

Longmont

Power & Communications

Rates and Regulations Governing Electric Service

*Ordinance: 0-2010-47
Section 14.32
Effective: January 1, 2011*



Connecting our Community

Longmont Power & Communications
Rates and Regulations
Ordinance No. O-2010-47

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Section 14.32.010 Definitions

Whenever the following terms or words are used in this Chapter, they shall have the following meanings ascribed to them:

“ANSI” means American National Standards Institute.

“Cost of Service” means all of the costs of operations and maintenance of LPC’s electric facilities (the “electric facilities”), including but not limited to those costs sufficient to keep the electric facilities in good repair and working order, to pay for the extension, improvement, enlargement and betterment of the electric facilities, to provide and maintain an adequate fund for replacement of depreciated or obsolescent property, to pay the principal and interest on all bonds of the City payable from LPC’s revenues, to pay the principal and interest of any general obligation bonds issued by the City to extend or improve the electric facilities, and administrative transfer fee. These costs shall also include, but are not limited to: the costs related to production (based on actual kWh use and coincident with Platte River Power Authority kW use); distribution (based on system operating, engineering and administrative costs); metering (based on time and expenses to read the meter); billing (based on time and expenses to bill); franchise fee (based on customer revenue); and Art in Public Places fee (based on capital project expenditures).

“Distributed Generation System” or “DGS” means the self contained generation equipment owned by an Interconnection Customer and connected in parallel to the LPC distribution system.

“Director” means the Director of LPC.

"Fee payer" means a person receiving a City or County building permit for a land development activity, or submitting to LPC an application for service or for a service change in rate class, voltage, phase, or panel amps.

“Governing agency” means that governmental agency, including the City of Longmont or Counties of Boulder or Weld, with authority to inspect and approve an electrical installation.

“IEEE” means Institute of Electrical and Electronics Engineers.

“Interconnection Customer” means a customer who owns, maintains and operates self-contained generation equipment, including but not limited to photovoltaics, fuel cells and micro-turbines, in parallel with the city’s electric system.

“Interconnection Customer’s System” means the self-contained generation equipment owned by an Interconnection Customer.

“IEC” means International Electrotechnical Commission.

“kW” means kilowatt.

“kWh” means kilowatt hour.

“LPC” means Longmont Power & Communications.

“NEMA” means National Electrical Manufacturers Association.

“NEC” means National Electrical Code.

“NEC” means National Electrical Safety code.

“Net metering” means the net consumption as measured at the service meter on an annual basis for billing purposes.

“Parallel” means capable of being electrically connected to the utility distribution system while, at the same time, generating electricity.

“Point of Common Coupling” or “PCC” means an Interconnection Customer’s main point of service from LPC’s electric system.

“UL” means Underwriters Laboratory.

Section 14.32.020 Residential Energy Rate (RE)

A. Applicability

1. The Residential Energy Rate (RE) shall be applicable to all residential meters for all domestic use in single-family dwellings and individually metered multi-family dwellings.
2. If annual energy usage exceeds 15,000 kWh, the customer may elect to be served under the Residential Demand (RD) rate schedule.

B. Monthly Rate

	2011	2012	2013
1. Customer Charge	\$ 7.20	\$ 8.65	\$10.40
2. Energy Charge			
0-750 kWh consumed, per kWh	\$0.0635	\$0.0673	\$0.0713
751-1500 kWh consumed, per kWh	\$0.0696	\$0.0742	\$0.0781
1501 and above kWh consumed, per kWh	\$0.0777	\$0.0830	\$0.0878

C. Life Support Discount

1. The Residential Life Support Discount shall be available to any residential customer who has completed an application provided by the City and is qualified.
2. The residential customer must complete a Life Support Discount application including a signature by a licensed physician. To qualify, a residential customer must certify that a full time resident in the home is dependent on medical equipment used in the home. Applications must be updated annually.
3. The customer will receive a 20% discount on the energy charge for the first 750 kWh consumed per billing period.

D. Low Income Senior and Disabled Discount

1. The Low Income Senior and Disabled Discount shall be available to any residential customer qualifying for tax or rental relief under provisions set forth in the Colorado Department of Revenue Form 104-PTC. Applications for the discount shall be made annually on forms provided by the city and shall include a copy of Form 104-PTC, as filed with the Colorado Department of Revenue.
2. Customers who qualify for the discount will receive a monthly \$4.00 discount toward their electric charge on each subsequent utility bill after the application is complete and has been processed and approved by the city.

Section 14.32.030 Residential Demand Rate (RD)

A. Applicability

1. The Residential Demand Rate (RD) shall be available to all residential meters for all domestic use in single-family dwellings and individually metered multi-family dwelling units using electricity as either the primary or secondary source of space heating.
2. This rate is also available as an option to customers served on the (RE) rate schedule whose annual energy usage exceeds 15,000 kWh. Such option shall be exercised in writing to LPC advising of the customer's intent to take advantage of this rate. This election shall be effective for a minimum of twelve (12) consecutive months.

B. Monthly Rate

	2011	2012	2013
1. Customer Charge	\$10.75	\$13.00	\$15.40
2. Energy Charge: All kWh consumed, per kWh	\$0.0300	\$0.0315	\$0.0325
3. Demand Charge: Maximum kW, per kW	\$7.05	\$7.60	\$8.35

C. Determination of Billing Demand

The billing demand, determined by meter measurement, will be the highest fifteen (15) minute integrated demand occurring during the billing period.

D. Life Support Discount

1. The Residential Life Support Discount shall be available to any residential customer who has completed an application provided by the City and is qualified.
2. The residential customer must complete a Life Support Discount application including a signature by a licensed physician. To qualify, a residential customer must certify that a full time resident in the home is dependent on medical equipment used in the home. Applications must be updated annually.
3. The customer will receive a 20% discount on the energy charge for the first 750 kWh consumed per billing period.

E. Low Income Senior and Disabled Discount

1. The Low Income Senior and Disabled Discount shall be available to any residential customer qualifying for tax or rental relief under provisions set forth in the Colorado Department of Revenue Form 104-PTC. Applications for the discount shall be made annually on forms provided by the city and shall include a copy of Form 104-PTC, as filed with the Colorado Department of Revenue.
2. Customers who qualify for the discount will receive a monthly \$4.00 discount toward their electric charge on each subsequent utility bill after the application is complete and has been processed and approved by the city.

Section 14.32.040 Residential Self Generation Rate (RGEN)

A. Applicability

1. The Residential Self Generation Rate (RGEN) shall be applicable to all qualified residential service customers who own, operate, and maintain their own eligible renewable energy generation equipment as defined by C.R. S. 40-2-124 including, but not limited to, photovoltaics, fuel cells, and micro-turbines in parallel with the City’s electric system in accordance with Section 14.32.220K and 14.32.225. To qualify for the RGEN rate the customer-owned generation system shall be limited to a maximum capacity of fifty (50) kilowatts. Systems over fifty (50) kilowatts are subject to additional requirements and are reviewed on a case-by-case basis per Section 14.32.220 and 14.32.225.
2. The RGEN customer must make a written request to the Director, advising of the intent to own, operate, and maintain their own eligible renewable energy generation equipment. Requirements must be satisfied through the City’s Agreement of Interconnection in accordance with Section 14.32.225. Customer will then remain on RGEN service until customer requests a change by notifying LPC in writing.

B. Monthly Rate

	2011	2012	2013
1. Customer/Distribution System Charge	\$15.20	\$18.20	\$21.50
2. Energy Charge			
a. All kWh consumed per kWh, below the average monthly kWh consumption in the previous calendar year for the customer’s standard rate class	\$0.0515	\$0.0535	\$0.0555
b. All kWh consumed, per kWh, above the average monthly kWh consumption in the previous calendar year for the customer’s standard rate class	\$0.0635	\$0.0673	\$0.0713

3. LPC will net meter all electric power and energy produced by the RGEN customer’s generation system. Net metering shall be, for billing purposes, the net consumption as measured at the service meter. Consumption will be measured monthly and in the event net metering is negative, such that the customer’s generation system production is greater than the customer’s consumption, the net negative consumption will be treated as a credit for future billing periods. All monthly credits shall be accumulated against all consumption during an annual time period. In the event that a negative balance remains at the end of a calendar year, LPC will pay the customer for such negative balance at the RGEN retail energy rate as set forth in Section 14.32.040 B2a.
4. The customer will be billed the applicable customer/distribution charge each month, including those months when negative or no net electric consumption by the customer occurs.

Section 14.32.040 Residential Self Generation Rate (RGEN) Continued

C. Life Support Discount

1. The Residential Life Support Discount shall be available to any residential customer who has completed an application provided by the City and is qualified.
2. The residential customer must complete a Life Support Discount application including a signature by a licensed physician. To qualify, a residential customer must certify that a full time resident in the home is dependent on medical equipment used in the home. Applications must be updated annually.
3. The customer will receive a 20% discount on the energy charge for the first 750 kWh consumed per billing period.

E. Low Income Senior and Disabled Discount

1. The Low Income Senior and Disabled Discount shall be available to any residential customer qualifying for tax or rental relief under provisions set forth in the Colorado Department of Revenue Form 104-PTC. Applications for the discount shall be made annually on forms provided by the city and shall include a copy of Form 104-PTC, as filed with the Colorado Department of Revenue.
2. Customers who qualify for the discount will receive a monthly \$4.00 discount toward their electric charge on each subsequent utility bill after the application is complete and has been processed and approved by the city.

Section 14.32.050 Renewable Energy Rate (R)

A. Applicability

1. The renewable energy rate (R) shall be applicable to all residential and non-residential service customers who select electricity generated by renewable energy resources in lieu of electricity provided by the city from traditional generation sources and administered through other tariffs. Renewable energy resources include solar, wind, geothermal, biomass, new hydroelectricity with a nameplate capacity rating of ten megawatts or less, hydroelectricity in existence on January 1, 2005 with a nameplate capacity rating of thirty megawatts or less, and renewable energy certificates (RECs) associated with electric generation from any of the above-listed renewable resources.
2. The renewable energy rate (R) must be used in conjunction with another rate.
3. The customer may elect to be served under the renewable energy rate (R) schedule for either a portion or all of the customer's monthly electricity usage. Such option shall be exercised in writing to LPC advising of the customer's intent to take advantage of such rate. This election, if taken, will be effective for a minimum of twelve consecutive months. Renewable energy is available to customers on a first-come, first-served basis subject to available supply.
4. Residential customers may select service under the renewable energy rate (R) in a minimum amount of one hundred kWh per month and increments thereof. Residential customers may also select renewable energy as the source for all kWh of electricity consumed each month.
5. Non-residential customers may select service under the renewable energy rate (R) in a minimum amount of five hundred kWh per month and increments thereof. Non-residential customers may also select renewable energy as the source for all kWh of electricity consumed each month.

B. Monthly Rate

1. All monthly customer charges, energy charges, demand charges and monthly minimums that apply under the customer's usual and customary electric serve rate continue to apply. The renewable energy rate (R) is a premium service rate for kWh of renewable energy purchased in addition to all normal and customary electric service rate charges.

	2011	2012	2013
2. Renewable Energy Charge: per kWh	\$0.0235	\$0.0238	\$0.0272

Section 14.32.060 Commercial Energy Rate (CE)

A. Applicability

1. The Commercial Energy Rate (CE) shall be applicable to all non-residential meters with less than fifty (50) kW demand per month.
2. If annual energy usage exceeds 15,000 kWh the customer may elect to be served under the Commercial Demand (CD) rate schedule.

B. Monthly Rate

	2011	2012	2013
1. Customer Charge	\$11.50	\$13.50	\$16.40
2. Energy Charge: All kWh consumed, per kWh	\$0.0686	\$0.0734	\$0.0780

C. Procedures

Whenever monthly use of energy is 12,000 kWh or more or whenever, in the City's judgment the demand will exceed 30 kW, a demand meter will be installed to determine the actual highest 15 minute integrated demand.

- D. Primary Metered Discount.** Where service is delivered and metered at available primary voltage and the customer owns and maintains all equipment on his load side of the metering point, the customer will receive a one and one-half % discount on his total electric demand and energy charge.

Section 14.32.065 Commercial Energy Self Generation Rate (CEGE)

A. Applicability

1. The Commercial Energy Self Generation Rate (CEGE) shall be applicable to all qualified non-residential service customers who own, operate, and maintain their own eligible renewable energy generation equipment as defined by C.R.S. 40-2-124 including, but not limited to, photovoltaics, fuel cells, and micro-turbines in parallel with the City’s electric system in accordance with Section 14.32.220.K. and 14.32.225. To qualify for the CEGE rate the customer-owned generation system shall be limited to a maximum capacity of fifty (50) kW. Systems over fifty (50) kW are subject to additional requirements and are reviewed on a case-by-case basis per Section 14.32.220.K. and 14.32.225.
2. The CEGE customer must make a written request to the Director advising of the customer’s intent to own, operate, and maintain their own eligible renewable energy generation equipment. Requirements must be satisfied through the City’s Agreement of Interconnection in accordance with Section 14.32.225. Customer will then remain on CEGE service until customer requests a change by notifying LPC in writing.

B. Monthly Rate

	2011	2012	2013
1. Customer Distribution System Charge	\$36.50	\$44.00	\$53.50
2. Energy Charge			
a. All kWh consumed per kWh, below the average monthly kWh consumption in the previous calendar year for the customer’s standard rate class	\$0.0510	\$0.0531	\$0.0550
b. All kWh consumed, per kWh, above the average monthly kWh consumption in the previous calendar year for the customer’s standard rate class	\$0.0686	\$0.0734	\$0.0780

3. LPC will net meter all electric power and energy produced by the CEGE customer’s generation system. Net metering shall be, for billing purposes, the net consumption as measured at the service meter. Consumption will be measured monthly and in the event net metering is negative, such that the customer’s generation system production is greater than the customer’s consumption, there the net negative consumption will be treated as a credit for future billing periods. All monthly credits shall be accumulated against all consumption during the annual time period. In the event that a negative balance remains at the end of a calendar year, LPC will pay the customer for such negative balance at the CEGE retail energy rate as set forth in Section 14.32.065.B.2.a.
4. The customer will be billed the applicable customer/distribution charge each month, including those months when negative or no net electric consumption by the customer occurs.

Section 14.32.070 Commercial Demand Rate (CD)

A. Applicability

1. The Commercial Demand Rate (CD) shall be applicable to all non-residential meters whose demand equals or exceeds fifty (50) kW demand in any two (2) consecutive billing periods. When qualified, a meter shall remain on the CD rate for a minimum of twelve (12) consecutive months.
2. After a meter has been on the CD rate for twelve (12) months, if the meter’s demand does not equal or exceed fifty (50) kW during any given month, the customer may elect to be served on the CE rate. Such option shall be exercised in writing to LPC, advising of the customer’s intent to take advantage of the CE rate. This election, if taken, will be effective until customer’s demand equals or exceeds fifty (50) kW during any two (2) consecutive billing periods, at which time the rate will automatically revert to the CD rate.
3. This rate is also available as an option to meters served on the CE rate schedule whose annual energy usage exceeds 15,000 kWh.

B. Monthly Rate

	2011	2012	2013
1. Customer Charge	\$29.00	\$34.00	\$39.00
2. Energy Charge: All kWh consumed, per kWh	\$0.0280	\$0.0300	\$0.0327
3. Demand Charge: Maximum kW, per kW	\$12.95	\$13.80	\$14.53

C. Determination of Billing Demand

The billing demand, determined by meter measurement, will be the highest 15 minute integrated demand occurring during the billing period.

D. Primary Metered Discount

Where service is delivered and metered at available primary voltage and the customer owns and maintains all equipment on their load side of the metering point, the customer will receive a one and one-half % discount on their total electric demand and energy charge.

Section_14.32.075 Commercial Demand Self Generation rate (CDGE)

A. Applicability.

1. The commercial demand self generation rate (CDGE) shall be applicable to all non-residential meters whose monthly demand equals or exceeds fifty (50) kW demand. When qualified, a meter shall remain on the CDGE rate for a minimum of twelve (12) consecutive months.
2. After a meter has been on the CDGE rate for twelve (12) months, if the meter’s demand does not equal or exceed fifty (50) kW during any given month, the customer may elect to be served on the CEGE rate.
3. The CDGE rate shall be applicable to all qualified non-residential service customers who own, operate, and maintain their own eligible renewable energy generation equipment as defined by C.R.S. 40-2-124 including, but not limited to, photovoltaics, fuel cells, and micro-turbines in parallel with the city's electric system in accordance with Sections 14.32.220.K. and 14.32.225. To qualify for the CDGE rate, the customer-owned generation system shall be limited to a maximum capacity of fifty (50) kW. Systems over fifty (50) kW are subject to additional requirements and are reviewed on a case-by-case basis per Sections 14.32.220.K and 14.32.225.
4. The CDGE customer must make a written request to the Director advising of the customer's intent to own, operate, and maintain his own eligible renewable energy generation equipment. Requirements must be satisfied through the City’s Agreement of Interconnection in accordance with Section 14.32.225. Customer will then remain on CDGE service until customer requests a change by notifying LPC in writing.

B. Monthly Rate

	2011	2012	2013
1. Customer Distribution System Charge	\$29.00	\$34.00	\$39.00
2. Energy Charge: All kWh consumed, per kWh	\$0.0280	\$0.0300	\$0.0327
3. Demand Charge: Maximum kW, per kW	\$12.95	\$13.80	\$14.53

4. LPC will net meter all electric power and energy produced by the CDGE customer's generation system. Net metering shall be, for billing purposes, the net consumption as measured at the service meter. Consumption will be measured monthly and in the event net metering is negative, such that the customer's generation system production is greater than the customer's consumption, the net negative consumption will be treated as a credit for future billing periods. All monthly credits shall be accumulated against all consumption during an annual time period. In the event that a negative balance remains at the end of a calendar year, LPC will pay the customer for such negative balance at the CDGE retail energy rate as set forth in Section 14.32.075.B.2.

Section_14.32.075 Commercial Demand Self Generation rate (CDGE) Continued

5. The customer will be billed the applicable customer/distribution charge each month, including those months when negative or no net electric consumption by the customer occurs.

Section 14.32.080 Commercial Coincident Demand Rate (CCD)

A. Applicability

1. The Commercial Coincident Demand Rate (CCD) shall be applicable to non-residential meters that exceed 800 kW demand in any two (2) consecutive billing periods. Once qualified, each such customer shall remain on the CCD rate for a minimum of twelve consecutive months. After twelve months, the city will use the twelve-month running average of maximum kW to determine applicability of the CCD rate. The customer may elect the (CC) rate in lieu of the CCD rate at any time.
2. The CCD rate classification will be applicable to all new customers without an annual billing history based on the following:
 - a. The new customer must present sufficient information to the City indicating that his operating schedule and electrical equipment are such that his monthly maximum demand would qualify it for the rate.
 - b. The City reserves the right to analyze and verify all information provided. If the City is satisfied that the monthly maximum demand of the new customer will exceed eight hundred kW, such meter will be placed on the CCD rate.
 - c. If the monthly maximum demand during the first two months indicate that the customer does not qualify for the CCD rate, the City will immediately transfer such new customer to the appropriate rate classification.

B. Monthly Rate

Rates shall be developed for each individual customer subject to the CCD rate classification based on the rate structure listed below. The rates shall be based on the Cost of Service to each individual customer and will apply only to such customer. Rates may be updated as needed to reflect the Cost of Service to the individual customer. Rates shall be based on generally accepted cost of service principles as developed by LPC.

1. Customer Charge: Based on customer cost of service
2. Energy Charge: All kWh consumed, per kWh based on customer cost of service
3. Demand Charge: All coincident kW of demand, per kW based on customer cost of service

C. Determination of Billing Demand

Coincident kW of demand, determined by meter measurement, will be the 60 minute integrated demand recorded during the Platte River Power Authority's system peak hour and day in the billing period.

Section 14.32.080 Commercial Coincident Demand Rate CCD Continued

D. Communications Link

Customers served under the CCD rate shall provide a communications link to each electric meter and grant permission to LPC to use the communications link to retrieve data from the meter(s).

Section 14.32.090 Commercial Contract Rate (CC)

A. Applicability

The Commercial Contract Rate (CC) shall be available to all non-residential meters whose aggregated demand exceeds eight hundred kW. The aggregated billing demand is defined as the highest sixty (60) minute integrated demand of all eligible meters for customer facilities occurring during the billing period. Meters are eligible to be aggregated if that meter exceeds fifty (50) kW, or the energy exceeds 15,000 kWh/year.

B. Monthly Rates and Services

1. At the Director's option, the City may enter into individual, written agreements with qualifying customers, which agreements shall establish the services to be provided, the amount to be charged for such services, and the terms and conditions under which such services will be provided. The rate established by the agreement shall be adequate to cover the City's costs of service to such customer.
2. Special services: LPC is authorized to provide special services and capabilities which are beyond those required for basic electric service, provided that such special services and capabilities are described in a written agreement between the City and the customer, which agreement shall also set forth the utility charges associated with the provision of such special services and capabilities. The Director shall establish the charges and payment terms for the provision of such special services and capabilities. The charges and payment terms will be adequate to cover City Costs of Service, including but not limited to costs related to time, materials, equipment, overhead and expected future costs to the City to provide such service.

Section 14.32.110 Unmetered Energy Rate (UE)

A. Applicability

1. The Unmetered Energy Rate (UE) shall be applicable to all residential and commercial service customers for unmetered electric facilities. Two categories of general facility types are identified with defined rates as provided for in this schedule.
2. All new requests for service shall be metered unless otherwise approved by LPC.

B. Service Standards and Monthly Rate

The monthly charge and standards for an unmetered electric facility shall be determined as follows:

1. Unmetered Electric Installations

- a. Upon customer request and City review and approval, the City will provide, install, own, and maintain small amperage items such as, but not limited to, security lighting at the customer’s private property and/or adjacent alleyways. Any installation will be in addition to the monthly charge and will be at the customer’s expense. Upon customer request, other small fixtures such as antennas will be reviewed by LPC and a determination will be made regarding appropriate installation, ownership and maintenance requirements.
- b. Monthly energy and maintenance charge per installation is:

	2011	2012	2013
1. Energy Charge: Monthly energy and maintenance charge per installation			
1 – 49 watt	\$5.85	\$ 6.10	\$ 6.45
50 – 149 watt	\$6.95	\$ 7.30	\$ 7.65
150 – 249 watt	\$9.20	\$ 9.65	\$10.00
250 watt and greater	\$10.70	\$11.20	\$11.80
Power Supply	\$34.75	\$38.00	\$41.00

C. Procedures

1. The customer must contact LPC to initiate a work order.
2. If the request meets the criteria outlined in the Applicability section, LPC will prepare an agreement defining the terms, the monthly energy billing rate and installation cost for the facilities necessary to supply power to the customers. This agreement must be signed and returned by the customer with full payment prior to installation.

Section 14.32.110 Unmetered Energy Rate (UE) Continued

D. Fees

1. The cost of any such unmetered electric installations will be the total labor, material, equipment and engineering/administration charges as determined by established estimating procedures of LPC, including the extension or installation of secondary voltage circuits and protection if required. These costs are in addition to the monthly energy and maintenance charge.
2. The charge for installations and associated Electric Community Investment Fee will be collected prior to initiation of the installation work.

Section 14.32.120 Municipal General Fund Energy Rate (GFE)

A. Applicability

1. The Municipal General Fund Energy Rate (GFE) shall be applicable to all municipal general fund meters with less than fifty (50) kW per month. If annual energy usage exceeds 15,000 kWh, the customer may elect to be served under the GFD rate.
2. Municipal general fund customers are defined as those customers normally budgeted from the General Fund of the City of Longmont. This rate is designed to recover wholesale power costs only.

B. Monthly Rate

	2011	2012	2013
1. Energy Charge: All kWh consumed, per kWh	\$0.0467	\$0.0508	\$0.0537

Section 14.32.130 Municipal General Fund Demand Rate (GFD)

A. Applicability

1. The Municipal General Fund Demand Rate (GFD) shall apply to all municipal general fund meters exceeding fifty (50) kW in any two consecutive months. When qualified, a meter shall remain on the GFD rate for a minimum of twelve (12) consecutive months. After a meter has been on the GFD rate for twelve (12) months, if the meter's demand does not equal or exceed fifty (50) kW during any given month, the customer may elect to be served on the GFE rate.
2. Municipal general fund customers are defined as those customers normally budgeted from the General Fund of the City of Longmont. This rate is designed to recover wholesale power costs only.
3. This rate is also available as an option for meters served on the GFE rate schedule whose annual energy usage exceeds 15,000 kWh.

B. Monthly Rate

	2011	2012	2013
1. Energy Charge: All kWh consumed, per kWh	\$0.0231	\$0.0259	\$0.0288
2. Demand Charge: Maximum kW, per kW	\$10.08	\$10.08	\$10.08

Section 14.32.140 Surcharges, Service Rights, Annexation Fee

A. Applicability

1. A surcharge shall be imposed on charges for electric power service to areas annexed to the City which were formerly a part of an exclusive service territory granted to a neighboring electric utility by the Colorado Public Utilities Commission.
2. All surcharges are based upon individual agreements and/or applicable statutes between the City and neighboring utilities or municipalities.

Section 14.32.150 Electric Community Investment Fees

A. Findings: The City Council of Longmont finds:

1. That the City must expand the system facilities of LPC if it is to accommodate new development without decreasing current standards;
2. That LPC distributes electricity to the customers in its service area by means of an integrated and interdependent system-wide network of electric facilities;
3. That electric community investment fees on new development within the service area will provide capital for the electric utility to meet the demand new development creates for electric facilities;
4. That the imposition of electric community investment fees (CIF) is the preferable method of ensuring new development bears a proportionate share of the cost of capital improvements necessary to accommodate new development within the service area;
5. That each of the types of development described in Section 14.32.150.C and Table One will necessitate use of LPC facilities;
6. That the fees established by Section 14.32.150.C fairly apportion and do not exceed the costs of providing necessary LPC improvements for new development within the service area;
7. That the municipal charter grants the City the power of local self-government and home rule, and it is a reasonable exercise of this power to impose electric community investment fees as a method of ensuring new development bears a proportionate share of the cost of capital improvements necessary to accommodate new development; and
8. That the electric community investment fees are reasonably necessary to protect, enhance, and preserve the public health, safety, and welfare of the citizens of the City, and the customers of LPC's service area.

B. Imposition of Electric Community Investment Fees

1. Every fee payer shall pay an electric community investment fee in the manner and amount set forth in Sections 14.32.150.C and D, except as provided in Section 14.32.150.B.2.
2. The following shall be exempt from payment of the electric community investment fee:
 - a. An alteration or expansion of an existing building or structure that does not require an increase in rate class, voltage, phase, or panel amps;
 - b. Replacement of an existing building or structure with a new building or structure that does not require an increase in rate class, voltage, phase, or panel amps; and

Section 14.32.150 Electric Community Investment Fees Continued

- c. In the case where an emergency fire pump system is designed to operate only during a fire (or under test), the City will not charge ECIF for the associated panel capacity. All other on-site distribution costs for the service will continue to be charged. If the fire panel is in any way shared with a routine service, the ECIF will be charged.
3. Any claim of exception under Section 14.32.150.B.2 must be made no later than the time of application for a city or county building permit.
4. The electric community investment fee is in addition to the fee payer's responsibility to pay any other fee, charge, or tariff in the regulations governing electric service and construction.

C. Computation of the Amount of the Electric Community Investment Fees

1. Computation of the amount of the electric community investment fee shall be in accordance with the attached Table One, except as set forth in this section. For large services or campus developments where the single panel or grouping of panels exceeds 4,000 kVA at full load, or when the customer requests a specific capacity reservation in kilowatts, the fee will be based upon the specific requirements for substation and feeder capacity as determined by the LPC Engineering Division. In such event a written agreement between the customer and the City will outline the service conditions and costs.
2. The calculation of panel capacity and associated fee from Table One shall be as set forth in this section.
 - a. LPC shall use ampacity rating of the bus bars in the fee payer's main electric panel to determine the panel amperage. Where no main panel exists on the source side of multiple subpanels, LPC shall use the ampacity rating of the service conductors to determine panel amperage. Conductor ampacity ratings shall be determined by Article 310-16 of the NEC, as amended and adopted from time to time. The following exception applies:
 - i. Where service is supplied to multiple residential units at a common site, and where each unit service (including the "house panel") incorporates an individual meter and service panel, the ECIF shall be computed at the appropriate residential rate class based upon the sum of the individual panel ratings.
 - b. If a fee payer has a rate class, voltage, phase, or panel amps not specified in Table One, the Director, or designee, shall compute an appropriate fee in accordance with the formula used in establishing the fees in Table One.

Section 14.32.150 Electric Community Investment Fees Continued

- i. The fee for small, single phase, non-typical services, rated less than 100 amps including power supplies, irrigation timers, etc. shall be a flat fee of \$25.00.
- c. If a fee payer requests an increase in rate class, voltage, phase, or panel amps, the electric community investment fee shall be the difference between the electric community investment fee amount associated with the existing panel and the electric community investment fee for the new panel size. LPC shall not grant a credit or refund for a later request of decrease in rate class, voltage, phase, or panel amps.

D. Payment of Fees

1. There is hereby established an electric community investment fees fund. This fund shall be an interest bearing account which clearly identifies the aggregate funds the City collects as electric community investment fees. Any interest income earned on the fees shall be credited to the fund. Funds withdrawn from the electric community investment fees fund shall be used only for the purposes set forth in Section 14.32.150.E.
2. A fee payer for residential or non-residential development within the municipal boundaries must pay the electric community investment fee to the City with the fee payer's building permit.
3. A fee payer for residential or non-residential development outside the municipal boundaries must pay the electric community investment fee to the City with the Payment Request for the project before LPC will issue a work order release for the fee payer's development.

E. Use of Funds

1. The City shall use the electric community investment fees fund only for growth related electric utility capital improvement projects, including, but not limited to:
 - a. Electric main feeder system improvements;
 - b. Electric substations;
 - c. Engineering, design, and permitting for electric utility system improvements; and
 - d. Construction of all necessary features of an LPC distribution system.
2. The City shall not use electric community investment fees for periodic or routine maintenance.

Section 14.32.150 Electric Community Investment Fees Continued

F. Refund of Fees Paid

The City shall expend or appropriate each electric community investment fee it collects, with accrued interest, no later than the end of the calendar quarter immediately following nine years from the date of payment or it shall return the fee, with accrued interest, to the fee payer, provided the fee payer submits a written request for a refund to the Director within 180 days of the expiration of the nine-year period.

G. Review

The City Council shall review the amount of the electric community investment fees in section IV, at least every three years.

Section 14.32.150 Electric Community Investment Fees Continued

Table One: Community Investment Fee

<u>Rate Class</u>	<u>Voltage</u>	<u>Phase</u>	<u>Panel Amps</u>	<u>CIF Charge</u>
Miscellaneous Services	120/240	1	Less than 100	\$25
Residential	120/240 or 120/208	1	100-125	\$310
			150, 200, 225	\$619
			300, 400	\$1,238
			500, 600	\$1,858
Commercial	120/240 or 120/208	1	100	\$619
			200	\$1,238
			400	\$2,477
Commercial	120/208 or 120/240	3	100	\$1,393
			200	\$2,785
			400	\$5,570
			600	\$8,355
			800	\$11,141
			1000	\$13,926
			1200	\$16,711
			1600	\$22,281
			2000	\$27,852
			2500	\$34,815
			3000	\$41,777
Commercial	277/480 or 204/480	3	200	\$6,427
			400	\$12,855
			600	\$19,282
			800	\$25,709
			1000	\$32,136
			1200	\$38,564
			1600	\$51,418
			2000	\$64,273
			2500	\$80,341
			3000	\$96,409
			3500	\$112,478
4000	\$128,546			

Section 14.32.180 Miscellaneous Services

Introduction

A. Applicability

The Director is authorized to enter into contracts to provide other services, including but not limited to: wheeling agreements; maintenance and repair agreements; agreements for the provision of back up electric services, including but not limited to back up lines, transformers and circuit breakers; agreements with other utilities to use the City's electric system delivery points; the installation of residential and commercial electric services, including but not limited to conduit, poles, wire, transformers and meters; pole attachment agreements; key meter program agreements; interconnection agreements; banner hanging agreements; agreements for use of the City's telecommunications system; and collocation agreements.

B. Fees

The fees shall be based upon the City's Cost of Service to provide such services, including but not limited to time, materials, equipment and overhead, and may include expected future costs to the City to provide such service.

Section 14.32.190 Introduction

A. General Statement

These provisions are issued pursuant to the authority conferred upon the Longmont City Council pursuant to Article XI of the Charter of the City of Longmont and the appropriate statutory and constitutional provisions of the State of Colorado. The following provisions set forth the terms and conditions under which electric service is supplied and govern all classes of service and all territory served by LPC. It is the intent and purpose of this Chapter to insure that all customers of the City receive uniform and equitable consideration.

B. Waiver

Failure of the City to enforce or insist upon strict compliance with any of the provisions of this Chapter herein shall not constitute a general waiver or relinquishment of any provisions of this Chapter stated, but the same shall be and remain at all times in full force and effect.

C. Choice of Rates

Rate schedules for the City are on file in the office of the City Clerk and are available for review by an applicant for service. Service will be supplied under the rate schedule(s) selected by Applicant subject to the applicability requirements and the terms and conditions of the individual rate schedule. When there are two or more rate schedules applicable to the service requested, the City will, upon request of applicant, explain the conditions, character of installation or use of service governing the several rate schedules and assist in the selection of the rate schedule most suitable for the applicant's requirements. Applicant, however, shall be responsible for the final selection of the rate schedule, and the City assumes no liability for the results of the selection made by Applicant.

D. Conflict

In the case of conflict between any provisions of a particular rate schedule and this Part III, the provisions of the particular rate schedule shall govern.

E. Liability

1. All lines, wires, apparatus, instruments, meters, transformers, poles, telecommunication equipment, and material supplied by the City at its expense or under its standard policies will be and remain the property of the City. The City's property shall not be worked upon or interfered with by any customer or other unauthorized person(s). The customer shall be responsible for any damage to or loss of the City's property located on the customer's premises, caused by or arising out of the acts, omissions or negligence of the customer or others, or the misuse or unauthorized use of the City's property by the customer or others. The cost of making good such loss and/or repairing such damage shall be paid by the customer. This provision also applies to damages to City facilities during the course of construction activities at a development site.

Section 14.32.190 Introduction Continued

2. The customer shall also be held responsible for and indemnify the City for injury to the City's employees if caused by the customer's acts, omissions or negligence.
3. The customer shall also be responsible and will indemnify and hold the City harmless for any injury to persons or damage to property occasioned or caused by the acts, omissions or negligence of the customer or any of the customer's agents, employees, or licensees, in installing, maintaining, operating, or using any of the customer's lines, wires, equipment, machinery, or apparatus, and for injury and damage caused by defects in the same.
4. Customer shall also hold the City harmless and indemnify it against all claims and liability for injury to persons or damage to property when such damage or injury results from or is occasioned by the facilities located on the customer's side of the point of delivery unless caused by the negligence or wrongful acts of the City's agents or employees.
5. The City shall not be held liable for injury to persons or damage to property caused by its lines or equipment when contacted or interfered with through digging or the installation of objects in the ground or by ladders, pipes, guy wires, ropes, aerial wires, attachments, trees, structures, airplanes or other objects not the property of the City, which cross over, through, or in close proximity to the City's lines and equipment. The City shall be given adequate notice before any digging takes place near the City's lines or equipment, before trees overhanging or in close proximity to the City's lines or equipment are trimmed or removed or when stacks, guys, radio or television aerials, wires, ropes, drain pipes, structures, or other objects are installed or removed near the City's lines or equipment, but the City assumes no liability whatsoever because of such notice. LPC may, in its discretion, have an obstruction removed at the customer's expense.
6. The City shall not be liable for injury of persons, damage to property, monetary loss, or loss of business caused by accidents, acts of God, fires, floods, strikes, wars, authority or orders of government, interruption of its power supply, or any other causes and contingencies beyond its control.
7. The City shall not be liable for complete or partial failure or interruptions of service or fluctuations in voltage, resulting from any cause whatsoever.
8. The Developer of a subdivision, or builder where appropriate, will be deemed to be the "customer" for the purpose of this section until all normal construction responsibilities in the development and on the site are complete.

Section 14.32.195 Establishment of Service

Except as this chapter may otherwise provide, no person other than the City shall furnish electric utility service with the City. Nothing herein is intended to prevent a customer from generating electricity for use by that customer on the customer's premises, provided such self-generation is otherwise in accordance with the provisions of this Code.

Section 14.32.200 Service Conditions

A. Interference with Quality of Service

1. If, in the City's opinion, service to a customer creates interference with the quality of service supplied to neighboring customers, including those situations where the customer fails to comply with this Chapter, the City may require the customer to provide at the customer's own expense such special or additional equipment as is required, or the City may provide such equipment if customer pays the net estimated installed cost of such equipment. If the customer refuses to provide its own corrective equipment, or to reimburse the City for the cost of such additional or special equipment as is required to eliminate interference with the quality of service to neighboring customers resulting from their operations, the City may refuse or discontinue the customer's service.

B. Phase Balancing

1. Where three-wire single-phase, or three-wire three-phase, or four-wire combination single-phase and three-phase service is supplied, the load must be balanced as nearly as practicable between the two sides or several phases, respectively. In no case is the load on one side of a three-wire single-phase service to be greater than twice that on the other, nor the load on any one phase of a three-phase wye-connected service greater than twice that on any other phase.
2. In the event that the customer does not comply within 30 days with a request by the City to balance the service, the City will upgrade the facilities at the customer's expense to accommodate the imbalance. The repair of any damage to the City facilities caused by the imbalance will be at customer expense.

C. Customer's Wiring and Equipment

1. It shall be the customer's responsibility to provide suitable protective equipment such as fuses, circuit breakers and relays to adequately protect their equipment. If three-phase equipment is used, it shall be the customer's responsibility to protect it against phase failure, phase reversal, and under and over voltage. More specific requirements governing conditions of service are also contained in other regulations herein.
2. The customer's wiring shall be in accordance with applicable wiring codes. The City reserves the right to refuse or discontinue service to customer where customer's equipment or wiring is in hazardous conditions, or not in conformity with lawful codes and local regulations. All customers shall be solely responsible for the maintenance and safety of their wiring and equipment and the City shall not in any way be liable for accident or damages occurring to the customers or to third parties because of contact with or failure of any portion of the customer's installation.

Section 14.32.200 Service Conditions Continued

D. Welders

1. The City will serve, at the applicable rate and without additional compensation, welding equipment of the limited input type which conforms to the standards of NEMA, and which has a maximum input (primary) current rating not exceeding 12 amperes at 120 volts or 50 amperes at 208 or 240 volts.
2. Welding equipment which does not meet the standards of NEMA, or which exceeds in input rating of 12 amperes at 120 volts or 50 amperes at 208 or 240 volts, will also be served at the applicable rate provided that service to such welders has no detrimental effect on service to neighboring customers.

E. Motor Protective Devices

It is the customer's responsibility to ensure that all motor installations shall have protective apparatus or construction within the motor to accomplish equivalent protection as follows:

1. Motors that cannot be safely subjected to full-rated voltage at starting shall be provided with a device to ensure that on failure of voltage, such motors will be disconnected from the line.
2. Suitable overload and over current running protection shall be provided for each motor so as to disconnect the motor from the line to protect it from damage caused by overheating.
3. Phase reversal and open-phase protection is recommended on all three-phase installations and is required for such installations involving elevators, hoists, and similar equipment to disconnect motors from the line in the event of phase reversal or opening of one phase.
4. In the event the above is not followed and damage to customer equipment occurs, the City will assume no responsibility.

F. Motor Starting Limitations

Motors started at rated voltage require inrush currents generally six (6) times greater than nominal, full-load currents. These high starting (locked rotor) currents create short duration voltage dips which can cause objectionable light flicker and operating problems with other equipment. The following motor starting limitations are established to maintain voltage levels within applicable industry standards. It is the customer's responsibility to comply with the following requirements.

Section 14.32.200 Service Conditions Continued

1. Voltage drop standard. Motor starting currents, associated circuit voltage drops, and frequency of motor starts will comply with IEEE Standard 1250-1995. Voltage levels are to be calculated for the common connection point for the motor circuit with other devices, circuits, or services.
2. The customer should make certain that the customer's own electrical system is capable of handling the locked-rotor currents permitted without excessive voltage drop or other system effects.
3. Maximum permissible current values listed apply to an installation of a single motor.
4. Allowable locked rotor currents
 - a. Single-phase
 - i. Single-phase motorized equipment that is automatically controlled with frequent motor starts shall have locked-rotor currents not in excess of the following (the typical NEMA horse power rating is indicated for each current level):
 - (a). 50 amperes at 120 volts: 1 hp
 - (b). 80 amperes at 208 volts: 3 hp
 - (c). 100 amperes at 240 volts: 4 hp
 - ii. Single-phase motorized equipment that is manually controlled with infrequent motor starts, and air conditioners, shall have locked-rotor currents not in excess of the following:
 - (a). 100 amperes at 120 volts: 2 hp
 - (b). 160 amperes at 208 volts: 6 hp
 - (c). 200 amperes at 240 volts: 8 hp
 - iii. Motors having locked-rotor currents in excess of those allowed by paragraphs i. and ii. above may be permitted upon written approval of the City.
 - b. Three-phase
 - i. Three-phase motors that are automatically controlled with frequent starts shall have maximum locked-rotor current not in excess of the following:
 - (a). 780 amperes at 208 volts;
 - (b). 340 amperes at 480 volts.
 - (c). These values permit, in general, a 50 hp NEMA standard motor.
 - ii. Three-phase motors with manual control and infrequent starts shall have maximum locked-rotor currents not in excess of the following:
 - (a). 940 amperes at 208 volts; 60 hp (practical 208 V limit)
 - (b). 680 amperes at 480 volts; 100 hp

Section 14.32.200 Service Conditions Continued

- iii. Three-phase motors, to be used where large loads or special conditions exist, may, upon written approval of LPC, have locked-rotor currents in excess of those allowed by paragraphs a and b above.
5. Motors having maximum locked-rotor currents exceeding those stated in paragraphs 3 and 4 above may be operated if used in conjunction with devices designed to limit the starting currents to the above-specified maximum values.
6. Current-limiting devices may be omitted on the smaller motors of a group installation when their omission will not result in a starting current in excess of the allowable starting current of the largest motor of the group.

G. Harmonics

1. In the event that customer loads generate sufficient voltage and/or current harmonics to be detrimental to City equipment (such as transformers or meters) or to adversely affect other customer's loads, the customer will be required to take corrective action as determined by the City. Where the corrective action must be undertaken by the City, the customer will bear the expense of such corrective work.
2. In the event that the customer does not comply within 30 days after written notice from the City, the City may take corrective action at the customer's expense. The repair of any damage to City facilities will be at customer expense.

H. Power Factor

1. All customers shall maintain a 95 percent power factor as measured at the Platte River Power Authority system monthly peak hour and day in the billing period.
2. All five horsepower or larger motors shall be required to install capacitors connected to the motor starter to be energized when the motor is running.
3. In the event that the customer does not correct the power factor within 30 days after written notice from the City, the City may take corrective action at the customer's expense. The repair of any damage to City facilities will be at customer expense. Additionally, any power factor penalty imposed by Platte River Power Authority on the City due to the customer not complying with 14.32.200.H.1, may be passed on to the customer.

Section 14.32.200 Service Conditions Continued

I. Phase Converters

1. The City will serve, at the applicable rate, phase converting installations of the motor/generator type. These units generate balanced three-phase power from a single-phase input.
2. The single-phase motor unit is subject to all applicable sections of this Chapter.
3. Capacitive or static converters will not be served.

J. Compliance with Applicable Codes

1. All services, equipment, and installations must meet all applicable codes and standards, including but not limited to, the NEC , IEEE, ANSI, NEMA and NESC.

Section 14.32.210 Meters

A. Point of Delivery and Metering Equipment Requirements

1. The point of delivery is that point on the consumer's premises (or other agreed point) where the City terminates its electrical service conductors, and the customer's wires are connected to the City's conductors. All equipment on the load side of the point of delivery shall belong to, and be the responsibility of the customer, except meters and metering equipment and other equipment provided by the City, including instrument transformers. If an outage occurs due to failure of the housing components, the customer is responsible for repairs.
2. It shall be the responsibility of the customer, or the customer's electrical contractor, to obtain the City's most current standards and specifications, to advise the City of the customer's requirements in advance of installing the service entrance equipment, and to ascertain that the location is acceptable to the City.
3. The customer shall furnish and install a meter housing approved by the City of Longmont for the installation of the City's metering equipment. If, in the City's discretion, instrument transformers are required, an approved location and mounting bracket shall be provided for outdoor type instrument transformers, or if an outdoor installation is not desirable, the customer shall furnish and install an approved suitable metal enclosure for the installation of instrument transformers and the metering sockets for which the City will furnish and install the meters. In the case of meter clusters, the customer shall furnish and install metering equipment that has been approved by the LPC Engineering and Metering Divisions. LPC staff will inspect installations at the time of service connection. LPC staff shall not install the service meter until the customer installs a meter housing approved by LPC.
4. In multi-unit buildings each meter socket shall be plainly and permanently marked with an engraved brass badge to indicate which apartment or unit it supplies. The marking shall be the same as the mailing address for each apartment or unit. The owner or developer shall be responsible for all electricity delivered through unmarked, illegible or incorrectly labeled meter sockets. The City will bill all expenses incurred by the utility related to correcting improperly labeled meters to the developer or owner who shall pay such expenses within 30 days of receipt of said billing.

B. Meter Locations

1. Meter housings for all types of services shall be located on the outside of the building or structure and accessible to City metering staff. Meters shall not be fenced in. Access restrictions of any kind or sites that are deemed unsafe to enter will require the customer to pay a charge to have remote read capable equipment installed on the site. For specific meter requirements, reference the City of Longmont Design Standards and Construction Specifications.

Section 14.32.210 Meters Continued

2. Meters shall not be installed in places difficult to access, such as over open pits, moving machinery, hatchways, in the path of water from eaves or rain spouts, or subject to live steam or corrosive vapors. It shall be the responsibility of the customer to maintain a clear space of at least 36 inches in front of the meter. No hazardous plants, shrubs or other obstructions shall be placed within the 36-inch clearance area. Customers shall be given seven days to comply after written notice. After the expiration of the seven days, the City, in its discretion, may conform the meter access to this regulation at the owner's expense or discontinue service.
3. Where the meter is recessed in the wall of a building, a space of not less than twelve inches on each side of the center line of the meter base shall be provided to permit access for City test equipment or meter changes.
4. New service entrance locations shall be approved by LPC prior to installation.
5. Meters shall not be installed in padmounts.
6. Meters shall not be mounted on City facilities without prior approval by LPC.

C. Meter Reading

1. The City will attempt to read all meters on a monthly basis. Although the City will attempt, as nearly as possible, to read meters on the same cycle date, some variation may occur. It is the customer's responsibility to provide access to the City's metering equipment for the purpose of obtaining reads for monthly billing. Access restrictions of any kind or sites that are deemed unsafe to enter will require the customer to pay a charge to have remote read capable equipment installed on the site.
2. If for any reason a meter reading cannot be obtained for any particular period, the billing may be based on an estimated energy use and demand; it will be subject to later adjustment, if deemed necessary by the City.
3. The City will not be obligated to reset demand meters in the event of system disturbances, inoperable load controllers, or other reasons beyond the City's control.

D. Meter Tests

1. The City will, at its own expense, make tests and inspections, as required, on its meters to insure a high standard of accuracy. The City may, in its discretion, test a meter at any time. The City will, at its own expense, make one meter test per year upon customer's request. A meter may be considered accurate if it tests within two percent plus or minus. The City may adjust bills accordingly if a meter tests in excess of the two percent accuracy standard.

Section 14.32.210 Meters Continued

2. Additionally, more frequent tests may be made at the request of the customer. In the event the meter is found to register within two percent plus or minus, the customer will be required to pay a test fee to cover the cost of the tests. If the meter is found to exceed the two percent limit plus or minus, the bill may be adjusted accordingly for the preceding six month period or until the previous test, if tested less than six months before, and no charge will be made for the testing.

E. Separate Meter for Each Class of Service

When the customer receives service under more than one rate schedule, a separate meter must be installed for service under each rate schedule. The customer will be billed under each rate schedule based on the measurement registered by the applicable meter.

F. Additional Meters

Should the customer desire the installation of additional meters other than those necessary to measure adequately the service taken by the customer, such additional meters shall be provided, installed and maintained by the customer at the customer's sole cost and expense.

Section 14.32.220 Miscellaneous

A. Service Entrance Facilities and Additional Load

1. In the event a customer desires to substantially change the service entrance facilities and load, the customer shall adhere to all applicable LPC request for service and City permitting and inspection requirements and shall provide LPC all necessary information in sufficient time to comply with the line extension policies.
2. In the event that the customer fails to notify the City, or follow the provisions of the line extension policy, and as a result the City's equipment is damaged, the customer shall be liable for the cost of such damage. The City will not be responsible for providing adequate service in the event that it is not properly notified.

B. Attachments to Utility Property

1. No posters, banners, placards, radio or television aerials, or other objects will be attached to the poles or other utility property of the City. Any attachment to the City's poles or other utility property must have the express prior written authorization of the Director or the Director's designated representative.
2. Attachment to the pole by others under the 1996 Federal Telecommunications Act for providing services must be made pursuant to a pole attachment agreement provided by the City.

C. Curtailment

1. In the event that a serious power shortage should develop, and should it become mandatory that the City place into effect a curtailment program, the City, or Platte River Power Authority acting on behalf of the City, reserves the right to limit or interrupt the use of electrical energy during such hours as may become necessary.
2. In the case of emergency, the City shall have the right to grant a preference to the electric service, which, in the City's sole discretion, is most essential to the public health, safety and welfare.

D. Customer Power Outage

1. If a customer's service fails, the customer shall endeavor to determine if there are blown fuses, tripped breakers, or if there has been an equipment failure before calling the City.
2. If a service person is sent out at the customer's request and it is determined that the customer's equipment is at fault, a charge may be made for the call. The charge may include the actual cost of labor and transportation.

Section 14.32.220 Miscellaneous Continued

E. Easements

1. A contract for electric service, or receipt of service by the customer, will be construed as an agreement granting to the City an easement on the customer's property for electric lines, wires, conduits, and other equipment of the City necessary to render service to the customer.
2. If requested by the City, before service is connected, the customer will execute an easement on a form provided by the City, granting to the City, at no expense therefore, satisfactory easements for a suitable location of the City's wires, conduits, poles, transformers, metering equipment, telecommunication equipment, and other appurtenances on or across lands owned or controlled by customer, and will furnish space and shelter satisfactory to the City for all apparatus of the City located on the customer's premises.
3. In the event that customer shall divide its premises by sale in such manner that one part shall be isolated from the point where the City's electric or telecommunication lines are accessible, customer shall grant or reserve an easement for electric or telecommunication service over the part having access to electric or telecommunication lines for the benefit of the isolated part.

F. Diversion of Electric Energy

1. Definitions

- a. "By-passing" means the act of attaching, connecting, or in any manner affixing any wire, cord, socket, motor or other instrument, device or contrivance to the electric supply system or any part thereof in such a manner as to transmit, supply or use any electricity without passing through an authorized meter for measuring, registering or determining the amount of such electricity consumed.
- b. "Energy diversion" means by-passing, tampering or unauthorized metering.
- c. "Tampering" means the act of tampering, altering, adjusting or in any manner interfering with or obstructing the action or operation of any meter provided for measuring, registering or determining the amount of electricity passing through such meter.
- d. "Unauthorized metering" means the act of removing, moving, installing, connecting, reconnecting or disconnecting of any meter or metering device for electric service by a person other than an authorized employee of the City.

Section 14.32.220 Miscellaneous Continued

2. Prohibited Activity. Energy diversion is unlawful and prohibited, and is punishable in accordance with Chapter 1.12 of the Code. Energy diversion constitutes a safety hazard. Due to its hazardous nature, and in addition to all other remedies provided by law, discovery by the City that energy diversion has occurred shall be grounds for immediate disconnection of service without prior notice to the customer or user at such premises, and service shall not be reconnected until any and all deficiencies in wiring, connections, meters and/or electric facilities at the premises have been repaired, corrected or otherwise altered to conform with City requirements. In any case where energy diversion has occurred and immediate disconnection is effected, the City will give notice concurrent with the disconnection or as soon as practicable thereafter and provide an opportunity for hearing regarding possible resolution of the dispute.
3. Estimated Bill. In all cases where the City discovers that energy diversion has occurred, the City may bill the customer for estimated energy consumed but not properly registered.
4. Additional Charges. Where the City discovers that energy diversion has occurred, the City, in its discretion, may charge the customer or property owner for the costs of investigation, the costs resulting from the installation of protective devices by the City, and may take whatever other steps are reasonably necessary to protect the interests of the City including, but not limited to, billing the customer or property owner an estimated charge for energy lost.
5. Waiver. Payment by the customer of any charges under this section does not limit or waive the City's rights to pursue any and all remedies provided under applicable law.
6. Meter tampering is a criminal offense under C.R.S. Sections 18-4-505 through 18-4-506.5.

G. Interruption of Service or Fluctuation in Voltage

1. The City will use reasonable diligence to provide an adequate and uninterrupted supply of electrical energy at normal voltage. But, if the supply shall be interrupted or fluctuate in voltage for any cause, the City shall not be liable for personal injuries, loss or damages resulting therefrom, nor will such failure constitute breach of an agreement for electric service. The customer shall be responsible for taking whatever precautions the customer deems appropriate to protect against interruptions of service or fluctuations in voltage, so long as the precautions do not conflict with these regulations.
3. The City shall have the right to temporarily suspend service for the purpose of making repairs or improvements to the system, but in such cases, where practicable, public notice shall be given and every effort will be made to make such interruptions as short as possible.

Section 14.32.220 Miscellaneous Continued

H. Notice of Trouble

In the event that service is interrupted or not satisfactory, or any hazardous condition is known to exist, it shall be the obligation of the customer to notify the City of such condition.

I. Resale of Electric Energy

1. Electric energy supplied by the City is for the exclusive use of the customer. Therefore, the customer may not, by submetering, determine a quantity of electric energy and resell said electric energy to any other person on the customer's premises or for use on any other premises.
2. A master meter customer may, however, check meter tenants, lessees, or other persons to whom ultimately the electricity is distributed for the purpose of reimbursing the master meter customer through an appropriate allocation procedure.
3. The City reserves the right to refuse to furnish electric service to any customer where the purchase of such service is for the purpose of resale by the customer to others. In the event electric energy is sold in conflict with this section, the City shall have the right to discontinue service to the customer.

J. Right of Access

1. The customer will provide access to their premises at all reasonable times for authorized employees of the City for any proper purpose incidental to the supplying of electric or telecommunication service. This would include, but is not limited to, reading meters and testing, inspecting, repairing or replacing any equipment which is the property of the City. For the purposes of maintaining or repairing the City's equipment, if access to the property or any equipment is limited in any fashion, the customer shall take all steps, including the provision of keys where necessary, to provide access. For the purpose of obtaining meter reads for monthly billing, if access to the property is limited in any fashion, the customer will be required to pay a charge to have remote read capable equipment installed on the site.
2. All easement areas shall be maintained for adequate access to City equipment. The City shall have the right to correct the access problem at the customer's expense or discontinue service if the customer does not correct the access problem within seven days after written notification of the problem. In the case of an emergency, the City may correct the access problem without notice.

Section 14.32.220 Miscellaneous Continued

3. The City shall not be responsible for replacing trees, shrubs, plants, or ground covers which have been damaged and are in the right-of-way or easements, or within required equipment clearances, during emergency outages, maintenance of equipment or while obtaining monthly meter reads.

K. Cogeneration and Small Power Production

1. The City is contractually obligated to purchase all of its requirements for electric power and energy from the Platte River Power Authority. In order to meet its contractual obligations, Platte River Power Authority has agreed to purchase any power and energy offered to the City by a qualifying facility which exceeds the net metering capacity thresholds in Sections 14.32.040, 14.32.065 and 14.32.075, located in the City's service territory. The City will fulfill all of its obligations under this agreement and may, in its discretion, exercise any rights provided by the agreement or applicable Platte River Power Authority tariffs.
2. The City will provide electric service to all qualifying facilities located in its service territory pursuant to applicable rate schedules and this chapter. Supplementary, back-up, maintenance and interruptible power may be provided to qualifying facilities, upon request, at a rate determined on a case-by-case basis.
3. The City must be consulted in advance of any construction by the qualifying facility. The qualifying facility shall provide to the City all information requested by the City relevant to the proposed construction. The City will evaluate each proposal on a case-by-case basis and may prescribe reasonable terms and conditions governing operations including interconnection standards pursuant to Section 14.32.225.
4. The City may require the execution of a written agreement prior to interconnection in accordance with the standards set forth in Section 14.32.225.
5. The qualifying facility shall indemnify and hold the City harmless from any and all liability arising from the operation or interconnection of the qualifying facility. All facilities constituting the qualifying facility are subject to the inspection and approval of the City at any time after construction has begun. The qualifying facility is required to procure and maintain such insurance as is deemed necessary by the City, solely at the expense of the qualifying facility. The City may require disconnection of the qualifying facility from the City's system for reasons of safety, interference, reliability or at the request of Platte River Power Authority.
6. Any and all costs of interconnection, including those incurred by the City, shall be the sole responsibility of the qualifying facility. The City may require any costs that the City may incur to be estimated and paid in advance.

Section 14.32.220 Miscellaneous Continued

7. Based on mutual agreement between the City, the qualifying facility and Platte River Power Authority, the City may transmit energy or power and energy, supplied by the qualifying facility, to another utility, other than Platte River Power Authority, pursuant to an appropriate contract, to the extent that transmission capacity is available. The City may make an appropriate charge to the qualifying facility for such transmission.

L. Customer Access to Utility Property

Customers will not be allowed entry to any utility owned facility including, but not limited to: vaults, transformer cabinets and meter pedestals. All service connections within these facilities will be made by City personnel.

M. Emergency or Supplemental Generators

1. Requirements

In order to avoid metering and safety-related back feed problems, the City shall review for approval all customer-owned emergency or supplemental generation equipment installations that incorporate a permanent attachment point with LPC. Customers shall not attach any generation equipment to the City electrical system without prior written approval of the City's Building Inspection Department and LPC.

2. Procedures

The installation of generation equipment with a fixed or switched attachment to LPC will require the following:

- a. Any customer proposing to install generation equipment shall incorporate a switch to prevent the equipment from operating in parallel with the City electrical system. The customer shall have the switch installation inspected and approved by the City's inspection division and by LPC as a condition of approval for a Certificate of Occupancy.

3. Emergency Generation Operation

Any customer proposing to connect and operate generation equipment on the customer's side of the electric service entrance during any utility outage must disconnect the customer's system from the LPC utility system at the service entrance main disconnect during generator operation and disconnect the generator prior to reconnection with the LPC system.

Section 14.32.220 Miscellaneous Continued

N. Special Services Requested by Customer

1. Upon request from the customer, a variety of special services are available such as backup transformers, enhanced reliability service configurations, automatic transfer, harmonic filtering, and undergrounding or relocation of facilities.
2. When requested by the customer, and where determined feasible by LPC, the estimated cost for installation and operation and maintenance will be determined. The customer will be responsible for paying the full cost of installation prior to installation. The customer will also be required to pay for the ongoing operation and maintenance costs.
3. LPC reserves the right to refuse to provide a specific special service if it will have negative impacts on the operation of LPC or its customers.

O. Excavations

Any person wanting to excavate in LPC's service area must first comply with C.R.S. Sections 9-1.5-101 through 9-1.5-106.

P. Trees Near Power Lines

1. For safety and reliability reasons, LPC or its agents must trim any tree or other vegetation on the customer's premises that is near or adjacent to power lines. The trimming shall be done according to LPC standards.
2. Tree houses, antennas or other overhead installations shall not be allowed near power lines in accordance with industry standards. Removal of the installations shall be the responsibility of the owner at the owner's sole cost and expense.

Section 14.32.225 Small Generation Interconnection Standards

A. Installation and Permitting

1. *General.* Distributed Generation Systems (DGS) are customer-owned generation and utilization equipment on the load side of the electric utility meter, and are subject to all permitting and inspection requirements pertinent to these facilities in conformance with the National Electrical Code (NEC). In addition, the customer must apply for the electric service rate applicable to these interconnected facilities.
2. *Classes of electric service for distributed generation systems.* Service requirements for distributed generation systems shall be based upon the generator (or inverter) nameplate rating(s). If the site incorporates more than one generator or inverter, the capacity (for the purposes of determining class) shall be the sum of the nameplates.
 - a. Class 1 is distributed generation of 50 kW or less. Class 1 generation must be registered for residential or commercial self generation service and must meet the requirements and standards, including those in subsections 14.32.225.C, a through g. Class 1 services rated more than 10 kW may require upgrades to LPC facilities at customer cost.
 - b. Class 2 is distributed generation of more than 50 kW but less than 1,000 kW. Class 2 systems will require a contract for electric service and an extensive engineering review by LPC for system interconnection and facility upgrade requirements. Class 2 services may be subject to additional codes and requirements.
 - c. Class 3 is distributed generation of 1,000 kW or larger. Class 3 will require coordination with LPC and Platte River Power Authority (PRPA) regarding interconnection requirements and compensation for generation output.
4. *Minimum standards.* The DGS must comply with all applicable standards and codes including, but not limited to, NEC, UL, ANSI, NEMA, and IEEE. Specific requirements include the current versions of the following:
 - a. UL 1741-Standard (e.g., Standard for Static Inverters and Charge Controllers for Use with Photovoltaic Systems).
 - b. IEEE Standard 1547 (2003): Standard for Interconnecting Distributed Resources with Electric Power Systems.

Section 14.32.225 Small Generation Interconnection Standards Continued

B. Service Account Administration

Request for Service.

The customer or contractor must apply for the appropriate interconnected electric service for the facility – resident self generation or commercial self generation. The interconnection customer may not connect the DGS to LPC’s electric system until the LPC service application form has been completed and the DGS has been tested and approved by LPC. LPC may perform (at its own expense) whatever testing of the DGS that LPC deems necessary.

Transfer of Property Ownership.

The residential self generation and/or commercial self generation rates are associated with the interconnected generation facilities and will transfer with the property to any new ownership.

C. Power Quality Requirements

The DGS shall not create power system disturbances that exceed the standards specified by LPC, and as referenced in other sections of this Code. When there is demonstrated, unreasonable interference to other customers and such interference exceeds LPC standards, LPC reserves the right, at its expense, to install test equipment as may be required to perform a disturbance analysis and monitor the operation of the DGS to evaluate the quality of the power produced. If the DGS is demonstrated to be the source of the interference, and the interference exceeds LPC standards or generally accepted industry standards, then the DGS will be disconnected and locked out from the LPC distribution system until corrections are made to remedy the interference. It is the customer’s responsibility to eliminate the interference problem caused by the DGS.

A disconnect switch or electric breaker for the DGS would allow isolation of the DGS from the electric service for the parcel. If this specific isolation is not available, LPC will disconnect the entire electric service until any DGS operating problems are resolved by the customer.

The following power quality requirements apply:

- a. *Voltage.* The DGS must be capable of operating within normal or emergency electric utility voltage operating limits and properly disconnect (or otherwise cease to generate) from the utility source when warranted by operating conditions.

Section 14.32.225 Small Generation Interconnection Standards Continued

- b. *Flicker*. The DGS shall not create objectionable flicker for other LPC customers. Flicker is considered objectionable when it either causes a modulation of the light level of lamps sufficient to be irritating to humans or causes equipment malfunction. See IEEE 519-1992 (or current version).
- c. *Frequency*. The DGS must operate in a fixed frequency range of 59.3 to 60.5 Hz. When the interconnected system frequency is outside this range, the DGS shall cease to energize the LPC connection.
- d. *Waveform distortion (Harmonics)*. The DGS must have low-current-distortion levels to ensure that no adverse effects are caused to other equipment connected to LPC's electric system. When the DGS is serving balanced linear loads, harmonic current injection into LPC's network shall not exceed maximum total demand distortion of 5.0 percent.
- e. *Power factor*. The DGS must operate at a power factor greater than 0.9 (leading or lagging).
- f. *Islanding protection*. The DGS must cease to energize the utility system when there is a loss of utility source voltage on the LPC system. The DGS must immediately, completely, and automatically disconnect (or otherwise cease to operate) from LPC's electric system in the event of a fault on the DGS or loss of source on LPC's electric system. LPC, at its own discretion and expense, may conduct periodic testing of anti-islanding. Anti-islanding is an industry term describing the means by which the DGS will cease to generate when it is still connected to the electric utility system that is de-energized due to fault clearing or other switching.
- g. *Direct current injection*. The distributed generation system shall comply with IEEE 1547 (or current version) for direct current injection as measured at the LPC meter.

D. Additional Equipment

The interconnection customer must pay for any additional equipment required to connect the DGS to LPC's electric system. This includes any modifications to LPC's electric system necessary to accommodate the DGS consistent with safety, reliability and power quality standards.

Technology Specific Requirements.

Different technologies may require unique designs for the operation of the generator. If the standards do not address the interconnection requirements for a particular generating facility or technology, LPC and the interconnection customer may agree upon other requirements.

Section 14.32.225 Small Generation Interconnection Standards Continued

E. Aggregated Generation

LPC reserves the right to consider the effect of the DGS in combination with any other generation on the LPC system. This review and any appropriate remedy to the effect of the aggregated generation will be done on a case-by-case basis at the sole discretion of LPC.

F. Maintenance and Safety of Equipment

The interconnection customer shall maintain the DGS including, at their sole cost and expense, to ensure operation in a safe and prudent manner and in conformance with all applicable laws, codes, and regulations. Maintenance shall include, but not be limited to, all over-current protective equipment.

Section 14.32.230 Line Extension Policy

A. Residential Service Extensions

1. Service Standards

- a. LPC is responsible for the standards, electrical engineering and design associated with the City-owned and maintained electric utility.
- b. All electric distribution systems will comply with the requirements outlined in this chapter and in the City of Longmont Design Standards and Construction Specifications.
- c. Unless approved by the LPC Engineering Division, residential subdivision developments within the City will incorporate front of lot underground facilities. Individual building lots within areas with established overhead facilities and rural subdivision developments may incorporate either overhead or underground facilities at the customer's option. Underground installations will utilize pad mounted transformers. Available single phase voltage will be 120/240 volts.
- d. Public roadways will be lighted in accordance with LPC Street Lighting Guidelines. Street lighting systems will be designed and constructed by the City. Developers are responsible for the costs of design and installation.
- e. Line extensions will begin at the closest suitable point of the electric distribution system, as determined by the City.
- f. The extension will end at the customer's point of delivery and the responsibility for service facilities is:
 - (i) Underground: The City will own, install, and maintain the primary voltage system, including transformers and the secondary voltage system, including the metering pedestal or the secondary junction vault.
 - (a) Pedestals: The customer will install, own, and maintain the service facilities from the pedestal. These facilities shall be in accordance with the requirements of the NEC and the City Building Inspection Department or the Boulder or Weld County Inspection Department.
 - (b) Secondary Junction Vaults: Where secondary junction vaults have been installed in residential subdivisions in lieu of pedestals, the customer will install the secondary facilities to the home including the meter housing as set forth in LPC's metering specifications and the City of Longmont's Design Standards and Construction Specifications. These facilities shall be in accordance with the requirements of the NEC and the governing inspection agency.

Section 14.32.230 Line Extension Policy Continued

(ii) Overhead: The City will own, install, and maintain the primary voltage system, transformers, and service wiring up to the service mast. The customer will own, install, and maintain the service facilities including the mast, an attachment point for the secondary service wire drop that is secure and provides proper clearance, and associated wiring (and meter pole, if required). These facilities will be in accordance with NEC requirements and be inspected and approved by the governing agency.

g. Connections

- (i) Underground Service: All connections to City-owned facilities must be made by City personnel.
- (ii) Overhead Service: Under standard practice, City personnel will connect the City-owned service drop to the customer-owned mast wiring. Customer may elect to temporarily connect the City-owned service drop to the customer-owned mast, if installed by customer in accordance with the NEC, with further action by LPC for permanent connection. In such event, the City will assume no responsibility regarding the quality or performance of the connections or the connecting devices.

2. Procedures

- a. To initiate the design and cost estimating process for residential development, the following procedures will apply:
- (i) For new development, refer to the City of Longmont Design Standards and Construction Specifications.
- (ii) Construction on a lot not served by meter pedestal or secondary junction vault: the builder shall submit the applicable request for electric service and shall schedule a project coordination meeting with the LPC Engineering Division.
- (iii) Construction on a lot served by an existing secondary junction vault or metering pedestal: no coordination with the LPC Engineering Division is required. The customer shall comply with LPC's metering specifications and the City of Longmont's Design Standards and Construction Specifications.
- b. All project design and cost estimates will be scheduled by LPC based upon the date of submittal of the request for service, accompanied by the required project information.
- c. For services greater than 200 amps, current and voltage metering transformers will be issued by the LPC Meter Shop in the City Service Center, 1100 S. Sherman Street. A copy of the Building Permit must be submitted and the request for service completed with the LPC Engineering Division.

Section 14.32.230 Line Extension Policy Continued

- d. The customer must provide written easements to the City for all properties which the line extension will cross. The City will furnish the standard form for these easements and will designate width of easements and acceptable line routes.
 - e. All required procedures must be satisfied before the project work order will be scheduled for construction.
 - f. Site preparation must be completed prior to construction start.
 - (i) Refer to City of Longmont Design Standards for specific development requirements.
 - (ii) Lot corners or other requested references must be marked by the customer. This may include locating associated electric easement(s) granted for access to and construction within the project site.
 - (iii) If the City determines that the extension passes through a rocky area, the customer must provide a six-foot deep hole for each pole and a seven-foot deep hole for each anchor for overhead construction or a three-foot deep trench for underground construction. LPC personnel, or the customer if required in the City's sole discretion, will stake the required location of each pole and anchor or the route of each trench.
 - (iv) Streets or access routes and construction areas must be open for safe equipment passage and operation.
3. Fees
- a. The on-site cost will be paid by the developer or builder or other responsible party. "On-site" refers to facilities directly associated with service to the development or building and/or facilities physically located on the development or building site. The cost will be the total of material, labor, equipment, City subcontracted work associated with the project, and engineering/administration costs, based on standard estimating procedures established by the LPC Engineering Division.
 - b. The developer or builder is responsible for paying all costs required for street lighting systems within the development, and the appropriate portion of costs required for street lighting along public roadways adjacent to development.
 - c. Payment will be made as required by LPC.

Section 14.32.230 Line Extension Policy Continued

- d. Charges for changes during construction or after initial installation of the system will be borne by the builder or other responsible party in accordance with paragraph (3) (a) on the previous page. Changes in installation techniques due to unforeseen conditions will also result in charges to be borne by the developer, builder, or other responsible party.
- e. An Electric Community Investment Fee (ECIF) for all new electric services and upgrades is required. Specific details of the ECIF are provided in Section 14.32.150.

B. Commercial/ Industrial Service Extensions

1. Service Standards

- a. LPC is responsible for the standards, electrical engineering and design associated with the City-owned and maintained electric utility.
- b. All electric distribution systems will comply with the requirements outlined in this chapter and the City of Longmont Design Standards and Construction Specifications for electric distribution systems and service line construction.
- c. New commercial or industrial areas within the city will be constructed using underground electric facilities. Individual building lots within areas with established overhead facilities and areas outside the city limits may incorporate overhead or underground facilities at the customer's option. Underground installations will utilize pad mounted transformers. Overhead installations are limited to a maximum transformer size of 300 kVA.
- d. Line extensions will begin at the closest suitable point of the Electric Distribution system, as determined by LPC.
- e. Public roadways will be lighted in accordance with LPC Street Lighting Design Guidelines. Street lighting systems will be designed and constructed by the City. Developers are responsible for the costs of design and installation.
- f. Under standard practice, commercial/industrial subdivision designs will incorporate a three phase primary voltage system with associated tap points. Individual service installations may be either single or three-phase at the builder's option. Available three-phase voltages will be 120/208 or 277/480 volts. Available single-phase voltage will be 120/240 volts. If supplied by a three-phase installation, 120/208 volts single-phase will be the service standard.

Section 14.32.230 Line Extension Policy Continued

- g. All installations will have the meter located on the exterior of the customer's building unless an approved design is presented and approved by LPC staff. No customer-owned facilities will be mounted on City facilities or structures. Access must be provided to all City facilities or structures.

2. Installation and Ownership of Facilities

a. Standard Services

- (i) **Underground:** The City will own, install, and maintain the primary voltage system including transformers. The customer will own, install, and maintain the service facilities from the transformer secondary spades in accordance with the NEC requirements. Additionally, the customer must furnish the concrete pad for the transformer per the LPC Engineering Division specifications. This pad remains the ownership and maintenance responsibility of the customer.
- (ii) **Overhead:** The City will own, install, and maintain the primary voltage system, transformers, and service wiring up to the service mast. The customer will own, install, and maintain the service facilities including the mast, an attachment point for the secondary service wire that is secure and provides proper clearance, and associated wiring; these facilities shall be in accordance with NEC requirements.

b. Primary Meter Services

The City will own, install, and maintain all primary voltage facilities up to and including the customer's metering point. The customer will own, install, and maintain all facilities on the load side of the metering point unless determined otherwise by individual contract. All customer facilities will be in accordance with NEC requirements.

3. Connections of Service Facilities

Customer-owned facilities must be inspected and approved by the appropriate governing agency prior to final connection to the City-owned facilities and/or system.

- a. **Underground Service:** All connections to City-owned facilities will be made by City personnel. Unless specifically approved by LPC, the total number of connections within a three-phase transformer will be limited to six conductors per phase; within a single-phase transformer, the limit will be four conductors per phase. The customer will install cable of sufficient length for termination.

Section 14.32.230 Line Extension Policy Continued

In the event that more than the allowed number of conductors is required, a separate termination cabinet and associated facilities may be installed at the customer's expense. This cabinet will be owned, installed, and maintained by the City and will be the point of attachment for the service. The City will own, install, and maintain the wiring between the cabinet and transformer and make all associated connections. The customer will own, install, and maintain the facilities between the cabinet and the service entrance and will make all associated connections.

- b. Overhead Service: Under standard practice, City personnel will connect the City-owned service drop to the customer-owned mast wiring.
Customer may elect to temporarily connect the City-owned service drop to the customer-owned mast wiring if installed by customer in accordance with the NEC, with further action by LPC for permanent connections. In such event, the City will assume no responsibility regarding the quality or performance of the connections or the connecting devices.

4. Procedures

- a. To initiate the design and cost estimating process, refer to the City of Longmont Design Standards and Construction Specifications.
- b. The customer shall furnish and install a meter housing approved by the City of Longmont for the installation of the City's metering equipment. If, in the City's discretion, instrument transformers are required, an approved location and mounting bracket shall be provided for outdoor type instrument transformers, or if an outdoor installation is not desirable, the customer shall furnish and install an approved suitable metal enclosure for the installation of instrument transformers and the metering sockets for which the City will furnish and install the meters. In the case of meter clusters, the customer shall furnish and install metering equipment that has been approved by LPC. LPC staff will inspect installations at the time of service connection. LPC staff shall not install the service meter until the customer installs a meter housing approved by LPC. The governing inspection agency will be notified and an additional inspection may be required.
- c. The customer may be required to provide easements in addition to previously recorded plats to the City for all properties which the line extension will cross. Surveying costs required to provide such easements are at the customer's expense. The City will furnish the standard form for these easements and will designate width of easements and acceptable line routes.
- d. All required procedures must be satisfied before the project work order will be scheduled for construction.

Section 14.32.230 Line Extension Policy Continued

- e. The following site preparation must be completed prior to construction start:
 - (i) Refer to the City of Longmont Design Standards for specific development requirements.
 - (ii) If the City determines that the extension passes through a rocky area, the customer must provide a six-foot deep hole for each pole and a seven-foot deep hole for each anchor for overhead construction or a three-foot deep trench for underground construction. LPC Engineering Division personnel, or the customer if so required in LPC's sole discretion, will stake the required location of each pole and anchor or the route of each trench.
5. Fees
- a. The on-site electric facilities cost will be paid by the developer or builder or other responsible party. "On-site" refers to facilities directly associated with service to the development or building and/or facilities physically located on the development or building site. These costs may include the relocation or alteration of existing electric facilities necessitated by the project. The cost will be the total of material, labor, equipment, City subcontracted work associated with the project, and engineering/administration costs, based on standard estimating procedures established by LPC.
 - b. The responsible party will pay all costs required for street lighting systems along public roadways within the development, and the appropriate portion of costs required for street lighting systems along public roadways contiguous to the development.
 - c. Charges for changes during construction or after initial installation of the system will be borne by the responsible party in accordance with (B) (5) (a) above. Changes in installation techniques due to unforeseen conditions will also result in charges to the responsible party.
 - d. Payments will be made as required by LPC.
 - e. An Electric Community Investment Fee (ECIF) for all new electric services and upgrades is required. Specific details of the ECIF are provided in Section 14.32.150.

Section 14.32.240 Service Modification Policy

A. Residential Service Modifications

1. Service Standards

- a. LPC is responsible for the standards, electrical engineering and design associated with the City owned and maintained electric utility.
- b. All electric distribution systems will comply with the requirements outlined in the Rules and Regulations.
- c. Available single phase voltage will be 120/240 volts.
 - (i) Contact LPC Engineering Division for non-standard residential voltages.
- d. A building permit from the appropriate governing agency is required.
 - (i) City of Longmont, contact City of Longmont Building Inspection Division.
 - (ii) Boulder or Weld County, contact County Inspection Division.
- e. The service modification may include a meter relocation, electric panel upgrade, conversion from overhead to underground, etc., and may include the customer's point of delivery. The responsibility for service facilities is:
 - (i) *Underground.* The City will own, install, and maintain the primary voltage system including transformers and the secondary voltage system including the metering pedestal or the secondary junction vault. LPC facilities will be relocated or upgraded to meet the customer's service change.
 - (A) *Pedestals.* The customer owns and maintains the service conductor from the pedestal to the electrical panel at the residence. The changes in customer owned facilities shall be completed by the customer in accordance with the NEC and the governing inspection agency.
 - (B) *Secondary junction vaults.* Where secondary junction vaults have been installed in residential subdivisions in lieu of pedestals, the customer is responsible for the modifications required to the conduit and conductor. LPC will take over the maintenance of the conductor one year after the final inspection date.

Section 14.32.240 Service Modification Policy Continued

The customer shall furnish a meter housing approved by the City of Longmont for the installation of the City's metering equipment as set forth in LPC's metering specifications and the City of Longmont's Design Standards and Construction Specifications.

- (ii) *Overhead.* The City will own, install, and maintain the primary voltage system, transformers, and service wiring up to the service mast. LPC facilities will be relocated or upgraded to meet the customer's service change.

The customer will own and maintain the service facilities including the mast, an attachment point for the secondary service wire drop that is secure and provides proper clearance, and associated wiring (and meter pole, if required). Customer-owned facilities will be modified in accordance with NEC and the governing inspection agency.

- (A) *Service Line Conversion Overhead to Underground.* Where overhead electric facilities exist and the customer requests an underground service, the City will own, install, and maintain the service wiring down the pole to a junction vault.

The customer installs, owns and maintains the service conductor from the junction vault to the electrical panel at the residence. Customer-owned facilities shall be completed in accordance with the NEC and the governing inspection agency.

f. Connections

Customer-owned facilities must be inspected and approved by the appropriate governing agency prior to final connection to the City-owned facilities and/or system.

- (i) *Underground Service.* All connections to City-owned facilities will be made by City personnel.
- (ii) *Overhead Service.* Under standard practice, City personnel will connect the City-owned service drop to the customer-owned mast wiring.

Customer may elect to temporarily connect the City-owned service drop to the customer-owned mast if installed in accordance with the NEC, with further action by LPC for permanent connections. In such event, the City will assume no responsibility regarding the quality or performance of the connections or the connecting devices.

Section 14.32.240 Service Modification Policy Continued

2. Procedures

- a. To initiate the design and cost estimating process for residential service relocations, upgrades or other modifications the customer or designee shall submit the applicable request for electric service. Supporting documents shall be included with the request and a project coordination meeting scheduled with LPC.
- b. All project design and cost estimates will be scheduled by LPC based upon the date of submittal of the request for service, accompanied by the required project information.
- c. For services greater than 200 amps, current and voltage metering transformers will be issued by the LPC Meter Shop in the City Service Center, 1100 S. Sherman Street. A copy of the Building Permit and the completed Request for Service must be submitted and approved by LPC before the equipment will be released.
- d. For relocation of the electric service, the customer must provide written easements to the City for all properties which the service line will cross. The City will furnish the standard form for these easements and will designate width of easements and acceptable line routes.
- e. All required procedures must be satisfied before the project work order will be scheduled for construction.
- f. The following site preparation must be completed prior to LPC construction start.
 - (i) Lot corners or other requested references must be marked by the customer. This may include locating associated electric easement(s) granted for access to and construction within the project site.
 - (ii) If the service modification requires a new installation and the City determines that it passes through a rocky area, the customer must provide a six-foot deep hole for each pole and a seven-foot deep hole for each anchor for overhead construction, or a three-foot deep trench for underground construction. LPC Engineering Division personnel, or the customer if so required in LPC's sole discretion, will stake the required location of each pole and anchor or the route of each trench.
- g. Connections to the customer installed facilities will be scheduled after LPC receives an inspection release by the governing inspection agency.

Section 14.32.240 Service Modification Policy Continued

3. Fees

- a. The cost associated with the service modification will be paid by the customer or other responsible party. These costs may include the relocation or alteration of existing electric facilities necessitated by the project. The cost will be the total of material, labor, equipment, City subcontracted work associated with the project, and engineering/administration costs, based on standard estimating procedures established by LPC.
- b. Charges for changes during construction or after initial installation of the system will be borne by the developer, the customer or designee in accordance with (A) (3) (a) above. Changes in installation techniques due to unforeseen conditions will also result in charges to be borne by the developer, customer or designee.
- c. An Electric Community Investment Fee (ECIF) for all new electric services and upgrades is required. Specific details of the ECIF are provided in Section 14.32.150.
- d. Payments shall be made as required by LPC.

B. Commercial/Industrial Service Modifications

1. Service Standards

- a. LPC is responsible for the standards, electrical engineering and design associated with the City owned and maintained electric utility.
- b. All electric distribution systems will comply with the requirements outlined in this Chapter.
- c. Underground installations will utilize pad mounted transformers. Overhead installations are limited to a maximum transformer size of 300 kVA.
- d. Under standard practice, commercial/industrial services will incorporate a three phase primary voltage system with associated tap points. Individual service installations may be either single- or three-phase at the customer's option. Available three-phase voltages will be 120/208 or 277/480 volts. Available single-phase voltage will be 120/240 volts. If supplied by a three-phase installation, 120/208 volts single-phase will be the service standard.

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- e. A building permit from the appropriate governing agency is required.
 - (i) In the City of Longmont limits, contact City of Longmont Building Inspection Division.
 - (ii) In Boulder or Weld County, contact County Inspection Division.
- f. All installations will have the meter located on the exterior of the customer's building unless an approved design is presented and approved by LPC staff. No customer-owned facilities will be mounted on City facilities or structures. Access must be provided to all City facilities or structures.
- g. The service modification may include meter relocation, electric panel upgrade, etc., and will include the customer's point of delivery. The responsibility for service facilities is:
 - (i) *Underground.* The City will own and maintain the primary voltage system including transformers. City facilities will be modified to meet the customer's service requirements.

The customer owns and maintains the service facilities from the transformer secondary spades. The service facilities will be modified by the customer in accordance with the NEC requirements and the governing inspection agency. Additionally, the customer must furnish the concrete pad as required for the transformer defined in the LPC Engineering Division specifications. The customer has ownership and maintenance responsibility for this concrete pad.

- (ii) *Overhead.* The City will own, and maintain the primary voltage system including transformer, and service wiring up to the service mast. City facilities will be relocated or upgraded to meet the customer's service requirements.

The customer will own and maintain the service facilities, including the mast, an attachment point for the secondary service wire that is secure and provides proper clearance, and associated wiring. These facilities will be modified in accordance with NEC requirements and the governing inspection agency.

h. Primary Meter Services

- (i) The City will own and maintain all primary voltage facilities up to and including the customer's metering point. City facilities will be relocated or upgraded to meet the customer's service requirements.

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(ii) The customer is responsible for modifying all facilities on the load side of the metering point. The customer will continue to own and maintain all facilities on the load side of the metering point except for customers who are substation metered in which case arrangements for ownership, installation and maintenance will be established unless determined otherwise by individual contract. All customer facilities will be modified in accordance with NEC requirements and the governing inspection agency.

i. Connections of Service Facilities

Customer-owned facilities must be inspected and approved by the appropriate governing agency prior to final connection to the City-owned facilities and/or system.

(i) *Underground service.* All connections to City-owned facilities will be made by City personnel. Unless specifically approved by LPC Engineering Division, the total number of connections within a three-phase transformer will be limited to six conductors per phase; within a single-phase transformer, the limit will be four conductors per phase. The customer will install cable of sufficient length for termination.

In the event that more than the allowed numbers of conductors are required, a separate termination cabinet and associated facilities may be installed at the customer's expense. This cabinet will be owned, installed, and maintained by the City and will be the point of attachment for the service. The City will own, install or increase capacity as required, and maintain the wiring between the cabinet and transformer and make all associated connections. The customer will own, install or increase capacity as required, and maintain the facilities between the cabinet and the service entrance and will make all associated connections.

(ii) *Overhead service.* Under standard practice, City personnel will connect the City-owned service drop to the customer-owned mast wiring.

Customer may elect to temporarily connect the City-owned service drop to the customer-owned mast if installed in accordance with the NEC, with further action by LPC for permanent connections. In such event, the City will assume no responsibility regarding the quality or performance of the connections or the connecting devices.

Section 14.32.240 Service Modification Policy Continued

2. Procedures

- a. To initiate the design and cost estimating process for commercial service relocations, upgrades or other modifications, the customer or designee shall submit the applicable request for electric service. Supporting documents shall be included with the request and a project coordination meeting scheduled with the LPC Engineering Division.

All project design and cost estimates will be scheduled by the LPC Engineering Division based upon the date of submittal of the Request for Service, accompanied by the required project information.

- b. The customer shall furnish a meter housing approved by the City of Longmont for the installation of the City's metering equipment. If, in the City's discretion, instrument transformers are required, an approved location and mounting bracket shall be provided for outdoor type instrument transformers. If an outdoor installation is not desirable, the customer shall furnish and install an approved suitable metal enclosure for the installation of instrument transformers and the metering sockets for which the City will furnish and install the meters. In the case of meter clusters, the customer shall furnish and install metering equipment that has been approved by LPC. LPC staff will inspect installations at the time of service connection. LPC staff shall not install the service meter until the customer installs a meter housing approved by LPC. The governing inspection agency will be notified and an additional inspection may be required.
- c. For relocated services, the customer may be required to provide easements in addition to previously recorded plats to the City for all properties which the electric facilities will cross. Surveying costs required to provide such easements are at the customer's expense. The City will furnish the standard form for these easements and will designate width of easements and acceptable line routes.
- d. All procedures must be satisfied before the project work order will be scheduled for construction.
- e. The following site preparation must be completed when new construction efforts are required prior to construction start:
 - (i) Refer to City of Longmont Design Standards for specific development requirements.

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(ii) If the City determines that the service modification requires a new installation and it passes through a rocky area, the customer must provide a six-foot deep hole for each pole and a seven-foot deep hole for each anchor for overhead construction, or a three-foot deep trench for underground construction. LPC Engineering Division personnel, or the customer if so required in LPC's sole discretion, will stake the required location of each pole and anchor for the route of each trench.

3. Fees

- a. The cost associated with the service modification will be paid by the customer or other responsible party. These costs may include the relocation or alteration of existing electric facilities necessitated by the project. The cost will be the total of material, labor, equipment, City subcontracted work associated with the project, and engineering/administration costs, based on standard estimating procedures established by the LPC Engineering Division.
- b. Charges for changes during construction or after initial installation of the system will be borne by the responsible party in accordance with paragraph (B) (3) (a) above. Changes in installation techniques due to unforeseen conditions will also result in charges to be borne by the customer or designee.
- c. An Electric Community Investment Fee (ECIF) for all new electric services and upgrades is required. Specific details of the ECIF are provided in Section 14.32.150.
- d. Payment shall be made as required by LPC.