

RENEWABLE ENERGY (RE) SERVICE AGREEMENT
(For Non-Governmental Entities) (Cont'd.)

DATE OF ISSUE: July 16, 2018

ISSUED BY: Michael Moehn

DATE EFFECTIVE: August 15, 2018

NAME OF OFFICER: President

ADDRESS: St. Louis, Missouri
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*Indicates Addition.

DATE OF ISSUE July 25, 2019 DATE EFFECTIVE August 24, 2019

ISSUED BY Michael Moehn President St. Louis, Missouri

NAME OF OFFICER TITLE ADDRESS
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GENERAL RULES AND REGULATIONS

I. GENERAL PROVISIONS

A. AUTHORIZATION AND COMPLIANCE

These rules and regulations on file with the Missouri Public Service Commission contain the provisions under which the Company will supply electric service to customers. No employee or agent of the Company has the authority to amend, modify, alter, or waive the rules and regulations contained herein, or to bind the Company by making any promises or representations not authorized in these rules. In accepting service provided by Company, a customer agrees to comply with all applicable rules and regulations contained herein and any subsequent revisions or additions to such rules which are approved by the Commission.

B. DEFINITIONS

1. Billing Period
   The interval between consecutive meter reading dates, during which electric service is provided and billed for by Company.

2. Building
   A single structure roofed and enclosed within exterior walls, or portions of such a structure segregated from each other by fire walls accepted and approved by the governmental inspection authority having jurisdiction.

3. Commission
   The Public Service Commission of the State of Missouri, or successor of such Commission, having jurisdiction of the subject matter hereof.

4. Company
   Union Electric Company acting through its duly authorized officers, agents or employees within the scope of their respective duties and authorities.

5. Customer
   Any person, developer, firm, organization, association, corporation or other entity that applies for, or is responsible for payment for electric service from Company, or was responsible for payment for electric service and was disconnected under the provisions of these rules and regulations.

6. Customer Charge
   A fixed dollar component of a customer’s monthly bill for electric service which recovers a portion of the annual investment and operating costs incurred by the Company in making service available to an individual customer, e.g., service conductor and meter investment, meter reading, billing, customer accounting and customer service expenses.
GENERAL RULES AND REGULATIONS

I. GENERAL PROVISIONS (Cont'd.)

B. DEFINITIONS (Cont'd.)

7. Delivery Voltage
The voltage level provided by the extension of Company's distribution system to the point of delivery designated by Company on customer's premises, regardless of the voltage level at which such service may actually be metered.

8. Demand
The average rate of consumption of electric energy by a customer, measured in kilowatts (kilowatt-hours per hour), during a designated interval of time, normally 15-minutes for the Company's various rate classifications.

9. Demand Charge
A rate component of a customer's monthly bill for electric service, applicable to metered or otherwise established kilowatt demands, which recovers a portion of the Company's annual fixed investment and operating costs associated with office buildings, construction work's headquarters, labor and equipment, as well as a portion of the Company's investment and operating costs incurred in providing electric capacity capable of supplying customer's maximum demand at any time, e.g., local transformers, distribution lines and substations, and generation and transmission facilities.

10. Deposit
An amount of money or other guarantee acceptable to Company required for credit or other security purposes, advanced to Company by customer and held by Company until customer has established satisfactory credit and fulfilled all guarantee requirements.

11. Disconnection of Service
The cessation of electric service initiated by the Company due to customer's violation of one or more of the Company's applicable rules and regulations.

12. Distribution System
Company facilities, generally supplied from various points on the transmission system, e.g., substations, primary lines normally ranging from 69,000 to 2,400 volts, transformers, switchgear, manholes, pedestals, secondary lines ranging from 600 to 120 volts, services and metering.
GENERAL RULES AND REGULATIONS

I. GENERAL PROVISIONS (Cont'd.)

B. DEFINITIONS (Cont'd.)

13. Energy Charge
A rate component of a customer's monthly bill for electric service, applicable to metered or otherwise established electric energy consumption in kilowatt-hours, which recovers the variable operating costs incurred by the Company in supplying the customer's kilowatt-hours, e.g., fuel, fuel handling and purchased power expenses and variable production plant operating and maintenance expenses, as well as any additional non-variable costs not recovered in the customer and demand charges which may be applicable.

14. Kilowatt
The basic unit of customer electric power consumption (or demand) at any point in time, based upon the following relationship:

\[
\text{Kilowatts} = \frac{(\text{Volts} \times \text{Amperes} \times \text{Power Factor})}{1000}
\]

15. Kilowatt-hour
The basic unit of customer electric energy consumption, equivalent to an average of one kilowatt of power utilized for a period of one hour.

16. Load
The customer's electric power requirements in kilowatts, which must be supplied at various voltage levels on the Company's distribution system at the time and in the magnitude required by customer's operating characteristics.

17. Meter
A device or devices used for measuring the kilowatt-hours, kilowatts and other characteristics of a customer's electric consumption, as required by the applicable provisions of customer's rate.

18. Metering Voltage
The voltage level at which the service provided by the extension of the distribution system to the Company's designated point of delivery on customer's premises, is actually metered.

19. Net Revenue
Revenue received or to be received from customer for electric service provided by Company, exclusive of all sales or revenue related taxes.

20. Non-Standard Service
Service at voltages, frequencies or other conditions which are no longer offered by the Company for new installations.
GENERAL RULES AND REGULATIONS

I. GENERAL PROVISIONS (Cont'd.)

B. DEFINITIONS (Cont'd.)

21. Obstruction
   Obstruction of service shall include, but not be limited to, any act or instance of tampering with or bypassing the Company's meter, or any diversion of service, or any unauthorized use of or interference with the Company's provision of service situated or delivered on or about customer's premises.

22. Power Factor
   The ratio of a customer's real power requirements (kilowatts) to a customer's apparent power requirements (kilovolt amperes) or (volts X amperes)/1000.

23. Premises
   A contiguous tract of land, undivided by a public right-of-way, where all buildings and/or electric consuming devices located thereon are owned or occupied by a single customer or applicant for electric service, or where all electricity delivered thereto is utilized to supply one or more buildings and/or other electrical loads which the Company considers as components of a unified operation.

24. Primary Service
   Service provided to customer at a delivery voltage of 2,400 volts or higher.

25. Revenue Taxes
   Gross receipts, State sales, or other similar taxes applicable to bills rendered to customer by Company for electric service.

26. Seasonal Revenue
   Revenue derived from the application of the Company's seasonal energy and/or demand rates during the eight monthly billing periods of October through May for any given customer.

27. Secondary Service
   Service provided to customer at a delivery voltage of 600 volts or less.

28. Service Facilities
   Conductors, including conduit if applicable, which consist of the secondary voltage portion of the distribution system extended by Company or customer from the low voltage side of the primary/secondary voltage transformer to provide electric service to the point of delivery of the electric service, designated by Company for connection to an individual customer.
B. DEFINITIONS (Cont'd.)

29. Special Facilities
Facilities requested by customer, or otherwise specified by local law, which are in addition to, or to be substituted for, the standard distribution facilities which would normally be specified and provided by Company for the electrical load to be served.

30. Subdivision
A lot, tract, or parcel of land divided into two or more lots, plots, sites, or other divisions for use for two or more new residential buildings or the land on which is constructed new residential multiple occupancy buildings per a recorded plat thereof if such recordation is required by law.

31. Substation
Equipment at individual locations, which is designed for switching, changing or regulating the voltage of the Company's electrical supply system interconnected with the substation.

32. Tariffs
Documents filed with the Commission specifying the lawful rates and other charges, riders and rules and regulations under which the Company is required to provide service to its customers.

33. Temporary Service
Extensions by Company for non-permanent service such as, for example, construction or seasonal operations, Christmas tree lots, carnivals, various festivals, etc., or for service to any other customer not taking and paying for such service for the minimum number of consecutive billing periods specified as the initial term in the Company's applicable tariff schedule.

34. Termination of Service
The cessation of electric service at the request of the customer when not otherwise required by Company.

35. Transformer
An element of the Company's transmission or distribution system whose function is to change (normally reduce) the voltage of the electric conductors to which it is connected.

36. Transmission System
Company lines and substations, normally operating at voltages of 138,000 volts or higher, which transfer bulk electrical power from generating stations or other sources of supply to principal connection points on the Company's distribution system or to other interconnected utility systems.
GENERAL RULES AND REGULATIONS

I. GENERAL PROVISIONS (Cont'd.)

B. DEFINITIONS (Cont'd.)

37. Voltage

The potential in an electrical system, measured in volts, normally ranging from 120 to 69,000 volts on the Company's distribution system and 138,000 volts and higher on the Company's transmission system.

C. APPLICATION FOR SERVICE

Any customer requesting electric service within Company's authorized service area will provide Company with appropriate information regarding the quantity and characteristics of the anticipated electric consumption and location of the premises to be served. Appropriate personal customer identification may also be required at the request of the Company. Customer or customer’s agent shall select the rate, and any applicable riders, from the Company’s currently applicable rate schedules, for which customer qualifies at that time. All electric service will be supplied subject to the provisions of the Company's tariffs applicable to the service requested and these rules and regulations, provided customer agrees to the use of the service supplied by Company for the minimum term specified in the tariff applicable to customer's electric service. Customers desiring electric service for periods less than the term specified in the applicable tariff must contract for such service under Company's Rider D.

*The Company shall not be required to commence supplying service to a customer, or if commenced the Company may disconnect such service, if at the time of application such customer or any member of his household (who have both received benefit from the previous service) is indebted to the Company for the same class of service previously supplied at such premises or any other premises until payment of, or satisfactory payment arrangements for, such indebtedness shall have been made. Company will inform the prospective customer of the refusal of service in writing and maintain a record of the notice.

D. FORM OF SERVICE PROVIDED

1. Service to New Premises - Company will normally supply overhead electric service consisting of one single phase and/or one three phase secondary voltage service or one primary voltage service of adequate capacity to customer's premises, at a single delivery point designated by Company, unless more than one primary voltage electrical supply is specified by Company for engineering, economic or other reasons. Company may, however, agree to supply additional electrical supply facilities, requested by customer, when justified by valid Company engineering considerations, based upon the applicable provisions of Section III of these rules. Where such additional supply facilities are provided at customer's request after May 5, 1990, any multiple metering required to accommodate such additional facilities will not be cumulated for billing purposes.

*Indicates Change
D. FORM OF SERVICE PROVIDED (Cont'd.)

2. New Electrical Loads on Existing Premises - Existing customers receiving secondary service with new or additional electrical load requirements will normally be expected to continue to receive service from Company at or near the existing point of delivery of such service, originally designated by Company. However, where in Company's sole judgment it is unreasonable or impracticable for customer to be expected to receive service for such additional electric loads at the existing service delivery point, Company will supply such electrical requirements by a separate connection which shall be subject to all provisions of Company's line extension rules for extensions to new premises. In such cases of separate connections provided after May 5, 1990, separate billing shall apply with no provision or allowance for billing cumulation.

3. Combined Service - Separate or different customers may not purchase electricity on a combined basis as a single customer. However, the purchase of electricity provided to the same customer in two or more contiguous buildings not separated by another customer premises, or to the same customer in two or more buildings separated only by public property, may be combined and cumulated for billing purposes under the provisions of Company's Rider J and Rider H, respectively.

E. APPLICATION OF SERVICE CLASSIFICATION FOR BILLING

The application of the rates within the Company's various service classifications shall, for billing purposes, be based upon the form of the electric service being supplied by Company and whether such service is for residential or non-residential purposes. Residential and combination home and farm service shall be billed on the Company's Residential Rate. All other secondary voltage service to non-residential customers shall be billed under either of the Company's Small General Service or Large General Service Rates, as applicable, and primary voltage customers shall be billed under the Primary Service, as applicable, regardless of the manner in which such service is metered. Where metering is not located at the voltage level of the service being provided by Company, the applicable Rider C adjustment shall be applied to account for such differences. For delivery voltages of 34.5 KV or higher, the provisions Rider B shall apply.

F. COMPANY OBLIGATIONS

In supplying service to customers, Company shall furnish such service within a reasonable length of time dependent upon the availability of materials, labor and system capacity, and after all necessary easements, permits and approvals are obtained from the customer and other governmental and regulatory authorities having jurisdiction.
G. CUSTOMER OBLIGATIONS

In applying for electric service from Company, and receiving such service thereafter, customer shall:

1. Inform Company as to the size and characteristics of the load that is to be initially and thereafter served, the location of the premises, the date customer anticipates the need for said service and any special circumstances or conditions affecting the supply of electric service by Company.

2. When requested by Company, enter into a written contract which specifies the terms and conditions of the electric service being provided.

3. Furnish at no cost, upon Company's request, a right-of-way cleared of all trees or other obstructions for the extension of electrical supply facilities by Company. Said right-of-way easement, license or permit will grant Company continuing rights, thereafter, to trim trees and maintain the right-of-way in a condition which will not interfere with the delivery of electric service. In addition, any easements, licenses, or permits that may be deemed necessary by Company for such right-of-way shall be initially and thereafter furnished or paid for by customer.

4. Stake or establish the final grade of the route upon which the Company's electrical supply facilities will be located and stake or otherwise identify property boundaries, as required, prior to commencement of construction by Company.

5. Install customer-owned equipment in a condition acceptable to and approved by the governmental inspection authority having jurisdiction in the territory in which the customer's premises is located or, where no authority exists, in accordance with Company's standards and the requirements of the current edition of the National Electrical Code.

6. At all reasonable hours permit properly authorized agents of Company (and if requested by Company, in the presence of customer or his authorized representative), free and safe access to customer's premises for the purpose of inspecting customer's appliances and installations, clearing faults affecting the proper supply of electric service, examining, repairing or removing Company's meters or other property, reading of meters, making connections, disconnections, or reconnections of service, or for any other purpose deemed necessary by Company.

7. Be responsible for payment of all electric service used on customer's premises and for all requirements of the provisions of the Service Classification under which the electric service is provided, until such time as customer notifies Company to terminate service.
G. CUSTOMER OBLIGATIONS (Cont'd.)

8. Promptly notify and receive approval from Company of any significant changes in operation or equipment at customer's premises which might endanger or affect the proper functioning, or require modification, of Company's metering or other electrical supply facilities used in providing service to customer or cause a condition where such facilities would not comply with applicable laws, ordinances or codes.

9. Be responsible for any damage, alteration or interference with Company metering or other electrical supply facilities on customer's premises, by customer or any other party on such premises, whether authorized or unauthorized by customer.

10. Pay to Company the cost of any change or relocation of Company's service facilities or distribution system on or adjacent to customer's premises occasioned by significant changes at customer's premises in order to comply with proper operational requirements, clearance and other requirements of applicable laws, ordinances or codes.

11. Pay to Company the cost of any repairs, replacement, rerouting or relocation of any Company facilities necessitated by customer's negligence or failure to properly comply with any of the above obligations.

H. POWER FACTOR REQUIREMENTS

The Company's rates applicable to all customers are based upon a required average power factor of not less than 90% lagging during all periods of normal operation. Customer shall install corrective equipment necessary to meet this requirement on its side of the Company's meter. Such equipment shall be controlled and maintained by customer in order to avoid a leading power factor at any time and to avoid high voltage conditions during periods of light load. To enforce this power factor requirement, Company will install appropriate metering equipment for the monthly billing of a kilovar reactive charge as applicable for all Primary Service Rate customers. For all customers receiving service under other rate schedules, not voluntarily complying with this power factor requirement, Company may, where practical, install corrective equipment on its side of the meter and charge customer a lump sum amount for the current cost of such equipment and the cost of any subsequent additions to or replacement of such equipment whenever said future installations occur. Failure of customer to install such corrective equipment or to pay for that installed by Company currently, or in the future, shall be grounds for the disconnection of electric service.

DATE OF ISSUE May 31, 2013
DATE EFFECTIVE June 30, 2013

ISSUED BY Warner L. Baxter President & CEO St. Louis, Missouri
GENERAL RULES AND REGULATIONS

I. GENERAL PROVISIONS (Cont'd.)

I. OBJECTIONABLE CUSTOMER LOAD CHARACTERISTICS

All equipment installed by customer shall have operating characteristics which enable Company to maintain a satisfactory standard of service to both the customer being served and all other customers in the immediate area. In cases of high motor starting current, customer loads resulting in harmonic distortions or significant loads with wide and/or frequent fluctuations, etc., customer shall install, on its side of Company's meter, all corrective equipment necessary to enable Company to maintain the integrity of its electric distribution system. For all customers not voluntarily complying with this requirement, Company, where practical, may install corrective equipment on its side of the meter and charge customer a lump sum amount for the current cost of such equipment and the cost of any subsequent additions to or replacement of such equipment, whenever said future installations occur. Failure of customer to install such corrective equipment or to pay for that installed by Company currently, or in the future, shall be grounds for the disconnection of electric service.

J. CONTINUITY OF SERVICE

Company will make all reasonable efforts to provide the service requested on an adequate and continuous basis, but will not be liable for service interruptions, deficiencies or imperfections which result from conditions which are beyond the reasonable control of the Company. The Company cannot guarantee the service as to continuity, freedom from voltage and frequency variations, reversal of phase rotation or singlephasing. The Company will not be responsible or liable for damages to customer's apparatus resulting from failure or imperfection of service beyond the reasonable control of the Company. In cases where such failure or imperfection of service might damage customer's apparatus, customer should install suitable protective equipment.

K. REGULATORY AUTHORITIES

The tariff (i.e., rates, riders, rules and regulations) contained herein has been filed with and approved by the Missouri Public Service Commission and are subject to modification to conform with any revision filed by the Company and approved by the Commission. Where specific situations are not addressed by Company's rates, riders, or rules and regulations, the applicable Commission rules set forth in 4CSR, Sections 240-2 through 240-23 shall apply. Company may make written application to the Commission to seek the approval of a waiver of any specified portion of these filed tariffs for good cause shown.
GENERAL RULES AND REGULATIONS

I. GENERAL PROVISIONS (Cont'd.)

K. REGULATORY AUTHORITIES (Cont'd.)

Because Commission jurisdiction constitutes a legislative recognition that the public interest in proper regulation of public utilities transcends municipal or county lines, and that a centralized control must be entrusted to an agency whose continually developing expertise will assure uniformly safe, proper and adequate service by the Company, no regulations or ordinances of local governments shall be permitted to impose any requirements on the Company's provision of electric service (excepting local permit requirements for excavation and restoration of public rights-of-way, and except in specific instances where the providing of such service will itself cause a substantial and direct threat of injury to persons or property), which are different from or in addition to such Standard Rules and Regulations and the Commission's regulations, unless such requirements are approved by the Commission for uniform application throughout the Company's service area.

*L. REIMBURSEMENT OF COSTS NECESSITATED BY NEGLIGENCE

Where Company seeks to recover the cost to repair, replace, reroute, or relocate any Company facilities necessitated by another party's negligence, the charge will include the total cost of all labor and materials, easements, licenses, permits, cleared right-of-way, and all other incidental costs, including indirect costs. The indirect costs will include, where applicable, the cost of engineering, supervision, inspection, insurance, payments for injury and damage awards, taxes, AFUDC (Allowance for Funds Used During Construction), legal and administrative and general expenses associated with the affected facilities. The percentage used for indirect costs reflects the Company's historical indirect cost experience.

* Indicates Addition.
GENERAL RULES AND REGULATIONS

II. CHARACTERISTICS OF SERVICE SUPPLIED

A. GENERAL PROVISIONS

Company will designate and supply standard electric service, suitable for customer's electrical requirements, in the form of 60 Hertz alternating current at the various voltages indicated below to all customers within its service area.

B. SECONDARY SERVICE VOLTAGES

Company's standard single phase secondary voltage is 120/240 volts. Standard three phase, four wire, secondary voltages are 120/208 volts and 277/480 volts. Company may designate more than one service connection for engineering and operating reasons. These services will not be cumulated or otherwise combined for billing purposes. Company may, at its sole discretion, make three phase, three wire, secondary voltages of 240 volts or 480 volts available.

C. NUMBER OF SECONDARY VOLTAGES ALLOWED

Company will designate and supply not more than one single phase and/or one three phase secondary voltage to a premises, unless otherwise required to satisfy Company's engineering, operating, or economic considerations. Where large single phase customer loads are to be supplied, Company shall have the right to supply two or more single phase or a three phase, four wire, secondary voltage and to require customer to arrange his wiring so that the load can be divided equally among the two or three phases. Company may designate a three phase secondary service when single phase facilities are not readily or economically available to serve the customer.

D. COMPANY SUBSTATION ON CUSTOMER PREMISES - SECONDARY SERVICE

If in Company's opinion it is impractical or inadvisable to supply customer with the designated secondary service from Company's general distribution system, Company will install the substation or transformation required for such service in a space, area, room or vault. The Customer shall construct such space, area, room or vault in accordance with Company provided specifications. Company may use such transformation or substations for supplying service to other customers where it is technically and economically feasible to do so. Said area for Company's substation equipment shall be constructed by customer in accordance with Company's specifications and at no cost to Company. Only one substation will be installed by Company for such purposes at any premises and Company may utilize said substation for supplying service to other customers where it is technically and economically feasible to do so.
GENERAL RULES AND REGULATIONS

II. CHARACTERISTICS OF SERVICE SUPPLIED (Cont'd.)

E. PRIMARY SERVICE VOLTAGE

The primary voltages designated and supplied by Company will generally be limited to the voltage of Company's distribution lines in the geographic area which encompasses the premises of the customer to be served. Such three phase, four wire, primary voltages will be either 4160Y/2400 or 12470Y/7200 volts. Although not generally available, other primary voltages may be supplied in limited portions of the Company's service area under certain conditions designated by Company.

F. SERVICE AT A PRIMARY VOLTAGE

Company may designate and supply a three phase primary voltage to customer where any of the following conditions, pertaining to customers electrical requirements, exist:

1. The magnitude of the customer's load would require Company to install a primary to secondary voltage transformer which exceeds the rated capacity of the individual transformers normally purchased and installed by Company for such purposes.

2. Customer, at the time of Company's initial line extension for electric service, requests more than one point of delivery of the same three phase secondary voltage for supplying a single customer at the same premises.

3. An existing secondary voltage customer's expansion requires one or more single or three phase secondary voltage connections in addition to the secondary connections presently used for the supply of electric service to the same premises currently being served by Company.

4. Where in the Company's judgement the location of transformation and customer's service equipment are or would be inaccessible, subject to flood, contamination, etc., or potentially result in other anticipated operating difficulties.

5. Where in the Company's judgement the customer's load characteristics make such service advisable.

When Company requires or customer requests primary service to serve a premises and Company agrees to additional connections at primary or secondary voltages for Company's general engineering, operating or economic reasons, such additional connections will be provided under the provisions of the line extension rules in Section III. Company will designate the point of delivery of any connections provided hereunder. The service supplied through such additional connections installed at customer's request on and after May 5, 1990 will not be cumulated or otherwise combined, for billing purposes, with any other service supplied to customer.
II. CHARACTERISTICS OF SERVICE SUPPLIED (Cont’d.)

G. COMPANY SUBSTATION ON CUSTOMER PREMISES - PRIMARY SERVICE

If in Company's opinion it is impractical or inadvisable to supply customer with the designated primary service from Company's general distribution system, Company will install a substation on customer's premises to transform a higher delivery voltage to the designated primary service voltage. For said substation, customer shall provide, without cost to Company, a fenced space, area, room or vault, as required, an easement, access for Company personnel and equipment, transformer pads, grounding grid, secondary circuitry and supports and adequate ventilation in accordance with Company specifications. Only one substation will normally be installed by Company for such purposes at any premise and Company may utilize said substation for supplying service to other customers where it is technically and economically feasible to do so. The configuration of the service to these facilities will take into account Company engineering and operating requirements. The Company and the Customer will enter into appropriate agreements regarding assurances for procurement of equipment.

H. HIGH VOLTAGE NON-STANDARD SERVICE

Where customer requests for its purposes to be supplied at a voltage higher than the Company's standard primary service voltages, or Company specifies same due to operation of converters, electric furnaces or other equipment, customer shall own, operate and maintain its own substation designed in accordance with Company specifications and shall, in return for same, receive a discount from Company's applicable rate schedule as set forth in Rider B.

I. SERVICE TO DOWNTOWN ST. LOUIS UNDERGROUND DISTRICT

The Downtown St. Louis Underground District is the area bounded by Twenty-Second Street, Cole Street, Spruce Street, and the Mississippi River. The preferred form of service within this area is either a 13.8 kV, three phase, four wire primary radial supply, or a three phase, four wire secondary voltage connection in an indoor substation room provided by customer at or one level below grade and constructed in accordance with Company's specifications.

When new or increased load can be supplied from the existing 120/208 volt, three phase, four wire gridded network without major reinforcement required by Company, service will be provided in such limited amounts and subject to the line extension provisions.
I. SERVICE TO DOWNTOWN ST. LOUIS UNDERGROUND DISTRICT (Cont'd.)

Where in Company's judgement it is impractical or inadvisable to supply a customer's new or increased load from the gridded or spot networks, customer will be required to provide at no cost to the Company an indoor substation room at or one level below grade, constructed in accordance with Company's specifications, and transfer all electrical load to the new connection point. In such instances requiring an indoor substation, customer may, with the Company's approval, accept responsibility for all excess costs incurred by Company in continuing to provide all or a portion of customer's service from the gridded network solely for customer's benefit.

J. NON-STANDARD SERVICE

Changes in business practices and regulatory and legal requirements will, from time to time, result in the Company serving or billing a limited number of customers in a manner that is currently considered a non-standard form of service. Such non-standard service includes, but is not limited to, voltages, frequencies, metering equipment, metering locations, electrical distribution system supply facilities and configurations, and master and cumulated meter billing situations that are prohibited by current Commission rules and Company tariffs for application to new customers. The continued provision of such non-standard service and billing is limited to the premises presently served by such facilities. These facilities may only be relocated, expanded or enhanced for Company’s engineering reasons.

In order to minimize and phase out the number of non-standard service installations and billing applications on its system, Company will, unless otherwise provided for above, discontinue providing any such non-standard service to a premises when a) the premises is remodeled or rehabilitated in any such manner that requires new, modified, enhanced or relocated electrical distribution supply facilities from the Company, or b) the premises become an inactive account for a consecutive period of six (6) months or more. Any premises meeting the conditions of (a), or (b) herein shall be considered to have been constructed after June 1, 1981, for application of 4 CSR 240-20.050 of the Commission’s metering requirements and related Sections Rent Inclusion and Resale of Service, which are a part of the Billing Practices Section of Company’s General Rules and Regulations.
GENERAL RULES AND REGULATIONS

III. DISTRIBUTION SYSTEM EXTENSIONS

A. APPLICABILITY

Permanent electric service of the form and character described in Section II of these rules will be supplied for permanent year round use to Customers within the Company's authorized service area, by extension and/or modifications or enlargements to Company's electric distribution system, in accordance with the provisions set forth in this Section III. Company's extension shall be considered as completed when said extension is adjacent to the premises to be served and Company is prepared to connect service thereto.

B. DEFINITIONS

Extension Allowance: An economically justifiable investment which may be made by the Company for distribution line extensions, service extensions, or a combination thereof, and uses the following formula:

\[
\text{Extension Allowance} = \frac{\text{Marginal Revenue}}{\text{Cost of Service Factor}}
\]

Marginal Revenue: The estimated average annual revenue measured over the first 5 years of life associated with the line extension project, less incremental energy, capacity, and marginal network and infrastructure support cost.

Cost of Service Factor: Comprised of the Company's cost of capital, cost of depreciation, property tax, state and federal income tax and insurance. The factor is applied to the Marginal Revenue to determine Ameren Missouri's Extension Allowance, and is determined from Ameren Missouri's most recent rate case proceeding and/or through a periodic review conducted by the Company.

Extension Charge: That portion of the total Extension Cost which is not covered by the Extension Allowance and for which the Customer is responsible.

\[
\text{Extension Charge} = \text{Extension Cost} - \text{Extension Allowance}
\]

Extension Cost: The estimated installed cost of any line extensions and/or modifications and enlargements of the Company's distribution system, which will include the total cost of all labor and materials, easements, licenses, permits, cleared right-of-way and all other incidental costs, including indirect costs. The indirect costs will include, where applicable, the cost of engineering, supervision, inspection, insurance, payments for injury and damage awards, taxes, AFUDC (Allowance for Funds Used During Construction), legal and administrative and general expenses associated with the extension of the Company's distribution system. The percentage used for indirect costs reflects the Company's historical indirect cost experience. The Company's Extension Cost is based on normal, pre-construction and unobstructed conditions. Cost estimates relative to Extension Allowances or Customer contributions are based on the conditions prevailing at the time the estimate is made. Additional costs due to changes in surface conditions or unanticipated subsurface conditions...
B. DEFINITIONS (Cont'd.)

conditions occurring after the initial Extension Cost estimate, will be covered by the Company to the extent there is available remaining Extension Allowance. Should the unanticipated additional Extension Cost cause the new Extension Cost to exceed the Extension Allowance, the Customer will be responsible for an additional Extension Charge resulting from the updated Extension Cost. Company may install a distribution extension of greater length or capacity than initially required for the Customer requesting service, due to general engineering, economic, operating, or reliability reasons, in which case the additional cost of such increases in distribution system length or capacity shall not be included in the cost of the extension applicable to Customer.

C. DISTRIBUTION EXTENSION LENGTH

The length of the extension of the distribution system will be the distance along the installation route designated and utilized by Company in making said extension. Such distance shall be measured from the Company's designated point of delivery on Customer's premises to the nearest point of connection to Company's existing distribution system having like phase and voltage as that being supplied to Customer's premises.

D. POINT OF DELIVERY OF SERVICE

The point of delivery of service, at which Company's distribution facilities connect to Customer's electrical facilities without regard to meter location, shall normally be at the following electrical connection points:

1. Overhead Service
   a. Secondary Voltage - All Customers - At Customer's service entrance conductors, i.e., weatherhead or bus duct outlet.
   b. Primary and Higher Voltages - At the line-side dead end attachment on Customer's meter pole, or on the bus structure of Customer's substations, or at the low side terminals of a Company substation on Customer's property.

2. Underground Service
   a. Secondary Voltage-Residential - At the line-side meter terminals for Company owned services; on the pole, connecting to Company's overhead distribution system or Company's padmounted transformer or pedestal, in the case of Customer owned cables.
   b. Secondary Voltage-All Other Customers - At the connection of Customer's cable to the low side terminals of Company's padmounted transformer or pedestal or Customer provided junction box.
   c. Primary and Higher Voltages - At the line-side terminals in metal-clad switchgear, or at an agreed upon point on or in a Customer owned substation.
E. EXTENSIONS TO NON-RESIDENTIAL CUSTOMERS

Company will provide a distribution extension to non-residential premises at no cost to Customer provided the estimated Extension Allowance equals or exceeds the estimated Extension Cost of the portion of required extension applicable to Customer. Where the Extension Cost is greater than the Extension Allowance, the Customer will be required to pay the Extension Charge in advance prior to the commencement of construction by Company.

At the Company's sole discretion, where permanency of service cannot be reasonably assured in order to predict the revenue stream from the Customer or the revenues cannot be projected with sufficient certainty, the Customer may be required to pay to Company in advance of Company's construction all of the estimated Extension Cost as an Extension Charge. Where the entirety of the Extension Cost is required upfront, after a 12 month period beginning with the Customer's fourth billing cycle, the Extension Charge will be recalculated using actual revenues to determine if the customer is eligible for a refund. If applicable, a refund will be issued for the difference between the original Extension Charge and the Extension Charge recalculated on the actual revenue.

1. Non-Residential Underground Extensions

Where underground extensions are requested or required by law the following provisions apply:

a. Point of Delivery of Service

Company will designate to Customer the point of delivery of the required electric service and Customer shall be responsible for the installation, maintenance, replacement, enlargement or relocation of all underground electric service facilities, other than metering, to the Company's designated delivery point.

b. Specifications

Customer will install, maintain, replace, enlarge, or relocate all underground conduit, foundations, manholes, service boxes, transformer pads, switchgear pads, and other surface and sub-surface structures to meet Company specifications which are necessary to contain and/or support Company's electrical primary and secondary cables and equipment within the boundaries of the development. Maintenance, replacement, enlargement, or relocation of such facilities will be done by the Company at the Customer's expense once they contain or support energized cables or equipment. Company will provide standard switchgear pads and transformer pads to Customer for installation in order to maintain uniformity and quality control of these items. Customer is to provide Company open access to said
E. EXTENSIONS TO NON-RESIDENTIAL CUSTOMERS (Cont'd.)

1. Non-Residential Underground Extensions (Cont'd.)
   
   b. Specifications (Cont'd.)

   facilities, and when necessary, remove obstructions, improvements, decorative structures, etc., when Company requires such access for maintenance, replacement, enlargement, etc. When Company requests additional conduits or larger structures for facilities that will serve Customers beyond the boundaries of the development, Company will pay the incremental or extra cost of those additional facilities.

   Non-residential line extension agreements executed prior to January 1, 2019 shall remain in effect. Agreements executed after January 1, 2019 shall be in accordance with the terms of this Section III., Distribution System Extensions.

F. OVERHEAD EXTENSIONS TO INDIVIDUAL RESIDENTIAL CUSTOMERS

Company will provide, at no cost, single-phase overhead electric service consisting of a meter, service drop, transformation capacity and up to 1,000 feet of additional distribution facilities, as required, no more than 500 feet of which shall be extended on private property, to the premises of an individual residential Customer not located within a residential subdivision. The portion of any distribution extension applicable to Customer in excess of the aforementioned allowance shall be paid for by Customer, in advance of construction, at the Company's then current standard construction cost per foot of single phase overhead extensions.

G. OVERHEAD EXTENSIONS TO RESIDENTIAL SUBDIVISIONS

1. Single-Family Residences

   Company will provide single-phase overhead electric service consisting of meters, services, transformation capacity and all additional facilities required for the distribution of electricity, through and within the boundaries of a residential subdivision for which permanent electric service has been requested by Customer/developer to two or more residential buildings, at no cost to the Customer/developer, excluding subdivisions covered by the Large Lot Subdivision provisions outlined below. Company will also provide additional distribution facilities of up to 150 feet per subdivision lot, as required, to extend its existing distribution system to the boundaries of the subdivision site, at no cost to Customer/developer. For any permanent electric distribution extension facilities to or within the subdivision, in excess of the aforementioned allowances, Customer/developer shall make a deposit in advance of construction, based upon the Company's then current standard construction charges for such facilities, which deposit may be refundable in whole or in part. Semi-annually thereafter, Company will compare its standard
G. OVERHEAD EXTENSIONS TO RESIDENTIAL SUBDIVISIONS (Cont'd.)

1. Single-Family Residences (Cont'd)

overhead distribution cost per lot with the annual net revenue per lot estimated to be received from the additional homes within the subdivision having been connected with electric service and permanently occupied for residential dwelling purposes, after receiving notification of such connections from Customer/developer. Any estimated annual net revenue per lot, from homes added during each review period, in excess of Company's standard per lot overhead costs shall be refunded, without interest, to Customer/developer up to the total amount of the advance deposit actually made by Customer/developer. Such refunds will be made at semi-annual intervals from the date the deposit was received by Company, with any amounts remaining unfunded after five years being retained by Company and credited to the Company's appropriate plant account.

a. Large Lot Subdivisions

In addition to meeting the criteria described in this section F.1. above, in subdivisions where the average lot size exceeds 100,000 square feet, the Company will assess excess per lot footage charges for the amount that the average frontage footage exceeds 500 feet. In addition, for developments where the average lot size exceeds 100,000 square feet, the Company will also assess excess footage charges on individual lots for overhead services of more than a single span or underground services of more than 250 feet. Said charges will be payable in advance of construction and not be subject to refund.

2. Multiple Occupancy Dwellings

Multiple occupancy buildings consist of structures which stand alone, enclosed with exterior walls or are segregated from adjoining structures by fire walls, and are designed for permanent occupancy as two or more single-family residences. Extensions to subdivisions consisting of multiple occupancy dwellings shall be made in accordance with the provisions of this section G, applicable to single-family residences, utilizing an allowance of 50 feet per dwelling unit for distribution facilities beyond the subdivision boundaries, and applying a 0.60 occupancy factor to the annual net revenue estimated to be received from each multiple occupancy dwelling unit.
GENERAL RULES AND REGULATIONS

III. DISTRIBUTION SYSTEM EXTENSIONS (Cont'd.)

H. OVERHEAD EXTENSIONS TO INDIVIDUAL MOBILE HOMES AND MOBILE HOME PARKS

1. Individual - Other Than Mobile Home Parks
Where a mobile home is permanently located on real property owned or
leased by the mobile home occupant, utilized as a permanent dwelling unit,
connected to piped water and sewage facilities, and is in excess of 400
square feet in size, Company shall extend its electrical distribution
system to the mobile home service entrance equipment on the same terms and
conditions indicated in this Section III for extensions to individual
residential or non-residential Customers, as applicable. Extensions to
individual mobile homes not meeting the qualifications specified in this
paragraph shall be made in accordance with the provisions of Rider D -
Temporary Service.

2. Mobile Home Parks
Where a mobile home park owner/operator provides a designated lot with
water utility and sanitary facilities for mobile homes in excess of 400
square feet in size intended for use as residential dwelling units,
Company will extend its distribution system to each mobile home lot on the
same terms and conditions indicated in this Section III for extensions to
residential subdivisions. The billing for electric consumption at any
common facilities installed within the mobile home park for the benefit of
all the mobile home park occupants shall be to the park's owner/operator.

3. Recreational Vehicle Parks
Company will extend its electrical distribution system to a single
delivery point to provide service to campgrounds and parks which dedicate
at least 80% of their space for recreational vehicle sites. Such
extensions will be made under the same terms and conditions indicated in
this Section III as applicable to non-residential Customers.
I. EXTENSIONS FOR LIGHTING SERVICE

The Company's lighting tariffs are based upon the required distribution facilities being in place and no additional extension required thereof. Therefore, the cost of any extension of facilities required for lighting service shall be paid by Customer to Company in advance of any construction of distribution facilities installed solely to supply electrical service for lighting.

J. UNDERGROUND EXTENSIONS

1. Individual Residential Extensions

Where an underground extension is requested by an individual residential Customer or required by law, Company will estimate the cost of equivalent overhead and underground extensions, and Customer will pay a non-refundable contribution to Company, in advance of construction, for any excess cost of making the underground extension. The Company's rules for overhead extensions to individual residential Customers shall apply to Company's estimated underground extension costs. Customer, at his option, may install a direct buried service cable to be owned and maintained by Customer, or Company will install, own, operate and maintain the service cable in Customer's conduit, installed by Customer in service trench in accordance with Company specifications to a delivery point designated by Company. Where Company determines that primary and/or secondary voltage facilities are necessary to provide the requested service, the Customer will install the conduit system, consisting of conduit, manholes, pulling boxes, transformer pads, switchgear pads, pedestal bases and other required subsurface structures to a point designated by Company. All such materials will be provided by Company for Customer pick-up at a location designated by the Company and included in the cost for underground service. Company will install, own, operate and maintain the cable in Customer's conduit system. Where applicable, the underground extension may be provided by Company in accordance with the rules applicable to overhead extensions, Section III.F.

2. Residential Subdivision Extensions

Where an underground distribution extension for permanent electric service in a residential subdivision is requested to two or more single-family residential buildings, multiple occupancy units, or mobile homes, by an applicant/developer, or is required by law, applicant shall first satisfy the Company's applicable rules for overhead extensions to residential subdivisions, Section III.G. Thereafter, applicant shall contract for and satisfy the requirements specified in this section for obtaining an underground residential distribution extension.
J. UNDERGROUND EXTENSIONS (Cont'd.)

2. Residential Subdivision Extensions (Cont'd.)
   
a. Requirements of Applicant/Developer

   Applicant will initially provide, at its cost, all trenching and the installation of a complete conduit system as its contribution to the Company's underground distribution system within a residential subdivision. The conduit system installation by applicant will consist of conduit, manholes, pulling boxes, transformer pads, switchgear pads, pedestal bases and other required subsurface structures. All such materials will be provided by Company at no cost to applicant, excluding subdivisions covered by the Large Lot Subdivision provisions below. Applicants for electric service to individual single family homes shall, subsequently, provide and install service trench and service conduit. All installations will be in accordance with Company's design criteria and specifications, the National Electrical Safety Code and any other applicable codes.

b. Requirements of Company

   The Company's distribution system within the subdivision will consist of all primary and secondary voltage and service cables installed by Company, including street lighting circuitry and the conduit system initially installed and contributed by applicant, except for service lateral conduit. Street light circuitry and construction temporaries, installed by Company concurrent with other primary and secondary distribution system facilities, shall be provided by Company at no charge to applicant. Thereafter, except for service lateral conduit, Company shall own, operate and maintain the entire distribution system within the subdivision, including both the portion installed by Company and that installed and contributed by applicant.

c. Options of Applicant

   At the request of applicant, Company will, on a per lot or per dwelling unit basis, estimate its distribution system extension cost within the subdivision and annual net revenue, exclusive of gross receipts taxes, anticipated to be received from such homes or dwelling units connected within the subdivision.
GENERAL RULES AND REGULATIONS

III. DISTRIBUTION SYSTEM EXTENSIONS (Cont'd.)

J. UNDERGROUND EXTENSIONS (Cont'd.)

2. Residential Subdivision Extensions (Cont'd.)

d. Distribution Lines Preserved

When Company requires that an overhead or underground distribution line be installed, or an existing overhead line be relocated to underground on the perimeter of the development, or accepts another alternative route thru the subdivision, for engineering and/or operating reasons, applicant shall install Company supplied conduit per Company specifications in accordance with III.J.2, and Company shall be given a reasonable amount of time to construct such underground or overhead facilities before affected lots are sold.

e. Right-of-Way and Easements

Company shall construct, own, operate and maintain the underground distribution system, within the subdivision, only on or along public streets, roads, alleys and highways which Company has the legal right to occupy, and on or along private property across which rights-of-way and easements satisfactory to Company have been received at no cost to or without condemnation by Company. Right-of-way and easements within the subdivision which are satisfactory to Company, including those which may be required for street lighting, must be furnished by applicant in reasonable time to meet Company's construction and service requirements. Prior to commencement of construction by Company, such rights-of-way and easements must be cleared of trees, tree stumps, and other obstructions, and graded level, perpendicular to the length of the easement and to within six inches of final grade by applicant, without cost to Company. If the grade is changed subsequent to construction of the distribution system in such a way as to require relocation or reconstruction of any of the underground facilities, the estimated cost of all such work required shall be paid by applicant or by its successor.

f. Joint Utility Construction

Company will endeavor to coordinate its construction work with that of applicant and other utilities whenever possible in an effort to keep the overall cost of providing the underground electric distribution system as low as possible. Company may, to any extent practicable, become a party with applicant and/or other utilities to agreements involving trenching arrangements mutually beneficial to each party and the installation of electric cables in the same trench with the cables and/or pipes of other utilities, care being taken to conform to all applicable codes and utility specifications.
J. UNDERGROUND EXTENSIONS (Cont'd.)

2. Residential Subdivision Extensions (Cont'd.)

   g. Designated Service Delivery Points

   Feeder lines and service lines shall be installed by Company along the most practical route that will avoid known or anticipated future construction on applicant's property and permit a safe and economical installation. The normal meter location point to a single family building shall be on the side or front of the house proper, within ten (10) feet of the corner of the house proper, nearest the direction from which the service line enters the property to be served. In instances where Company and applicant agree that the extension of service to the normal meter location is impractical due to: a) rock, grade, or other soil limitations; or b) physical circumstances of the home which restrict meter accessibility for reading and testing; or c) physical circumstances of the home requiring meter installation at a height of six (6) feet six (6) inches or greater above final grade on the front of the house proper; or d) service entrance equipment to be installed in a garage, said meter location point shall be at the next nearest location designated by Company which will alleviate said impracticability while minimizing the additional length of service cable required to be installed and avoids areas of the home which may require future relocations of service lines and/or meter equipment. A meter location on the rear will only be permitted in those instances where the designated side of the house proper is not physically available for a meter attachment. A service connection at other than the above designated meter location point is not permitted unless specifically approved by Company for engineering or other reasons. Where practical, the service connection to a multiple occupancy building of two dwelling units shall be a single service line to a two (2) meter location acceptable to Company. The service connection to a multiple occupancy building of three (3) or more dwelling units shall be a service line or lines to a minimum grouping of meters at locations acceptable to Company.

   h. Protection of Company Facilities

   Applicant shall protect the facilities of Company installed on applicant's premises and shall, unless otherwise authorized by the Company, permit no one but Company's employees or its authorized agents to handle same. In the event of loss or damage to facilities owned by Company arising out of carelessness, negligence, or misuse by applicant or its authorized agent, the cost of such loss of repairing such damages shall be borne by applicant.
GENERAL RULES AND REGULATIONS

III. DISTRIBUTION SYSTEM EXTENSIONS (Cont'd.)

J. UNDERGROUND EXTENSIONS (Cont'd.)

2. Residential Subdivision Extensions (Cont'd.)
   i. Access by Company Employees or Agents
      Applicant shall permit access to the Company's employees, or other
      authorized agents, for the purpose of inspecting, modifying,
      maintaining, or operation of Company's facilities, at all times.

   j. Company Rights and Construction Standards
      Company shall own, operate and maintain the conduit system initially
      installed and contributed by applicant, all primary and secondary
      underground feeder lines, underground service lines installed in
      Customer owned conduit, and shall have the right to install pad-
      mounted transformers, above ground cable switching enclosures and
      service pedestals in the subdivision.

   k. Street Lighting Facilities
      Street lighting facilities installed in any subdivision shall be
      contracted for under the appropriate tariff of Company applicable to
      said installation.

   l. Large Lot Subdivisions
      The above provisions regarding Residential Subdivision Extensions –
      Requirements of Applicant/Developer is limited to subdivisions having
      an average lot size of 100,000 square feet or less. Where average
      lot size does exceed 100,000 square feet, the Company will assess
      excess per lot footage charges for the amount that the average
      frontage footage exceeds 500 feet. In addition, for developments
      where the average lot size exceeds 100,000 square feet, the Company
      will also assess excess footage charges on individual lots for
      overhead services of more than a single span or underground services
      of more than 250 feet. Said charges will be payable in advance of
      construction and not be subject to refund.

K. EXTENSIONS REQUESTED IN ADVANCE OF PERMANENT SERVICE

Where Customer requests Company to complete all or a portion of an extension in
advance of when said installation is required to provide permanent electric
service, and Company agrees to do so, Customer shall pay for such advancement
of facilities at the monthly rate of 2.0% of the estimated installed cost of
the extension being advanced. Such payments shall be non-refundable and shall
continue until the permanent metering for the premises is installed by Company
and utilized to provide permanent service thereto.
GENERAL RULES AND REGULATIONS

III. DISTRIBUTION SYSTEM EXTENSIONS (Cont'd.)

L. MODIFICATION OR ENLARGEMENT OF DISTRIBUTION SYSTEM

Modifications or enlargements of Company's distribution system associated with additional electrical load of existing non-residential Customers shall be performed at no cost to Customer provided the estimated Extension Allowance exceeds the estimated Extension Cost from the proposed distribution system modifications or enlargements. Where the estimated Extension Allowance is less than Company's estimated Extension Cost from the proposed modification or enlargement costs, an Extension Charge may be required prior to the commencement of construction by Company.

Where modifications or enlargements of Company's distribution system are performed at the request of any existing Customer and no additional Marginal Revenue is anticipated therefrom, Customer shall pay, in advance, the total estimated costs associated with such changes.

M. RELOCATION OF THE DISTRIBUTION SYSTEM

Company may, at its sole discretion, upon Customer's request, relocate any distribution facilities providing service to Customer and/or other parties to a right-of-way acceptable to Company, on or off Customer's premises, following the payment by Customer of the Company's total estimated cost of said relocation. Additionally, at the Company's discretion, it may relocate any distribution facilities based upon safety, reliability, or operational needs at the cost of the Company.

In the presence of physical conflicts associated with any new construction or enlargement of Customer's premises or electrical load, Company may, at its sole discretion, upon Customer's request, relocate any distribution facilities to a right-of-way acceptable to Company on or off Customer's premises, following the payment by Customer of the Company's estimated net cost of relocating its distribution facilities. The net cost of relocation referred to herein excludes any costs estimated by Company to be associated with the supply of any additional electrical requirements of Customer, absent the relocation of any distribution facilities.

When Company agrees to relocate existing overhead facilities with an underground installation, the Customer will be responsible for all costs associated with the undergrounding of facilities including spare conduits, manholes, and other structures or equipment required to replace the to-be-vacated overhead right-of-way considering present and future needs as determined by Company.
N. SPECIAL FACILITIES

1. General

Where Customer requests and Company agrees to install distribution facilities not normally contemplated for installation, or otherwise provided for, under Company's standard rate schedules, Company may at its option provide such facilities under the provisions of this section. Examples of facilities which fall into this category of "special" include, but are not limited to, duplicate or additional service facilities, excess transformer capacity or other distribution facilities, and facilities necessitated by special legal or engineering requirements.

2. Payments by Customer

Where Company agrees to supply distribution facilities under the provisions of this paragraph in lieu of other alternatives available to Customer, Customer shall pay to Company a one-time contribution equal to the total additional costs incurred by Company in supplying such facilities. Customer shall also pay to Company an additional one-time contribution equal to ninety percent of such total additional costs for the present value of the Company's projected operations, maintenance and subsequent replacement cost of such facilities, which shall be continuously owned and maintained by Company. All charges payable to Company shall be non-refundable and due in advance of construction. Such payments by Customer shall be in addition to any payments required for electric facilities provided under the Company's standard line extension rules or other tariff charges.

3. Supply and Billing Standards

Company will designate the point of delivery of electric service relative to the installation of any additional facilities provided to Customer hereunder and the service supplied through such facilities installed on and after May 5, 1990 will not be cumulated or otherwise combined, for billing purposes, with any other service supplied to Customer. When total or partial replacement of any special facility installation is required, such revision will be made by Company at no cost to Customer. Any enlargement of such previously installed facilities requested by Customer shall be made in accordance with Company's standard line extension rules. Following any such replacement, or enlargement, all separately installed special facility connections shall be billed as provided herein without application of monthly special facility charges, and maintained by Company in the same manner as Company's standard line extension facilities serving other Customers.
GENERAL RULES AND REGULATIONS

III. DISTRIBUTION SYSTEM EXTENSIONS (Cont'd.)

N. SPECIAL FACILITIES (Cont'd.)

4. Installations Prior to July 23, 1992

Customers utilizing special facilities installed prior July 23, 1992 shall continue to pay the present charges and form of billing applicable to all special facilities connections until any total or partial replacement or enlargement of such facility is required. Thereafter, such revisions will be made by Company and the subsequent metering and billing of all services provided over such newly installed facilities standardized, as provided in paragraph 3 of this section, Supply and Billing Standards.
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<thead>
<tr>
<th><strong>UNION ELECTRIC COMPANY</strong></th>
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<tr>
<td>Moose P.S.C. Schedule No. 6</td>
<td>1st Revised Sheet No. 125</td>
</tr>
<tr>
<td>Cancellation Moose P.S.C. Schedule No. 6</td>
<td>Original Sheet No. 125</td>
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**APPLYING TO** Missouri Service Area

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**DATE OF ISSUE** March 1, 2019

**DATE EFFECTIVE** April 1, 2019

**ISSUED BY** Michael Moehn, President St. Louis, Missouri

**NAME OF OFFICER**

**TITLE**

**ADDRESS**

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THIS SHEET RESERVED FOR FUTURE USE
GENERAL RULES AND REGULATIONS

IV. MEASUREMENT OF SERVICE

A. METERING STANDARDS

Company will furnish and install only one main watthour meter and one main instrument or method of demand measurement (normally measuring kilowatts in periods of fifteen consecutive minutes), to register all energy and power of the same type of service supplied to a given customer at any individual premises unless accuracy of measurement, engineering, safety reasons, economic reasons, rates, or legal provisions require the installation of more than one meter.

For secondary service customers receiving both single and three phase service, one single and one three phase energy and demand meter set will be furnished by the Company where required by applicable tariffs.

B. ADDITIONAL METERING

Company, at its option, may install for billing purposes, to the extent Company considers feasible, additional meters in excess of those specified in paragraph A above, for customer's engineering or economic reasons. Customer shall pay Company for such excess meters monthly with the bill for service at the following rates:

a. Standard single phase secondary A.C. watthour meters @ $2.25 per meter per month

b. Standard three phase secondary A.C. watthour meters @ $6.75 per meter per month

c. Current transformers (C.T.) where required by size of load @ $2.50 per C.T. per month

d. Any special meter or meter equipment, such as primary and switchboard type meters @ 2.00% per month of the cost of such meter or equipment
GENERAL RULES AND REGULATIONS

IV. MEASUREMENT OF SERVICE (Cont’d.)

C. MULTIPLE METERED ACCOUNT BILLING

Where more than one meter is installed for metering the premises of an individual account in accordance with paragraphs A and B above, the sum of each watthour meter's kilowatt-hour usage and each demand meter's individual maximum non-simultaneous kilowatt demand will be used for billing purposes. Under all circumstances involving multiple metered accounts, any alternating current watthour meter registering zero usage in a given billing month shall be subject to the monthly charge for three phase meters, specified in paragraph B of this Section IV, during each month of zero usage.

D. METER INSPECTIONS AND TESTING

Company's meters shall be inspected and tested for accuracy in accordance with applicable Missouri Public Service Commission Rules. If customer requests a meter test within 12 months of any previous testing of such meter, a standard charge based on meter type will be assessed for meters found to have an average meter error of 2 percent or less.

* E. REMOTE METER READING OPT-OUT

Customers receiving Residential Service have the option of refusing the installation of remotely read metering or requesting the removal of previously installed remotely read metering. In such instances, non-standard metering equipment will be installed that requires a manual meter read. Customers requesting non-standard metering service after April 1, 2017 will be charged a one-time setup charge of $150.00 and a monthly recurring Non-Standard Meter Charge of $45.00 per month.

* Indicates Change.
GENERAL RULES AND REGULATIONS

V. BILLING PRACTICES

*A. MONTHLY BILLING PERIODS

Each customer billed by the Company for an entire calendar year will be billed for twelve (12) periods of approximately thirty (30) days each. For any given customer, the first five (5) and the last three (3) billing periods of each calendar year will be billed on the Company's applicable winter rate schedule. The sixth (6th) through the ninth (9th) billing periods of each calendar year will be billed on the Company's applicable summer rate schedule. Each customer billed by the Company for an entire calendar year will, thus, receive eight (8) billings based upon the Company's winter rates and four (4) billings based upon the Company's summer rates.

A customer exercising Section V.O. Residential Due Date Selection may result in either a longer or shorter period between meter readings for the first bill after the election. (This section reflects a variance from Rules 4 CSR 240-13.015(1)(C) and 4 CSR 240-13.020(6) granted by Commission in Case EE-2019-0385.)

B. COMBINATION BILLING OPTION

Customers regularly being the responsible party for service at ten or more premises may submit a written request for a single bill with a due date, designated by the Company, for the bills for all such premises. Such single bill will have an attached statement of charges for each account.

C. INACCESSIBLE METERS

Where a meter is inaccessible to the meter reader during scheduled working hours on repeated occasions, such that a customer must arrange for meter reading by appointment to avoid discontinuance of service, the customer may at customer's expense have the meter relocated to an accessible location, if feasible.

D. CUSTOMER READINGS

The Company will provide all customers the opportunity to read and report monthly energy usage so long as such reports are regular and accurate. The Company will provide pre-addressed, post-paid postcards for this purpose upon request. At least annually Company will attempt to obtain an actual meter reading to verify the accuracy of customer reading and customer must grant Company access for obtaining such reading. Such attempts shall include personal contact to advise the customer of the regular meter reading day. The Company shall offer appointments during normal working hours Monday through Saturday. Nothing in this provision precludes the Company from obtaining regular meter readings where it is feasible to do so.

*Indicates Change.
E. ESTIMATED BILLING

*1. Estimated Bill

An estimated reading or a reading furnished by the customer will be used to compute an estimated bill for customer’s electric service where it is not feasible to obtain regular meter readings or when conditions beyond the control of the Company, such as weather emergencies, work stoppages, and inability to gain access to the meter prevent obtaining an actual meter reading or when an inaccurate reading results from equipment or mechanical failure where the Company could not reasonably detect such failure. If the Company is unable to obtain an actual meter reading for three (3) consecutive months, the residential customer shall be advised that bills being rendered are estimated, may not reflect actual usage, and customer may read and report electric usage to the Company on a regular basis. An estimated reading may also be used to compute an estimated bill when an inaccurate or unreliable reading results from human or billing system error, from failure of a remote meter reading device to transmit a reliable reading, or as a result of a failure to detect and verify usage due to a meter with a status of vacant; except Company may not issue an estimated bill due to any of these three (3) stated conditions for more than three (3) consecutive months.

Company shall maintain accurate records of the reasons for an estimated bill and all efforts made to secure an actual reading and clearly note on the bill that it is based on estimated usage.

2. Estimated Initial and Final Bills

Meter readings for initial and final bills may be estimated if the customer's notification is received too late to obtain an actual meter reading on the date that the customer desires to have service commenced or terminated (the "customer's responsible date"). If a meter reading is obtained within three days of the customer's responsible date, no other reading shall be deemed necessary. If customer notification is received up to two workdays after the customer's responsible date, an attempt to obtain an actual meter reading will be made within the next two workdays. Readings obtained in either manner will be adjusted to the customer's responsible date. No final bill will be rendered where the amount of the bill for electric usage is less than $1.00, except for those accounts where a customer deposit is being refunded to customer.

*Indicates Change
E. ESTIMATED BILLING (Cont'd.)

*3. General Estimating Procedures

In estimating readings, Company will generally use the identical use during the corresponding month of the prior year. If the customer did not use service at this location at that time, the estimated use is the identical use during the preceding month of the current year. Exceptions to the general rule will be basically refinements for initial bills, final bills, bills of electric space heating customers during the first year of service, etc.

Bills rendered for electric service in months in which meters are not read will be subject to all rules and regulations applicable to bills based on actual meter readings.

Where bills are rendered for periods of use in excess of or less than the period provided for under paragraph A, Monthly Billing Periods, all components of the rate will be prorated.

*F. TRANSFER OF BALANCES

In the event of disconnection or termination of service at a separate customer metering point, premise or location, Company may transfer any unpaid balance to any other service account of the customer having a comparable class of service.
G. BILLING ADJUSTMENTS

1. Residential

For all residential billing errors, the Company will determine from all related and available information the probable period during which the error condition existed and shall make billing adjustments for the estimated period involved as follows:

a. In the event of an overcharge, an adjustment shall be made for the entire period that the overcharge can be shown to have existed not to exceed sixty (60) consecutive monthly billing periods calculated from the date of discovery, inquiry or actual notification of the Company whichever comes first;

*b. In the event of an undercharge, an adjustment shall be made for the entire period that the undercharge can be shown to have existed not to exceed twelve (12) monthly billing periods calculated from the date of discovery, inquiry or actual notification of the Company, whichever was first and the Company will offer a repayment period of double the period covered by the adjusted bill though the customer may elect a shorter repayment period;

c. Where, upon test, an error in measurement is found to be within the limits prescribed by Commission rules, no billing adjustment will be made;

d. When evidence of obstruction is found, or there are misrepresentations of the use of service by the customer, the Company will calculate the billing adjustment period in accordance with the applicable statute of limitations for the prosecution of such claim after determining the probable period during which such condition existed from all related and available information; and

e. In any event, no billing adjustment will be made where the full amount of the adjustment is less than one dollar ($1) and no interest shall be paid or collected on any billing adjustment provided for herein.

*Indicates Change
V. BILLING PRACTICES (Cont'd.)

G. BILLING ADJUSTMENTS (Cont'd.)

1. Residential (Cont'd.)
   f. No corrections to metering data for meter error shall extend beyond the in-service date of the meter discovered to be in error, nor shall any correction be required to extend beyond the date upon which the current customer first occupied the premises at which the error is discovered.

2. Non-Residential

   For all non-residential billing errors, the Company will determine from all related and available information the probable period during which the error condition existed and shall make billing adjustments for the estimated period involved as follows:

   a. No billing adjustment will be made where the dollar amount of the adjustment is less than $15.00. No interest shall be paid or collected on any billing adjustment provided for herein.

   b. Where upon test an average meter error is found to be greater than 2 percent a billing adjustment will be made to compensate customer where the meter reads fast, and to compensate Company where the meter reads slow. However, any such billing adjustment will be applicable only for the probable period during which the meter error existed and shall be limited to the twenty-four (24) billing periods preceding the one in which the error was determined plus the elapsed period in the current billing period during which the test was made.

   c. Where a non-registering meter is found, Company will determine from all related and available facts the probable period during which such inaccuracy existed and render adjusted bills for the period involved, provided, however, that such period shall not exceed the preceding six (6) billing periods plus the elapsed time in the current billing period during which each inaccuracy was determined.

   d. Bills rendered which are based on incorrect registrations due to improper meter connections, the application of an improper meter constant, improper application of any rate schedule not selected by customer, or similar reasons, shall be subject to adjustment for the current and twenty-four (24) prior billing periods, as can be substantiated by Company records.

   e. "Average meter error" shall be determined in accordance with provisions set forth in rules of the Missouri Public Service Commission.
GENERAL RULES AND REGULATIONS

V. BILLING PRACTICES (Cont'd.)

G. BILLING ADJUSTMENTS (Cont'd.)

2. Non-Residential (Cont'd.)
   f. No corrections to metering data for meter error shall extend beyond the in-service date of the meter discovered to be in error, nor shall any correction be required to extend beyond the date upon which the current customer first occupied the premises at which the error is discovered.

H. CHANGE OF RATE

1. The rate selected by customer and specified by contract for service (if a written contract is required) shall be applied to customer's account for a period of not less than one year unless customer elects to transfer to a different rate during the first ninety (90) days of service. If so elected, the new rate shall be applied retroactively to the commencement date of customer's service.

2. Upon completion of the initial term of use of service under any rate, customer may select any other applicable rate and the rate so selected shall apply for a period of not less than that specified in the term of use of such selected rate.

3. Selection of rate shall be the obligation of the customer. A new rate when selected under and subject to the provisions set forth above will be placed in effect in the billing period following receipt of customer's request therefore.

4. Where a customer's load is abnormally affected during temporary periods of construction, alteration, preliminary or experimental operations, fire, or acts of God, Company may, upon prior agreement with customer, adjust or modify its billing or other charges otherwise applicable during the current or succeeding months in consideration of the particular circumstances in each such case.

5. Where abnormal and significant reductions in customer's operations occur due to events such as production curtailments, plant alteration, labor stoppages, fires or other acts of God, etc. which reduce customer's monthly billing demand below 100 kilowatts, customer may transfer to the Small General Service Rate for all billing periods subsequent to the initial billing period under such abnormal operation, following Company's receipt of written request for such change from customer. During such billing periods under the Small General Service Rate, any billing discounts under Riders B and C shall not apply.

6. Customers will not be permitted to evade the intent of the provisions of this paragraph H by temporarily terminating service.

DATE OF ISSUE May 31, 2013 DATE EFFECTIVE June 30, 2013

ISSUED BY Warner L. Baxter President & CEO St. Louis, Missouri

NAME OF OFFICER TITLE ADDRESS
I. *BUDGET BILLING PLAN*

Customers who are billed under Service Classification No. 1(M) or No. 2(M) with postcard or electronic billing and, at Company's option, certain eleemosynary customers may elect to be billed and pay for all electric service under Company's Budget Billing Plan provided customer shall have satisfied Company's credit requirements. The provisions of the Budget Billing Plan are as follows:

1. Upon enrollment in the Budget Billing Plan by customer, the average monthly bill amount will initially be equal to one-twelfth of the estimated annual billing to the customer with a one hundred dollar ($100) minimum average monthly bill applicable to customers with less than twelve (12) months of billing history for the current account.

2. Company will re-evaluate the estimated annual billing to an actual use basis on the sixth month following the customer’s enrollment in the program or anniversary date for existing Budget Bill customers. Thereafter, during the May and November bill cycles, the Company will re-evaluate the estimated annual bill and adjust the Budget Billing Plan amount where such adjustment will result in a change of at least three ($3.00) per month.

3. Budget Bill settlement will occur annually during either the Company’s May or November bill cycles with the initial settlement occurring more than six (6) but less than twelve (12) months after the customer’s enrollment in the program or the anniversary date for existing Budget Bill customers. Any under or over collection balance existing at the settlement month will be rolled over and spread equally across all monthly bills in the next Budget Billing Plan year, unless customer requests the balance to be fully included on the settlement month's bill.

4. Customers that were enrolled in the Budget Billing Plan prior to the effective date of this tariff will be converted to the new program on their next anniversary date.

5. Company may terminate this Budget Billing Plan to any customer who shall fail to make payment hereunder by the delinquent date, and, upon such termination and thereafter, such customer shall be billed in accordance with the terms of Company's standard monthly billing practice. Any billing adjustments required at the date of such termination shall be included in the next bill rendered to customer.

6. Customer may, at any time, elect to terminate the application of this Budget Billing Plan by requesting such termination and thereafter paying when due any amounts, including billing adjustments, which may be necessary in order to settle the account hereunder.

7. Final bills, whenever rendered, will include such amounts as may be necessary to settle the account based on actual usage as of the date of final meter reading unless, beginning with the August 2015 billing cycle, the balance is transferred to customer’s new account.

* Indicates Change
GENERAL RULES AND REGULATIONS

V. BILLING PRACTICES (Cont'd.)

*J. LATE PAYMENT CHARGE

Any portion of any bill, other than deposit arrears, remaining unpaid after the delinquent date indicated thereon will have a late payment charge of 1.5 percent of the gross unpaid amount added and shown on the next bill. Any portion of such "arrears" remaining unpaid after the delinquent date on any subsequent bill will also have a late payment charge of 1.5 percent added thereto. When a customer's payment is received by mail not more than two business days after the delinquent date it shall be deemed a timely payment. If the bill does not show a designated "delinquent date," for purposes of this paragraph the "due date" shall be deemed to be the delinquent date. The specific late payment charge and delinquent dates referred to above will be subject to variation for State of Missouri and U.S. Government accounts, where required by law or other regulation. Failure to pay any late payment charge shall be grounds for disconnection of service in accordance with these rules and regulations.

The late payment charge will not be applied to amounts being collected through any and all deferred payment arrangements and settlement agreements between a residential customer and the Company where the residential customer continues to meet its obligations under the deferred payment agreement. Any missed payment pursuant to these arrangements and agreements will be subject to the late payment charge only on the amount of the missed payment.

*K. RENT INCLUSION

The furnishing of electric service by a customer to a third party as an unidentifiable rental component, without such service being segregated and billed to the third party by Company, is generally prohibited by the Commission's rules. Separate metering shall be required for each unit in multiple occupancy buildings constructed after June 1, 1981, except for the following electrical usage:

1. For transient multiple occupancy buildings and transient mobile home parks, e.g., hotels, motels, dormitories, rooming houses, hospitals, nursing homes, fraternities, sororities, campgrounds, and mobile home parks which set aside, on a permanent basis, at least eighty percent (80%) of their mobile home pads or comparable space for use by travel trailers.

2. Where commercial unit space is subject to alteration with change in tenants as evidenced by temporary versus permanent type of wall construction separating the commercial unit space, e.g., space at a trade fair.

3. For commercial adjacent buildings.

*Indicates Reissue.
GENERAL RULES AND REGULATIONS

V. BILLING PRACTICES (Cont'd.)

*K.  RENT INCLUSION (Cont'd.)

4. For that portion of electricity used in central space heating, central hot water heating, central ventilating, and central air conditioning systems.

5. For buildings or mobile home parks where alternative renewable energy resources are utilized in connection with central space heating, central hot water heating, central ventilating, and central air conditioning systems.

6. For all portions of electricity in commercial units in buildings with central space heating, ventilating and air conditioning systems.

Any person or entity affected by the provisions of this Section V.L. Rent Inclusion may file an application with the Commission seeking a variance from all or parts of such provisions for good cause shown, pursuant to the Commission's rules applicable thereto.

Nursing homes, as referenced in (1.) above, shall include all facilities licensed by the State of Missouri Department of Social Services Division of Aging. Central space heating, water heating and air conditioning systems referred to in (4.) above shall include those systems employing individual heating/cooling units interconnected with centralized heating/cooling sources by means of a central piping system containing water or other fluids suitable for such purposes.

*L.  RESALE OF SERVICE

The furnishing of metered electric service by a customer of Company to a third party for a specific identifiable charge based upon such metered consumption is prohibited except where such practice originated prior to July 24, 1958. Where such practice has continued since July 24, 1958, the charge for electric service from a customer to a third party shall not exceed the charge which would result from the application of Company's appropriate rate, contained herein, for comparable electric service.

For such exceptions, the practice of resale shall be discontinued when such premises are remodeled, rebuilt or replaced.

The provision of electric vehicle charging service is not prohibited by this tariff.

*Indicates Reissue.
GENERAL RULES AND REGULATIONS

V. BILLING PRACTICES (Cont'd.)

*M. PARTIAL PAYMENTS

If a partial payment is made on a billing, including only current charges, the Company shall first credit the payment to the balance outstanding for utility charges before crediting a deposit. If a partial payment is made on a billing which includes a previous balance, the Company will credit the payment first to previous utility charges, then to previous deposit requirements before applying any payment to current charges. No portion of any payment will be applied to special charges until all utility charges are paid in full and all required deposits have been made. (This section reflects a variance from Rule 4 CSR 240-13.020(11) granted by the Commission in Case No. EO-98-263.)

*Indicates Reissue.
GENERAL RULES AND REGULATIONS

V. BILLING PRACTICES (Cont'd.)

O. RESIDENTIAL DUE DATE SELECTION

Customers receiving service under the Service Classification 1M - Residential Service Rate may select the date their bill will become due provided they are not in active collections, subject to an active deferred payment agreement, and their service is equipped with an advanced meter reading device. If the customer's preferred date is not available, they will be given the option of selecting a different due date or retaining their existing due date.

Customer's selected due date will become effective no later than the second bill issued after customer's selection and cannot be implemented for bills already issued.

The first bill issued following implementation of a due date selected by customer may result in a bill period that is either longer or shorter than normal and may also be prorated.

Customer may not make a due date selection more frequently than once every 12 months except by Company approval. (This section reflects a variance from Rules 4 CSR 240-13.015(1)(C) and 4 CSR 240-13.020(6) granted by Commission in Case EE-2019-0385.)
GENERAL RULES AND REGULATIONS

VI. DEPOSIT PRACTICES

A. RESIDENTIAL CUSTOMERS

1. Deposit Requirements For Initial Service

Company may, as a condition to furnishing service initially, require any applicant for residential service to make a cash deposit or furnish a written guarantee of a responsible party, due to any of the following:

a. The applicant has an unpaid bill, which accrued within the last five (5) years and at the time of the request for service, remains unpaid and not in dispute with a utility for the provision of the same type of service; or

b. The applicant has, in an unauthorized manner, within the past five (5) years prior to applying for service, interfered with or diverted the service of a utility in the provision of the same type of service; or

c. The applicant has not had service with the Company within the past five (5) years and has an Equifax Advanced Energy Risk Score (EAER Score) of 699 or lower. Those customers without an EAER Score will not be assessed a deposit under this subsection; or

d. The customer fails to provide proof of identity upon request. Proof of identity is to include official picture identification or other verifiable documentation of identity, and correct social security number.

*2. Deposit Requirements For Continued Service or Re-established Service

Company may, as a condition of continued or re-established service, require any residential customer to make a cash deposit or furnish a written guarantee of a responsible party, due to any of the following:

a. The service of the customer has been disconnected for nonpayment of a delinquent account not subject to a bona fide dispute, or

b. The customer has in an unauthorized manner tampered with the Company’s facilities or interfered with or diverted the service of Company situated on or about or delivered to the customer’s premises, or

c. The customer has failed to pay an undisputed bill on or before the delinquency date for five billing periods out of twelve consecutive billing periods, except:

*Indicates Change

DATE OF ISSUE _______________ DATE EFFECTIVE _______________

June 27, 2014 July 27, 2014

ISSUED BY Michael Moehn President & CEO St. Louis, Missouri

NAME OF OFFICER TITLE ADDRESS
GENERAL RULES AND REGULATIONS

VI. DEPOSIT PRACTICES (Cont'd.)

* A. RESIDENTIAL CUSTOMERS (Cont'd.)

2. Deposit Requirements For Continued Service (Cont'd.)
   c. (Cont’d.)
     i. The Company shall not assess a deposit to a customer if all of the following conditions are present: the customer’s outstanding balance does not exceed three hundred dollars ($300), the customer is not making payments under a previously arranged payment plan, and the customer has made a payment on or before the delinquency date each of the previous twelve (12) consecutive billing periods of at least seventy-five dollars ($75) or twenty-five percent (25%) of the total outstanding balance.

     ii. Deposit requirements during the months of November, December, and January for reasons other than unauthorized use or diversion of service, may, if the customer is unable to pay the entire deposit, be paid by installments over a six month period, unless the Company can show a likelihood that the customer does not intend to pay for continued service.

     iii. The Company shall not assess new deposits nor bill previously assessed deposits to customers who enter into and make timely payments in accordance with the Missouri Public Service Commission’s “Cold Weather” rule.

   d. Prior to requiring a customer to post a deposit, Company shall send the customer a written notice explaining the Company’s right to require a deposit or include such explanation with each written discontinuance notice.

* B. NON-RESIDENTIAL CUSTOMERS

Company may at any time, as a condition to furnishing or continuing service, require any customer or applicant for non-residential service to make a cash deposit or, at Company’s option, furnish a personal guarantee of a responsible party with established credit satisfactory to Company.

*Indicates Reissue
GENERAL RULES AND REGULATIONS
VI. DEPOSIT PRACTICES (Cont'd.)

C. GENERAL PROVISIONS

*1. Deposit Limits

A deposit for initial service will not exceed the charges applicable for one-sixth (1/6) of the estimated annual bill for residential customers, and usage during one estimated maximum monthly billing period plus thirty days for non-residential customers. For residential or non-residential customers, when a deposit is required as a condition for continued service, the deposit will not exceed two times the highest bill actually incurred, or estimated to be incurred, by the customer during the most proximate twelve (12) month period at the service location.

All deposit levels referred to herein will be established based upon usage levels and associated billings applicable to periods representative of actual meter readings and undisputed billing amounts.

2. Deposit Refunds

The credit of the residential customer will be established and the deposit and accrued interest, if any, will be refunded, or the guarantor released, upon satisfactory payment before the delinquency date of all proper charges for service for a period of twelve successive months, or customer has closed its account. The credit of the non-residential customer will be reviewed after three years and the deposit returned if in the opinion of the Company, the customer has established satisfactory credit. The Company may withhold refund of the deposit or release of the guarantor pending the resolution of a matter in dispute involving disconnection for nonpayment or unauthorized interference by the customer. The Company may apply all deposits subject to refund and accrued interest, if any, against undisputed utility charges provided the amount of the refund is identified and disclosed on the bill. Company shall make all reasonable efforts to return a deposit when the customer is entitled to the return of the deposit and shall keep records of efforts to return a deposit.
C. GENERAL PROVISIONS (Cont'd.)

*3. Interest Paid On Deposits
Interest will be credited annually on all residential deposits. Interest will be either credited to the service account of the residential customer on an annual basis or paid upon the return of the deposit. Simple interest will be payable upon the return of a non-residential deposit held by the Company for six months or longer. Interest shall not accrue on any cash deposit after the date the deposit is applied to the customer's account, or Company has made a reasonable effort to return such deposit to the customer. Interest will be paid at a per annum rate equal to the prime bank lending rate, as published in the Wall Street Journal for the last business day of November of the preceding calendar year, plus one percentage point.

*4. Final Billed Accounts
Upon termination of service, the deposit, with accrued interest, will be credited to the final bill and the balance, if more than $1.00, will be returned within twenty-one (21) days to the customer. If such amount is less than $1.00, it will be returned upon request of customer.
GENERAL RULES AND REGULATIONS

VII. DISCONNECTION AND RECONNECTION OF SERVICE

*A. REASONS FOR DENIAL OR DISCONNECTION OF SERVICE

In addition to any other right reserved by Company in its schedules, rules and regulations, Company reserves and shall have the right to deny service, or after written notice, to disconnect service supplied by it to an electric customer for any of the following reasons:

1. Nonpayment of an undisputed delinquent account;
2. For failure by non-residential customer to pay when due bills for service supplied to such customer within twelve months immediately preceding the date of such notice of customer's current location or at any other location of customer at which similar service is now or has been supplied;
3. Failure to make and maintain a deposit or acceptable guarantee in accordance with the rules and regulations of Company and of regulatory authorities having jurisdiction;
4. Failure to comply with the terms and conditions of a settlement agreement with the Company regarding a dispute or payment of service charges;
5. Refusal after reasonable notice to permit inspection, maintenance, replacement or meter reading of Company equipment. If the Company has a reasonable belief that health or safety is at risk, notice at the time inspection is attempted is reasonable.
6. Misrepresentation of identity for the purpose of obtaining service;
7. Whenever customer disposes of any electric service to another party in any manner other than as expressly authorized by these rules and regulations;
8. Violation of any rules and regulations of the Company on file with and approved by any regulatory authority having jurisdiction or of any such regulatory authority which adversely affects the safety of the customer or other persons or the integrity of the Company's delivery system.
9. As provided by state or federal law.
10. Unauthorized use, interference or diversion of service.

Company will inform the prospective customer of the refusal of service in writing and maintain a record of the notice.

B. NOTICE OF INTENT TO DISCONNECT RESIDENTIAL SERVICE

*Notice of intent to disconnect service will state the name and address of the customer (and the service address if it is different), the reason for which service will be disconnected, the cost for reconnection if any, the date on or after which such disconnection may be effected, how a customer may avoid being disconnected, the possibility of a payment agreement and a telephone number the customer may call.

*Indicates Change
B. NOTICE OF INTENT TO DISCONNECT RESIDENTIAL SERVICE (Cont'd.)

*1. Individual Residential Customer Premises

Said notice will be sent to the customer by first class mail not less than ten (10) days prior to the date of the proposed disconnection or delivered to customer not less than 96 hours prior to such date.

2. Single Metered Multi-Dwelling Unit Residential Buildings

At least ten (10) days prior to disconnection of service for nonpayment of a bill or deposit at a multi-dwelling unit residential building at which usage is measured by a single meter, notices of the Company's intent to disconnect will be conspicuously posted in public areas of the building. Such notices will not be required, however, if the Company is not aware that said structure is a single metered multi-dwelling unit residential building or in individual situations where the safety of the Company's employees or agents may be a consideration. If the electric service is necessary to the proper function and operation of a customer's heating equipment, said notice will inform the occupants of their right, under state law, to initiate a receivership procedure.

3. Individually Metered Multi-Dwelling Unit Residential Buildings

At least ten (10) days prior to disconnection of service for nonpayment of a bill or deposit at (a) a multi-dwelling unit residential building where each unit is individually metered, but a single customer is responsible for payment for service in all units in the building, or at (b) a residence in which the occupant using the Company's service is not the Company's customer, the occupant(s) shall be given written notice of the Company's intent to disconnect service, provided however, that such notice will not be required unless one (1) occupant has advised the Company, or the Company is otherwise aware, that he is not the customer. The notice will outline the procedure by which the occupant may apply in his or her name for service of the same character received through that meter. If the electric service for (a) is heat related, said notice will inform the occupants of their right, under state law, to initiate a receivership procedure.

C. RESIDENTIAL CUSTOMER CONTACT AND NOTICE OF DISCONNECTION

At least 24 hours preceding disconnection of service, the Company will make reasonable efforts to contact a residential customer to advise of the pending action and what steps must be taken to avoid disconnection. Immediately preceding the disconnection of service, the Company employee or agent designated to perform such function will, except in individual situations where the safety of the employee or agent may be a consideration, make a reasonable effort to contact and identify himself to the customer or responsible person at the premises to announce his purpose.
GENERAL RULES AND REGULATIONS

VII. DISCONNECTION AND RECONNECTION OF SERVICE (Cont’d.)

*C. RESIDENTIAL CUSTOMER CONTACT AND NOTICE OF DISCONNECTION (Cont’d.)

When service is disconnected, the Company employee or agent will leave a notice at the premises in a manner conspicuous to the customer that service has been disconnected and the Company address and telephone number where the customer may arrange to have service restored.

D. NOTICE OF INTENT TO DISCONNECT NON-RESIDENTIAL SERVICE

Notice of intent to disconnect service for a non-residential customer under this rule shall state the reason for which service will be disconnected and shall specify a date after which such disconnection may be effected, and such notice shall be mailed to or served upon customer not less than 48 hours prior to such date.

**E. DISCONNECTION HOURS

Company will disconnect electric service between the hours of 8:00 a.m. and 4:00 p.m. on the date specified on the notice of disconnection or within thirty (30) calendar days thereafter.

F. DELAY OF DISCONNECTION FOR MEDICAL REASONS

The Company will postpone the disconnection of service to a residential customer for a time not in excess of 21 days if the Company is advised the disconnection will aggravate an existent medical emergency of the customer, a member of his family or other permanent resident of the premises. The Company may require a customer to provide satisfactory evidence that a medical emergency exists before postponing the disconnection of service.

G. AVOIDANCE OF DISCONNECTION OF SERVICE

Disconnection of electric service will not be performed if, on or before the date specified in the notice of intent to disconnect, the customer shall:

1. (a) Make good the default by paying such bills for service at a Company office, or make arrangements satisfactory to Company, therefor, (b) make or restore such deposit at a Company office, (c) give Company representatives such access, or (d) cure such violation of rules and regulations, as the case may be; and

2. Pay at a Company office the expenses incurred by Company in detecting and confirming obstruction of electric service. Such expenses will include, but not be limited to all unmetered service as estimated by Company, special equipment necessary to detect the violation (such as check meter), equipment necessary to prevent future violations, labor and materials necessary to test, change, move or install new meters or other equipment and the cost of any rebilling, as applicable.

*Indicates Reissue   **Indicates Change
GENERAL RULES AND REGULATIONS

VII. DISCONNECTION AND RECONNECTION OF SERVICE (Cont'd.)

*H. DISCONNECTION OR INTERRUPTION OF SERVICE WITHOUT PRIOR NOTICE

Company shall have the right to disconnect or interrupt service without prior notice for reasons of obstruction; maintenance, health, safety or state of emergency, or in cases where Company is directed to interrupt service by a governmental agency or officer. In such cases Company will make a reasonable effort to inform customer of the reasons for disconnection or interruption of service.

I. RECONNECTION OF SERVICE

In the event Company disconnects service, in addition to customer's continuing liability for all indebtedness then owed by customer to Company for service supplied at customer's current location and for similar service supplied at any other location of customer, customer shall also be liable for and shall also pay Company for the expenses incurred by Company in detecting and confirming the violation which occasioned such disconnection of electric service. In the event any such disconnected customer, or anyone acting for him, thereafter desires to receive service from Company by reconnection at the same location or at any other location, the payment to Company of the aforesaid liabilities and the payment to Company of each of the following items, as applicable, or the making of arrangements satisfactory to Company therefore, shall be conditions precedent to such reconnection or connection:

1. The charge for reconnection of service indicated on Sheet No. 63, Miscellaneous Charges, for each connection point.

2. Any deposit which may be required by Company under its applicable rules and regulations; and,

3. The cost of facilities or changes Company deems necessary or appropriate in order to prevent, insofar as possible, any future violation by customer of the rules and regulations of the Company as well as the cost of rebilling, as applicable.
A. ENERGY USAGE REDUCTION PROGRAM

The following is an energy usage reduction program to be followed in the event a shortage of fossil fuel occurs or is threatened. Prevailing conditions will be reviewed daily, and appropriate actions under each step will be determined by Company as conditions warrant.

Step 1: This step shall be taken when the Company fossil fuel inventory is decreasing, and no deliveries are expected or interruptions of deliveries are anticipated, and it is estimated that fossil fuel inventory and deliveries are sufficient for approximately 50 days' generation at normal operating levels.

1.1 Industrial customers will be surveyed to determine anticipated reductions in energy use because they themselves may become short of coal or manufacturing supplies from other areas, and thereby be forced to curtail normal operations. Information will also be gathered regarding the magnitude of non-critical load they could shed, should the need arise.

Step 2: This step will be taken when Company fossil fuel inventory is decreasing, and no deliveries are expected or interruptions of deliveries are anticipated, and it is estimated that fossil fuel inventory and deliveries are sufficient for approximately 40 days' generation.

2.1 Company will reduce its own use of electric energy in any way that will not jeopardize essential operations.

2.2 The contractually interruptible portion of "Interruptible" customer loads shall be curtailed.

2.3 All Federal, State and local governmental facilities shall be requested to reduce their use of electric energy consistent with maintaining essential services.

2.4 Company shall make public appeals through appropriate news media, asking customers to voluntarily reduce their use of electric energy because of the fuel shortage.

2.5 The Company Customer Service and Regional Operations functions will notify large industrial customers of the request for voluntary curtailment of energy use because of the fossil fuel shortage.

2.6 Company will notify all sales for resale customers of the request for voluntary curtailment. Such sales for resale customers shall be requested to notify their customers of the request for voluntary curtailment.
A. ENERGY USAGE REDUCTION PROGRAM (Cont'd.)

Step 3: If fossil fuel inventory continues to decrease, and no deliveries are expected or interruptions of deliveries are anticipated, and Company's remaining fossil fuel inventory and deliveries are sufficient for approximately 30 days' generation at operating levels which include Step 2, the State and Federal regulatory commissions, or other appropriate authorities, will be requested to authorize Company to implement the following reductions or eliminations of electric energy uses and, to the extent that they have the authority, to make such reductions mandatory.

3.1 Eliminate all outdoor flood and advertising lighting except for the minimum level necessary to protect life and property, and a single illuminated sign advertising commercial facilities that are open after dark.

3.2 Reduce non-essential uses of electricity in residences, stores, offices, and factories as close to minimum functional and safety levels as possible. For example: reduce general lighting levels; eliminate all show window, display, and decorative lighting; reduce the number of elevators operating during non-peak hours; etc.

3.3 Reduce parking lot lighting, street and alley lighting, and dusk-to-dawn lighting where practicable to minimum functional and safety levels.

3.4 Minimize energy use by maintaining a temperature of no more than 66°F during operation of heating equipment and no less than 80°F during operation of cooling equipment. Also, minimize use of electrically heated hot water.

3.5 Adjust work schedules, as for building cleaning and maintenance, restocking, etc., which would require office or industrial facilities to be lighted, heated or cooled beyond normal office or plant hours.

3.6 Curtail sports, entertainment, and recreational activities consistent with saving energy; for example, eliminate sports requiring lighting and close theaters requiring energy for heating or cooling of facilities, etc.

3.7 Close all public museums, art galleries, historic buildings, etc. requiring lighting, heating or cooling.

3.8 Require commercial establishments to operate on a schedule not exceeding six days per week with a maximum of 48 hours of operation per week (except essential services to the public).
GENERAL RULES AND REGULATIONS

VIII. EMERGENCY ENERGY CONSERVATION PROCEDURE (Cont'd.)

A. ENERGY USAGE REDUCTION PROGRAM (Cont'd.)

Step 4: If fossil fuel inventory continues to decrease, and no deliveries are expected or interruptions of deliveries are anticipated, and Company's remaining fossil fuel inventory and deliveries are sufficient for approximately 25 days' generation at operating levels which include Steps 2 and 3, the State and Federal regulatory commissions, or other appropriate authorities, will be requested to authorize Company to implement the following:

4.1 Each industrial user of electric energy to immediately curtail its monthly usage on a continuous basis by at least 30% of its average monthly usage during the previous 12 months. Company will make available to such authorities a current list of its industrial customers and will, at the direction of such authorities, transmit orally or in writing to such customers the directive on behalf of the authorities.

4.2 Each commercial customer to immediately curtail usage to a maximum 40 hours of operation a week.

4.3 Each residential customer to immediately curtail usage to the minimum amount possible.

Customers providing the essential services generally described in Section B hereof shall be exempt from full compliance with the above requirements.

Steps 5 & 6

The State and Federal regulatory commissions, or other appropriate authorities, will be requested to authorize Company to implement the various actions of Steps 5 and 6 as they become necessary to preserve Company's fossil fuel inventory and maintain essential services. Company will take such technical measures in connection with its facilities as are necessary and feasible to implement these steps and to assure continuous electric supply to essential services.

Step 5: Actions to be implemented as necessary.

5.1 Implement a progressive reduction of industrial and commercial customer use down to levels required for basic plant and employee safety and security.

5.2 Require further residential curtailment to minimum levels (minimum "life support" requirements).

The customers excluded from full compliance with these reductions are the same as those in Section B hereof.
GENERAL RULES AND REGULATIONS

VIII. EMERGENCY ENERGY CONSERVATION PROCEDURE (Cont'd.)

A. ENERGY USAGE REDUCTION PROGRAM (Cont'd.)

Step 6: Company will interrupt loads on a rotating basis as may be necessary and feasible according to procedures described in Company's Operating Manual, Chapter XII, and the following general guidelines:

6.1 Advance notice of customer interruptions will be given by release to the news media. Large commercial and industrial customers will be contacted by the Company Customer Service and Regional Operations functions in accordance with established procedures.

6.2 Rotating outages of circuits which are known to include the essential services described in Section B hereof will not be undertaken.

6.3 Each sales for resale customer will interrupt loads on its system on a rotating basis to achieve the same percentage level of load reduction as Company's procedures provide.

B. ESSENTIAL SERVICES

The group of customers recommended to be exempt as essential services from full compliance with Steps 4 through 6 are listed below.

Industrial and commercial establishments of the types listed below must strive to meet, but are not mandated to meet, the requirements of the several steps. In doing so, such customers should undertake the reduction of electric energy consumption to the fullest practical extent consistent with continued operation of the services, functions, or activities for which the customer is responsible.

1. Any facility whose function is known to Company to be necessary to the support of life.
   a. Certain hospital services and nursing homes.
   b. Non-hospital facilities, such as iron lungs and kidney machines.

2. Any facility whose function is known to Company to be necessary for national, state or local security.
   a. Missile sites
   b. Defense communication network centers
   c. Civil defense facilities
   d. Prisons
   e. Other governmental activities essential to national defense.
GENERAL RULES AND REGULATIONS

VIII. EMERGENCY ENERGY CONSERVATION PROCEDURE (Cont'd.)

B. ESSENTIAL SERVICES (Cont'd.)

3. Any facility whose function is known to Company to be necessary to provide essential public services.
   a. Police and fire control facilities
   b. Essential public services—water, telephone, gas, trash, sewage, etc., facilities
   c. Transportation facilities
   d. Communications media
   e. Coal mining and related functions
   f. Petroleum refining and pipeline facilities
   g. Food processing, storage, and distribution facilities
   h. Medical supply facilities
UNION ELECTRIC COMPANY  ELECTRIC SERVICE

MO.P.S.C. SCHEDULE NO.  6  Original  SHEET NO.  151
CANCELLING MO.P.S.C. SCHEDULE NO.  SHEET NO. 

APPLYING TO  MISSOURI SERVICE AREA

THIS SHEET RESERVED FOR FUTURE USE

DATE OF ISSUE  May 31, 2013  DATE EFFECTIVE  June 30, 2013
 ISSUED BY  Warner L. Baxter  President & CEO  St. Louis, Missouri

NAME OF OFFICER  TITLE  ADDRESS
UNION ELECTRIC COMPANY
ELECTRIC SERVICE

MO.P.S.C. SCHEDULE NO. 6  Original  SHEET NO. 154
CANCELLING MO.P.S.C. SCHEDULE NO.  
SHEET NO. __________

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FILED
Missouri Public
Service Commission
ET-2013-0546; JE-2013-0582
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DATE OF ISSUE: May 31, 2013

DATE EFFECTIVE: June 30, 2013

ISSUED BY: Warner L. Baxter

President & CEO

St. Louis, Missouri
COMMUNITY SOLAR PILOT PROGRAM

PURPOSE

The purpose of the Community Solar Pilot Program (Program) is to examine the interest of customers in an opportunity to subscribe to a designated solar resource (Resource) within the Company's Missouri service territory.

PROGRAM DESCRIPTION

Program participants will subscribe to and enroll in the Program and by doing so, agree to pay for Solar Blocks of 100 kilowatt-hour (kWh) each that will replace an equivalent kWh amount of electricity they receive from their standard class of service.

AVAILABILITY

Electric service under this Program is only available to full service electric customers currently served by the Company. Customers can replace up to 50% of their average annual energy usage. Customers must qualify for service under either Company Service Classification Residential Service 1(M) or Small General Service 2(M). Customers will be deemed ineligible for the Program if they have received a disconnection notice within twelve (12) months preceding their application.

Participants will be enrolled on a first-come, first-served basis. Participants can enroll or cancel subject to the Program Provisions and Special Terms. Service hereunder is provided through one meter to one end-use customer and may not be redistributed or resold.

DEFINITIONS

Solar Block – 100 kWh of solar energy per billing month. The number of blocks available will be determined by the total estimated average annual production over the life of the Resource.

Solar Availability Bank – The number of Solar Blocks available for subscription in any given month based on the estimated average annual production over the life of the Resource minus Solar Blocks covered by existing subscriptions.

Term of Initial Enrollment - The initial enrollment term shall be limited to within three years of the first effective date of this tariff sheet.

Program Term - The program term shall be 25 years from the date of the Resource being placed into service.

SOLAR BLOCK MONTHLY CHARGES

Subject to the Program Provisions and Special Terms set forth below:

<table>
<thead>
<tr>
<th>Service Classification</th>
<th>Residential Service 1(M)</th>
<th>Small General Service 2(M)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar Generation Charge</td>
<td>$10.78</td>
<td>$10.78</td>
</tr>
<tr>
<td>Total Facilities Charge</td>
<td>$3.17</td>
<td>$2.31</td>
</tr>
<tr>
<td>Total Solar Block Charge</td>
<td>$13.95</td>
<td>$13.09</td>
</tr>
</tbody>
</table>
COMMUNITY SOLAR PILOT PROGRAM (Cont'd.)

MONTHLY BILL

All terms and conditions of the customer’s applicable standard service classification tariff shall apply to this Program with the following exception:

The Solar Blocks supplied under this Program, pursuant to the customer’s subscribed amount, will replace an equal amount of kWh the customer would otherwise be billed under their Energy Charge and Energy Efficiency Program Charge.

All other usage-based charges in the customer’s applicable tariff schedule will be billed at the actual metered electricity usage.

INITIAL ENROLLMENT; TERM

Unless a Resource under this program is placed in service within the Term of Initial Enrollment, the Community Solar Pilot Program tariff sheets shall expire three years after the first effective date of this tariff sheet. Once a Resource has been placed in service under this Program, i) enrolled customers that also receive service under this tariff may continue said service for the Program Term unless they cancel service under the program and ii) new customers will be allowed to receive service under the Program after the initial three (3) year period to the extent there exists a Solar Availability Bank. However, this tariff shall immediately become void, and the Company shall have no further obligations or liabilities hereunder, if any term or terms of this Program are determined to be discriminatory or otherwise unlawful by a court of competent jurisdiction.

PROGRAM PROVISIONS AND SPECIAL TERMS

1. Qualifying customers are eligible to subscribe to at least one (1) Solar Block, regardless of their annual usage, as long as they meet all other provisions.

2. In any given billing month, an unused Solar Block or portion of a Solar Block subscribed by customer will not be carried over into any subsequent billing month.

3. All rights to the solar renewable energy certificates (SREC) associated with the generation output of the Resource(s) will be owned by the Company and managed consistent with Company’s Renewable Portfolio.

4. Enrollment; Participation Fee; Commitment:
   a. The Program will result in the construction of a 1 MW Resource, if there are sufficient subscriptions to support the Resource. Customers enrolling in the Program will be assigned to the Resource until such time as all of the Solar Blocks for the Resource are subscribed, and upon enrollment such customers shall pay a Program participation fee of $25 per block. Collected Program participation fees will be treated by the Company as a Contribution in Aid of Construction upon construction of the Resource.
COMMUNITY SOLAR PILOT PROGRAM (Cont'd.)

PROGRAM PROVISIONS AND SPECIAL TERMS (Cont'd.)

b. On and after the date the Company commits to construct the Resource, which commitment shall occur upon the Company posting its commitment on its website and sending an e-mail, if available, or by letter, announcing its commitment to the enrollees assigned to the Resource, said enrollees will be obligated to participate in the Program and pay the charges thereunder for a term of two years after the Resource’s in-service date, unless the customer no longer takes service from the Company. Until said committal date, an enrollee may withdraw from the Program via the Company’s website or by calling the Company’s toll-free customer service line and shall receive a refund of the enrollee’s Program participation fee.

c. Any enrollee from whom a Program participation fee has been collected who has not received service from the Resource by the earlier of (i) the date the Company commits to the Resource, or (ii) three years after this tariff first becomes effective, will be refunded the Program participation fee.

d. Customers may enroll in the Program via the Company’s website or by calling the Company’s toll-free customer service line after the Company has committed to build the Resource, and throughout the Program’s operation, during any period when there exists a Solar Availability Bank, without paying a Program participation fee. The Company will maintain a waiting list of customers interested in enrolling in the Program during periods when there is no Solar Availability Bank, and will notify customers on the waiting list via e-mail or letter when the Bank becomes available.

5. The Solar Generation Charge associated with the Solar Block will be capped for Program Term at the initially offered level, but may decrease if incremental capacity additions to or retirements from the Resources occur and result in a lower aggregate functionalized generation cost of all Resources placed in service under this Program. The Total Facilities Charge will be subject to adjustment in each general rate case during the applicable Program Term.
COMMUNITY SOLAR PILOT PROGRAM (Cont’d.)

PROGRAM PROVISIONS AND SPECIAL TERMS (Cont’d.)

6. Where an additional Resource is added to the Program, the levelized cost of the new Resource will be averaged with the remaining levelized cost of existing Resource to determine the new fixed levelized cost that determines the Solar Generation Charge and contributes to the total cost of the Solar Block. This change would apply to all subscribers under the Program.

7. Payments for Solar Blocks will be due no later than the due date shown on the bill and will be incorporated into the customer’s standard billing cycle.

8. Any customer being served or having been served on this Program waives all rights to any billing adjustments arising from a claim that the customer's service would be at a lower cost had the customer not participated in the Program for any period of time.

9. If a customer moves to another location within the Company's Missouri service territory the customer's subscription will also transfer.

10. Subscription cancelations will result in available Solar Blocks going back into the Solar Availability Bank. Any surplus of kWh from Solar Blocks will be forfeited back into the Solar Availability Bank without any monetary reimbursement to subscriber.

11. After the expiration of any two-year commitment as provided for in paragraph 4.B, customers that subscribe will continue as Program participants until they cancel their subscription or the Program is terminated, whichever occurs first. For enrollments occurring 20 or more days before a customer’s next billing cycle, enrollment fees or refunds of participation fees, if otherwise allowed hereunder, shall be charged or credited, as appropriate, via the customer’s bill in that next billing cycle; otherwise, in the second billing cycle after enrollment or withdrawal.

12. Any customer who terminates Program participation must wait three (3) months after the first billing cycle without a subscription to re-enroll in the Program.

13. Customers with Net Metering agreements or Time-of-Day Service are ineligible for the Program.

GENERAL RULES AND REGULATIONS

In addition to the above specific rules and regulations, all of Company's General Rules and Regulations shall apply to service supplied under this Program.
PILOTS, VARIANCES, AND PROMOTIONAL PRACTICES

C. COMPANY ADVERTISING AND PUBLICITY PROGRAM

Some of the Company's regular advertising and publicity practices will feature buildings of various types as examples of applications of electric utilizing equipment. The ads or publicity will call the reader's, viewer's, or listener's attention to the benefits of electric energy and its many applications. These ads or publicity items are not designed to support the individual projects mentioned but rather to lend emphasis to the type of electrical application described in the ad or publicity. None of this advertising or publicity will be the result of promises made to a builder, developer, or other person. The project may be identified with the name, address, owner, architect, engineer, and other related information.

The material content of the advertisements or the publicity will be varied in accordance with the electrical applications that are emphasized. These ads or publicity material will be used in the various media serving the Company's service area as well as in national advertising. In all cases the ads or publicity will be signed by the Company.
PILOTS, VARIANCES, AND PROMOTIONAL PRACTICES

D. KEEPING CURRENT LOW-INCOME PILOT PROGRAM

* PURPOSE
The purpose of the Keeping Current Low-Income Pilot Program (Program) is to provide electric bill payment assistance to customers meeting the eligibility requirements while assessing the delivery methods used in the Program and the impacts on revenues and costs. This Program is provided pursuant to the Stipulation and Agreement Regarding Ameren Missouri’s Keeping Current Program approved by the Missouri Public Service Commission (MoPSC) in Case No. ER-2012-0166 and pursuant to the Unanimous Stipulation and Agreement approved by the MoPSC in Case No. ER-2016-0179.

* AVAILABILITY
The Program has three (3) categories of Participants:

a) Participants in the Keeping Current Electric Heating Program category - This Program category shall be limited to electric space heating customers on the Residential Service Rate 1(M) who have an income level at or below 150% of the Federal Poverty Level (FPL) enrolled by a program agency designated by the Company. (For a list of agencies go to ameren.com/missouri)

b) Participants in the Keeping Current Non-Electric Heating Program category - This Program category shall be limited to non-electric space heating customers on the Residential Service Rate 1(M) who have an income level at or below 150% of the FPL enrolled by a program agency designated by the Company.

c) Participants in the Keeping Current Cooling Program category - This Program category shall be limited to electric space cooling customers on the Residential Service Rate 1(M) who are either 1) elderly, 2) disabled, 3) have a documented chronic medical condition, or 4) live in households with one or more children five (5) years of age or younger and the customer in one of these categories has an income that is no more than 150% of the FPL enrolled by an agency designated by the Company.

No customer with an arrearage that includes a theft of service charge shall be eligible to participate in the Program.

No credit refund checks will be issued by the Company to Participants.

* DEFINITIONS

Collaborative – Signatories to the Stipulation and Agreement Regarding Ameren Missouri’s Keeping Current Pilot Program in Case No. ER-2012-0166 and Unanimous Stipulation and Agreement in Case No. ER-2016-0179, which include the Company, MoPSC Staff, Office of the Public Counsel (OPC), Missouri Industrial Energy Consumers (MIEC), AARP and Consumers Council of Missouri.

Federal Poverty Level (FPL) – The set minimum amount of gross income that a family needs for food, clothing, transportation, shelter and other necessities. This level is determined by the U.S. Department of Health and Human Services. FPL varies according to family size.

* Indicates Change.
DEFINITIONS (Cont'd.)

Keeping Current Agency - a community action agency either a local private or a non-profit organization designated by Company to enroll customer's in the Keeping Current Low-Income Pilot Program within their area. For a list of agencies go to ameren.com/missouri.

PROVISIONS

* Pursuant to the Stipulation and Agreement Regarding Ameren Missouri’s Keeping Current Program approved by the MoPSC in Case No. ER-2012-0166 and pursuant to the Unanimous Stipulation and Agreement approved by the MoPSC in Case No. ER-2016-0179, beginning in April 2017 the Company will provide $625,000 annually, in twelve monthly installments each Program year (calendar year), to finance the Program, with the 2017 contributions prorated for the nine months remaining in the year. An additional amount of approximately $706,000 will be collected through the Low-Income Pilot Program Charge in the Company’s 1(M), 2(M), 3(M), 4(M), 11(M), and 12(M) tariffs and contributed to the Program. The Program will be implemented through the Company's existing Keeping Current Agencies in cooperation with the Collaborative.

** Participants may choose a preferred due date or billing cycle at enrollment that matches the time that they receive income.

Credits will be provided through Monthly Heating Bill Credits and/or Monthly Arrearage Bill Credits and/or Keeping Cool Bill Credits as listed below to Participants meeting the income limits above and the general qualifications listed below as well as the qualifications for each provision:

1. Participant must be registered with a designated Keeping Current Agency.
2. Participant will apply for weatherization and LIHEAP assistance.

MONTHLY HEATING BILL CREDITS

<table>
<thead>
<tr>
<th>Electric Heating Participant's Monthly Bill Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>0–50% FPL</td>
</tr>
<tr>
<td>51%–150% FPL</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Non-Electric Heating Participant's Monthly Bill Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>0–50% FPL</td>
</tr>
<tr>
<td>51%–150% FPL</td>
</tr>
</tbody>
</table>

*1. Participants must remain current within two (2) billing cycles to continue on Program. Participants that default on payments for two (2) consecutive months will be removed from the Program and not be allowed back into the Program for twelve (12) months except that a Keeping Current Agency may request a one-time re-enrollment for a defaulted Participant experiencing a short-term, unanticipated financial hardship.

*Indicates Change. **Indicates Addition.
MONTHLY HEATING BILL CREDITS (Cont’d.)

As a one-time exception during the twenty-four (24) month enrollment period, Participants with a missed, late or partial payment will be allowed to receive the monthly bill credit and still be considered current on the program.

2. Participants receiving Electric Heating Monthly Credits must be enrolled in Budget Billing with any under or over collection balance existing at the settlement month rolled over and spread equally across all monthly bills in the next Budget Billing Plan year. All Budget Billing options will be available to a Keeping Current Participant that has satisfactorily completed two (2) years on the Keeping Current Program.

3. Monthly Heating Bill Credits will only be applied for those bills where the Participant makes an on-time (before the delinquent date) payment equal to the amount due less the pre-determined monthly credit, based on FPL. Bill statement will reflect the amount due, the credit, and the new payment required.

4. Monthly Heating Bill Credits will be adjusted accordingly so that the Participant pays a minimum of $10 (ten) per month if the difference between the budget billing amount and the associated credit results in an amount due which is less than $10 (ten). Credit will be calculated in these circumstances once the budget billing amount has been determined.

MONTHLY ARREARAGE BILL CREDITS

Monthly arrearage bill credit is 1/12th of their original arrearage amount when entering the Program.

1. Participants must make a payment of at least 1/12th of any arrearage through pledge or personal funds. This arrearage reduction agreement will remain in effect as long as customer remains current.

2. Participants must remain current within two (2) billing cycles to continue on Program. Participants that default on payments for two (2) consecutive months will be removed from the Program and not be allowed back into the Program for twelve (12) months except that a Keeping Current Agency may request a one-time re-enrollment for a defaulted customer experiencing a short-term, unanticipated financial hardship.

3. Monthly Arrearage Bill Credits will only be applied for those bills where Participant makes an on-time (before the delinquent date) payment equal to the amount due less the pre-determined monthly credit, based on FPL. Bill statement will reflect the amount due, the credit, and the new payment required.

* Indicates Change.
**PILOTS, VARIANCES, AND PROMOTIONAL PRACTICES**

**D. KEEPING CURRENT LOW-INCOME PILOT PROGRAM (Cont'd.)**

* **KEEPING COOL BILL CREDITS**

<table>
<thead>
<tr>
<th>Participant's Monthly Cooling Bill Credit (June-August)</th>
<th>0-100% FPL</th>
<th>101%-150% FPL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$25.00</td>
<td>$25.00</td>
</tr>
</tbody>
</table>

Participants may not receive Keeping Cool Bill Credits concurrently with Electric Heating Bill Credits, Non-Electric Heating Bill Credits, or Arrearage Bill Credits.

* **ADMINISTRATION, REPORTING AND EVALUATION**

Program administration, reporting and evaluation will be conducted consistent with the terms of the Stipulation and Agreement Regarding Ameren Missouri’s Keeping Current Program in Case No. ER-2012-0166 and the terms of the Unanimous Stipulation and Agreement in Case No. ER-2016-0179 or as modified by the Collaborative and approved by the MoPSC.

*Indicates Change.
PILOTS, VARIANCES AND PROMOTIONAL PRACTICES

E. UNREGULATED COMPETITION WAIVERS AND OTHER VARIANCES

UNREGULATED COMPETITION WAIVERS

Where the Company competes for business with unregulated competition, the Company may waive all or part of any charges associated with extensions of service and/or construction deposits, provided for in Company Schedule No. 6 - Schedule of Rates for Electricity, and any additional non-tariff charges, required in order to effectively compete with offers made to developers and/or customers by unregulated competition after notifying the Missouri Public Service Commission and receiving an Order granting the waiver for good cause shown.

The following listed areas, individuals, and/or subdivisions have been granted waivers by the Commission per the associated order numbers:

<table>
<thead>
<tr>
<th>Order Number</th>
<th>Area and/or Subdivision</th>
</tr>
</thead>
<tbody>
<tr>
<td>EO-90-43</td>
<td>Harbors at Timber Lakes</td>
</tr>
<tr>
<td>EO-90-68</td>
<td>Glenwood Hills; Hidden Trails Estates; Country View Estates</td>
</tr>
<tr>
<td>EO-90-79</td>
<td>Southwinds Subdivision</td>
</tr>
<tr>
<td>EAO 968</td>
<td>Westview Heights Subdivision</td>
</tr>
<tr>
<td>EAO 972</td>
<td>Mr. Harvey Massen (Valley View Drive)</td>
</tr>
<tr>
<td>EAO 973</td>
<td>Cedar Hills #3</td>
</tr>
<tr>
<td>EAO 974</td>
<td>Twelve Oaks Subdivision</td>
</tr>
<tr>
<td>EAO 975</td>
<td>Cedar Hills #3 and Twelve Oaks Subdivision</td>
</tr>
<tr>
<td>EAO 976</td>
<td>Christman Bros. Subdivision</td>
</tr>
<tr>
<td>EAO 977</td>
<td>National Guard Headquarters</td>
</tr>
<tr>
<td>EAO 978</td>
<td>Indian Springs Subdivision</td>
</tr>
<tr>
<td>EAO 979</td>
<td>Briar Oaks Estates</td>
</tr>
<tr>
<td>EAO 980</td>
<td>Thornhill/Schultz Subdivision</td>
</tr>
<tr>
<td>EAO 981</td>
<td>Country Lane Subdivision</td>
</tr>
<tr>
<td>EAO 982</td>
<td>Mallard Pointe Subdivision</td>
</tr>
<tr>
<td>EAO 983</td>
<td>9 Lot Subdivision - Hugh White</td>
</tr>
<tr>
<td>EAO 984</td>
<td>22 Lot Subdivision - Bill Reid</td>
</tr>
<tr>
<td>EAO 985</td>
<td>Northridge Estates</td>
</tr>
<tr>
<td>EA-90-250</td>
<td>14 Lot Subdivision - Larry Hays</td>
</tr>
<tr>
<td>EO-91-386</td>
<td>15 Lot Subdivision - Jane Flowers</td>
</tr>
<tr>
<td>EO-91-386</td>
<td>Porter South Subdivision</td>
</tr>
<tr>
<td>EAO 987</td>
<td>Village Green Subdivision</td>
</tr>
<tr>
<td>EAO 986</td>
<td>Rolling Meadows Subdivision</td>
</tr>
</tbody>
</table>

DATE OF ISSUE: May 31, 2013
DATE EFFECTIVE: June 30, 2013

ISSUED BY: Warner L. Baxter  President & CEO  St. Louis, Missouri

NAME OF OFFICER:        TITLE:                  ADDRESS:

### PILOTS, VARIANCES AND PROMOTIONAL PRACTICES
#### E. UNREGULATED COMPETITION WAIVERS AND OTHER VARIANCES (Cont'd.)

**UNREGULATED COMPETITION WAIVERS (Cont’d.)**

<table>
<thead>
<tr>
<th>Order Number</th>
<th>Area and/or Subdivision</th>
</tr>
</thead>
<tbody>
<tr>
<td>EAO 988</td>
<td>Westport Subdivision</td>
</tr>
<tr>
<td>EO-93-16</td>
<td>Scarborough Estates and Westport Subdivisions in Cole County, MO</td>
</tr>
<tr>
<td>EO-93-156</td>
<td>Bradford Court Subdivision</td>
</tr>
<tr>
<td>EO-93-166</td>
<td>Highway T Corridor as defined by metes and bounds in the Territorial Agreement between Company and Cuivre River Electric Cooperative dated October 30, 1992</td>
</tr>
<tr>
<td>EO-93-186</td>
<td>Royal Oaks Estates Subdivision</td>
</tr>
<tr>
<td>EO-93-266</td>
<td>Mid American Bank/Ken Otke</td>
</tr>
<tr>
<td>EO-95-27</td>
<td>SE Corner of Mo. Highways 92 and 33 in Kearney, Mo./Wayne Rickel</td>
</tr>
<tr>
<td>EO-96-431</td>
<td>Cedar Park Place Subdivision</td>
</tr>
<tr>
<td>EO-2002-1091</td>
<td>Competition Area as defined by metes and bounds in the Territorial Agreement between Company and Cuivre River Electric Cooperative dated May 23, 2002</td>
</tr>
<tr>
<td>EE-2013-0511</td>
<td>Markway Meadows Subdivision in Cole County</td>
</tr>
<tr>
<td>EE-2019-0395</td>
<td>Grantham Estates in St. Charles County</td>
</tr>
</tbody>
</table>

**OTHER VARIANCES**

<table>
<thead>
<tr>
<th>Order Number</th>
<th>Project of Customer</th>
</tr>
</thead>
<tbody>
<tr>
<td>EO-89-7</td>
<td>Orchard House</td>
</tr>
<tr>
<td>EO-93-108</td>
<td>Council Apts. II (Delcrest)</td>
</tr>
<tr>
<td>EO-96-447</td>
<td>Laclede Groves Retirement Apts.</td>
</tr>
<tr>
<td>EO-97-58</td>
<td>Garden Villas South</td>
</tr>
<tr>
<td>EO-97-467</td>
<td>Garden Villas North</td>
</tr>
<tr>
<td>EO-98-6</td>
<td>Congregation of the Mission Midwest</td>
</tr>
<tr>
<td>EO-98-68</td>
<td>Pope John Paul II Apartments</td>
</tr>
<tr>
<td>EE-2000-465</td>
<td>Hylton Point II (NBA)</td>
</tr>
<tr>
<td>EE-2001-514</td>
<td>The Volunteers of America St. Louis Affordable Housing Corp. (14th Street and Chouteau)</td>
</tr>
</tbody>
</table>

* Indicates Addition.
PILOTS, VARIANCES AND PROMOTIONAL PRACTICES

E. UNREGULATED COMPETITION WAIVERS AND OTHER VARIANCES (Cont'd.)

**OTHER VARIANCES (Cont'd.)**

<table>
<thead>
<tr>
<th>Order Number</th>
<th>Project of Customer</th>
</tr>
</thead>
<tbody>
<tr>
<td>EE-2002-1118</td>
<td>Coronado Place</td>
</tr>
<tr>
<td>EE-2003-0365</td>
<td>Lindell Towers</td>
</tr>
<tr>
<td>EE-2004-0069</td>
<td>West Pine Apartments</td>
</tr>
<tr>
<td>EE-2004-0092</td>
<td>Parkview Apartments</td>
</tr>
<tr>
<td>EE-2004-0267</td>
<td>Brentmoor at Oaktree</td>
</tr>
<tr>
<td>EE-2004-0268</td>
<td>River’s Edge Properties</td>
</tr>
<tr>
<td>EE-2005-0400</td>
<td>Vaughn Elderly Apartments</td>
</tr>
<tr>
<td>EE-2005-0486</td>
<td>Grand View Tower LLC</td>
</tr>
<tr>
<td>EE-2006-0124</td>
<td>Kingsbury Terrace Apartments</td>
</tr>
</tbody>
</table>
PILOTS, VARIANCES AND PROMOTIONAL PRACTICES

F. VOLUNTARY ELECTRONIC BILL RENDERING AND PAYMENT PROGRAM

AVAILABILITY

This program will be made available on a voluntary basis to customers who are billed under Service Classifications No. 1(M) or No. 2(M) with postcard billing (i.e., not required to have demand metering) provided customer has access to a personal computer and the Internet.

GENERAL DESCRIPTION

This program will permit the Company to deliver to program participants, including participants in the Company’s Budget Bill Plan, an electronic image of a bill through the use of the Internet, instead of mailing or hand delivery of a bill. As part of the enrollment process, the customer will choose a login identification number and a password as a means to prevent others from viewing the customer’s bills. Customers participating in this program prior to May 4, 2008 will have to affirmatively elect the discontinuation of mailed or hand delivered bills.

Company will provide the customer’s account data to CheckFree (“vendor”), which will in turn format this data into a bill layout. This electronic bill layout may not exactly resemble the customer’s paper bill layout.

The Company or the designated vendor will present the bill to the customer via the Internet and, also, provide the customer a means to pay the bill via the Internet. However, customers may continue to pay the bill via all payment options available to those not participating in the program.

CUSTOMER COST

Neither the Company nor the vendor will require the customer to pay any fee for participation in this program.

TERM

Customers may terminate participation in this program at any time.
PILOTS, VARIANCES AND PROMOTIONAL PRACTICES

G. VOLUNTARY GREEN PROGRAM/PURE POWER PROGRAM

* (Applicable To Service Provided On Or After December 8, 2019)

PURPOSE

The purpose of this Voluntary Green Program/Pure Power Program (Program) tariff is to provide customers with an option to support renewable energy technologies and education through the purchase of renewable energy credits. One renewable energy certificate (REC) represents the positive environmental attributes associated with 1,000 kWh of electricity generated by renewable energy sources such as: solar, wind, hydroelectric, geothermal, landfill gas, biomass, biodiesel used to generate electricity, agricultural crops or waste, all animal and organic waste, all energy crops and other renewable resources deemed to be Green-e Certified by the Center for Resource Solution’s Green-e Standard. Customers participating under this Program will not directly receive any renewable energy commodity or product as a result of their participation. Rather, when a customer signs up for the Program, Company shall purchase and retire Green-e Certified RECs.

AVAILABILITY

This tariff is available to customers served under, and may be used in conjunction with, the Company’s Electric Service Classifications 1(M) Residential Service Rate, 2(M) Small General Service Rate, 3(M) Large General Service Rate, 4(M) Small Primary Service Rate, 11(M) Large Primary Service Rate, 12(M) Large Transmission Service Rate or 5(M) and 6(M) Street and Outdoor Area Lighting Rates.

APPLICABILITY

The applicability of this tariff is limited to customers receiving service under the above referenced Service Classifications and who voluntarily agree to participate in this Program pursuant to the provisions herein.

MONTHLY CHARGES

A. Service Classification No 1(M):
   a) 1.00 cents per metered kWh or,
   b) $5.00 per 500 kWh block(1) or,
   c) $10.00 per 1,000 kWh block(1)

B. Service Classification No 2(M):
   a) 1.00 cents per metered kWh or,
   b) $10.00 per 1,000 kWh block(1)

C. Service Classification Nos. 3(M), 4(M), 5(M), 6(M), 11(M), and 12(M):
   $10.00 per 1,000 kWh block(1)

   (1) Minimum of one half (1/2) block for Residential Service customers and one (1) block for all other customers, regardless of usage. Actual number of blocks will be subject to agreement between Company and customer and not necessarily tied to monthly kWh usage.

* Indicates Change
PILOTS, VARIANCES AND PROMOTIONAL PRACTICES

G. VOLUNTARY GREEN PROGRAM/PURE POWER PROGRAM (Cont'd.)

* (Applicable To Service Provided On Or After December 8, 2019)

COMPANY OBLIGATIONS

The Company will purchase RECs from its contractual partner, 3 Degrees Inc, its successor, or assignee, in sufficient quantities to match the units billed under this tariff. Title to the RECs will rest with the Company and the Company will in turn retire such RECs on behalf of the customers participating in the Program and not for any other purpose. Additionally, the Company’s Program will be Green-e Certified® by the nonprofit Center for Resource Solutions.

*TERMS AND CONDITIONS

Charges for participation under this tariff shall be added to customer billings from Company for electric service. Customers will be able to withdraw or cancel participation in this Program at any time by notifying the Company. In addition, under no circumstances will the Company’s late pay charge or disconnection of service provisions as they relate to charges under this tariff be applied or implemented.

Services offered under this pilot Program shall end on June 30, 2020. Prior to that date, Company will either i) notify customers of the expiration of the pilot Program and notify customer of alternative renewable energy programs offered by Company or ii) seek approval from the Missouri Public Service Commission for a new tariff that will modify or replace this pilot Program.

TAX ADJUSTMENT

Any license, franchise, gross receipts, occupation or similar charge or tax levied by any taxing authority on the amounts billed hereunder will be added to bills rendered to customers under the jurisdiction of the taxing authority.
CHARGE AHEAD – ELECTRIC VEHICLES PROGRAM

PURPOSE

The purpose of the Charge Ahead – Electric Vehicles Program (Program) is to stimulate the development of Infrastructure within the Company's service territory that is needed to support widespread adoption of electric vehicles by the public. This will be accomplished by providing a number of targeted incentive offerings to be used to overcome initial market barriers to deployment of charging Infrastructure.

DEFINITIONS

Affiliated Entities - Any entities that directly or indirectly control, are controlled by, or are under common control with other entities, with "control" meaning the possession, directly or indirectly, of the power to direct management and policies, whether through the ownership of voting securities (if applicable) or by contract or otherwise.

Automated Emissions Reduction (AER) Costs – Costs associated with any software or digital solution designed to control EV charging in a manner that optimizes or otherwise reduces associated emissions from generation deployed to provide the energy used to charge the EV.

Demand Mitigation Solution - Any capital investment in equipment or Infrastructure designed to manage and/or mitigate the instantaneous demand placed by EVSE on the electric system, such as integrated battery or other storage solutions or demand control equipment and demand management software, but not including solar panels.

Electric Vehicle Supply Equipment (EVSE) – Equipment used to recharge electric vehicles, commonly referred to as "chargers."

Electric Vehicle Supply Equipment Costs (EVSE Costs) – EVSE equipment purchase, installation and commissioning costs, and customer electrical equipment necessary to directly support EVSE.

EV - A motor vehicle propelled entirely or in substantial part by externally generated electricity including motorcycles, and EPA vehicle classifications LDV, and LDT, HLDT, but excluding EPA-classified non-road equipment.

EV Charging Infrastructure (Infrastructure) – EVSE and the structures, equipment, and electric facilities directly necessary to connect EVSE to the electric grid and make EVSE services available to consumers.

Level 2 Charging – Alternating current charging utilizing the SAE Standard J1772 connector having typical supply voltage of 208 or 240 and common power levels of between 3kW and 7kW, and up to 20kW.

Level 3 Charging – Direct current charging utilizing CCS Combo and/or CHAdeMO connectors and having typical supply voltage of 208 or 480 and common power levels of 50kW or higher.
**DEFINITIONS (Cont'd.)**

**Line Extension Charge** - The "Extension Charge" defined in Company's General Rules & Regulations, III. Distribution System Extensions for Company facilities that must be constructed to provide service to the EVSE site.

**Multi-family Charging** - Level 2 Charging EVSE that is located at a residential premises with multiple leased dwelling units.

**Public Charging** - EVSE that is available to the general public or the customers of an establishment that is open to the general public, including but not limited to government facilities, libraries, parks, retail establishments, and restaurants.

**Site Development Costs** - Costs for activities necessary to facilitate the installation of EV Charging Infrastructure to make a site suitable including EVSE pedestals, professional design, grading, asphalt or concrete, boring or trenching. Costs not directly necessary to installation of EV Charging Infrastructure are not includable as Site Development Costs. Those costs include but are not limited to solar panels, canopies, real estate leases or easements, on site amenities, additional parking, access road work, and decorative features, or other site development work.

**Total Project Cost** - Cumulative cost of the project including i) Line Extension Charge, ii) Site Development Costs, iii) EVSE Costs, iv) AER Costs, and except for the multi-family category, Demand Mitigation Solution costs.

**Workplace Charging** - EVSE installed at a non-residential premises intended to provide vehicle charging service to employees, visitors, or fleet vehicles of the business that occupies the premises, but not to the general public. For purposes of this program, fleet vehicles shall include only those classes of vehicles reflected in the “EV” definition provided above, and shall not include vehicles for the personal use of employees or officers provided as a portion of an employee or officer's compensation.

**AVAILABILITY**

This Program is available while funds remain to existing or potential non-residential customers or multi-family property owners (excluding condominiums) that commit to installing, owning, and operating qualifying EV Charging Infrastructure and that are not in collections or have an active payment agreement with Company. Customer must agree to allow Company to access charger usage data to the extent such data is collected by customer or customer's agent.

**TERM**

The Program will begin January 1, 2020 and shall continue for a period of three years, terminating on December 31, 2022. Company may begin accepting applications prior to January 1, 2020 to the extent that it is able to do so. Applications for incentives under each category will be accepted until the earlier of the date that funding is exhausted for the category or September 30, 2022.
CHARGE AHEAD – ELECTRIC VEHICLES PROGRAM (Cont’d.)

BUDGET

Total Company-supplied budget for the Program shall not exceed $6.6 million including approximately $0.6 million allocated for administrative and marketing expenses but not including funds made available from other sources such as private, federal or state grants or programs. Each category of charging is also subject to an individual budget as follows:

<table>
<thead>
<tr>
<th>Category</th>
<th>Budget</th>
</tr>
</thead>
<tbody>
<tr>
<td>Workplace</td>
<td>$2,000,000</td>
</tr>
<tr>
<td>Multifamily</td>
<td>$1,000,000</td>
</tr>
<tr>
<td>Public Charging</td>
<td>$3,000,000</td>
</tr>
</tbody>
</table>

ELIGIBLE MEASURES AND INCENTIVES

None of the incentives indicated below shall be available to any project that will require upgrades to Company's electric distribution system other than those facilities dedicated to providing service to the customer.

The maximum incentive for any project will be the lesser of:

1. Fifty percent (50%) of Total Project Cost, or
2. The sum, for all port types, of the number of qualifying ports times the incentive rate where the incentive rate is $5,000 for Level 2 ports and $20,000 for Level 3 ports.

The maximum number of qualifying ports at each premises and the maximum rating of qualifying ports shall be as follows:

<table>
<thead>
<tr>
<th>Category</th>
<th>L2 Quantity</th>
<th>L2 Rating</th>
<th>L3 Quantity</th>
<th>L3 Rating</th>
<th>Maximum per Premises</th>
</tr>
</thead>
<tbody>
<tr>
<td>Workplace</td>
<td>10</td>
<td>40 amp @240V(1)</td>
<td>2</td>
<td>50kW Nominal(2)</td>
<td>$90,000</td>
</tr>
<tr>
<td>Multifamily</td>
<td>10</td>
<td>40 amp @240V</td>
<td>0</td>
<td>Ineligible</td>
<td>$50,000</td>
</tr>
<tr>
<td>Public Charging</td>
<td>6</td>
<td>40 amp @240V</td>
<td>2</td>
<td>50kW Nominal</td>
<td>$70,000</td>
</tr>
</tbody>
</table>

(1) no limit where EVSE will serve fleet operations
(2) only available where EVSE will serve fleet operations

Notwithstanding the limits on incentives at each individual premises, premises of Affiliated Entities may not receive total incentives under the Program of more than $500,000.

The available incentive will first be applied as an offset of the Line Extension Charge with any remaining incentive balance paid to customer. Payment will be made within sixty (60) days of completion of project and validation of customer's W-9 information.
CHARGE AHEAD – ELECTRIC VEHICLES PROGRAM (Cont’d.)

ELIGIBLE MEASURES AND INCENTIVES (Cont’d.)

Incentives as described in the Program Provisions are available on a first come first served basis to eligible customers for the installation of Level 2 Charging and Level 3 Charging Infrastructure at qualifying premises except that if applications exceed the amount of Program funding available, then preference will be given to customers that agree to any of the following: (1) to receive service under one of Company's time-of-day rates, (2) electing to utilize EnergyStar™ certified EVSE, (3) deploying Demand Mitigation Solutions, or (4) deploying AER solutions.

Program application materials and procedures are available on the Company's website at www.AmerenMissouri.com/EV.
**CHARGE AHEAD - Corridor Charging Program**

**PURPOSE**
The Purpose of the Charge Ahead Corridor Charging Program (Corridor Program) is to stimulate the development of a public minimum practical network of EV Corridor Charging infrastructure, including Level 3 DCFC, across the Company’s service territory so that EV drivers can travel throughout the area and have sufficient practical options to recharge their vehicles when needed.

**DEFINITIONS**
The following definitions shall apply for Tariff Sheet No. 165, 165.1 and 165.2:

**Corridor Charging** - EV Charging Infrastructure that is strategically located to enable long distance travel across interstate highways, state highways or other thoroughfares connecting population centers.

**DCFC Charging** - Direct Current Fast Charging, commonly referred to as "Level 3 charging" and utilized to quickly recharge electric vehicles, with a common power rating of 50kW or higher.

**Demand Mitigation Solution** - Any investment in equipment or infrastructure designed to manage and potentially mitigate the demand placed by EVSE on the electric system, such as integrated battery or other storage solutions or demand control equipment and demand management software.

**EV** - A light duty vehicle powered entirely or in part by externally generated electricity.

**Electric Vehicle Supply Equipment (EVSE)** - Equipment used to recharge electric vehicles, commonly referred to as "chargers."

**EV Charging Infrastructure** - EVSE and the structures, equipment, and electric facilities necessary to connect EVSE to the electric grid and make EVSE services available to consumers.

**Level 2 Charging** - Alternating current charging utilizing the SAE Standard J1772 connector having typical supply voltage of 208 or 240 and typical power levels of between 3kW and 7kW, and up to 20kW.

**Make Ready** - Activities and infrastructure incurring substantial costs to identify, acquire and develop sites and structures to facilitate the installation of EV Charging Infrastructure.

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DATE OF ISSUE: April 26, 2019
DATE EFFECTIVE: May 26, 2019

ISSUED BY: Michael Moehn
NAME OF OFFICER
president
TITLE
St. Louis, Missouri
ADDRESS

FILED
Missouri Public
Service Commission
ET-2018-0132; YE-2019-0192
AVAILABILITY
The Corridor Program is available to current or prospective non-residential electric customers of the Company who commit to owning and operating EV Corridor Charging Infrastructure, have been selected through a competitive bid process managed by the Company that will include a "reverse auction" related to incentives, and agree to contractual terms for operation of EV Corridor Charging at locations identified by the Company. The "reverse auction" will be part of the bid process in which bidders will compete against one another for the least amount of incentive requested (as one aspect of competitive scoring).

TERM
Applications for incentives under the Program will be accepted until the earlier of the date that all funding is exhausted or December 31, 2023.

SPECIFIC CORRIDOR PROGRAM PROVISIONS
The Company will hold competitive procurement event(s) for bidders to present plans for the development of EV Charging Infrastructure at Charging Corridor sites and apply for incentives to execute those plans. The Company will identify no less than 8 and no more than 15 Charging Corridor sites located within one (1) mile of interstate or highway interchanges, and may at its discretion package locations into groups for bidding purposes. To qualify for Corridor Charging incentives, EV Charging Infrastructure plans must include at least two (2) DCFC Charging Ports and two (2) Level 2 Charging Ports per site. Each site is eligible for incentives not to exceed $240,000 in total, except where planned DCFC Charging Ports have capacity of 100 kW or greater, in which case individual site incentives shall not exceed $360,000 in total. Bids will include the detailed specifications of EV Charging Infrastructure to be installed and total incentive funding requested, as well as other relevant information that will be detailed in the Request for Proposals. Selection of winning bids will be awarded to sites based on consideration of the incentives required by the bidder as well as qualitative factors included in the bid, including but not limited to quality of references, experience, equipment history, EVSE charging rate, quality of location, and customer experience. Winning bidders will enter into contracts committing to meeting operational performance criteria specified by the Company for a minimum five (5) year and up to a maximum ten (10) year term in order to receive incentives.
CHARGE AHEAD - Corridor Charging Program (Cont'd.)

ELIGIBLE MEASURES AND INCENTIVES

Incentives will be provided based on the bids selected by the Company not to exceed the totals identified in the Corridor Program provisions. Incentives may be used for the following types of project costs:

1. Line extension – incentives may be applied to increase the "Extension Allowance" to match the "Extension Cost" (as those terms are defined in the Distribution System Extension provisions of the Company's tariff) of any Company facilities that must be constructed to provide service to the site.

2. Demand mitigation solutions if applicable to the proposal – incentives may be applied to capital costs for implementation of Demand Mitigation Solutions. Energy storage solutions may be owned by either Company or customer as agreed to by the parties. Under either circumstance, the costs of implementation will be counted against the total incentive pool available.

3. Make Ready – incentives may be applied to costs for Make Ready activities. These activities may be performed by Customer or the Company as agreed to by the parties. Under either circumstance the costs of implementation will be counted against the incentive pool available. Real estate leases or easements are not an eligible cost.

4. EVSE – incentives may be applied to the upfront cost of charging equipment, to be owned by customer-operator.

Incentives applied to work performed by or equipment owned by customer are to be paid according to a negotiated contract developed and agreed upon as part of the competitive procurement process.

BUDGET

Total Company-supplied budget for the Corridor Program shall not exceed $4.4 million, not including funds made available from other sources such as private, federal or state grants or programs. When Corridor Program funding is exhausted, the Corridor Program will no longer be available.
<table>
<thead>
<tr>
<th>Date of Issue</th>
<th>May 31, 2013</th>
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<tbody>
<tr>
<td>Date Effective</td>
<td>June 30, 2013</td>
</tr>
<tr>
<td>Issued by</td>
<td>Warner L. Baxter</td>
</tr>
<tr>
<td></td>
<td>President &amp; CEO</td>
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<tr>
<td></td>
<td>St. Louis, Missouri</td>
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UNION ELECTRIC COMPANY

ELECTRIC SERVICE

MO.P.S.C. SCHEDULE NO. 6

Original

SHEET NO. 168

CANCELING MO.P.S.C. SCHEDULE NO. ___________

SHEET NO. _______

APPLYING TO MISSOURI SERVICE AREA

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THIS SHEET RESERVED FOR FUTURE USE

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DATE OF ISSUE May 31, 2013

DATE EFFECTIVE June 30, 2013

ISSUED BY Warner L. Baxter President & CEO St. Louis, Missouri

NAME OF OFFICER TITLE ADDRESS

FILED Missouri Public Service Commission ET-2013-0546; JE-2013-0582
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ELECTRIC POWER PURCHASES

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# Electric Power Purchases

**ELECTRIC POWER PURCHASES FROM QUALIFYING FACILITIES**

## 1. Standard Rates for Purchase

The standard rates for purchase from a customer with a design capacity of 500 kW or less are as follows:

**a. Non-Time - Differentiated Energy Rate**

- **Summer Rate** (Applicable during 4 monthly billing periods of June through September)
  - Summer: 3.15¢ per kWh

- **Winter Rate** (Applicable during 8 monthly billing periods of October through May)
  - Winter: 2.90¢ per kWh

**b. Time-Differentiated Energy Rate**

- **Summer Rate** (Applicable during 4 monthly billing periods of June through September)
  - Weekday (10 AM - 10 PM): 3.99¢ per kWh
  - Weekday (10 PM - 10 AM): 2.53¢ per kWh
  - Saturday, Sunday, Holiday (1): 2.91¢ per kWh

- **Winter Rate** (Applicable during 8 monthly billing periods of October through May)
  - Weekday (10 AM - 10 PM): 3.18¢ per kWh
  - Weekday (10 PM - 10 AM): 2.79¢ per kWh
  - Saturday, Sunday, Holiday (1): 2.71¢ per kWh


- **c. Customer Charge (per meter required for parallel operation)**

<table>
<thead>
<tr>
<th>Type</th>
<th>Single Phase</th>
<th>Three Phase</th>
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<tr>
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<td>$6.00 per month</td>
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<tr>
<td>Time Differentiated Energy</td>
<td>$13.00 per month</td>
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</table>

*Indicates Revision
2. APPLICATION

This tariff applies to purchases of electric energy or electric energy and capacity from Qualifying Facilities (hereinafter referred to as "Customer") under the provisions of Rule 4 CSR 240-20.060 of the Missouri Public Service Commission (Commission).

* Company shall not be obligated to enter into new contracts or obligations to purchase electric energy or capacity from Qualifying Facilities with a net capacity larger than 20,000 kilowatts as ordered by the Federal Energy Regulatory Commission in Docket No. QM16-2-000 on June 30, 2016.

3. BILLING

Monthly billing between Company and Customer shall be in accordance with the Contract between the parties.

4. CONTRACT

Whether or not purchases are made by Company under the standard rates, the Company shall not be required to make any purchase from Customer until Company and Customer have entered into a written contract for such purchases.

5. GENERAL RULES AND REGULATIONS

All provisions of this tariff are subject to all Commission rules and regulations as may be revised from time-to-time. All terms of the tariff are also subject to the Commission’s normal complaint and arbitration procedures.

*Indicates Addition
GUIDELINE TECHNICAL REQUIREMENTS FOR PARALLEL OPERATION WITH THE COMPANY’S SYSTEM

Introduction

The minimum technical requirements for safe parallel operation of Customer-owned electrical generating facilities with the Company’s system are set forth below. These requirements will serve as a guide for Company and Customer engineering when planning such an installation; however, it is recognized that each installation may have specific requirements other than those set forth herein as a result of each installation’s unique nature.

General Technical Requirements

1. Protection

Customer shall install protective devices capable of detecting fault conditions on both his system and the Company’s system. These devices will separate Customer’s system from the Company’s system either directly or through an auxiliary device such as a circuit breaker. The separating device must be capable of interrupting the available fault current. The detection sensitivity and operating speed of these devices must be compatible with protective devices on the Company’s system.

The Customer shall install equipment designed to automatically separate his system from the Company’s system upon loss of the normal Company supply.

The Customer is responsible for protecting Customer-owned equipment in such a manner that faults or other disturbances on the Company’s system or on Customer’s system do not cause damage to his equipment.

Customer shall furnish information to Company regarding his proposed generation equipment and protective devices prior to parallel operation. Company will check the adequacy of this proposed equipment and its compatibility with protective devices on the Company’s system and will either approve as submitted or specify additional equipment which will be required in order to begin parallel operation with the Company’s system.

All protective relay settings that would affect any Company system relay settings will be specified by Company. These relays will be initially calibrated by Company to assure proper operation.

A manual visible disconnect switch must be provided which is under the exclusive jurisdictional control of the Company dispatcher. This manual switch must have the capability to be locked out of service by a Company-authorized switchman.
ELECTRIC POWER PURCHASES FROM QUALIFYING FACILITIES (Cont'd.)

General Technical Requirements (Cont'd.)

1. **Protection (Cont'd.)**
   The above statements are the basic minimum protection requirements that would be associated with parallel generation. Additional requirements and/or equipment would depend on an in-depth study of each proposed connection.

2. **Operation**
   Under certain conditions the intertie breaker (if one is required) must be operated by Customer in order for Company to operate the manual disconnect switch. Company may request this action for any of the following reasons:
   a. System emergency.
   b. Inspection of Customer’s generating equipment or protective equipment reveals an unsafe condition.
   c. Customer’s generating equipment interferes with other customers or with the operation of the Company’s system.
   d. An outage is scheduled on the Company’s supply circuit or feeder.

   Customer shall be solely responsible for properly synchronizing his generating equipment with the Company’s frequency and voltage. This includes resynchronizing his generator(s) after system outages or disturbances.

3. **Quality of Service**
   The interconnection of Customer’s generating equipment with the Company’s system shall not cause any reduction in the quality of service being provided to other customers or cause any undesirable effect on any Company facilities.

   In order to achieve this objective, wave form guidelines presently applicable to Customer’s facility and which are measured at the point of interconnection between the Company and the qualifying facility are as follows:
   a. The phase unbalance must be less than 1%.
   b. The arithmetic sum of harmonics in the current or voltage must be less than 10%, and
   c. The root of the sum of the squares of harmonics in the current or voltage must be less than 5%.

   The above lists should be viewed as general guidelines which are subject to change as dictated by experience as well as the unique nature of the electrical system at each point of interconnection.

   The power factor of Customer’s load with his generating equipment connected shall not be less than that specified by retail tariff for his applicable customer class.
ELECTRIC POWER PURCHASES

ELECTRIC POWER PURCHASES FROM QUALIFYING FACILITIES (Cont'd.)

General Technical Requirements (Cont'd.)

4. Metering

Parallel generating facilities connected to Company’s system are divided into two groups: (a) “Two-way Power Flow,” and (b) “One-way Power Flow.” “Two-way Power Flow” would apply to Customer’s facilities whose load is sufficiently variable or smaller than its generating capacity so that excess Customer-generated power could flow into the Company’s system. “One-way Power Flow” would apply to Customer’s facilities whose load is significantly larger than their generating capacity so that no Customer-generated power would flow into the Company’s system except under fault conditions.

a. Two-way Power Flow

This type of installation provides for the interchange of energy in either direction as a normal operating mode.

The revenue metering for Two-way Power Flow installations shall include two series connected watthour meters with detents. One meter shall be connected to measure energy supply to Customer from Company; the other meter shall measure Customer-generated energy supplied to Company. The meter detents prevent operation of either meter in the reverse direction.

Additional metering may or may not be required depending on the terms of the contract between Company and Customer.

b. One-way Power Flow

This type of installation does not allow the interchange of energy from Customer to the Company.

The intertie circuit breaker will be tripped by equipment capable of detecting the reverse power flow condition toward the Company’s system.

This type installation requires a single revenue meter installation with detent to prevent operation of the meter in the reverse direction.

Additional metering may or may not be required depending on the terms of a contract between Company and Customer.

5. Other Requirements

All Customer installations shall adhere to any applicable requirements of the National Electrical Safety Code, the National Electric Code, Institute of Electrical and Electronics Engineers (IEEE), Underwriters Laboratories (UL), local electric codes, applicable NEMA codes, OSHA, and Company’s Electric Service Rules as set forth in published tariffs.

Customer will bear all interconnection costs of parallel operation over and above the normal cost to serve his load.
ELECTRIC POWER PURCHASES

ELECTRIC POWER PURCHASES FROM QUALIFIED NET METERING UNITS

1. BILLING

   a. Energy Pricing and Billing

      Each billing period, Company shall measure the net electrical energy produced or consumed and bill the Customer-Generator as follows:

      i. If the electricity supplied by Company exceeds the electricity supplied by the Customer-Generator to Company, Company’s bill will reflect the net electricity supplied by Company and the Customer-Generator’s current service classification.

      ii. If the electricity supplied by Company is less than the electricity supplied by the Customer-Generator to Company, Company’s bill will include a credit for the net electricity received by Company in accordance with the Net Metering Rate (Avoided Fuel Cost) in Section 1.c) below.

   b. Minimum Bill

      Net metering does not modify or eliminate any Customer obligation(s) or billing provision(s) of the Customer’s current rate schedule for delivery of electric power and energy such as the Customer Charge or any minimum billing demand (if applicable).

   c. *Net Metering Rate (Avoided Fuel Cost)

      Summer Rate (Applicable during 4 monthly billing periods of June through September)

      Summer 3.15¢ per kWh

      Winter Rate (Applicable during 8 monthly billing periods of October through May)

      Winter 2.90¢ per kWh

      The above rates are updated during each odd-numbered year with the update typically effective February 15.

*Indicates Revision
ELECTRIC POWER PURCHASES

ELECTRIC POWER PURCHASES FROM QUALIFIED NET METERING UNITS (Cont’d.)

*2. APPLICATION

This tariff applies to Company purchases of electric energy from Qualified Net Metering Units (hereinafter referred to as “Customer-Generator”) under the provisions of Section 386.890 RSMo. the ‘Net Metering and Easy Connection Act’. The Customer-Generator must meet the general technical requirements, testing requirements, and liability requirements listed under the provisions of Section 386.890 RSMo. the ‘Net Metering and Easy Connection Act’, as well as the requirements specified in the Customer-Generators’ applicable rate class under the Company’s Schedule 6 – Schedule of Rates for Electric Service. Service under this rate shall be evidenced by a contract between Customer-Generator and the Company per the Interconnection Application/Agreement for Net Metering Systems With Capacity of 100 kW or less.

The availability of net metering is limited to those types of generation that have been certified by the Missouri Department of Economic Development’s Division of Energy as renewable energy resources and which is intended primarily to offset part or all of the customer-generator’s own electrical energy requirements. Net metering cannot be elected in conjunction with “Optional Time-of-Day Rate” service of any of Company’s rate schedule.

Company will provide net metering service until the total rated generating capacity used by Customer-Generators is equal to or in excess of five percent (5.0%) of Company’s single-hour peak load during the previous year. However in a given calendar year, no retail electric supplier shall be required to approve any application for interconnection if the total rated generating capacity of all application for interconnection already approved to date by said supplier in said calendar year equals or exceeds one percent (1.0%) of said supplier’s single-hour peak load for the previous calendar year.

3. CONTRACT

Whether or not purchases are made by Company under the standard rates, Company shall not be required to make any purchase from Customer-Generator until Company and Customer-Generator have entered into a written contract for such purchases.

4. GENERAL RULES AND REGULATIONS

All provisions of this tariff are subject to all Commission rules and regulations as may be revised from time-to-time. All terms of the tariff are also subject to the Commission’s normal complaint and arbitration procedures.

*Indicates Change
GUIDELINE TECHNICAL REQUIREMENTS FOR PARALLEL OPERATION WITH THE COMPANY’S SYSTEM

Introduction

The minimum technical requirements for safe parallel operation of Customer-Generator’s electrical generating facilities with the Company’s system are set forth below. These requirements will serve as a guide for Company and Customer-Generator engineering when planning such an installation; however, it is recognized that each installation may have specific requirements other than those set forth herein as a result of each installation’s unique nature.

General Technical Requirements

1. Protection

Customer-Generator shall install protective devices capable of detecting fault conditions on both his system and the Company’s system. These devices will separate Customer-Generator’s system from the Company’s system either directly or through an auxiliary device such as a circuit breaker. The separating device must be capable of interrupting the available fault current. The detection sensitivity and operating speed of these devices must be compatible with protective devices on the Company’s system.

The Customer-Generator shall install equipment designed to automatically separate his system from the Company’s system upon loss of the normal Company supply.

The Customer-Generator is responsible for protecting Customer-Generator’s equipment in such a manner that faults or other disturbances on the Company’s system or on Customer-Generator’s system do not cause damage to his equipment.

Customer-Generator shall furnish information to Company regarding his proposed generation equipment and protective devices prior to parallel operation. Company will check the adequacy of this proposed equipment and its compatibility with protective devices on the Company’s system and will either approve as submitted or specify additional equipment which will be required in order to begin parallel operation with the Company’s system.

All protective relay settings that would affect any Company system relay settings will be specified by Company. These relays will be initially calibrated by Company to assure proper operation.

A manual visible disconnect switch must be provided which is under the exclusive jurisdictional control of the Company’s dispatcher. This manual switch must have the capability to be locked out of service by a Company-authorized switchman.
General Technical Requirements (Cont'd.)

1. Protection (Cont'd.)
   The above statements are the basic minimum protection requirements that would be associated with parallel generation. Additional requirements and/or equipment would depend on an in-depth study of each proposed connection.

2. Operation
   Under certain conditions the intertie breaker (if one is required) must be operated by Customer-Generator in order for Company to operate the manual disconnect switch. Company may request this action for any of the following reasons:
   a. System emergency.
   b. Inspection of Customer-Generator’s generating equipment or protective equipment reveals an unsafe condition.
   c. Customer-Generator’s generating equipment interferes with other customers or with the operation of the Company’s system.
   d. An outage is scheduled on the Company’s supply circuit or feeder.

   Customer-Generator shall be solely responsible for properly synchronizing his generating equipment with the Company’s frequency and voltage. This includes resynchronizing his generator(s) after system outages or disturbances.

3. Quality of Service
   The interconnection of Customer-Generator’s generating equipment with the Company’s system shall not cause any reduction in the quality of service being provided to other customers or cause any undesirable effect on any Company facilities. Such interconnection shall be pursuant to the latest revision of IEEE 519 and IEEE 1547.

   The power factor of Customer-Generator’s load with his generating equipment connected shall not be less than that specified by retail tariff for his applicable customer class.

4. Metering and/or Additional Distribution Equipment
   The revenue metering for Net Metering shall be sufficient to measure the net amount of electrical energy produced or consumed by the Customer-Generator. If the Customer-Generator’s existing meter equipment does not meet these requirements or if it is necessary for Company to install additional distribution equipment to accommodate the Customer-Generator’s facility, the Customer-Generator shall reimburse the Company for the costs to purchase and install the necessary additional equipment.
ELECTRIC POWER PURCHASES

ELECTRIC POWER PURCHASES FROM QUALIFIED NET METERING UNITS (Cont'd.)

General Technical Requirements (Cont'd.)

4. Metering and/or Additional Distribution Equipment (Cont'd.)
   At the request of the Customer-Generator, such costs may be initially paid for by Company, and any amount up to the total costs and a reasonable interest charge may be recovered from the Customer-Generator over the course of up to twelve (12) billing periods. Net Metering cannot occur until the installation of such meter(s) and/or additional distribution equipment has been completed.

5. Other Requirements
   All Customer-Generator installations shall adhere to any applicable requirements of the National Electrical Safety Code, the National Electric Code, Institute of Electrical and Electronics Engineers (IEEE), Underwriters Laboratories (UL), local electric codes, applicable NEMA codes, OSHA, and Company's Electric Service Rules as set forth in published tariffs.

*6. Approval of Submitted Application and Design
   Company will approve or reject the application and design submitted by Customer. If an application or design and the supporting documentation are materially incomplete, the application will be invalid and rejected and the customer and developer will be so notified.

   Company will notify the customer and developer of any application or design deficiencies, errors or omissions identified or clarifications requested by Company.

   Company will post information on its website www.ameren.com indicating what is required for an application to be considered complete as well as guidance regarding the types of deficiencies, errors, omissions or clarifications that, if corrected, will not result in a rejection.

*Indicates Change
INTERCONNECTION APPLICATION/AGREEMENT FOR NET METERING SYSTEMS
WITH CAPACITY OF 100 KW OR LESS

*Union Electric d/b/a Ameren Missouri (Company) Address:
One Ameren Plaza
1901 Chouteau Avenue
P.O. Box 66149, MC 921
St. Louis MO  63103
Att: General Executive, Renewables

*For Customers Applying for Interconnection:
If you are interested in applying for interconnection to Company’s electrical system, you should first contact Company and ask for information related to interconnection of parallel generation equipment to Company’s system and you should understand this information before proceeding with this Application.

If you wish to apply for interconnection to Company’s electrical system, please complete sections A, B, C, and D, and attach the plans and specifications including, but not limited to, describing the net metering, parallel generation, and interconnection facilities (hereinafter collectively referred to as the “Customer-Generator’s System”) and submit them to Company at the address above.

The Company will provide notice of approval or denial within thirty (30) days of receipt by Company for Customer-Generators of ten kilowatts (10 kW) or less and within ninety (90) days of receipt by Company for Customer-Generators of greater than ten kilowatts (10 kW). If this Application is denied, you will be provided with the reason(s) for the denial. If this Application is approved and signed by both you and Company, it shall become a binding contract and shall govern your relationship with Company.

*For Customers Who Have Received Approval of Customer-Generator System Plans and Specifications:
After receiving approval of your Application, it will be necessary to construct the Customer-Generator System in compliance with the plans and specifications described in the Application, complete sections E and F of this Application, and forward this Application to Company for review and completion of section G at the address above. Prior to the interconnection of the qualified generation unit to Company’s system, the Customer-Generator will furnish Company a certification from a qualified professional electrician or engineer that the installation meets the plans and specification described in the application. If a local Authority Having Jurisdiction (AHJ) requires permits or certifications for construction or operation of the qualified generation unit, a Customer-Generator must show the permit number and approval certification to Company prior to interconnection. If the application for interconnection is approved by Company and the Customer-Generator does not complete the interconnection within one (1) year after receipt of notice of the approval, the approval shall expire and the Customer-Generator shall be responsible for filing a new application.

*Indicates Change
INTERCONNECTION APPLICATION/AGREEMENT FOR NET METERING SYSTEMS WITH CAPACITY OF 100 kW OR LESS (Cont'd.)

*For Customers Who Have Received Approval of Customer-Generator System Plans and Specifications (Cont'd.):

Within 21 days of when the Customer-Generator completes submission of all required post construction documentation, including sections E&F, other supporting documentation and local AHJ inspection approval (if applicable) to Company, Company will make any inspection of the Customer-Generators interconnection equipment or system it deems necessary and notify the Customer-Generator:

1. That the bidirectional meter has been set and parallel operation by Customer-Generator is permitted; or

2. That the Company’s inspection identified no deficiencies and the bidirectional meter installation is pending; or

3. That the Company’s inspection identified no deficiencies and the timeframe anticipated for Company to complete all required system or service upgrades and install the bidirectional meter; or

4. Of all deficiencies identified during the Company’s inspection that need to be corrected by the Customer-Generator before parallel operation will be permitted; or

5. Of any other issue(s), requirement(s) or condition(s) impacting the installation of the bidirectional meter or the parallel operation of the system.

*For Customers Who Are Installing Solar Systems:

Ameren Missouri solar rebate funds are no longer available for new applicants. However, if you submitted an application in December 2013 you are in the rebate commitment queue. Please refer to Company’s Rider SR – Solar Rebate for the applicable rebate rate and additional details and requirements. For those eligible, the rebate is limited to 25,000 watts (25 kW) and the rebate rate will be based on the following schedule:

- $2.00 per watt for systems operational on or before June 30, 2014;
- $1.50 per watt for systems operational between July 1, 2014 and June 30, 2015;
- $1.00 per watt for systems operational between July 1, 2015 and June 30, 2016;
- $0.50 per watt for systems operational between July 1, 2016 and June 30, 2019;
- $0.25 per watt for systems operational between July 1, 2019 and June 30, 2020;
- $0.00 per watt for systems operational after June 30, 2020.

*Indicates Change
INTERCONNECTION APPLICATION/AGREEMENT FOR NET METERING SYSTEMS WITH CAPACITY OF 100 kW OR LESS – (Cont’d.)

*For Customers Who Are Assuming Ownership or Operational Control of an Existing Customer-Generator System:

If no changes are being made to the existing Customer-Generator System, complete sections A, D and F of this Application/Agreement and forward to Company at the address above. Company will review the new Application/Agreement and shall approve such, within fifteen (15) days of receipt by Company, if the new Customer-Generator has satisfactorily completed Application/Agreement, and no changes are being proposed to the existing Customer-Generator System. There are no fees or charges for the Customer-Generator who is assuming ownership or operational control of an existing Customer-Generator System if no modifications are being proposed to that System.

*Indicates Reissue

DATE OF ISSUE March 13, 2017  DATE EFFECTIVE April 12, 2017

ISSUED BY Michael Moehn President St. Louis, Missouri

NAME OF OFFICER TITLE ADDRESS

FILED Missouri Public Service Commission EE-2017-0235; JE-2017-0174
* A. Customer-Generator’s Information

Name on Company Electric Account: ____________________________________________

Service/Street Address: _______________________________________________________

City: ___________________________ State: ____________ Zip Code: _________________

Mailing Address (if different from above): _______________________________________

City: ___________________________ State: ____________ Zip Code: _________________

Electric Account Holder Contact Person: _______________________________________

Electric Account Holder E-mail address (if available): _____________________________

Daytime Phone: __________________ Fax: __________________

Emergency Contact Phone: ____________________________________________________

Company Account No. (from Utility Bill): _______________________________________

* If account has multiple meters, provide the meter number to which generation will be connected: __________

* B. Customer-Generator’s System Information

Manufacturer Name Plate: Power Rating: ______________ kW AC or DC (circle one)

Voltage: ____________________________ Volts

System Type: ___Wind, ___Fuel Cell, ___Solar Thermal, ___Photovoltaic, ___Hydroelectric,

___Other (describe) __________________________________________________________

Inverter/Interconnection Equipment Manufacturer: ________________________________

Inverter/Interconnection Equipment Model No.: __________________________________

Outdoor Manual/Utility Accessible & Lockable Disconnect Switch Distance from Meter: _______

Describe the location of the disconnect switch: ______________________________________

* If disconnect switch is greater than 10 feet from electric service meter, describe why an alternate location is being requested: ____________________________________________________________

Existing Electrical Service Capacity: _______ Amperes Voltage: _________ Volts

Service Character: Single Phase ___ Three Phase _____

Total capacity of existing Customer-Generator System (if applicable): __________ kW

System Plans, Specifications and Wiring Diagram must be attached for a valid application.

*Indicates Change
INTERCONNECTION APPLICATION/AGREEMENT FOR NET METERING SYSTEMS WITH CAPACITY OF 100 kW OR LESS – (Cont’d.)

C. Installation Information/Hardware and Installation Compliance

Company Installing System: _________________________________________________________________

Contact Person of Company Installing System: ______________________ Phone Number: _______________

Contractor’s License No. (if applicable): _______________________________________________________

Approximate Installation Date: _______________________________________________________________

Mailing Address: __________________________________________________________________________

City: ___________________________________________ State: ______________ Zip Code: ____________

Daytime Phone: _______________ Fax: _______________ E-Mail: _________________________________

Person or Agency Who Will Inspect/Certify Installation: _______________________________________

The Customer-Generator’s proposed System hardware complies with all applicable National Electrical Safety Code (NESC), National Electrical Code (NEC), Institute of Electrical and Electronics Engineers (IEEE) and Underwriters Laboratories (UL) requirements for electrical equipment and their installation. As applicable to System type, these requirements include, but are not limited to, UL 1703, UL 1741 and IEEE 1547. The proposed installation complies with all applicable local electrical codes and all reasonable safety requirements of Company. The proposed System has a lockable, visible AC disconnect device, accessible at all times to Company personnel and switch is located adjacent to the Customer-Generator’s electric service meter (except in cases where Company has approved an alternate location). The System is only required to include one lockable, visible disconnect device, accessible to Company. If the interconnection equipment is equipped with a visible, lockable, and accessible disconnect, no redundant device is needed to meet this requirement.

The Customer-Generator’s proposed System has functioning controls to prevent voltage flicker, DC injection, overvoltage, undervoltage, overfrequency, underfrequency, and overcurrent, and to provide for System synchronization to Company’s electrical system. The proposed System does have an anti-islanding function that prevents the generator from continuing to supply power when Company’s electric system is not energized or operating normally. If the proposed System is designed to provide uninterruptible power to critical loads, either through energy storage or back-up generation, the proposed System includes a parallel blocking scheme for this backup source that prevents any backflow of power to Company’s electrical system when the electrical system is not energized or not operating normally.

Signed (Installer): _________________________________________________ Date: ___________________

Name (Print): ____________________________________________________________________________

*Indicates Change
INTERCONNECTION APPLICATION/AGREEMENT FOR NET METERING SYSTEMS WITH CAPACITY OF 100 kW OR LESS – (Cont’d.)

D. Additional Terms and Conditions

In addition to abiding by Company’s other applicable rules and regulations, the Customer-Generator understands and agrees to the following specific terms and conditions:

*1. Operation/Disconnection

If it appears to Company, at any time, in the reasonable exercise of its judgment, that operation of the Customer-Generator’s System is adversely affecting safety, power quality or reliability of Company’s electrical system, Company may immediately disconnect and lock-out the Customer-Generator’s System from Company’s electrical system. The Customer-Generator shall permit Company’s employees and inspectors reasonable access to inspect, test, and examine the Customer-Generator’s System.

**2. Liability

Liability insurance is not required for Customer-Generators of ten kilowatts (10 kW) or less. For Customer-Generators greater than ten kilowatts (10 kW), the Customer-Generator agrees to carry no less than one hundred thousand dollars ($100,000) of liability insurance that provides for coverage of all risk of liability for personal injuries (including death) and damage to property arising out of or caused by the operation of the Customer-Generator’s System. Insurance may be in the form of an existing policy or an endorsement on an existing policy.

Customer-Generators, including those whose systems are ten kilowatts (10 kW) or less, may have legal liabilities not covered under their existing insurance policy in the event the Customer-Generator’s negligence or other wrongful conduct causes personal injury (including death), damage to property, or other actions and claims.

*3. Metering and Distribution Costs

A Customer-Generator’s facility shall be equipped with sufficient metering equipment that can measure the net amount of electrical energy produced or consumed by the Customer-Generator. If the Customer-Generator’s existing meter equipment does not meet these requirements or if it is necessary for Company to install additional distribution equipment to accommodate the Customer-Generator’s facility, the Customer-Generator shall reimburse Company for the costs to purchase and install the necessary additional equipment. At the request of the Customer-Generator, such costs may be initially paid for by Company, and any amount up to the total costs and a reasonable interest charge may be recovered from the Customer-Generator over the course of up to twelve (12) billing cycles. Any subsequent meter testing, maintenance, or meter equipment change necessitated by the Customer-Generator shall be paid for by the Customer-Generator.
D. Additional Terms and Conditions (Cont’d.)

*4. **Ownership of Renewable Energy Credits or Renewable Energy Certificates (REC’s)**

Renewable Energy Credits (RECs) created through the generation of electricity by the Customer-Owner are owned by the Customer-Generator; however, if the Customer-Generator receives a solar rebate the Customer-Generator transfers to Company all right, title, and interest in and to the RECs associated with the new or expanded solar electric system that qualified the Customer-Generator for the solar rebate for a period of ten (10) years from the date Company confirms the solar electric system was installed and operational.

*5. **Energy Pricing and Billing**

The net electric energy delivered to the Customer-Generator shall be billed in accordance with the Company’s applicable Rate Schedule No. 6, Schedule of Rates for Electricity. The value of the net electric energy delivered by the Customer-Generator to Company shall be credited in accordance with the net metering rate contained in Company's Electric Power Purchases From Qualified Net Metering Units tariff. The Customer-Generator shall be responsible for all other bill components charged to similarly situated customers that are not Customer-Generators.

Net electrical energy measurement shall be calculated in the following manner:

a. For a Customer-Generator, a retail electric supplier shall measure the net electrical energy produced or consumed during the billing period in accordance with normal metering practices for customers in the same rate class, either by employing a single, bidirectional meter that measures the amount of electrical energy produced and consumed, or by employing multiple meters that separately measure the Customer-Generator’s consumption and production of electricity;

b. If the electricity supplied by the supplier exceeds the electricity generated by the Customer-Generator during a billing period, the Customer-Generator shall be billed for the net electricity supplied by the supplier in accordance with normal practices for customers in the same rate class;

c. If the electricity generated by the Customer-Generator exceeds the electricity supplied by the supplier during a billing period, the Customer-Generator shall be billed for the appropriate customer charges as specified by the applicable Customer-Generator rate schedule for that billing period and shall be credited an amount for the excess kilowatt-hours generated during the billing period at the net metering rate identified in Company’s tariff filed at the Public Service Commission, with this credit applied to the following billing period; and

d. Any credits granted by this subsection shall expire without any compensation at the earlier of either twelve (12) months after their issuance, or when the Customer-Generator disconnects service or terminates the net metering relationship with the supplier.

* Indicates Change
D. Additional Terms and Conditions (Cont’d.)

*6. Terms and Termination Rights

This Agreement becomes effective when signed by both the Customer-Generator and Company, and shall continue in effect until terminated. After fulfillment of any applicable initial tariff or rate schedule term, the Customer-Generator may terminate this Agreement at any time by giving Company at least thirty (30) days prior written notice. In such event, the Customer-Generator shall, no later than the date of termination of Agreement, completely disconnect the Customer-Generator’s System from parallel operation with Company’s system. Either party may terminate this Agreement by giving the other party at least thirty (30) days prior written notice that the other party is in default of any of the terms and conditions of this Agreement, so long as the notice specifies the basis for termination, and there is an opportunity to cure the default. This Agreement may also be terminated at any time by mutual agreement of the Customer-Generator and Company. This Agreement may also be terminated, by approval of the Commission, if there is a change in statute that is determined to be applicable to this contract and necessitates its termination.

*7. Transfer of Ownership

If operational control of the Customer-Generator’s System transfers to any other party than the Customer-Generator, a new Application/Agreement must be completed by the person or persons taking over operational control of the existing Customer-Generator System. Company shall be notified no less than thirty (30) days before the Customer-Generator anticipates transfer of operational control of the Customer-Generator’s System. The person or persons taking over operational control of Customer-Generator’s System must file a new Application/Agreement, and must receive authorization from Company, before the existing Customer-Generator System can remain interconnected with Company’s electrical system. The new Application/Agreement will only need to be completed to the extent necessary to affirm that the new person or persons having operational control of the existing Customer-Generator System completely understand the provisions of this Application/Agreement and agrees to them. If no changes are being made to the Customer-Generator’s System, completing sections A, D and F of this Application/Agreement will satisfy this requirement. If no changes are being proposed to the Customer-Generator System, Company will assess no charges or fees for this transfer. Company will review the new Application/Agreement and shall approve such, within fifteen (15) days, if the new Customer-Generator has satisfactorily completed the Application/Agreement, and no changes are being proposed to the existing Customer-Generator System. Company will then complete section G and forward a copy of the completed Application/Agreement back to the new Customer-Generator, thereby notifying the new Customer-Generator that the new Customer-Generator is authorized to operate the existing Customer-Generator System in parallel with Company’s electrical system. If any changes are planned to be made to the existing Customer-Generator System that in any way may degrade or significantly alter that System’s output characteristics, then the Customer-Generator shall submit to Company a new Application/Agreement for the entire Customer-Generator System and all portions of the Application/Agreement must be completed.
INTERCONNECTION APPLICATION/AGREEMENT FOR NET METERING SYSTEMS WITH
CAPACITY OF 100 kW OR LESS – (Cont’d.)

D. Additional Terms and Conditions (Cont’d.)

*8. Dispute Resolution

If any disagreements between the Customer-Generator and Company arise that cannot be resolved through normal negotiations between them, the disagreements may be brought to the Missouri Public Service Commission by either party, through an informal or formal complaint. Procedures for filing and processing these complaints are described in 4 CSR 240-2.070. The complaint procedures described in 4 CSR 240-2.070 apply only to retail electric power suppliers to the extent that they are regulated by the Missouri Public Service Commission.

*9. Testing Requirement

IEEE 1547 requires periodic testing of all interconnection related protective functions. The Customer-Generator must, at least once every year, conduct a test to confirm that the Customer-Generator’s net metering unit automatically ceases to energize the output (interconnection equipment output voltage goes to zero) within two (2) seconds of being disconnected from Company’s electrical system. Disconnecting the net metering unit from Company’s electrical system at the visible disconnect switch and measuring the time required for the unit to cease to energize the output shall satisfy this test. The Customer-Generator shall maintain a record of the results of these tests and, upon request by Company, shall provide a copy of the test results to Company. If the Customer-Generator is unable to provide a copy of the test results upon request, Company shall notify the Customer-Generator by mail that Customer-Generator has thirty (30) days from the date the Customer-Generator receives the request to provide to Company, the results of a test. If the Customer-Generator’s equipment ever fails this test, the Customer-Generator shall immediately disconnect the Customer-Generator’s System from Company’s system. If the Customer-Generator does not provide results of a test to Company within thirty (30) days of receiving a request from Company or the results of the test provided to Company show that the Customer-Generator’s net metering unit is not functioning correctly, Company may immediately disconnect the Customer-Generator’s System from Company’s system. The Customer-Generator’s System shall not be reconnected to Company’s electrical system by the Customer-Generator until the Customer-Generator’s System is repaired and operating in a normal and safe manner.

**10. Future Rates

Customer electricity rates, charges and service fees determined by the Missouri Public Service Commission are subject to change. Future rate adjustments may positively or negatively impact financial savings projected from your generation investment. Ameren Missouri makes no guarantees regarding savings based on future electricity rate projections, including those formulated by third parties.

I have read, understand, and accept the provisions of Section D, subsections 1 through 9 of this Application/Agreement.

Signed (Customer-Generator): ____________________________ Date: __________

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Missouri Public Service Commission
EE-2017-0235; JE-2017-0174
INTERCONNECTION APPLICATION/AGREEMENT FOR NET METERING SYSTEMS WITH
CAPACITY OF 100 kW OR LESS – (Cont’d.)

*E. Electrical Inspection
If a local Authority Having Jurisdiction (AHJ) governs permitting/inspection of project:

Authority Having Jurisdiction (AHJ): ____________________________________________

Permit Number: ____________________

Applicable to all installations:
The Customer-Generator System referenced above satisfies all requirements noted in Section C.

Inspector Name (print): _____________________________________________________________

Inspector Certification: Licensed Engineer in Missouri _____ or
Licensed Electrician in Missouri _____ License No.___________________

Signed (Inspector): ______________________ Date: ____________

*F. Customer-Generator Acknowledgement
I am aware of the Customer-Generator System installed on my premises and I have been given warranty
information and/or an operational manual for that system. Also, I have been provided with a copy of Company’s
parallel generation tariff or rate schedule (as applicable) and interconnection requirements. I am familiar with the
operation of the Customer-Generator System.

I agree to abide by the terms of this Application/Agreement and I agree to operate and maintain the Customer-
Generator System in accordance with the manufacturer’s recommended practices as well as the Company’s
interconnection standards. If, at any time and for any reason, I believe that the Customer-Generator System is
operating in an unusual manner that may result in any disturbances on Company’s electrical system, I shall
disconnect the Customer-Generator System and not reconnect it to Company’s electrical system until the
Customer-Generator System is operating normally after repair or inspection. Further, I agree to notify Company
no less than thirty (30) days prior to modification of the components or design of the Customer-Generator System
that in any way may degrade or significantly alter that System’s output characteristics. I acknowledge that any
such modifications will require submission of a new Application/Agreement to Company.

I agree not to operate the Customer-Generator System in parallel with Company’s electrical system until this
Application/Agreement has been approved by Company.

System Installation Date: ______________________

Printed Name (Customer-Generator): ___________________________________________

Signed (Customer-Generator): ______________________ Date: ______________

*Indicates Change
**G. Application Approval (completed by Company)**

Company does not, by approval of this Application/Agreement, assume any responsibility or liability for damage to property or physical injury to persons due to malfunction of the Customer-Generator’s System or the Customer-Generator’s negligence.

This Application is approved by Company on this ______day of ________(month), ______(year).

Company Representative Name (print): ______________________________________________

Signed Company Representative: ___________________________________________________

*Indicates Reissue
UNION ELECTRIC COMPANY  ELECTRIC SERVICE

MO.P.S.C. SCHEDULE NO.  6      1st Revised         SHEET NO.  171.17
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APPLYING TO      MISSOURI SERVICE AREA

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ISSUED BY        Michael Moehn             President        St. Louis, Missouri

NAME OF OFFICER     TITLE     ADDRESS

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ISSUED BY Warner L. Baxter President & CEO St. Louis, Missouri

NAME OF OFFICER TITLE ADDRESS
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ENERGY EFFICIENCY AND DEMAND SIDE MANAGEMENT PROGRAMS

WEATHERIZATION PROGRAM

PURPOSE

This voluntary Weatherization Program is intended to assist qualified residential customers in reducing their use of energy through weatherization and conservation.

AVAILABILITY

This voluntary Weatherization Program is available to customers receiving service under the Company’s Residential Service Rate 1(M) and who meet the customer eligibility requirements.

TERMS AND CONDITIONS

*1. Pursuant to the Order issued by the Missouri Public Service Commission (Commission) in Case No. ER-2011-0028, the Company will provide $1,200,000 annually (the Program funds) for a residential weatherization grant program (Program), including energy education, for primarily lower income customers. The Program is administered by the Missouri Department of Economic Development – Division of Energy (DE).

2. The Program funds will be administered by the State Environmental Improvement and Energy Resources Authority (EIERA) consistent with Program terms and prescribed in the Report and Order issued by the Commission in Case No. ER-2011-0028.

3. The Program offers grants for weatherization services to eligible customers and will be primarily directed to lower income customers.

4. The total amount of grants offered to an individual customer for improvements that can be made to their residence will be determined by using the National Energy Audit Tool (NEAT) software or other MDNR approved audit tool. The grants and improvements offered will be consistent with the federal weatherization assistance program administered by MDNR.

*5. The current evaluation will be completed by July 31, 2015. Up to $120,000 of the Program funds, per evaluation, (up to $60,000 annually) will be used for performing process and impact evaluations of the Program to be completed at three (3) to five (5) year intervals unless stakeholders agree no evaluation is needed. No evaluation funds will be withheld from Program Funds until after January 1, 2017. The Company will provide two (2) years of each customer’s usage and payment history for evaluation purposes. After the evaluation is completed any unused evaluation funds will be used to provide low income weatherization and be included in the following year’s payment.

*6. The Company will retain at least two (2) years of pre- and post-weatherization usage and payment history for each customer’s residence that is weatherized.

* Indicates Change.
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ELECTRIC SERVICE

MO.P.S.C. SCHEDULE NO. 6
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NAME OF OFFICER

President
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President
TITLE

St. Louis, Missouri
ADDRESS

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NAME OF OFFICER  TITLE  ADDRESS
FACE SHEET

UNION ELECTRIC COMPANY

ELECTRIC SERVICE

MO.P.S.C. SCHEDULE NO. 6

1st Revised SHEET NO. 195

CANCELING MO.P.S.C. SCHEDULE NO. 6

Original SHEET NO. 195

APPLYING TO MISSOURI SERVICE AREA

DATE OF ISSUE December 26, 2018

DATE EFFECTIVE January 25, 2019

ISSUED BY Michael Moehn President St. Louis, Missouri

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FILED Missouri Public Service Commission JE-2019-0134
UNION ELECTRIC COMPANY

ELECTRIC SERVICE

MO.P.S.C. SCHEDULE NO. 6
CANCELLING MO.P.S.C. SCHEDULE NO. 6

2nd Revised SHEET NO. 197
1st Revised SHEET NO. 197

APPLYING TO MISSOURI SERVICE AREA

DATE OF ISSUE December 26, 2018
DATE EFFECTIVE January 25, 2019

ISSUED BY Michael Moehn President St. Louis, Missouri

NAME OF OFFICER TITLE ADDRESS

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UNION ELECTRIC COMPANY  ELECTRIC SERVICE

MO.P.S.C. SCHEDULE NO. 6  ______________________ Original  SHEET NO. 199
CANCELLING MO.P.S.C. SCHEDULE NO. ______________________ SHEET NO. ____

APPLYING TO  MISSOURI SERVICE AREA

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DATE OF ISSUE  February 5, 2016  DATE EFFECTIVE  March 6, 2016

ISSUED BY  Michael Moehn  President  Missouri Public Service Commission  St. Louis, Missouri

NAME OF OFFICER  TITLE  ADDRESS

FILED  EO-2015-0055; YE-2016-0198

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APPLYING TO MISSOURI SERVICE AREA

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DATE OF ISSUE February 5, 2016
DATE EFFECTIVE March 6, 2016

ISSUED BY Michael Moehn President

FILED Missouri Public Service Commission St. Louis, Missouri

NAME OF OFFICER TITLE ADDRESS

EO-2015-0055; YE-2016-0198
PURPOSE
The purpose of the Business Energy Efficiency Program, which consists of several programs, is to proactively impact Commercial & Industrial (C&I) customer energy use in such a way as to reduce consumption of electricity. The programs included in this tariff are cost effective by having a Total Resource Cost Test ratio of greater than 1.0.

DEFINITIONS
Unless otherwise defined, capitalized terms used in Tariff Sheet Nos. 201 through 206 have the following meanings:

Applicant - A customer who has submitted a program application or has had a program application submitted on their behalf by an agent or Trade Ally.

DSIM (Demand-Side Programs Investment Mechanism) - A mechanism approved by the Commission in a utility’s filing for demand-side program approval in File No. EO-2015-0055.

Incentive - Any consideration provided by the Company directly or through the Program Administrator, including in the form of cash, bill credit, payment to third party, donations or giveaways, or public education programs, which encourages the adoption of Measures.

*Long-Lead Project - A project committed by a Customer, accepted by the Company, and submitted a signed commitment offer to the program administrator by January 31, 2019, according to the terms and implementation of the MEEIA 2016-2018 Energy Efficiency Plan that will require until a date after February 28, 2019, but no later than January 31, 2021, to certify completion.

Measure - An end-use measure, energy efficiency measure, and energy management measure as defined in 4 CSR 240-22.020(18), (20), and (21).

*MEEIA 2016-2018 Energy Efficiency Plan - Has the same meaning as the defined term "Plan" provided in the Non-Unanimous Stipulation and Agreement approved by the Commission in its order effective March 1, 2016, as amended by order effective February 23, 2016, in File No. EO-2015-0055, as it may be amended further by subsequent Commission orders.

Participant - End use customer and/or manufacturer, installer, or retailer providing qualifying products or services to end use customers.

Program Administrator - The entity selected by the Company to provide program design, promotion, administration, implementation, and delivery of services.

Program Period - The period from March 1, 2016 through February 28, 2019 unless sooner terminated under the TERM provision of this tariff. Programs may have slightly earlier deadlines for certain activities, as noted on the Company website AmerenMissouri.com.

Project - One or more Measures proposed by an Applicant in a single application.

*Indicates Addition.
DEFINITIONS (Cont'd.)

Total Resource Cost (TRC) Test – A test of the cost-effectiveness of demand-side programs that compares the avoided utility costs to the sum of all incremental costs of end-use measures that are implemented due to the program (including both Company and Participant contributions), plus utility costs to administer, deliver and evaluate each demand-side program.

Measure Benefit/Cost (B/C) Test – Each non-prescriptive measure must pass the B/C Test by having a value of 1.0 or greater. B/C Test value equals the present value of the benefits of the Measure over the useful life of the Measure divided by the incremental cost to implement the Measure. The benefits of the Measure include the utility estimated avoided costs.

AVAILABILITY

Except as otherwise provided in the terms governing a particular program, business energy efficiency programs are available uniformly to all customers qualifying for service under Service Classifications Small General Service Rate 2(M), Large General Service Rate 3(M), Small Primary Service Rate 4(M), Large Primary Service Rate 11(M), or Large Transmission Service Rate 12(M).

*Business energy efficiency programs are also not available to customers electing to opt-out of energy efficiency program funding under 4 CSR 240-20.094(6).

A customer may elect not to participate (opt-out) in an electric utility’s demand side management programs under 4 CSR 240-20.094(6) if they:
1. Have at least one account with a demand of 5,000 kW in the previous 12 months with that electric utility, or;
2. Operate an interstate pipeline pumping station, or;
3. Have one or more accounts with aggregate coincident demand of 2,500 kW in the previous 12 months with that utility and have a comprehensive demand-side or energy efficiency program with achieved savings at least equal to those expected from the utility-provided programs.

A customer electing not to participate (opt-out) must provide written notice to the electric utility no earlier than September 1 and not later than October 30 to be effective for the following calendar year but shall still be allowed to participate in interruptible or curtailable rate schedules of tariffs offered by the electric utility. None of the business energy efficiency programs are considered to be an interruptible or curtailable rate schedule. Upon election by a customer to opt-out,

*Indicates Change.
BUSINESS ENERGY EFFICIENCY MEEIA 2016-18 (Cont'd.)

*AVAILABILITY (Cont'd.)

either under this or earlier MEEIA programs, that designation will continue unless Company is notified the customer wishes to revoke their opt-out status.

Unless otherwise provided for in the tariff sheets governing a particular Program, customers may participate in multiple Programs, but may receive only one Incentive per Measure.

**TERM

This tariff and the tariffs reflecting each specific business energy efficiency program shall be effective from March 1, 2016 through February 28, 2019, except that the programs shall terminate immediately, and without further Commission action, on the effective date of any court order, judgment, or opinion or Commission order that changes or eliminates the approved DSIM or Technical Resource Manual, unless the changes are initiated or accepted by the Company. Programs may not be available or fully rolled-out on the tariff effective date. Consult AmerenMissouri.com to determine the status of the programs. Programs may have earlier deadlines for certain activities, as noted on the Company's website AmerenMissouri.com. Long-Lead Projects approved as part of a program may have up until, but no later than, January 31, 2021, to certify completion, depending on the program’s guidelines.

If the programs are terminated prior to February 28, 2019 under this provision, only Incentives for qualifying Measures that have been installed prior to the programs' termination will be provided to the customer. For programs extended to January 31, 2021 as a result of Long-Lead Projects, only Incentives for qualifying Measures that have been installed prior to the programs’ termination will be provided to the customer.

DESCRIPTION

The reductions in energy consumption will be accomplished through the following programs:

1. Standard Incentive Program
2. Custom Incentive Program
3. Retro-commissioning Incentive Program
4. New Construction Incentive Program
5. Small Business Direct Install Incentive Program

Program details regarding the interaction between the Company or Program Administrators and customers participating in the Programs, such as Incentives paid directly to customers, available Measures, Measure Ranges, availability of the programs, eligibility, and application and completion requirements may be adjusted through the change process as presented below. Those details, additional details on each program, and other details such as process flows, application instructions, and application forms will be provided on the Company's website AmerenMissouri.com, or by calling toll free 1-866-941-7299.

*Indicates Reissue. **Indicates Change.
BUSINESS ENERGY EFFICIENCY MEEIA 2016-18 (Cont’d.)

CHANGE PROCESS
The change process is applicable to changes in a program detail regarding the interaction between the Company or Program Administrators and customers participating in the Programs.

1. Identify need for program detail change regarding the interaction between the Company or Program Administrators and customers participating in the Programs;
2. Discuss proposed change with implementer;
3. Discuss proposed change with evaluator;
4. Analyze impact on program and portfolio (Cost effectiveness, goal achievement, etc.);
5. Inform the Staff, Office of the Public Counsel, and the Missouri Department of Economic Development – Division of Energy (DE) of the proposed change, the time within which it needs to be implemented, provide them the analysis that was done and consider recommendations from them that are received within the implementation timeline (the implementation timeline shall be no less than five business days from the time that the Staff, Office of the Public counsel, and the DE are informed and provided the above-referenced analysis);
6. Take timely received recommendations into account and incorporate them where the Company believes it is appropriate to do so;
7. Notify and train customer contact personnel (Contact Center, Energy Advisors, Business Center, Key Account Executives, Customer Service Advisors) of the changes;
8. Make changes to forms and promotional materials;
9. Update program website;
10. File updated web pages and, if appropriate, updated list of Measures and Incentive amounts in File No. EO-2015-0055; and
11. Inform Customers, Trade Allies, etc.

Company will also continue to discuss and provide information on ongoing program and portfolio progress at quarterly regulatory stakeholder update meetings.
**BUSINESS ENERGY EFFICIENCY MEEIA 2016-18 (Cont'd.)**

**PROGRAM COSTS**
Costs of the Business Energy Efficiency Program reflected herein shall be reflected in a charge titled "Energy Efficiency Invest Chg" appearing as a separate line item on customers' bills and applied to customers' bills as a per kilowatt-hour charge as specified in the Small General Service Rate 2(M), Large General Service Rate 3(M), Small Primary Service Rate 4(M), Large Primary Service Rate 11(M), and Large Transmission Service Rate 12(M) rate schedules. All customers taking service under said rate schedules shall pay the charge regardless of whether a particular customer utilizes a demand-side program available hereunder, unless they have opted-out as provided for previously.

**PROGRAM DESCRIPTIONS**
The following pages contain other descriptions and terms for the programs being offered under this tariff.

*CHANGES IN MEASURES OR INCENTIVES*
Company may offer the Measures contained in Company's Technical Resource Manual (*TRM*) approved in File No. EO-2015-0055. The offering of Measures not contained within Company’s TRM must be approved by the Commission. Not all Measures listed in the TRM will be offered at all times. The actual Measures being offered, and Incentives available to customers, will be listed on Company's website, AmerenMissouri.com. The Measures and Incentives being offered are subject to change – customers must consult AmerenMissouri.com for the list of currently available Measures. The website will expressly state in conspicuous language that the Measures and Incentives are subject to change. Should a Measure or Incentive offering shown on Company’s website differ from the corresponding Measure or Incentive offering shown in the currently effective notice filed in File No. EO-2015-0055, the stated Measure or Incentive offering as shown in the currently effective notice shall govern.

*Indicates Change
BUSINESS ENERGY EFFICIENCY MEEIA 2016-18

Standard Incentive Program

PURPOSE
The Standard Incentive Program will provide pre-set Incentives for energy efficient products that are readily available in the marketplace. Standard Incentives will be fixed per each Measure. The primary objective of the Standard Incentive Program is to provide an expedited, simple solution for customers interested in purchasing efficient technologies that will produce verifiable energy savings.

AVAILABILITY
This Program is available during the Program Period, and is voluntary and available to all customers in the classes identified in the Business Energy Efficiency Availability section that also meet the Standard Incentive Program Provisions, below.

PROGRAM PROVISIONS
The Company will hire a Program Administrator to implement this program. The Program Administrator will provide the necessary services to effectively implement the program and to strive to attain the energy savings targets. Standard Incentives for Measures will be provided to qualifying customers that provide completed Standard Incentive Applications as indicated below:

1. Customer must complete a Standard Incentive Application form, available at AmerenMissouri.com;
2. Customer must provide proof of equipment purchase and installation;
3. Measures must be purchased and installed after March 1, 2016;
4. Measures which customer has received an Incentive under a different Business or Residential energy efficiency Program are not eligible for this Standard Incentive Program;
5. Measures must be part of a Project having an installed TRC ratio greater than 1.0; and
6. Standard Measures must be installed as a retrofit in an existing facility;

By applying for the Standard Incentive Program, the customer agrees that the Project may be subject to random on-site inspections by the Program Administrator.
BUSINESS ENERGY EFFICIENCY MEEIA 2016-18

Standard Incentive Program (Cont’d.)

ELIGIBLE MEASURES AND INCENTIVES

Standard Incentives filed in File No. EO-2015-0055 and additional Measures covered by the TRM approved in File No. EO-2015-0055 are eligible for program benefits and Incentives and may be offered during the Program Period. These include, but are not limited to, the following equipment types:

1. HVAC (Heating, Ventilation, and Air-conditioning)
2. Lighting
3. Refrigeration
4. Cooking
5. Water Heating
6. Motors

Eligible Incentives directly paid to customers and Measures can be found at AmerenMissouri.com
BUSINESS ENERGY EFFICIENCY MEEIA 2016-18

Custom Incentive Program

PURPOSE
The Custom Incentive Program will provide financial assistance to customers to support implementation of energy efficiency improvement opportunities which are available at the time of new equipment purchases, facility modernization, and industrial process improvement. A "Custom Incentive" is a direct payment or bill credit to a Participant for installation of Measures that are part of Projects that have been pre-approved by the Program Administrator.

The Custom Incentive Program will include a pilot of energy management system measures. The purpose of the pilot is to evaluate the impact to the commercial market for automated controls that monitor and optimize the use of energy. The pilot will be used to evaluate energy and demand savings, cost and customer uptake with associated incentives.

AVAILABILITY
This Program is available during the Program Period, and is voluntary and available to all customers in the classes identified in the Business Energy Efficiency Availability section that also meet Custom Incentive Program Provisions below.

The pilot for energy management system measures will be available to private/public k-12 schools & tax exempt organizations during the Program Period unless the Program cap is reached prior to March 2019.

PROGRAM PROVISIONS
The Company will hire a Program Administrator to implement this program. The Program Administrator will provide the necessary services to effectively implement the program and to strive to attain the energy savings targets. Customers may apply for a Custom Incentive for Measures under consideration which:

1. Reduce energy consumption compared to the currently installed system or, in the case of a new system, the standard efficiency system currently available;
2. Have not yet been installed and for which purchase and/or installation commitments have not yet been made;
3. Have not received an Incentive for the measure under a different Business or Residential energy efficiency Program;
4. Are not one of the Measures eligible for an Incentive under the Standard Incentive Program; and
5. Are being installed in an existing facility.
PROGRAM PROVISIONS (Cont’d.)

Prior to purchasing and installing Measure(s), Applicant must submit a Custom Incentive Application form that provides data about the applicable facility and potential Measure(s). The Company or Program Administrator will perform a desk review of the Custom Incentive Application to determine eligibility, Measure Benefit Cost Test results, estimated energy savings and Custom Incentive amount for each Measure. The Program Administrator may perform a site visit to verify baseline conditions. If approved, the Program Administrator will reserve the Custom Incentive amount and notify the Participant of the Measure(s) approval.

Following installation of approved Custom Measures, the Participant will submit a Completion Certificate to the Program Administrator. The Completion Certificate will require supporting project documentation to include but not limited to: final Custom Measure costs, a completion date for each Custom Measure, specification sheets, and invoices for all Custom Measures. If necessary, the Custom Incentive amount will be recalculated. Every Custom Incentive Application for a Custom Incentive requires pre-approval by the Program Administrator and may be subject to on-site verification by the Program Administrator prior to payment of the Custom Incentive amount.
BUSINESS ENERGY EFFICIENCY MEEIA 2016-18
Retro-Commissioning Incentive Program

PURPOSE
The Retro-Commissioning Program (Program) will capture energy and demand reductions from existing facilities by optimizing building system energy use and overall efficiency. Through this Program, the Company will provide energy assessment services and assistance in implementing identified solutions to customers to insure that their systems are operating at optimal energy efficiency.

AVAILABILITY
This Program is available during the Program Period, and is voluntary and available to all customers in the classes identified in the Business Energy Efficiency Availability section and that also meet the following Program Provisions. Participants in this Program will be those customers with a facility that has all of the following criteria:

1. At least one of the following conditions:
   a. Higher than average electric energy intensities (kWh/ft²); or
   b. Minimum of 100,000 ft² of conditioned space; or
   c. Presence of an energy management system (EMS);
2. Mechanical equipment in relatively good condition; and
3. Will yield cost-effective energy savings according to a Retro-Commission Assessment Study

A "Retro-Commissioning Assessment Study" is a detailed analysis performed by Retro-Commissioning Providers on Projects passing the initial screening which is used to identify sub-optimal system operational performance and to identify corrections which will yield cost-effective energy savings.

PROGRAM PROVISIONS
The Company will hire a Program Administrator to implement this Program. The Program Administrator will provide the necessary services to effectively implement the Program and to strive to attain the energy savings targets. Program benefits have been designed to provide cost effective Retro-Commissioning services to eligible facilities and include:

1. Recruitment and training of Retro-Commissioning providers,
2. Benchmarking of candidate facilities using ENERGY STAR® or other comparable procedures to identify facilities with Retro-Commissioning opportunities,
3. Access to a group of pre-qualified Retro-Commissioning Providers that can provide studies performed by trained auditors to identify cost effective building system optimization Measures,
4. Assisting building owners with contractor acquisition and management during the implementation process,
BUSINESS ENERGY EFFICIENCY MEEIA 2016-18

Retro-Commissioning Program (Cont'd.)

PROGRAM PROVISIONS (Cont'd.)

5. Building owner staff training on Retro-Commissioning operations,
6. Verification of operating results, or
7. Ongoing monitoring of Retro-Commissioned building systems to promote persistence of improvements.

The Incentives provided through the Retro-Commissioning Program will be limited to those Measures which are determined to achieve energy efficiency improvements through the calibration, maintenance, and optimization of current systems.
BUSINESS ENERGY EFFICIENCY MEEIA 2016-18

New Construction Incentive Program

PURPOSE
The New Construction Incentive Program will capture energy and demand reductions from new construction projects by interacting with building owners and designers during the design and/or construction process. The Program encourages building owners and designers to evaluate and install systems with higher energy efficiencies than the standard or planned systems through training, design incentives, and installation incentives.

DEFINITIONS APPLICABLE TO NEW CONSTRUCTION INCENTIVE PROGRAM ONLY
Baseline Building Design - The baseline building design will be established on a case-by-case basis, as the more stringent of either the ASHRAE Code 90.1-2001, the facility’s original design, the local energy code, or any legal or contractual construction requirements. Baseline building design will be documented in the Technical Analysis Study (TAS).

Technical Analysis Study (TAS) - An energy savings estimate that clearly describes the energy efficiency/process improvement opportunity, with concise and well-documented presentations of the analysis method used to estimate energy savings, and the assumptions used to generate Project capital cost estimates. Each TAS will:
1. Describe the proposed facility (typically with a sketch or blueprint showing site layout or floor plan).
2. Describe the Baseline Building Design and provide its estimated electricity use and estimated annual Operations & Maintenance costs.
3. Describe the efficient equipment to be added along with key performance specifications.
4. Provide estimated electricity use for the efficient condition.
5. Provide the energy and demand savings calculations, together with the source of input parameter numbers and justification for each assumption made.
6. Provide the incremental cost to implement the Project.
7. Provide the estimated financial incentive and estimated annual cost savings, together with the financial metric(s) requested by the customer (i.e., simple payback, Internal Rate of Return, Return on Investment).

Whole Building Area Method - An energy analysis methodology in which the design team examines the integration of all building components and systems and determines how they best work together to save energy and reduce environmental impact.
AVAILABILITY
This Program is available during the Program Period, and is voluntary and available to all customers in the classes identified in the Business Energy Efficiency Availability section that also meet the New Construction Program Provisions. Eligible facilities applications include new facilities built from the ground up, additions to existing facilities, or major renovation of existing facilities requiring significant mechanical and/or electrical equipment alteration.

PROGRAM PROVISIONS
The Company will hire a Program Administrator to implement this program. The Program Administrator will provide the necessary services to effectively implement the program and to strive to attain the energy savings targets. Program benefits are tailored to Projects based on their phase in the development process.
BUSINESS ENERGY EFFICIENCY MEEIA 2016-18
Small Business Direct Install Incentive Program

PURPOSE
The Small Business Direct Install Incentive Program will provide installation of low-cost and/or no-cost energy-efficient measures to small business customers through a group of trade allies. Trade allies will deliver, install and complete paperwork for measures provided for in this program. The primary objective of the Small Business Direct Install Program is to remove participation barriers for small businesses through a simple and streamlined process. Trade allies will identify additional energy efficiency opportunities that may qualify for incentives under the Standard Incentive Program or Custom Incentive Program.

AVAILABILITY
This Program is available during the Program Period, and is voluntary and available to all customers in the 2M rate class that also meet the Small Business Direct Install Program Provisions, below.

PROGRAM PROVISIONS
The Company will hire a Program Administrator to implement this program. The Program Administrator will provide the necessary services to effectively implement the program and to strive to attain the energy savings targets. Small Business Direct Install Incentives for Measures will be provided to qualifying customers that provide completed Small Business Direct Install Applications as indicated below:
1. Customer must complete a Small Business Direct Install Incentive Application form, and;
2. Qualifying measures must be installed by a participating Small Business Direct Install trade ally after March 1, 2016, and;
3. Measures must be part of a Project having an installed TRC ratio greater than 1.0, and;
4. Measures must be installed as a retrofit in an existing facility.

By applying for the Small Business Direct Install Incentive Program, the customer agrees that the Project may be subject to random on-site inspections by the Program Administrator.

ELIGIBLE MEASURES AND INCENTIVES
Small Business Direct Install Incentives filed in File No. EO-2015-0055 and additional Measures covered by the TRM approved in File No. EO-2015-0055 are eligible for program benefits and Incentives and may be offered during the Program Period. These include, but are not limited to, the following equipment types:
1. HVAC (Heating, Ventilation, and Air-conditioning)
2. Lighting
3. Refrigeration
4. Motors
5. Water Heating

Information about the Small Business Direct Install Program can be found at AmerenMissouri.com

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ISSUED BY: Michael Moehn
NAME OF OFFICER: Michael Moehn
TITLE: President
ADDRESS: St. Louis, Missouri

FILED:
EO-2015-0055; YE-2016-0198
Missouri Public Service Commission

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**ISSUED BY**  
Michael Moehn  
President  
NAME OF OFFICER  
ADDRESS  
St. Louis, Missouri  
Missouri Public Service Commission

**FILED**  
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**ISSUED BY** Michael Moehn  
**TITLE** President  
**ADDRESS** St. Louis, Missouri

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RESIDENTIAL ENERGY EFFICIENCY MEEIA 2016-18

PURPOSE
The purpose of the Residential Energy Efficiency Program, which consists of several programs, is to proactively impact residential customer energy use in such a way as to reduce consumption of electricity. With the exception of the Low Income program, the programs included in this tariff are cost effective having a Total Resource Cost Test ratio of greater than 1.0.

DEFINITIONS
Capitalized terms not otherwise defined in Tariff Sheet Nos. 211 through 217 have the following meanings:

DSIM (Demand-Side Programs Investment Mechanism)
A mechanism approved by the Commission in a utility’s filing for demand-side program approval in File No. EO-2015-0055.

Incentive
Any consideration provided by the Company, through the Program Administrator and Program Partners, including buydowns, markdowns, rebates, bill credits, payments to third parties, direct installation, giveaways, and education, which encourages the adoption of Measures.

Measure
An end-use measure, energy efficiency measure, and energy management measure as defined in 4 CSR 240-22.020(18), (20), and (21).

Program Administrator
The entity selected by the Company to provide program design, promotion, administration, implementation, and delivery of services.

Program Period - The period from March 1, 2016 through February 28, 2019, unless sooner terminated under the TERM provision of this tariff. Programs may have slightly earlier deadlines for certain activities, as noted on the Company's website AmerenMissouri.com.

Program Partner
A retailer, distributor or other service provider that the Company or the Program Administrator has approved to provide specific program services through execution of a Company approved service agreement.

Total Resource Cost (TRC) Test - A test of the cost-effectiveness of demand-side programs that compares the avoided utility costs to the sum of all incremental costs of end-use measures that are implemented due to the program (including both Company and Participant contributions), plus utility costs to administer, deliver and evaluate each demand-side program.

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DATE EFFECTIVE March 6, 2016

ISSUED BY Michael Moehn
NAME OF OFFICER President
ADDRESS St. Louis, Missouri
RESIDENTIAL ENERGY EFFICIENCY MEEIA 2016-18 (Cont'd.)

*AVAILABILITY
Except as otherwise provided in the terms governing a particular program, residential energy efficiency programs are available to residential customers in the Company's Missouri service area being served under the Residential Service Rate 1(M) rate schedule. Some programs may also require that services be phased-in on a geographical or other basis to better manage resources. Some services may only be available through participating Program Partners.

Unless otherwise provided for in the tariff sheets governing a particular Program, customers may participate in multiple Programs, but may receive only one Incentive per Measure.

TERM
This tariff and the tariffs reflecting each specific residential energy efficiency program shall be effective from March 1, 2016 through February 28, 2019, except that the programs shall terminate immediately, and without further Commission action, on the effective date of any court order, judgment, or opinion or Commission order that changes or eliminates the approved DSIM or Technical Resource Manual, unless the changes are initiated or are accepted by the Company. Programs may not be available or fully rolled-out on the tariff effective date. Consult AmerenMissouri.com to determine the status of the programs. Programs may have slightly earlier deadlines for certain activities, as noted on the Company's website AmerenMissouri.com.

If the programs are terminated prior to February 28, 2019 under this provision, only Incentives for qualifying Measures that have been installed prior to the programs' termination will be provided to the customer.

DESCRIPTION
The reductions in energy consumption will be accomplished through the following programs:

1. Lighting
2. Energy Efficient Products
3. HVAC
4. Home Energy Reports
5. Low Income
6. Energy Efficiency Kits
7. Home Energy Reports

*Indicates Change.
RESIDENTIAL ENERGY EFFICIENCY MEEIA 2016-18 (Cont'd.)

DESCRIPTION (Cont'd.)

Program details regarding the interaction between the Company or Program Administrators and customers participating in the Programs, such as Incentives paid directly to customers, available Measures, Measure ranges, availability of the programs, eligibility, and application and completion requirements may be adjusted through the change process as presented below. Those details, additional details on each program, and other details such as process flows, application instructions, and application forms, will be provided on the Company's website AmerenMissouri.com, or by calling the Company's Customer Contact Center toll free 1-866-422-4605.

CHANGE PROCESS

The change process is applicable to changes in a program detail regarding the interaction between the Company or Program Administrators and customers participating in the Programs.

1. Identify need for program detail change regarding the interaction between the Company or Program Administrators and customers participating in the Programs;
2. Discuss proposed change with implementer;
3. Discuss proposed change with evaluator;
4. Analyze impact on program and portfolio (Cost-effectiveness, goal achievement, etc.);
5. Inform the Staff, Office of the Public Counsel, and the Missouri Department of Economic Development – Division of Energy (DE) of the proposed change, the time within which it needs to be implemented, provide them the analysis that was done, and consider recommendations from them that are received within the implementation timeline (the implementation timeline shall be no less than five business days from the time that the Staff, Office of the Public Counsel, and the Missouri Department of Natural Resources are informed and provided the above-referenced analysis);
6. Take timely received recommendations into account and incorporate them where the Company believes it is appropriate to do so;
7. Notify and train customer contact personnel (Contact Center, Energy Advisors, Business Center, Key Account Executives, Customer Service Advisors) of the changes;
8. Make changes to forms and promotional materials;
9. Update program website;
10. File updated web pages and, if appropriate, updated list of Measures and Incentive amounts in File No. EO-2015-0055; and
11. Inform Customers, Trade Allies, etc.

Company will also continue to discuss and provide information on ongoing program and portfolio progress at quarterly regulatory stakeholder update meetings.
RESIDENTIAL ENERGY EFFICIENCY MEEIA 2016-18 (Cont'd.)

PROGRAM COSTS
Costs of the Residential Energy Efficiency Program reflected herein shall be reflected in a charge titled "Energy Efficiency Invest Chg" appearing as a separate line item on customers' bills and applied to customers' bills as a per kilowatt-hour charge as specified in the Residential Service Rate 1(M) rate schedule. All customers taking service under said rate schedule shall pay the charge regardless of whether a particular customer utilizes a demand-side program available hereunder unless they qualify for the low-income exemption as outlined in Rider EEIC 2016-18.

PROGRAM DESCRIPTIONS
The following pages contain descriptions and terms for the programs being offered under this tariff.

*CHANGES IN MEASURES OR INCENTIVES
Company may offer the Measures contained in Company's Technical Resource Manual ("TRM") approved in File No. EO-2015-0055. The offering of Measures not contained within Company’s TRM must be approved by the Commission. Not all Measures listed in the TRM will be offered at all times. The actual Measures being offered, and Incentives available to customers, will be listed on Company's website, AmerenMissouri.com. The Measures and Incentives being offered are subject to change - customers must consult AmerenMissouri.com for the list of currently available Measures. The website will expressly state in conspicuous language that the Measures and Incentives are subject to change. Should a Measure or Incentive offering shown on Company’s website differ from the corresponding Measure or Incentive offering shown in the currently effective notice filed in File No. EO-2015-0055, the stated Measure or Incentive offering as shown in the currently effective notice shall govern.

*Indicates Change
RESIDENTIAL ENERGY EFFICIENCY MEEIA 2016-18

Lighting Program

PURPOSE
The Lighting Program is intended to reduce energy use in residential lighting by encouraging selection of ENERGY STAR®-qualified lighting products.

AVAILABILITY
The Lighting Program is available for the Program Period. Residential customers may participate in the Lighting Program by acquiring program ENERGY STAR® LED lighting products, ENERGY STAR® fixtures, and other emerging ENERGY STAR®-qualified lighting technologies from participating Program Partners through purchase or other approved distribution methods.

PROGRAM PROVISIONS
The Company will hire a Program Administrator to implement this program. The Program Administrator will provide the necessary services to effectively implement the program and to strive to attain the energy savings targets. The Lighting Program Administrator will provide Lighting Program services and Incentives to Program Partners for the purpose of increasing awareness, sales, and market share of residential ENERGY STAR®-qualified products promoted by the Lighting Program.

Lighting Program promotions will be made available at Program Partner locations within the Company’s electric service territory. Participating Lighting Program Partners will be listed on the AmerenMissouri.com website with store name and location listed as well as any in-store promotions being offered.

ELIGIBLE MEASURES AND INCENTIVES
Energy Efficient Lighting Products filed in File No. EO-2015-0055 and additional Lighting Products covered by the TRM approved in File No. EO-2015-0055 are eligible for program benefits and Incentives and may be offered for promotion during the Program Period. Eligible Lighting Products and Incentives paid directly to customers may be found at AmerenMissouri.com.
RESIDENTIAL ENERGY EFFICIENCY MEEIA 2016-18

Energy Efficient Products Program

PURPOSE
The purpose of the Energy Efficient Products Program is to raise customer awareness of the benefits of "high-efficiency" products (ENERGY STAR®, Consortium for Energy Efficiency (CEE) Tiers, or better). The Program is intended to reduce energy use by encouraging residential customers to purchase qualifying efficient products.

AVAILABILITY
The Energy Efficient Products Program is available for the Program Period. Residential customers may participate in the Program by acquiring program energy efficient products from participating Program Partners through on-line purchases or other approved distribution methods.

PROGRAM PROVISIONS
The Company will hire a Program Administrator to implement this program. The Program Administrator will provide the necessary services to effectively implement the program and to strive to attain the energy savings targets. The Energy Efficient Products Program incorporates various program partners, products, Incentive mechanisms and program delivery strategies. The Program Administrator may partner with other utilities (i.e. gas and water utilities) to create synergies.

The Company and the Program Administrator will follow a multi-faceted approach to marketing highly efficient appliances and products with an emphasis on ENERGY STAR®. Company will leverage the CEE and others to identify efficiency tiers above ENERGY STAR® for additional offers.

ELIGIBLE MEASURES AND INCENTIVES
Energy Efficient Products Measures filed in File No. EO-2015-0055 and additional Measures covered by the TRM approved in File No. EO-2015-0055 are eligible for program benefits and Incentives and may be offered for promotion during the Program Period. Eligible Energy Efficient Products and Incentives paid directly to customers may be found at AmerenMissouri.com.
RESIDENTIAL ENERGY EFFICIENCY MEEIA 2016-18

HVAC Program

PURPOSE
The purpose of the HVAC Program is to obtain energy and demand savings through improvement in the operating performance of new or existing residential central cooling systems.

AVAILABILITY
The HVAC Program is available for the Program Period, and Services under this Program are available to Customers on the Residential Service Rate 1(M).

PROGRAM PROVISIONS
The Residential HVAC program improves the efficiency of new and existing central air conditioning systems, including heat pumps, by installation of new equipment or improving the efficiency of legacy cooling systems within the home. The program may also promote installation of heat pump water heaters.

The Company will hire a Program Administrator to implement this program. The Program Administrator will provide the necessary services to effectively implement the program and to strive to attain the energy and demand savings targets. Company will provide Incentives to encourage sales of energy efficient products and for properly installed HVAC energy saving upgrades.

The program will employ the Program Administrator’s preferred protocols to verify system eligibility for program Measures.

ELIGIBLE MEASURES AND INCENTIVES
HVAC related program Measures filed in File No. EO-2015-0055 and additional Measures covered by the TRM approved in File No. EO-2015-0055 are eligible for program benefits and Incentives and may be offered for promotion during the Program Period. Eligible Measures and Incentives paid directly to customers may be found at AmerenMissouri.com.
RESIDENTIAL ENERGY EFFICIENCY MEEIA 2016-18

Home Energy Reports Program

PURPOSE
The purpose of the Home Energy Report Program is to obtain energy and demand savings by focusing on energy consumption behavior changes of participating customers. This is a behavior modification program.

AVAILABILITY
The Home Energy Reports Program is available for the Program Period, and Services under this Program are available to Customers on the Residential Service Rate 1(M). The Program Administrator will work with customer data to select approximately 250,000 program participants, Home Energy Reports will be mailed to targeted residential customers on an established frequency for the duration of the program. This program is an opt-out program, customers who do not wish to receive a report will be able to contact Ameren Missouri to be removed from participation. A statistically significant control group of customers will be used to aid in program evaluation and will not be able to participate in the program during the Program Period.

PROGRAM PROVISIONS
The Company will hire a Program Administrator to implement this program. The Program Administrator will provide the necessary services to effectively implement the program and to strive to attain the energy savings targets. Additional program provisions may be found at AmerenMissouri.com.

ELIGIBLE MEASURES AND INCENTIVES
The program focuses on energy consumption behavior changes that result in reduced electricity consumption. As such, the overall metric is reduced monthly/annual energy consumption. There are no specific energy efficiency measures associated with the program or corresponding incentives.
RESIDENTIAL ENERGY EFFICIENCY MEEIA 2016-18

Multi-Family Low Income Program

PURPOSE
The objective of this program is to deliver long-term energy savings and bill reductions to low-income customers residing in multi-family low-income (“MFLI”) properties. This will be achieved through education and a variety of directly installed energy saving measures and comprehensive retrofits.

*AVAILABILITY
The Multi-Family Low Income Program is available for the Program Period to owners and operators of any multi-family properties of three (3) or more dwelling units with eligible customers receiving service under residential rate 1(M) or business rates 2(M), 3(M) or 4(M) meeting one of the following building eligibility requirements:

1. Reside in federally-subsidized housing units and fall within the federal program's income guidelines.
2. Reside in non-subsidized housing with income levels at or below 200% of federal poverty guidelines.

Where a property has a combination of qualifying tenants and non-qualifying tenants, at least 51% of the tenants must be eligible for the entire building to qualify. For income eligible multi-family properties with less than 51% qualifying tenants the building owner will be required to install comparable energy efficiency measures at their expense in all non-qualifying units. Upon verification and approval the program may upgrade the entire building, common areas and all of the remaining eligible units with qualified energy efficiency measures.

PROGRAM DESCRIPTION
The Company will hire a Program Administrator to implement this program. The Program Administrator will provide the necessary services to effectively implement the program and to strive to attain the energy savings targets. The Program Administrator will provide direct installation of Program-specified Standard Measure energy efficiency Measures in income qualified dwelling units and for common areas, building shell and whole-building systems in qualified MFLI properties. The Program Administrator may partner with other utilities (i.e. gas and water utilities) to create synergies.

*Indicates Change.
### PROGRAM DESCRIPTION (Cont’d.)

Incentives under this Program will be provided toward income qualified dwelling units, common areas, building shell and whole-building systems. The Program will provide a 25% bonus to the applicable Business Standard Incentive and Business Custom Incentive programs for MFLI whole building and common area measures. For buildings with no common areas, a 25% bonus for applicable residential incentives will apply. In addition, the MFLI program will make available the measures identified in the Small Business Direct Install (SBDI) Program to any participating MFLI building common areas at the same low cost or no cost. Customers may receive the greater of the incentives available through Business Standard Incentive or Business Custom Incentive programs with a 25% bonus added or the incentive available under SBDI for a common area(s). No incentives paid through the MFLI program will exceed the price of the measure itself.

Measures installed pursuant to the MFLI Program are not eligible for Incentives through any of the Company’s other Energy Efficiency programs. However, market rate residences (i.e., units that are not income-eligible) are not excluded from participating in the Company’s other Energy Efficiency programs.

### ELIGIBLE MEASURES AND INCENTIVES

Low Income Measures filed in File No. EO-2015-0055 and additional Measures covered by the TRM approved in File No. EO-2015-0055 are eligible for program benefits and incentives and may be offered for promotion during the Program Period. Eligible Measures and Incentives directly paid to customers may be found at [AmerenMissouri.com](http://AmerenMissouri.com).
RESIDENTIAL ENERGY EFFICIENCY MEEIA 2016-18

Energy Efficiency Kits Program

PURPOSE
The objective of the Energy Efficiency Kits Program is to raise customer awareness of the benefits of “high-efficiency” products (Energy Star, Consortium for Energy Efficiency (CEE) Tiers, or better) and to educate residential customers about energy use in their homes and to offer information, products, and services to residential customers to save energy cost-effectively.

AVAILABILITY
The Energy Efficiency Kits Program is available for the Program Period to Residential customers and may be offered through various channels, such as direct mail, secondary education schools, community based organizations, and market-rate multifamily properties.

PROGRAM PROVISIONS
The Company will hire a Program Administrator to implement this program. The Program Administrator will provide the necessary services to effectively implement the program and to strive to attain the energy savings targets. The Energy Efficiency Kits Program incorporates various program partners, products, incentive mechanisms and program delivery strategies.

The Company and the Program Administrator will follow a multi-faceted approach to educate participants and effectuate installation of energy efficient products and actions addressed in the Energy Efficiency Kits. Company will leverage the CEE and others to identify efficiency tiers above ENERGY STAR® for additional products. The Program Administrator may partner with other utilities (i.e. gas and water utilities) to create synergies.

ELIGIBLE MEASURES AND INCENTIVES
Energy Efficiency Kits Measures filed in File No. EO-2015-0055 and additional Measures covered by the TRM approved in File No. EO-2015-005 are eligible for program benefits and Incentives and may be offered for promotion during the Program Period. Customer information on the Energy Efficiency Kits Program may be found at AmerenMissouri.com.
UNION ELECTRIC COMPANY  ELECTRIC SERVICE

MO.P.S.C. SCHEDULE NO. 6 Original SHEET NO. 218
CANCELLING MO.P.S.C. SCHEDULE NO. SHEET NO.

APPLYING TO MISSOURI SERVICE AREA

THIS SHEET RESERVED FOR FUTURE USE

DATE OF ISSUE December 21, 2018 DATE EFFECTIVE January 20, 2019

ISSUED BY Michael Moehn President FILED Missouri Public Service Commission
NAME OF OFFICER TITLE St. Louis, Missouri ADDRESS
EO-2018-0211; YE-2019-0133
PURPOSE

The purpose of the Energy Efficiency Portfolio, which consists of several programs, is to proactively impact customer energy use and decrease peak demand in such a way as to reduce electric consumption and coincidized peak demand. With the exception of low-income and education programs, the programs included in this tariff are expected to be cost effective, having a Total Resource Cost Test ratio of greater than 1.0.

DEFINITIONS

Unless otherwise defined, capitalized terms used in Tariff Sheet Nos. 221 through 244.1 have the following meanings:

Applicant - A customer who has submitted a program application or has had a program application submitted on their behalf by an agent or Trade Ally.

Business Program - An energy efficiency program that is available to a customer receiving electric service under Service Classifications Small General Service Rate 2(M), Large General Service Rate 3(M), Small Primary Service Rate 4(M), Large Primary Service Rate 11(M), or Large Transmission Service Rate 12(M).

Deemed Savings Table - A list of Measures derived from the Company's TRM that characterizes associated gross energy and demand savings with Company-specific measure parameters where available.

Demand-Side Programs Investment Mechanism (DSIM) - A mechanism approved by the Commission in the Company's filing for demand-side program approval in File No. EO-2018-0211.

Incentive - Any consideration provided by the Company directly or through the Program Administrator, Trade Ally, and/or Program Partners which encourages the adoption of Measures, including in the form of cash, buydowns, markdowns, rebates, bill credits, payments to third parties, direct installation, donations or giveaways, and education.

Measure - An end-use measure, energy efficiency measure, and energy management measure as defined in 4 CSR 240-22.020(18), (20), and (21).


Participant - An energy-related decision maker who implements one or more end-use Measures as a direct result of a demand-side program.

Program Administrator - The Company or entity selected by the Company to provide program design, promotion, administration, implementation, and delivery of services.

Program Partner - A retailer, distributor, or other service provider that the Company or the Program Administrator has approved to provide specific program services through execution of a Company-approved service agreement.
ENERGY EFFICIENCY MEEIA 2019-21 (Cont'd.)

DEFINITIONS (Cont'd.)

Program Period – The period from March 1, 2019 through December 31, 2021, unless sooner terminated under the TERM provision of this tariff. Programs may have slightly earlier deadlines for certain activities, as noted on the Company website AmerenMissouri.com/EnergyEfficiency.

Program Provider – An entity that meets the criteria defined by a Program Administrator to provide specific program products and/or services.

Project – One or more Measures proposed by an Applicant in a single application.

Residential Program – Energy efficiency programs available to residential customers in the Company’s Missouri service area being served under the Residential Service Rate 1(M) rate schedule and for multifamily properties identified under Residential Programs it will also include: Service Classifications Small General Service Rate 2(M), Large General Service Rate 3(M), Small Primary Service Rate 4(M).

Technical Resource Manual (TRM) – A Company-specific compilation of Measures and associated characteristics with formulas used for calculating gross energy and demand savings using default inputs.

Trade Ally – An independent contractor that the Company or the Program Administrator has approved to provide specific program services through execution of a Company-approved service agreement.

Measure Benefit/Cost (B/C) Test – Each non-prescriptive Project must pass the B/C Test by having a value of 1.0 or greater. B/C Test value equals the present value of the benefits of each Measure over the useful life of each Measure divided by the incremental cost to implement the Project Measures. The benefits of the Measure include the Company's estimated avoided costs.

AVAILABILITY

Except as otherwise provided in the terms governing a particular program, programs are available uniformly to all customers qualifying for service under Service Classifications Residential Service Rate 1(M), Small General Service Rate 2(M), Large General Service Rate 3(M), Small Primary Service Rate 4(M), Large Primary Service Rate 11(M), or Large Transmission Service Rate 12(M). Some programs may also require that services be phased-in on a geographical or other basis to better manage resources. Some services may only be available through participating Program Partners, Program Providers, or Trade Allies.

Unless otherwise provided for in the tariff sheets governing a particular program, customers may participate in multiple programs, but may receive only one Incentive per Measure.

Business Programs are not available to customers electing to opt-out of energy efficiency program funding under 4 CSR 240-20.094(7).
ENERGY EFFICIENCY MEEIA 2019-21 (Cont'd.)

AVAILABILITY (Cont'd.)

A customer may elect not to participate (opt-out) in the Company's demand-side management Business Programs under 4 CSR 240-20.094(7) if they:

1. Have at least one account with a demand of 5,000 kW in the previous 12 months with the Company;
2. Operate an interstate pipeline pumping station; or
3. Have one or more accounts with aggregate coincident demand of 2,500 kW in the previous 12 months with the Company and have a comprehensive demand-side or energy efficiency program with achieved savings at least equal to those expected from the Company-provided demand-side programs.

A customer electing not to participate (opt-out) must provide written notice to the Company no earlier than September 1 and not later than October 30 to be effective for the following calendar year, but shall still be allowed to participate in interruptible or curtailable rate schedules or tariffs offered by the Company. None of the Business Programs are considered to be an interruptible or curtailable rate schedule. Upon election by a customer to opt-out, either under this or earlier MEEIA programs, that designation will continue for 10 years, beginning with the calendar year subsequent to the submission of the opt-out unless the Company is notified the customer wishes to revoke its opt-out status.

TERM

This tariff (Sheet Nos. 221-221.5) and the tariffs reflecting each specific energy efficiency program (Sheet Nos. 222-244.1) shall be effective from March 1, 2019 through December 31, 2021, except that the programs shall terminate immediately, and without further Commission action, on the effective date of any court order, judgment, or opinion or Commission order that changes or eliminates the approved DSIM or Technical Resource Manual, unless the changes are initiated or accepted by the Company. Programs may not be available or fully implemented in all geographic locations on the tariff effective date. Consult AmerenMissouri.com/EnergyEfficiency to determine the status of the programs. Programs may have earlier deadlines for certain activities, as noted on the Company's website AmerenMissouri.com/EnergyEfficiency.

If the programs are terminated prior to December 31, 2021 under this provision, only Incentives for qualifying Measures that meet either of the following criteria prior to the termination date will be valid: (a) customer has returned a signed commitment Incentive offer and it has been accepted by the Program Administrator; or (b) the customer provides affirmation that requirements for participation have been met.
ENERGY EFFICIENCY MEEIA 2019-21 (Cont'd.)

DESCRIPTION

The reductions in demand and energy consumption will be accomplished through the following Business Programs:

1. Standard Incentive Program
2. Custom Incentive Program
3. Retro-Commissioning Incentive Program
4. New Construction Incentive Program
5. Small Business Direct Install Incentive Program
6. Social Services Program
7. Education Programs
   - Building Operator Certification (BOC)

The reductions in demand and energy consumption will be accomplished through the following Residential Programs:

1. Lighting Program
2. Energy Efficient Products Program
3. HVAC Program
4. Home Energy Reports Program
5. Energy Efficiency Kits Program
6. Appliance Recycling Program
7. Multi-Family Market Rate Program
8. Single Family Low-Income Program
9. Multi-Family Low-Income Program
10. Education Programs
    - Science, Technology, Engineering, and Mathematics (STEM) Education
    - Home Building Code Compliance
    - Workplace Employee Education
    - Smart Home Energy Management
    - Real Estate Audits

Program Administrator may collaborate and co-deliver components of programs with other utilities (i.e. gas and water utilities) to create synergies.

Program details regarding the interaction between the Company or Program Administrators and customers participating in the programs, Incentives paid directly to customers, available Measures, Measure ranges, availability of the programs, eligibility, and application and completion requirements may be adjusted through the change process as presented below. Those details, additional details on each program, and other details such as process flows, application instructions, and application forms will be provided on the Company's website AmerenMissouri.com/EnergyEfficiency or by calling 800-552-7583.
ENERGY EFFICIENCY MEEIA 2019-21 (Cont'd.)

CHANGE PROCESS
The change process is applicable to changes in a program detail regarding the interaction between the Company or Program Administrators and customers participating in the programs.

1. Identify need for program detail change regarding the interaction between the Company or Program Administrators and customers participating in the programs;
2. Discuss proposed change with implementer;
3. Discuss proposed change with evaluator;
4. Analyze impact on program and portfolio (cost effectiveness, goal achievement, etc.);
5. Inform the Staff, Office of the Public Counsel, and the Missouri Department of Economic Development – Division of Energy (DE) of the proposed change, the time within which it needs to be implemented, provide them the analysis that was done and consider recommendations from them that are received within the implementation timeline (the implementation timeline shall be no less than five business days from the time that the Staff, Office of the Public Counsel, and the DE are informed and provided the above-referenced analysis);
6. Take timely received recommendations into account and incorporate them where the Company believes it is appropriate to do so;
7. Notify and train customer contact personnel (Contact Center, Energy Advisors, Business Center, Customer Relationship Managers, Customer Service Advisors) of the changes;
8. Make changes to forms and promotional materials;
9. Update program website;
10. File updated web pages and, if appropriate, updated list of Measures and Incentive amounts in File No. EO-2018-0211; and
11. Inform Participants, Program Providers, Program Partners, Trade Allies, etc.

Company will also continue to discuss and provide information on ongoing program and portfolio progress at quarterly regulatory stakeholder update meetings.

PROGRAM COSTS
Costs of the Business Programs and Residential Programs contained herein shall be reflected in a charge titled "Energy Efficiency Invest Chg" appearing as a separate line item on customers' bills and applied to customers' bills as a per kilowatt-hour charge as specified in the Residential Service Rate 1(M), Small General Service Rate 2(M), Large General Service Rate 3(M), Small Primary Service Rate 4(M), Large Primary Service Rate 11(M), and Large Transmission Service Rate 12(M) rate schedules. All customers taking service under said rate schedules shall pay the charge regardless of whether a particular customer utilizes a demand-side program available hereunder, unless the customer is an eligible business which has opted-out as provided for previously or it is a residential customer who qualifies for the low-income exemption as outlined in Rider EEIC 2019-21.
ENERGY EFFICIENCY MEEIA 2019-21 (Cont'd.)

PROGRAM DESCRIPTIONS
The following pages contain other descriptions and terms for the programs being offered under this tariff.

CHANGES IN MEASURES OR INCENTIVES
Company may offer the Measures contained in the TRM. The offering of Measures that are not contained in or that do not meet the custom measure definition within Company’s TRM must be approved by the Commission. Changes to Measures and inputs contained in the Deemed Savings Table will be completed by following steps 3, 4, 5, 6, 10 & 11 of the 11-step change process. Not all Measures listed in the TRM will be offered at all times. The actual Measures being offered, and Incentives available to customers, will be listed on Company's website, AmerenMissouri.com/EnergyEfficiency. The Measures and Incentives being offered are subject to change. Customers must reference AmerenMissouri.com/EnergyEfficiency or call 800-552-7583 for the list of currently available Measures. The website will expressly state in conspicuous language that the Measures and Incentives are subject to change. Should a Measure or Incentive offering shown on Company’s website differ from the corresponding Measure or Incentive offering shown in the currently effective notice filed in File No. EO-2018-0211, the stated Measure or Incentive offering as shown in the currently effective notice shall govern.
ENERGY EFFICIENCY MEEIA 2019-21

Business Standard Incentive Program

PURPOSE

The Standard Incentive Program (Program) will provide pre-set Incentives for energy efficient products that are readily available in the marketplace. Standard Incentives will be fixed per each Measure unit. The primary objective of the Standard Incentive Program is to provide an expedited, simple solution for customers interested in purchasing efficient technologies that will produce verifiable energy savings.

AVAILABILITY

This Program is available during the Program Period, and is voluntary and available to all customers receiving electric service under Service Classifications Small General Service Rate 2(M), Large General Service Rate 3(M), Small Primary Service Rate 4(M), Large Primary Service Rate 11(M), or Large Transmission Service Rate 12(M) that also meet the Standard Incentive Program Provisions below.

PROGRAM PROVISIONS

The Program Administrator will provide the necessary services to effectively implement the program and to strive to attain the energy savings targets. Standard Incentives for Measures will be provided to qualifying customers that provide completed Standard Incentive Applications or validation qualification through a wholesale outlet as indicated below:

1. Customer must complete a Standard Incentive Application form, available at www.ameren.com/missouri/energy-efficiency/business/program-overview; or where applicable, complete validation qualification with wholesale Program Provider;
2. Customer must provide proof of equipment purchase and installation date;
3. Measures must be purchased and installed after March 1, 2019;
4. Measures for which customer has received an Incentive under a different Business Program or Residential Program are not eligible for this Standard Incentive Program;
5. Measures must be part of a Project having an installed TRC ratio greater than 1.0; and
6. Standard Measures must be installed as a retrofit in an existing facility.

By applying for the Standard Incentive Program, the customer agrees that the Project may be subject to random on-site inspections by the Program Administrator.
ENERGY EFFICIENCY MEEIA 2019-21 (Cont’d.)

Business Standard Incentive Program (Cont’d.)

ELIGIBLE MEASURES AND INCENTIVES

Standard Incentives filed in File No. EO-2018-0211 and additional Measures covered by the TRM are eligible for program benefits and Incentives and may be offered during the Program Period. These include, but are not limited to, the following equipment types:

1. HVAC (Heating, Ventilation, and Air-conditioning)
2. Lighting
3. Refrigeration
4. Cooking
5. Water Heating
6. Motors
7. Controls

Additional Program details, eligible Measures, and Incentives can be found at www.ameren.com/missouri/energy-efficiency/business/program-overview.
ENERGY EFFICIENCY MEEIA 2019-21
Business Custom Incentive Program

PURPOSE
The Custom Incentive Program (Program) will provide financial assistance to customers to support implementation of energy efficiency improvement opportunities which are available at the time of equipment replacement, facility modernization, and industrial process improvement. A "Custom Incentive" is a direct payment or bill credit to a Participant for installation of Measures that are part of Projects that have been pre-approved by the Program Administrator.

AVAILABILITY
This Program is available during the Program Period, and is voluntary and available to all customers receiving electric service under Service Classifications Small General Service Rate 2(M), Large General Service Rate 3(M), Small Primary Service Rate 4(M), Large Primary Service Rate 11(M), or Large Transmission Service Rate 12(M) that also meet Custom Incentive Program Provisions below.

PROGRAM PROVISIONS
The Program Administrator will provide the necessary services to effectively implement the Program and to strive to attain the energy savings targets. Customers may apply for a Custom Incentive for Measures under consideration which:

1. Reduce energy consumption compared to the currently installed system, or when there is not an existing system, the standard efficiency system currently available in the market;
2. Have not yet been installed and for which purchase and/or installation commitments have not yet been made;
3. Have not received an Incentive for the Measure under a different Business Program or Residential Program;
4. Are not one of the Measures eligible for an Incentive under the Standard Incentive Program; and
5. Are being installed in an existing facility.

Prior to purchasing and installing Measure(s), Applicant must submit a Custom Incentive Application form that provides data about the applicable facility and potential Measure(s). The Program Administrator will perform a desk review of the Custom Incentive Application to determine eligibility, Measure Benefit/Cost Test results, estimated energy savings and Custom Incentive amount for each Measure. The Program Administrator may perform a site visit to verify baseline conditions. If approved, the Program Administrator will submit an Incentive commitment offer to customer. Upon receipt of a customer-signed Incentive commitment, the Custom Incentive amount will be reserved.
PROGRAM PROVISIONS (Cont’d.)
Following installation of approved Custom Measures, the Participant will submit a Completion Certificate to the Program Administrator. The Completion Certificate will require supporting Project documentation to include, but not limited to: final Custom Measure costs, a completion date for each Custom Measure, specification sheets, and invoices for all Custom Measures. If necessary, the Custom Incentive amount will be recalculated. Every Custom Incentive Application for a Custom Incentive requires pre-approval by the Program Administrator and may be subject to on-site verification by the Program Administrator prior to payment of the Custom Incentive amount.

ELIGIBLE MEASURES AND INCENTIVES
All energy savings Measures that are not offered through other Business Programs are eligible. Additional Program details and Incentives may be found at www.ameren.com/missouri/energy-efficiency/business/program-overview.
PURPOSE
The Retro-Commissioning Program (Program) will capture energy and demand reductions from existing facilities by optimizing building system energy use and overall efficiency. Through this Program, the Company will provide energy assessment services and assistance in implementing identified solutions to customers to ensure that their systems are operating at optimal energy efficiency.

AVAILABILITY
This Program is available during the Program Period, and is voluntary and available to all customers receiving electric service under Service Classifications Small General Service Rate 2(M), Large General Service Rate 3(M), Small Primary Service Rate 4(M), Large Primary Service Rate 11(M), or Large Transmission Service Rate 12(M) that also meet the following Program Provisions. Participants in this Program will be those customers with a facility that has all of the following criteria:

1. At least one of the following conditions:
   a. Higher than average electric energy intensities (kWh/ft²) based on business type;
   b. Minimum of 100,000 ft² of conditioned space; or
   c. Presence of an energy management system (EMS);
2. Mechanical equipment is operational; and
3. Will yield cost-effective energy savings according to a Retro-Commissioning Assessment Study.

A "Retro-Commissioning Assessment Study" is a detailed analysis performed by Retro-Commissioning Program Providers on Projects passing the initial screening which is used to identify sub-optimal system operational performance and to identify corrections which will yield cost-effective energy savings.

PROGRAM PROVISIONS
The Program Administrator will provide the necessary services to effectively implement the Program and to strive to attain the energy savings targets. Program benefits have been designed to provide cost effective Retro-Commissioning services to eligible facilities and include:

1. Recruitment and training of Retro-Commissioning Program Providers;
2. Benchmarking of candidate facilities using ENERGY STAR Portfolio Manager® or other comparable procedures to identify facilities with Retro-Commissioning opportunities;
3. Access to a group of pre-qualified Retro-Commissioning Program Providers that can provide studies performed by trained auditors to identify cost effective building system optimization Measures;
4. Assisting building owners with contractor acquisition and management during the implementation process;
5. Building owner staff training on Retro-Commissioning operations;
6. Verification of operating results; or
7. Ongoing monitoring of Retro-Commissioned building systems to promote persistence of improvements.
ENERGY EFFICIENCY MEEIA 2019-21 (Cont'd.)

Business Retro-Commissioning Program (Cont'd.)

PROGRAM PROVISIONS (Cont'd.)
The Incentives provided through the Retro-Commissioning Program will be limited to those Measures which are determined to achieve energy efficiency improvements through the calibration, maintenance, and optimization of current systems.

ELIGIBLE MEASURES AND INCENTIVES
Additional Program details and Incentives may be found at www.ameren.com/missouri/energy-efficiency/business/program-overview.
ENERGY EFFICIENCY MEEIA 2019-21

Business New Construction Incentive Program

PURPOSE

The New Construction Incentive Program (Program) will capture energy and demand reductions from new construction projects by interacting with building owners and designers during the design and/or construction process. The Program encourages building owners and designers to evaluate and install systems with higher energy efficiencies than the designed systems through training, design Incentives, and installation Incentives.

DEFINITIONS APPLICABLE TO NEW CONSTRUCTION INCENTIVE PROGRAM ONLY

Baseline Building Design - The baseline building design will be established on a case-by-case basis, and the more stringent of either minimum market standards, the facility’s original design, the local energy code, or any legal or contractual construction requirements shall apply. Baseline building design will be documented in the Technical Analysis Study (TAS).

Technical Analysis Study (TAS) - An energy savings estimate that clearly describes the energy efficiency/process improvement opportunity, with concise and well-documented presentations of the analysis method used to estimate energy savings, and the assumptions used to generate Project capital cost estimates. Each TAS will:

1. Describe the proposed facility (typically with a sketch or blueprint showing site layout or floor plan);
2. Describe the Baseline Building Design and provide its estimated electricity use and estimated annual Operations & Maintenance costs;
3. Describe the efficient equipment to be added along with key performance specifications;
4. Provide estimated electricity use for the efficient condition;
5. Provide the energy and demand savings calculations, together with the source of input parameter numbers and justification for each assumption made;
6. Provide the incremental cost to implement the Project; and
7. Provide the estimated financial Incentive and estimated annual cost savings, together with the financial metric(s) requested by the customer (i.e., simple payback, Internal Rate of Return, Return on Investment).

Whole Building Area Method - An energy analysis methodology in which the design team examines the integration of all building components and systems and determines how they best work together to save energy and reduce environmental impact.
ENERGY EFFICIENCY MEEIA 2019-21 (Cont'd.)

Business New Construction Incentive Program (Cont'd.)

AVAILABILITY
This Program is available during the Program Period, and is voluntary and available to all customers receiving electric service under Service Classifications Small General Service Rate 2(M), Large General Service Rate 3(M), Small Primary Service Rate 4(M), Large Primary Service Rate 11(M), or Large Transmission Service Rate 12(M) that also meet the New Construction Program Provisions. Eligible facilities' applications include new facilities built from the ground up, additions to existing facilities, or major renovation of existing facilities requiring significant mechanical and/or electrical equipment alteration.

PROGRAM PROVISIONS
The Program Administrator will provide the necessary services to effectively implement the Program and to strive to attain the energy savings targets. Program benefits are tailored to Projects based on their phase in the development process.

TAS and the Whole Building Area Method may be used to determine Project energy savings.

ELIGIBLE MEASURES AND INCENTIVES
Additional Program details, eligible Measures and Incentives may be found at www.ameren.com/missouri/energy-efficiency/business/program-overview.
ENERGY EFFICIENCY MEEIA 2019-21
Small Business Direct Install Incentive Program

PURPOSE
The Small Business Direct Install Incentive Program (Program) will provide installation of low-cost and/or no-cost energy-efficient Measures to small business customers. Program Providers will deliver, install, and complete paperwork for Measures provided for in this Program. The primary objective of the Small Business Direct Install Incentive Program is to remove participation barriers for small businesses through a simple and streamlined process. Program Providers will identify additional energy efficiency opportunities that may qualify for Incentives under the Standard Incentive Program or Custom Incentive Program.

AVAILABILITY
This Program is available during the Program Period, and is voluntary and available to all customers in the Small General Service Rate 2(M) rate class that also meet the Small Business Direct Install Incentive Program Provisions, below.

PROGRAM PROVISIONS
The Program Administrator will provide the necessary services to effectively implement the Program and to strive to attain the energy savings targets. Small Business Direct Install Incentives for Measures will be provided to qualifying customers that provide completed Small Business Direct Install Incentive Applications as indicated below:

1. Customer must complete a Small Business Direct Install Incentive Application form;
2. Qualifying Measures must be installed by a participating Small Business Direct Install Program Provider after March 1, 2019;
3. Measures must be part of a Project having an installed TRC ratio greater than 1.0; and
4. Measures must be installed as a retrofit in an existing facility.

By applying for the Small Business Direct Install Incentive Program, the customer agrees that the Project may be subject to random on-site inspections by the Program Administrator.

ELIGIBLE MEASURES AND INCENTIVES
Small Business Direct Install Incentives filed in File No. EO-2018-0211 and additional Measures covered by the TRM are eligible for Program benefits and Incentives and may be offered during the Program Period. These include, but are not limited to, the following equipment types:

1. HVAC (Heating, Ventilation, and Air-conditioning)
2. Lighting
3. Refrigeration
4. Motors
5. Water Heating
6. Smart Thermostat

Additional Program details and Incentives may be found at AmerenMissouri.com/SBDI.
ENERGY EFFICIENCY MEEIA 2019-21

Business Social Services Program

PURPOSE
The objective of the Social Services Program (Program) is to deliver long-term energy savings and bill reductions to social service business customers. This will be achieved through a variety of prescriptive measures and comprehensive retrofits.

DEFINITIONS APPLICABLE TO BUSINESS SOCIAL SERVICES PROGRAM ONLY
Social Services – Nonprofit tax exempt business customer that provides social services to the low-income public, such as food banks, food pantries, soup kitchens, homeless shelters, employment services, worker training, job banks, and childcare.

AVAILABILITY
This Program is available during the Program Period. The Program is voluntary and available to Social Services' facilities receiving electric service under Company's Small General Service Rate 2(M) or Large General Service Rate 3(M) classifications where the facility as a whole, or a dedicated part of a facility, is primarily used to provide Social Services. Measures will be available to the portion of the facility primarily used to provide Social Services.

PROGRAM PROVISIONS
The Program Administrator will provide the necessary services to effectively implement the Program and to strive to attain energy savings.

Customer must certify that all or part of the specific facility for which the Measures and/or retrofits are targeted is primarily utilized for Social Services. Measures for which customer has received an Incentive under a different Business Program or Residential Program are not eligible for this Social Services Program;

ELIGIBLE MEASURES AND INCENTIVES
Social Services Incentives filed in File No. EO-2018-0211 and additional Measures covered by the TRM are eligible for Program benefits and Incentives and may be offered during the Program Period. These may include, but are not limited to, the following equipment types:
1. HVAC (Heating, Ventilation, and Air-conditioning)
2. Lighting
3. Refrigeration
4. Cooking
5. Water Heating
6. Motors
7. Controls

Additional Program details and Incentives may be found at www.ameren.com/missouri/energy-efficiency/business/program-overview.
UNION ELECTRIC COMPANY

ELECTRIC SERVICE

MO.P.S.C. SCHEDULE NO. 6

CANCELLING MO.P.S.C. SCHEDULE NO. 

APPLYING TO MISSOURI SERVICE AREA

DATE OF ISSUE December 21, 2018

DATE EFFECTIVE January 20, 2019

ISSUED BY Michael Moehn President St. Louis, Missouri

NAME OF OFFICER TITLE ADDRESS

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EO-2018-0211; YE-2019-0133
UNION ELECTRIC COMPANY  ELECTRIC SERVICE

MO.P.S.C. SCHEDULE NO.  6       Original       SHEET NO.  229
CANCELLING MO.P.S.C. SCHEDULE NO.       SHEET NO.   

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UNION ELECTRIC COMPANY

ELECTRIC SERVICE

MO.P.S.C. SCHEDULE NO. 6 Original SHEET NO. 230

CANCELLING MO.P.S.C. SCHEDULE NO. SHEET NO.

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ELECTRIC SERVICE

MO.P.S.C. SCHEDULE NO. 6
CANCELING MO.P.S.C. SCHEDULE NO. ______

APPLYING TO MISSOURI SERVICE AREA

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NAME OF OFFICER TITLE ADDRESS

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ENERGY EFFICIENCY MEEIA 2019-21
Residential Lighting Program

PURPOSE
The Lighting Program (Program) is intended to reduce energy use in residential lighting by encouraging selection of ENERGY STAR®-qualified lighting products.

AVAILABILITY
The Lighting Program is available for the Program Period. Residential customers may participate in the Lighting Program by acquiring program ENERGY STAR® LED lighting products, ENERGY STAR® fixtures, and other emerging ENERGY STAR®-qualified lighting technologies from participating Program Partners through purchase or other approved distribution methods.

PROGRAM PROVISIONS
The Company will hire a Program Administrator to implement this Program. The Program Administrator will provide the necessary services to effectively implement the Program and to strive to attain the energy savings targets. The Lighting Program Administrator will provide Lighting Program services and Incentives to Program Partners for the purpose of increasing awareness, sales, and market share of residential ENERGY STAR®-qualified products promoted by the Lighting Program.

Lighting Program promotions will be made available on-line and at Program Partner locations and distribution channels within the Company’s electric service territory. Participating Lighting Program Partners will be listed on the AmerenMissouri.com/lighting website with store name and location listed, as well as any in-store promotions being offered.

ELIGIBLE MEASURES AND INCENTIVES
Energy Efficient Lighting Products filed in File No. EO-2018-0211 and additional Lighting Products covered by the TRM are eligible for Program benefits and Incentives and may be offered for promotion during the Program Period. Eligible Lighting Products and Incentives paid directly to customers may be found at AmerenMissouri.com/lighting.

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ISSUED BY Michael Moehn President NAME OF OFFICER ADDRESS St. Louis, Missouri
PURPOSE
The purpose of the Energy Efficient Products Program (Program) is to raise customer awareness of the benefits of “high-efficiency” products (ENERGY STAR®, Consortium for Energy Efficiency (CEE) Tiers, or better). The Program is intended to reduce energy use by encouraging residential customers to purchase qualifying efficient products.

AVAILABILITY
The Energy Efficient Products Program is available for the Program Period. Residential customers may participate in the Program by acquiring Program energy efficient products from participating Program Partners through on-line purchases or other approved distribution methods.

PROGRAM PROVISIONS
The Company will hire a Program Administrator to implement this Program. The Program Administrator will provide the necessary services to effectively implement the Program and strive to attain the energy savings targets. The Energy Efficient Products Program incorporates various Program Partners, products, Incentive mechanisms and Program delivery strategies. The Program Administrator may partner with other utilities (i.e. gas and water utilities) to create synergies.

The Company and the Program Administrator will follow a multi-faceted approach to marketing highly efficient appliances and products with an emphasis on ENERGY STAR®. Company will leverage the CEE and others to identify efficiency tiers above ENERGY STAR® for additional offers.

ELIGIBLE MEASURES AND INCENTIVES
Energy Efficient Products Measures filed in File No. EO-2018-0211 and additional Measures covered by the TRM are eligible for Program benefits and Incentives and may be offered for promotion during the Program Period. Eligible Energy Efficient Products and Incentives paid directly to customers may be found at AmerenMissouri.com/products.
ENERGY EFFICIENCY MEEIA 2019-21
Residential HVAC Program

PURPOSE
The purpose of the HVAC Program (Program) is to obtain energy and demand savings through improvement in operating performance of new residential central cooling systems or replacement of existing residential central cooling systems.

AVAILABILITY
The HVAC Program is available for the Program Period, and Services under this Program are available to Customers on the Residential Service Rate 1(M).

PROGRAM PROVISIONS
The Program improves the efficiency of new and existing central air conditioning systems, including heat pumps, by installation of new equipment. The Program may also promote installation of heat pump water heaters, smart thermostats, efficient products, natural gas program rebates, or enrollment in a residential demand response program.

The Company will hire a Program Administrator to implement this Program. The Program Administrator will provide the necessary services to effectively implement the Program and strive to attain the energy and demand savings targets. Company will provide Incentives to encourage sales of energy efficient products and properly installed HVAC energy saving upgrades.

The Program will employ the Program Administrator’s preferred protocols to verify system eligibility for Program Measures.

ELIGIBLE MEASURES AND INCENTIVES
HVAC related Program Measures filed in File No. EO-2018-0211 and additional Measures covered by the TRM are eligible for Program benefits and Incentives and may be offered for promotion during the Program Period. Eligible Measures and Incentives paid directly to customers may be found at AmerenMissouri.com/HVAC.
ENERGY EFFICIENCY MEEIA 2019-21

Residential Home Energy Reports Program

PURPOSE
The purpose of the Home Energy Reports Program (Program) is to obtain energy and demand savings by focusing on energy consumption behavior changes of participating customers. This is a behavior modification program.

AVAILABILITY
The Home Energy Reports Program is available for the Program Period. Services under this Program are available to Customers on the Residential Service Rate 1(M). The Program Administrator will work with customer data to select Program Participants. Home Energy Reports will be mailed and/or emailed to targeted residential customers on an established frequency for the duration of the Program. Customers who do not wish to receive a report will be able to contact Ameren Missouri to be removed from participation.

PROGRAM PROVISIONS
The Company will hire a Program Administrator to implement this Program. The Program Administrator will provide the necessary services to effectively implement the Program and to strive to attain the energy savings targets.

ELIGIBLE MEASURES AND INCENTIVES
The Program focuses on energy consumption behavior changes that result in reduced electricity consumption. As such, the overall metric is reduced monthly/annual energy consumption. There are no specific energy efficiency Measures associated with the Program. However, there may be rewards associated with behavior changes that lead to reduced energy consumption. Additional Program details may be found at AmerenMissouri.com/myreport.
ENERGY EFFICIENCY MEEIA 2019-21

Residential Energy Efficiency Kits Program

PURPOSE
The objective of the Energy Efficiency Kits Program (Program) is to raise customer awareness of the benefits of “high-efficiency” products (ENERGY STAR®, Consortium for Energy Efficiency (CEE) Tiers, or better) and to educate residential customers about energy use in their homes and to offer information, products, and services to residential customers to save energy cost-effectively.

AVAILABILITY
The Energy Efficiency Kits Program is available for the Program Period to Residential customers and may be offered through various channels, such as direct mail, secondary education schools, and community based organizations.

PROGRAM PROVISIONS
The Company will hire a Program Administrator to implement this Program. The Program Administrator will provide the necessary services to effectively implement the Program and strive to attain the energy savings targets. The Energy Efficiency Kits Program incorporates various Program Partners, products, incentive mechanisms, and program delivery strategies.

The Company and the Program Administrator will follow a multi-faceted approach to educate Participants and effectuate installation of energy efficient products and actions addressed in the Energy Efficiency Kits. Company will leverage the CEE and others to identify efficiency tiers above ENERGY STAR for additional products. The Program Administrator may partner with other utilities (i.e. gas and water utilities) to create synergies.

ELIGIBLE MEASURES AND INCENTIVES
Energy Efficiency Kits Measures filed in File No. EO-2018-0211 and additional Measures covered by the TRM approved are eligible for Program benefits and Incentives and may be offered for promotion during the Program Period. Additional Program details may be found at AmerenMissouri.com/education.
ENERGY EFFICIENCY MEEIA 2019-21

Residential Appliance Recycling Program

PURPOSE
The Appliance Recycling Program (Program) is a voluntary program designed to encourage the retirement of inefficient, working refrigerators, freezers and appliances by providing an Incentive to take the units out of homes and recycle them in an environmentally safe manner.

AVAILABILITY
The Program is available during the Program Period. All Company customers receiving service under the Residential Service Rate 1(M) are eligible for this Program.

PROGRAM PROVISIONS
The Company will hire a Program Administrator to implement this Program. The Program Administrator will provide the necessary services to effectively implement the Program and strive to attain the energy savings targets. The following general process will be followed to serve Participants in the Program:

- Participants contact the Program toll-free or online at AmerenMissouri.com/fridge to schedule the appliance pick up.
- At the Participant’s address the Program Partner team verifies the unit is operational, it meets program guidelines, and removes it from the home.
- The unit is taken to the Program Partner facility and all materials are recovered for recycling or disposed of in accordance with Environmental Protection Agency (EPA)-approved practices.
- Incentives are sent to Participants following the pick-up appointment.

ELIGIBLE MEASURES AND INCENTIVES
Recycling related Measures covered by the TRM are eligible for Program benefits and Incentives and may be offered for promotion during the Program Period. Additional Program details and Incentives paid directly to customers may be found at AmerenMissouri.com/fridge.

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ENERGY EFFICIENCY MEEIA 2019-21

Multi-Family Market Rate Program

PURPOSE
The objective of the Multi-Family Market Rate Program (Program) is to deliver long-term energy savings and bill reductions to residential customers residing in multi-family properties that do not qualify for the Multi-Family Low-Income Program. This will be achieved through Incentives for a variety of incentivized energy saving Measures and comprehensive retrofits.

AVAILABILITY
The Program is available for the Program Period to owners and operators of non-low-income multi-family properties of three or more dwelling units with eligible customers receiving service under the Residential Service Rate 1(M) or Service Classifications Small General Service Rate 2(M), Large General Service Rate 3(M), Small Primary Service Rate 4(M).

PROGRAM DESCRIPTION
The Company will hire a Program Administrator to implement this Program. The Program Administrator will provide the necessary services to effectively implement the Program and to strive to attain the energy savings targets.

The Program Administrator will provide or approve installation of Program-specified energy efficiency Measures for multi-family properties and may provide custom Incentives for Measures that have been pre-authorized by the Program Administrator for dwelling units, common areas, building shell and whole-building systems.

The Program Administrator may partner with other utilities (i.e. gas and water utilities) to create synergies.

Measures installed pursuant to the Multi-Family Market Rate Program are not eligible for Incentives through any of the Company’s other energy efficiency programs.

ELIGIBLE MEASURES AND INCENTIVES
Multi-Family Market Rate Measures filed in File No. EO-2018-0211 and additional Measures covered by the TRM are eligible for Program benefits and Incentives and may be offered for promotion during the Program Period. Eligible Measures and Incentives directly paid to customers, property owners, or property managers may be found at AmerenMissouri.com/multifamily.

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ENERGY EFFICIENCY MEEIA 2019-21
Residential Single Family Low-Income Program

PURPOSE
The objective of the Single Family Low-Income Program (Program) is to deliver long-term energy savings and bill reductions to residential single family low-income customers. This will be achieved through a variety of channels to educate customers about energy use in their homes and to offer information, products and services to residential customers to save energy wisely. This allows the customer to identify and initiate the process of installing long-term energy efficiency upgrades and practices.

*AVAILABILITY
The Program is available for the Program Period to:

1. Qualifying single family low-income customers receiving service under the Residential Service Rate 1(M) residing in single family detached housing, attached dwellings of four (4) or fewer units, and mobile homes (wood-frame bolted to steel chassis, designed to be transported); or
2. Organizations who perform qualified installations or distributions to homes of qualified low-income residential end users may participate in this Program by making application for a low-income efficiency housing grant.

In order to qualify for participation, low-income Participants must meet one of the following income eligibility requirements:

1. Participation in federal, state, or local subsidized housing program.
2. Proof of resident income levels at or below 80% of area median income (AMI) or 200% of federal poverty level.
3. Fall within a census tract included on Company's list of eligible low-income census tracts.

PROGRAM DESCRIPTION
The Company will hire a Program Administrator to implement this Program. The Program Administrator will provide the necessary services to effectively implement the Program and to strive to attain the energy savings targets. The Program Administrator will provide one-on-one energy education and install a comprehensive package of whole house energy saving Measures at no or low cost to customer. Incentives under this Program will be provided toward individually metered homes in neighborhoods served and selected by Company or approved low-income efficiency housing grant organizations. In some instances, an individual home may be referred to the Program by a qualified low-income assistance agency. The Program Administrator may partner with other utilities (i.e. gas and water utilities) to create synergies. Participants in selected low-income neighborhoods are limited to the one-time receipt of energy efficiency Measures under this Program. Measures installed pursuant to the Program (excluding Low-Income Efficiency Housing grants) are not eligible for Incentives through any of the Company's other energy efficiency or demand response programs.

*Indicates Change.
ENERGY EFFICIENCY MEEIA 2019-21 (Cont'd.)
Residential Single Family Low-Income Program (Cont'd.)

ELIGIBLE MEASURES AND INCENTIVES

Single Family Low-Income Measures filed in File No. EO-2018-0211 and additional Measures covered by the TRM are eligible for Program benefits and Incentives and may be offered for promotion during the Program Period. Eligible Measures and Incentives directly paid to customers may be found at Amerenmissouri.com/CommunitySavers.
ENERGY EFFICIENCY MEEIA 2019-21
Residential Multi-Family Low-Income Program

PURPOSE
The objective of the Multi-Family Low-Income Program (Program) is to deliver long-term energy savings and bill reductions to residential low-income customers residing in multi-family properties. This will be achieved through education and a variety of directly installed energy saving Measures and comprehensive retrofits.

AVAILABILITY
The Multi-Family Low-Income (MFLI) Program is available for the Program Period to owners and operators of any multi-family properties of three or more dwelling units receiving service under the Residential Service Rate 1(M) or Service Classifications Small General Service Rate 2(M), Large General Service Rate 3(M), Small Primary Service Rate 4(M) meeting one of the following eligibility requirements:

1. Participation in federal, state, or local subsidized housing program.
2. Proof of resident income levels at or below 80% of area median income (AMI) or 200% of federal poverty level.
3. Fall within a census tract included on Company's list of eligible low-income census tracts.

Where a multi-family property does not meet one of the eligibility criteria listed above and has a combination of qualifying tenants and non-qualifying tenants, at least 50% of the tenants must be eligible for the entire property to qualify.

PROGRAM DESCRIPTION
The Company will hire a Program Administrator to implement this Program. The Program Administrator will provide the necessary services to effectively implement the Program and to strive to attain the energy savings targets. The Program Administrator will provide or approve installation of Program specified energy efficiency Measures and may provide custom Incentives for Measures that have been pre-authorized by the Program Administrator for tenant units, common areas, building shell and whole-building systems. Participating properties may receive Incentives to defray the cost of attending Building Operator Certification Training to support their energy efficiency journey. The Program Administrator may partner with other utilities (i.e. gas and water utilities) to create synergies.

ELIGIBLE MEASURES AND INCENTIVES
Program Measures filed in File No. EO-2018-0211 and additional Measures covered by the TRM approved in File No. EO-2018-0211 are eligible for Program benefits and Incentives and may be offered for promotion during the Program Period. Eligible Measures and Incentives directly paid to customers, property owners or property managers may be found at Amerenmissouri.com/CommunitySavers. Measures installed pursuant to the MFLI Program are not eligible for Incentives through any of the Company’s other Energy Efficiency or Demand Response programs.
ENERGY EFFICIENCY MEEIA 2019-21

Education Programs

PURPOSE
The purpose of Education Programs is to raise customer awareness of the benefits of energy efficiency and conservation, and Ameren Missouri's energy efficiency programs.

AVAILABILITY
Education Programs are available for all or a portion of the Program Period, and may be offered to either commercial or residential customers based on the specified delivery channel(s). Education Programs will be available to a target set of customers and include, but are not limited to, the following:

Science, Technology, Engineering, and Mathematics (STEM) Education - Curriculum for high school students focused on aspects of energy generation and delivery with particular emphasis on consumption and energy efficient equipment and behaviors.

Home Building Code Compliance - Education provided to builders, sub-contractors, designers, and others in the home building industry that are focused on high-energy impact measures that are commonly missed in residential code compliance.

Workplace Employee Education - Designed to educate residential customers at their workplace on energy use, tactics to reduce energy consumption and to promote long-term energy savings.

Smart Home Energy Management - Educates residential customers about Smart Home Energy Management products and availability, to advance and increase adoption of those technologies.

Real Estate Audits - Designed to use real estate institutions as a channel to encourage the use of home energy audits to improve home performance prior to the purchase of a new home.

Building Operator Certification (BOC) - BOC is a nationally-recognized, competency-based training and certification program for operations and maintenance staff working in commercial, institutional, or industrial buildings. BOC achieves measurable energy savings in the operation of public facilities and commercial buildings by training individuals directly responsible for day-to-day operations.

PROGRAM PROVISIONS
The Program Administrator will provide the necessary services to deliver education through targeted channels. Education programs incorporate various Program Partners and delivery strategies. Additional program details may be found at AmerenMissouri.com/energyefficiencyeducation.

The Program Administrator may partner with other utilities (i.e. gas and water utilities) to create synergies.
UNION ELECTRIC COMPANY

ELECTRIC SERVICE

MO.P.S.C. SCHEDULE NO. 6

CANCELING MO.P.S.C. SCHEDULE NO. 

APPLYING TO MISSOURI SERVICE AREA

DATE OF ISSUE December 21, 2018

DATE EFFECTIVE January 20, 2019

ISSUED BY Michael Moehn

NAME OF OFFICER

President

TITLE

ADDRESS

FILED Missouri Public Service Commission

EO-2018-0211; YE-2019-0133
Purpose

The purpose of the Business and Residential Demand Response Programs is to proactively impact customer energy use in such a way as to reduce demand (kW) and/or energy (kWh). The programs included in this tariff are expected to be cost effective having a Total Resource Cost Test ratio of greater than 1.0.

Definitions

Unless otherwise defined, capitalized terms used in Tariff Sheet Nos. 247 through 249.1 have the following meanings:

Business Demand Response Program - A demand response program that is available to a customer receiving electric service under Service Classifications Small General Service Rate 2(M), Large General Service Rate 3(M), Small Primary Service Rate 4(M), Large Primary Service Rate 11(M), or Large Transmission Service Rate 12(M).

Demand Response Event (Event) - A period of time up to four hours during which the Company will ask the demand response participants to reduce their energy use.

DSIM (Demand-Side Programs Investment Mechanism) - A mechanism approved by the Commission in the Company's filing for demand-side program approval in File No. EO-2018-0211 as may be amended.

Incentive - Any consideration provided by the Company directly or through the Program Administrator, Trade Ally, and/or Program Partners which encourages the adoption of Measures or behaviors that reduce energy usage and/or demand, including in the form of cash, bill credit, payment to third party, donations or giveaways, public education programs, buydowns, markdowns, rebates, bill credits, direct installation, and education.

Program Administrator - The entity selected by the Company to provide program design, promotion, administration, implementation, and delivery of services.

Program Partner - A retailer, distributor, or other service provider that the Company or the Program Administrator has approved to provide specific program services through execution of a Company-approved service agreement.

Program Period - The period from March 1, 2019 through December 31, 2021 unless sooner terminated under the TERM provision of this tariff. Programs may have slightly earlier deadlines for certain activities, as noted on the Company website AmerenMissouri.com/demandresponse.

Program Provider - An entity that meets the criteria defined by a Program Administrator to provide specific program products and/or services.

Program Season - The portion of the calendar year, May through September inclusive, in which demand response events may be called.

Residential Demand Response Program - A Demand Response program available to residential customers in the Company’s Missouri service area being served under the Residential Service Rate 1(M) rate schedule.
DEFINITIONS (Cont'd.)

Trade Ally – An independent contractor that the Company or the Program Administrator has approved to provide specific program services through execution of a Company-approved service agreement.

AVAILABILITY

Except as otherwise provided in the terms governing a particular program, business programs are available uniformly to all customers qualifying for service under Service Classifications Small General Service Rate 2(M), Large General Service Rate 3(M), Small Primary Service Rate 4(M), Large Primary Service Rate 11(M), or Large Transmission Service Rate 12(M). Customers participating in a business program must have metering provided by Company that can record intervals of energy and demand of one hour or smaller. Residential programs are available to residential customers in the Company’s Missouri service area being served under the Residential Service Rate 1(M) rate schedule. Some programs may also require that services be phased-in on a geographical or other basis to better manage resources. Some services may only be available through participating Program Partners, Program Providers, or Trade Allies.

Unless otherwise provided for in the tariff sheets governing a particular program, customers may participate in multiple Programs, but may receive only one Incentive per Measure.

Business Programs are also not available to customers electing to opt-out of energy efficiency program funding under 4 CSR 240-20.094(7).

TERM

This tariff (Sheet Nos. 247 - 247.3) and the tariffs reflecting each specific demand response program (Sheet Nos. 248, 249 and 249.1) shall be effective from March 1, 2019 through December 31, 2021, except that the programs shall terminate immediately, and without further Commission action, on the effective date of any court order, judgment, or opinion or Commission order that changes or eliminates the approved DSIM or Technical Resource Manual, unless the changes are initiated or accepted by the Company. Programs may not be available or fully rolled-out on the tariff effective date. Consult AmerenMissouri.com/demandresponse to determine the status of the programs. Programs may have earlier deadlines for certain activities, as noted on the Company's website AmerenMissouri.com/demandresponse.

If the programs are terminated prior to December 31, 2021 under this provision, only Incentives for qualifying Measures that have been executed prior to the programs’ termination and in accordance with the appropriate demand response program provisions will be provided to the customer.
DESCRIPITION

The modifications in kW and kWh consumption will be accomplished through the following Programs:

1. Business Demand Response Program
2. Residential Demand Response Program

Program details regarding the interaction between the Company or Program Administrators and customers participating in the Programs, such as Incentives paid directly to customers, available Measures, Measure Ranges, availability of the programs, eligibility, and application and completion requirements may be adjusted through the change process as presented below. Those details, additional details on each program, and other details such as process flows, application instructions, and application forms will be provided on the Company's website AmerenMissouri.com/demandresponse or by calling 800-552-7583.

CHANGE PROCESS

The change process is applicable to changes in a program detail regarding the interaction between the Company or Program Administrators and customers participating in the Programs.

1. Identify need for program detail change regarding the interaction between the Company or Program Administrators and customers participating in the Programs;
2. Discuss proposed change with implementer;
3. Discuss proposed change with evaluator;
4. Analyze impact on program and portfolio (Cost effectiveness, goal achievement, etc.);
5. Inform the Staff, Office of the Public Counsel, and the Missouri Department of Economic Development - Division of Energy (DE) of the proposed change, the time within which it needs to be implemented, provide them the analysis that was done and consider recommendations from them that are received within the implementation timeline (the implementation timeline shall be no less than five business days from the time that the Staff, Office of the Public Counsel, and the DE are informed and provided the above-referenced analysis);
6. Take timely received recommendations into account and incorporate them where the Company believes it is appropriate to do so;
7. Notify and train customer contact personnel (Contact Center, Energy Advisors, Business Center, Key Account Executives, Customer Service Advisors) of the changes;
8. Make changes to forms and promotional materials;
9. Update program website;
10. File updated web pages and, if appropriate, updated list of Measures and Incentive amounts in File No. EO-2018-0211; and
11. Inform Participants, Program Providers, Trade Allies, etc.

Company will also continue to discuss and provide information on ongoing program and portfolio progress at quarterly regulatory stakeholder update meetings.
DEMAND RESPONSE MEEIA 2019-21 (Cont'd.)

PROGRAM COSTS

Costs of the Demand Response Programs reflected herein shall be reflected in a charge titled "Energy Efficiency Invest Chg" appearing as a separate line item on customers' bills and applied to customers' bills as a per kilowatt-hour charge as specified in the Residential Service Rate 1(M), Small General Service Rate 2(M), Large General Service Rate 3(M), Small Primary Service Rate 4(M), Large Primary Service Rate 11(M), and Large Transmission Service Rate 12(M) rate schedules. All customers taking service under said rate schedules shall pay the charge regardless of whether a particular customer utilizes a demand-side program available hereunder, unless the customer has opted-out as provided for previously or qualifies for the low-income exemption as outlined in Rider EEIC 2019-21.

PROGRAM DESCRIPTIONS

The following pages contain other descriptions and terms for the programs being offered under this tariff.

CHANGES IN MEASURES OR INCENTIVES

Residential Demand Response Program - The Company may offer Measures contained in Company's approved Plan in File No. EO-2018-0211. The actual Measures being offered, and Incentives available to customers, will be listed on Company's website, [AmerenMissouri.com/demandresponse](http://AmerenMissouri.com/demandresponse). The Measures and Incentives being offered are subject to change - customers must consult [AmerenMissouri.com/demandresponse](http://AmerenMissouri.com/demandresponse) for the list of currently available Measures. The website will expressly state in conspicuous language that the Measures and Incentives are subject to change. Should a Measure or Incentive offering shown on Company’s website differ from the corresponding Measure or Incentive offering shown in the currently effective notice filed in File No. EO-2018-0211, the stated Measure or Incentive offering as shown in the currently effective notice shall govern.

Business Demand Response Program - The Company will not directly offer specific Incentives for Measures. The Company will engage a Program Administrator who will contract with the customer to provide kW and kWh savings to the Company. Customer payments will vary by industry and ability to reduce kW and kWh. The Program Administrator's contact information will be listed on [AmerenMissouri.com/demandresponse](http://AmerenMissouri.com/demandresponse).
DEMAND RESPONSE MEEIA 2019-21

Business Demand Response Program

PURPOSE
The Business Demand Response Program (Program) will be operated by a demand-response aggregator (who will be the Program Administrator) to obtain energy and demand reductions from existing facilities by incentivizing customers to reduce energy usage through direct load control, manual response, and/or the use of behind the meter assets such as energy management systems or other properly permitted dispatchable assets. The Program Administrator will contract with eligible business customers to obtain the energy and demand reductions.

AVAILABILITY
This Program is available for the Program Period. This Program is available for dispatch 24 hours a day and 7 days a week during the Program Season. It is voluntary, and available to all customers qualifying for service under Service Classifications Small General Service Rate 2(M), Large General Service Rate 3(M), Small Primary Service Rate 4(M), Large Primary Service Rate 11(M), or Large Transmission Service Rate 12(M) provided the customer has metering provided by Company that can record intervals of energy and demand of one hour or smaller.

PROGRAM PROVISIONS
The Company will hire a demand response aggregator who will be the Program Administrator to implement this Program. The Program Administrator will provide the necessary services to effectively implement the Program and strive to attain the energy and demand savings targets. The Program Administrator will develop and enable each participating customer with a customized energy reduction plan and may provide control technology. Customers will have the opportunity to participate in Demand Response Events when initiated by the Company. Customer Incentives will be based on the availability and execution of reducing energy use during an Event. Customers can receive a demand reduction Incentive based on their average demand reduction during the Events in a program year. They can also receive an energy reduction Incentive based on the energy reduction for each Event. Participants will receive Incentive payments directly from the Program Administrator.

- Maximum number of Events per Program Season – 10
- Minimum number of Events per Program Season – 2
- Maximum duration of an Event – 4 hours
- Minimum notification before an Event – 1 hour

The Program Administrator will communicate in advance of a Demand Response Event to provide participants the greatest amount of notification to enhance their ability to reduce energy consumption during the Event.
DEMAND RESPONSE MEEIA 2019-21 (Cont'd.)

Business Demand Response Program (Cont'd.)

ELIGIBLE MEASURES AND INCENTIVES

The Program Administrator will deliver kW savings through business participants that contract directly with the Program Administrator using unique contract offerings and price points. There are no specific Measures associated with the Program. Additional information can be found at AmerenMissouri.com/demandresponse.

DATE OF ISSUE December 21, 2018
DATE EFFECTIVE January 20, 2019

ISSUED BY Michael Moehn
NAME OF OFFICER
President
TITLE
St. Louis, Missouri
ADDRESS
DEMAND RESPONSE MERRIA 2019-21
Residential Demand Response Program

PURPOSE
The Residential Demand Response Program (Program) will obtain energy and demand reductions from residences that have installed Program-eligible devices by incentivizing them to allow the Program Administrator to control their device's operation during peak Events for demand reduction and non-peak periods for energy reduction.

AVAILABILITY
This Program is available for the Program Period. The Program will dispatch Events to reduce peak demand during the Program Season and will reduce energy usage during normal operations throughout the year. It is voluntary, and available to customers in the Residential 1(M) rate class. To be eligible to participate, the customer must:

a) Have a central air conditioning system or other controllable device as required by the Program;
b) Have or purchase and install an eligible controlling device; and
c) Be able to connect the device to a home Wi-Fi network or other network as required by the Program.

PROGRAM PROVISIONS
The Company will hire a Program Administrator to implement this Program. The Program Administrator will provide the necessary services to effectively implement the Program and strive to attain the energy and demand savings targets. The Company and the Program Administrator will follow a multi-faceted approach to marketing the Program.

The Program Administrator will communicate with participants before a Demand Response Event. The Program Administrator will use Program-approved technologies to control the participant's device before and during an Event to maximize the demand savings during the Event while minimizing impact to customer comfort. The Program Administrator will also reduce energy usage by utilizing a continuous load shaping strategy during non-peak periods. Energy management activities undertaken through this Program will occur within customer-selected home temperature threshold set points to minimize customer comfort impact.

Participants will receive Incentives for participating in the Program, which may include upfront enrollment Incentives, an annual Incentive, and an installation Incentive.

Initially, the Program will provide an approved list of eligible WiFi enabled smart thermostats, but as technology, device capability, and the Program evolve, the Program may also obtain energy and demand savings from residences through other connected assets, such as hot water heaters, HVAC switches, residential energy storage, etc.
DEMAND RESPONSE MEEIA 2019-21 (Cont'd.)

Residential Demand Response Program (Cont'd.)

PROGRAM PROVISIONS (Cont'd.)

The Company will restrict the length of Demand Response Events to a total duration of no more than 4 hours during any 24-hour period and to a maximum of 10 Events per Program Season. A minimum of three (3) Events per Program Season will be dispatched with at least one (1) Event per Program Season dispatching all Participants.

ELIGIBLE MEASURES AND INCENTIVES

Eligible Demand Response Measures and Incentives paid to customers may be found at AmerenMissouri.com/rewards.