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2		<b>REGULATIONS GOVERNING ELECTRIC SERVICE</b>
3		
4	TAB	LE OF CONTENTS
5		
6	I.	INTRODUCTION
7		
8		General Statement and Delegation of Authority
9		Availability of Regulations
10		Revisions
11		Conflict
12		Liability and Indemnification
13		
14	II.	DEFINITIONS
15 16	III.	SERVICE CONDITIONS
17	111.	SERVICE CONDITIONS
18		Customer's Installation
19		Interference with Quality of Service
20		Phase Balancing
20		Customer's Wiring and Equipment
22		Welders
23		Motor Protective Devices
24		Instantaneous Demand
25		Harmonics and Harmonic Current Distortion Limits
26		Power Factor
27		
28	IV.	METERS
29		
30		Point of Delivery
31		Meter Locations
32		Construction Specifications
33		Meter Tests
34		Separate Meter for Each Class of Service
35		Additional Meters; Prohibition on Resale of Electricity
36		
37	V.	MISCELLANEOUS
38		
39		Additional Load
40		Attachments to Utility Property
41		Customer Power Outage
42		Diversion of Electric Energy

1	Service Failures
2	Notice of Trouble
3	Resale of Electric Energy
4	Right of Access
5	Complaints
6	Computation of Time
7	Line Extension Policy
8	Cogeneration and Small Power Production
9	
10	
11	
12	I. INTRODUCTION
13 14	General Statement and Delegation of Authority
15	The following Regulations are issued pursuant to the authority conferred upon the Utilities Director
16	by the Utility Code. They are issued in order to provide for the efficient and reliable operation and
17	administration of the City of Fountain's Electric Utility (hereafter referred to as "Utilities" or the
18	"Electric Department" as the case may be). The following Regulations shall govern all classes of
19	service and all territory served by the Electric Department.
20	I I I I I I I I I I I I I I I I I I I
21	Availability of Regulations
22	Copies of these Regulations and any amendments thereto shall be available for inspection during
23	regular business hours in the office of Utilities and shall be posted and maintained on the City's
24	website under "Utilities".
25	
26	Revisions
27	These Regulations may be revised, amended or otherwise changed at any time by written action of the
28	Utilities Director, subject to Charter, Utility Code, applicable ordinances, resolutions and statutory
29	and constitutional provisions. These Regulations cancel and supersede all previous "Rules and
30	Regulations Governing Electric Service".
31	
32	
33	<u>Conflict</u>
34	In the case of conflict between any provisions of a particular rate schedule and these Regulations, the
35	provisions of the particular rate schedule shall govern.
36	Lishility and Indomnification
37	Liability and Indemnification
38	See Utility Code.
39 40	II DEFINITIONS
40 41	II. DEFINITIONS
Ψ⊥	

1	Unless the context specifically indicates otherwise, the definitions below are in addition to the definitions set forth in Section 1.04.030 of the City Code and these contained in the Utility Code and
2	definitions set forth in Section 1.04.030 of the City Code and those contained in the Utility Code and such definitions are fully incorporated by reference in these Regulations.
3 4	such definitions are funy incorporated by reference in these Regulations.
5	Codes: Safety, installation, and equipment standards generally used and applied in the electric
6	utility industry and by the Electric Department. Such codes include, but are not limited to, the
7	National Electric Code (NEC), the Institute of Electrical and Electronics Engineers (IEEE), the
8	American National Standards Institute (ANSI), the National Electrical Manufactures
9	Association (NEMA), and the National Electrical Safety Code (NESC).
10	
11	Electric Specifications: Electric Department's Design Standards and Construction
12	Specifications.
13	
14	Kilovolt-Ampere (KVA): A unit of apparent electric power in thousand volt-amperes.
15	Line Extension: Any addition to Utilities existing distribution lines and facilities
16 17	Line Extension: Any addition to Utilities existing distribution lines and facilities.
18	Point of Delivery (Service Point): The point of delivery is that point on the customer's
19	premises (or other agreed point) where the Electric Department terminates its electrical service
20	conductors and the customer's wires are connected to Electric Department conductors.
21	
22	Power Factor: A ratio of kilowatts to kilovolt-amperes.
23	
24	Primary Voltage: A nominal electric distribution voltage, typically 7200/12470 volts.
25	
26	Secondary Voltage: Nominal electric service voltage, typically 120/240 single phase, 120/208
27	and 277/480 three phase.
28 29	Rate: The amount imposed for a unit of service for the delivery of service, for the availability
30	of service during a specified time period regardless of use, or for a combination of the above.
31	Unless otherwise excepted by statute, rate includes an amount subject to public hearing under
32	40-3.5-104(1)(a), C.R.S. relating to electric service. The term does not include fees or charges
33	but a rate may be used to determine fees and charges.
34	
35	
36	III. SERVICE CONDITIONS
37	
38	Customer's Installation
39	A Refere purchasing or beginning construction of a proposed installation, the sustament shall
40	A. Before purchasing or beginning construction of a proposed installation, the customer shall confer with the Electric Department to determine if the type of service, capacity, and voltage
41	comer with the Electric Department to determine if the type of service, capacity, and voltage

1	desired by customer is available; to determine if extensions of, or additions to, the Utilities
2	facilities will be required; and to determine the definite location of the point of delivery.
3	Before any additions to or alternations of existing installations are made by the customer
4	which will materially affect the amount of service required, or which may require a change in
5	the type of service or the point of delivery, the Electric Department must be notified
6	reasonably in advance as to the proposed additions or alterations in order that it may be first
7	determined by the Electric Department if the service desired is available and, if so, that the
8	necessary changes in the Utilities facilities may be arranged for and completed.
9	
10	B. All wiring and other electrical equipment on the customer's side of the point of delivery will
11	be furnished, installed and maintained at all times by the customer in conformity with good
12	electrical practice and with the requirements of the National Electric Code (NEC), the
13	National Electric Safety Code (NESC), the wiring regulations of the public body having
14	jurisdiction, and in accordance with these Regulations as well as administrative rules adopted
15	by the Electric Department. The Electric Department may also require the customer to meet
16	additional safety conditions when deemed necessary due to the customer's proposed use or
17	installation. It shall be the customer's responsibility to provide suitable protective equipment
18	to adequately protect the customer's wiring and equipment.
19	
20	C. The customer's side of the point of delivery, service wiring and equipment shall be required to
21	meet the service conditions set forth in these Regulations, Line Extension and Service
22	Standards and also all requirements adopted by the Pikes Peak Regional Building Department.
23	Failure to meet these conditions shall constitute cause for refusal to serve or discontinuance of
24	service, whichever is appropriate. Any waiver by Utilities of any service condition contained
25	herein must be in writing. The Electric Department retains the sole discretion to determine
26	compliance with these service conditions.
27	
28	Interference with Quality of Service
29	If, in the opinion of the Electric Department, service to a customer creates interference with the
30	quality of service supplied to neighboring customers, including those situations where the customer
31	fails to comply with these Regulations and the Codes, the Electric Department may require the
32	customer to provide at the customer's own expense such special or additional equipment as is
33	required. The Electric Department may, in its discretion, provide such equipment if customer fully
34	pays the net estimated installed cost of such equipment. If the customer refuses to provide its own
35	corrective equipment, or to reimburse the Electric Department for the cost of such additional or
36	special equipment as is required to eliminate interference with the quality of service to neighboring
37	customers resulting from the failure to install corrective equipment or take appropriate corrective
38	practices, Utilities may refuse or discontinue the customer's service.
39	Dhasa Dalanaina

40 Phase Balancing

41

A. Where any single phase or three phase service is supplied, the load must be balanced as nearly 1 as practicable between the two sides or several phases, respectively. In no case is the load 2 current on one side of a three-wire single-phase service to be greater than twice that on the 3 other. Additionally, the load currents of a three-phase wye-connected service shall be balanced 4 within 5% between phases. 5 6 B. If the customer does not comply, within 30 days of a request by the Electric Department to 7 balance the service, Utilities has the option of discontinuing service or upgrading the facilities 8 at the customer's expense to accommodate the imbalance. The repair of any damage to the 9 Utilities facilities caused by the imbalance will be at the expense of the customer causing the 10 imbalance. 11 12 13 Customer's Wiring and Equipment It shall be the customer's responsibility to provide suitable protective equipment such as fuses, circuit 14 breakers and relays to adequately protect their equipment. If three-phase equipment is used, it shall be 15 the customer's responsibility to protect it against phase failure, phase reversal, and under and over 16 voltage. Specific requirements governing conditions of service shall be contained in standards, 17 specifications or guidelines issued by the Electric Department. 18 19 Welders 20 21 A. Utilities will serve, at the applicable rate and without additional compensation, welding 22 equipment of the limited input type which conforms to the standards of the National Electrical 23 Manufacturers Association (NEMA), and which has a maximum input (primary) current rating 24 not exceeding 12 amperes at 120 volts or 50 amperes at 208 or 240 volts. 25 26 B. Welding equipment which does not meet the standards of NEMA, or which exceeds in input 27 rating 12 amperes at 120 volts or 50 amperes at 208 or 240 volts, will also be served at the 28 applicable rate, at the discretion of the Electric Department, provided that service to such 29 welders has no detrimental effect on service to neighboring customers. Such equipment may, 30 at the direction of the Electric Department, require an upgrade in service to the customer. All 31 costs of said upgrade will be paid by the customer. 32 33 Motor Protective Devices 34 All motor installations shall have protective apparatus or construction within the motor to accomplish 35 equivalent protection as follows: 36 37 A. Suitable overload and overcurrent running protection shall be provided for each motor so as to 38 disconnect the motor from the line to protect it from damage caused by overheating. 39 40 B. Phase reversal and open-phase protection is required on all three-phase installations, and is 41

1 2	required for such installations involving elevators, hoists, and similar equipment to disconnec motors from the line in the event of phase reversal or opening of one phase.	x
3	C. In the event any of the above is not followed and damage to customer equipment occurs,	
4	Utilities will assume no responsibility.	
5	o unites win assume no responsionity.	
6	Instantaneous Demand	
7	In order to protect service and equipment, motors of ten (10) HP or larger shall have such	
8	characteristics, or be equipped with a starter of such design, that the instantaneous starting current requirement will be limited to approximately 300% of normal full load current.	
10		
11	Harmonics and Harmonic Current Distortion Limits	
12	A. Each customer requesting electric service from Utilities, single-phase or three-phase, shall be	
13 14	responsible for limiting the harmonic current distortion levels at their electric service meterin	g
15 16	point to the levels prescribed in the latest edition of the Institute of Electrical and Electronics Engineers (IEEE) 519 standard.	
17		
18	B. The requirements, terms, conditions and remedies for noncompliance with the harmonic	
19	current distortion levels may be set forth in a rate schedule approved by Council.	
20		
21	Power Factor	
22	A All non-notidential system are with a maximum monthly demand in success of 20 law shall be	
23	A. All non-residential customers with a maximum monthly demand in excess of 20 kw shall be required to maintain a $05\%$ power factor at the systematic peak. Failure to maintain a $05\%$	
24	required to maintain a 95% power factor at the customer's peak. Failure to maintain a 95%	
25 26	power factor may result in additional charges to the customer pursuant to the terms of the rate schedule approved by Council for the particular service category.	>
27		
28 29	B. All 5 HP or larger motors shall be required to install capacitors connected to the motor starter to be energized when the motor is running.	•
30		
31	C. In the event it is not practicable for the customer to correct the power factor as required by	
32	these Rules, Utilities may, at the option of the customer, discontinue service or install	
33	corrective equipment on the Utilities system at the customer's expense.	
34		
35	D. All services, equipment, and installations must meet all applicable Codes.	
36 37	IV. METERS	
38		
39	Point of Delivery	
40	Metering Equipment Requirements:	
41		

1	A.	The point of delivery is that point on the customer's premises (or other agreed point) where
2		Utilities terminates its electrical service conductors and the customer's wires are connected to
3		Utilities conductors. All equipment on the load side of the point of delivery shall belong to,
4		and be the responsibility of the customer, except meters and other equipment provided by Utilities, including instrument transformers. If an outage occurs due to failure of the housing
5 6		components, the customer is responsible for repairs.
7		components, the customer is responsible for repairs.
8	В	It shall be the responsibility of the customer, or the customer's electrical contractor, to obtain
9	Ъ.	the Electric Department's most current standards, specifications or guidelines and to advise
10		the Electric Department of the customer's requirements in advance of installing the service
11		entrance equipment, and to ascertain that the location is acceptable to the Electric Department.
12		
13	C.	The customer shall furnish and install a meter housing approved by the Electric Department
14		for the installation of the Electric Department's metering equipment. If, in the Electric
15		Departments' discretion, instrument transformers are required, the customer shall furnish and
16		install an approved suitable metal enclosure for the installation of instrument transformers and
17		the metering sockets for which the Electric Department will furnish and install the meters. In
18		the case of meter clusters, the customer shall furnish and install metering equipment that has
19		been approved by the Electric Department's Engineering and Metering Divisions. Electric
20		Department staff will inspect installations at the time of service connection.
21	р	
22	D.	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
23 24		same as the mailing address for each apartment or unit. The owner or developer shall be
24 25		responsible for all electricity delivered through unmarked, illegible or incorrectly labeled
26		meter sockets. Utilities will bill all expenses incurred by the Electric Department related to
27		correcting improperly labeled meters to the developer or owner, who shall pay such expenses
28		within 30 days of receipt of said billing.
29		
30	Meter	Locations
31		
32	A.	Meter housings for all types of services shall be located on the outside of the building or
33		structure and accessible to personnel of the Electric Department. The location of meters and
34		metering equipment will be located at the front third of the garage, unencumbered by any
35		permanent structures, and readily accessible at all reasonable hours for reading, testing,
36		inspecting, and other maintenance purposes. Meters will not be installed where they will
37		interfere with traffic, sidewalks, driveways or behind fences.
38	C ·	
39	Constr	ruction Specifications
40	٨	Maters shall not be installed in places difficult to seeses, such as over onen nits maving
41	А.	Meters shall not be installed in places difficult to access, such as over open pits, moving

1		machinery, hatchways, in the path of water from eaves or rain spouts, or subject to live steam
2		or corrosive vapors. It shall be the responsibility of the customer to maintain a clear space of
3		at least 36 inches in front of the meter. No hazardous plants, shrubs or other obstructions shall
4		be placed within the 36-inch clearance area. If a violation of this requirement occurs, the
5		customer shall be given 7 days to comply after written notice. After the expiration of the 7
6		days, the Electric Department, in its discretion, may conform the meter access to these
7		requirements at the customer's expense or discontinue service.
8		
9	В.	Meters shall not be installed on poles or on pad-mount equipment.
10		
11	C.	Meters shall be installed at a height of approximately five and one-half (5 <sup>1</sup> / <sub>2</sub> ) feet on center
12		above the ground or platform (except in meter pedestals provided by the Electric Department).
13		In cases where unusual conditions exist, the Electric Department shall be consulted prior to
14		installation.
15		
16	D.	All electric meters and enclosures containing metering equipment shall be sealed. The seals
17		are not to be broken without prior permission from authorized personnel of the Electric
18		Department. Personnel of the Electric Department will seal all compartments, including
19		instrument transformer compartments, and main switch enclosures located on the line side of
20		multiple metering installations. Breaking of seals shall be grounds for terminating service and
21		the imposition of diversion fees.
22	Madau	
23	Meter	<u>1 ests</u>
24	٨	The Electric Department will at its own expanse, make periodic tests and inspections, as
25	А.	The Electric Department will, at its own expense, make periodic tests and inspections, as required, on its meters to insure a high standard of accuracy. Utilities may, in its discretion,
26 27		test a meter at any time. Utilities will, at its own expense, make one meter test per year upon
28		the customer's request. A meter shall be considered accurate if it tests within 2% plus or
29		minus. Bills will be adjusted if a meter tests in excess of the 2% accuracy standard, but the
30		maximum adjustment period shall not exceed the time from the last meter test or 6 months,
31		whichever is less.
32		
33	B.	Additionally, more frequent tests will also be made at the request of the customer. However,
34		in the event the meter is found to register within 2% plus or minus, the customer will be
35		required to pay a test fee as set forth in the then current Fee Schedule. If the meter is found to
36		exceed the 2% limit plus or minus, the bill may be adjusted accordingly for the preceding six
37		(6) month period or until the previous test, if tested less than six (6) months before, and no
38		charge will be made for the testing.
39		
40	<u>Separa</u>	te Meter for Each Class of Service
41	-	the customer receives service under more than one rate schedule, a separate meter must be

41 When the customer receives service under more than one rate schedule, a separate meter must be

1 installed for service under each rate schedule. The customer will be billed under each rate schedule

- 2 based on the measurement registered by the applicable meter and under the applicable rate schedule.
- 3
- 4 Additional Meters; Prohibition on Resale of Electricity

5 Should the customer desire the installation of additional meters other than those deemed necessary by

6 the Electric Department to adequately measure the service taken by the customer, such additional

7 meters shall be provided, installed and maintained at the expense of the customer. Electricity

8 supplied by Utilities is for the exclusive use of the customer. The customer may not, by sub-metering,

9 determine a quantity of electric energy and resell said electric energy with any type of mark-up to any

10 other person or persons on the customer's premises or for use on any other premises.

11 12

13

#### V. MISCELLANEOUS

#### 14 Additional Load

15 If the customer desires a material change in load, the customer shall notify the Electric Department in

writing and in advance of the material change so that, if necessary, the Electric Department may

17 change its line and/or service equipment at customer expense. In the event the customer fails to notify

the Electric Department, and, as a result, the equipment of the Electric Department is damaged, the

19 customer shall be liable for the cost of such damage. Utilities will not be responsible for providing

adequate service in the event that it is not properly notified as set forth herein.

21

#### 22 Attachments to Utility Property

No posters, banners, placards, radio or television aerials, or other objects will be attached to the poles

or other utility property of Utilities. Any attachment to Utilities poles or other utility property must

<sup>25</sup> have the express prior written authorization of Utilities. 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.
- 28

### 29 <u>Customer Power Outage</u>

30 If service fails, the customer shall endeavor to determine if blown fuses, tripped breakers, or,

customer equipment is at fault before calling the Electric Department. If an Electric Department

- 32 service employee 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 as set forth in the Fee Schedule adopted by
- 34 Council.
- 35

### 36 Diversion of Electric Energy

37 38 39

A. Definitions. See Utility Code.

B. Prohibited Activity. Energy diversion constitutes theft and a safety hazard. As such, energy diversion is prohibited. Because energy diversion activities are inherently unsafe, discovery

1 2 3 4 5 6 7 8 9		by the Electric Department 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 the requirements of the Electric Department. In any case where energy diversion has occurred and immediate disconnection is effected, Utilities will give notice concurrent with the disconnection or as soon as practicable thereafter and provide an opportunity for hearing as provided in the Utility Code regarding possible resolution of the dispute.
11	C.	Estimated Bill. In all cases where the Electric Department discovers that energy diversion has
12		occurred, Utilities may bill the customer for estimated energy consumed but not properly
13		registered. Such billing shall include, in appropriate circumstances the cost of any consultant
14		retained by Utilities to assist in determining the estimated energy use.
15		
16	D.	Additional Charges. Where Utilities discovers that energy diversion has occurred, Utilities, in
17		its discretion, may charge the customer for the reasonable costs of investigation and the costs
18		resulting from the installation of protective devices by the Utilities.
19	F	
20	E.	Waiver. The foregoing rule and payment by the customer of any charges thereunder in no way
21 22		limits or waives Utilities rights to pursue any and all remedies provided or affects any action or prosecution, under applicable Colorado laws and ordinances of the City of Fountain, absent
23		an express written agreement to the contrary.
24		an express written agreement to the contrary.
25	Servic	e Failures
26		
27	A.	Utilities will endeavor to provide a constant and uninterrupted supply of power and energy to
28		its customers and to avoid service failures, but does not guarantee same. Utilities shall not be
29		liable for any loss or damages, including consequential or special damages, resulting from
30		service failures caused by accidents, acts of God, action of the elements, public enemy, strikes
31		and other work stoppages, wars, authority or orders of government, required maintenance
32		work, equipment breakdown, the unavoidability, restriction or interruption of its wholesale
33		power and energy supply, or any other causes or contingencies beyond its control.
34	л	
35	В.	Service failures include, but are not limited to, phase reversals and/or single phasing of three-
36 27		phase services, voltage transients, frequency deviations, wave shape deviation and service interruptions. In addition to the causes listed above, service failures may result from
37 38		generally accepted utility system design, construction or operating practices and procedures.
30 39		Senerary accepted unity system design, construction of operating practices and procedures.
40	C.	The customer shall provide at its expense any devices necessary for adequate protection of its
41	2.	equipment, processes, products or personnel against such service failures. Utilities shall not

be liable for any loss or damages caused by service failures resulting from utility system
 design, construction or operating practices and procedures unless both the Utilities acted in a
 negligent manner and the loss or damage would have occurred despite the proper installation
 and operation of the appropriate protective devices by the customer.

6 Notice of Trouble

7 In the event service is interrupted or is not adequate, or any hazardous condition is known to exist, it

- shall be the obligation of the customer to promptly notify Utilities of such existing condition.
- 10 Resale of Electric Energy
- 11 Electric energy supplied by Utilities is for the exclusive use of the customer. The customer may not,
- by sub-metering, determine a quantity of electric energy and resell said electric energy to any other
- 13 person or persons on the customer's premises or for use on any other premises. A master meter
- 14 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. In that event, Utilities reserves the right to check said meters and
- evaluate the reimbursement procedure to protect against inequities and guarantee that the customer is
- not reselling the electric energy. Utilities' reserves the right to refuse to furnish electric service to any
- 19 customer where the purchase of such service is for the purpose of resale by the customer to others. In
- 20 the event electric energy is sold in conflict with this rule, Utilities shall have the right to discontinue
- service to the offending customer.
- 22

5

#### 23 <u>Right of Access</u>

- Access to the premises of customers shall be provided by the customer at all reasonable times for
- authorized employees of the Electric Department for any proper purpose incidental to the supplying of
- electric service. This includes, but is not limited to, reading meters and testing, inspecting, repairing
- or replacing any equipment which is the property of Utilities; investigating possible energy diversion;
- and responding to emergency circumstances to protect the public safety and welfare. If access to the property or any equipment is limited in any fashion, the customer shall take all steps, including the
- 25 property of any equipment is inflited in any rasmon, the customer shart take an steps, including 30 provision of keys where necessary, to provide access to the Electric Department's authorized
- employees or contractors. All easement areas shall be maintained for adequate access to Utilities
- equipment. Utilities shall have the right to remove any obstruction at the customer's expense if the
- customer does not correct the access problem within 72 hours after notification of the problem. In the
- case of an emergency, Utilities may correct the access problem without notice.
- 35
- 36 <u>Complaints</u>
- 37
- A. Utilities will investigate promptly all complaints by its customers. Utilities will keep for at
  least two (2) years, a record of all written complaints including:
- 40 41
- 1. The complaint itself;

1	2.	The date received;
2		The date finally disposed; and
3	4.	The actual disposition of the complaint.
4		
5	B. The fo	ollowing procedure governs complaints to Utilities:
6		
7	1.	A customer may contact Utilities informally by telephone or in person to attempt to
8 9		resolve any complaint. The appropriate staff person will investigate the complaint and may take appropriate action.
10		
11	2.	If the customer is not satisfied with the outcome of the informal complaint process, the
12		customer may request a formal hearing pursuant to provisions contained in the Utility
13		Code.
14		
15	<b>Computation</b>	<u>of Time</u>
16	1 0	any period of time required or allowed by these Regulations, the day of the act, event,
17	U	livery from which the designated period of time begins to run shall not be included. The
18	•	e period so computed shall be included unless it is a Saturday, Sunday or a City of
19		erved holiday, in which event the period runs to the end of the next day which is not a
20		nday or observed holiday. All references to a number of "days" herein, shall refer to
21	calendar days	and not working days, unless indicated otherwise.
22		
23	Line Extension	on Policy
24		
25		al Information. The Electric Department is responsible for the standards; electrical
26	•	eering and design associated with all Utilities-owned and maintained electric facilities.
27		ectric distribution systems will comply with the requirements outlined in these ations and the "Line Extension and Service Standards" ("Electric Specifications"), as
28 29	-	ations and the "Line Extension and Service Standards" ("Electric Specifications"), as ed by the Utilities Director. Line extensions will begin at the closest suitable point of the
29 30	-	ic distribution system, as determined by the Electric Department. The developer or
31		r will be responsible for acquisition of easements outside of developing areas that may be
32		d for system upgrades in order to serve the project. Utilities shall own, install, and
33		ain all primary voltage systems, including transformers. The developer or owner shall
34		l construction and installation costs required for street lighting systems designed by the
35		ic Department along public roadways within the development, and the appropriate
36		n of costs required for street lighting systems along public roadways contiguous to the
37	-	opment.
38		-
39	B. Reside	ential Service Extensions. Residential subdivision developments within the Utilities
40	electri	ic service territory will incorporate front of lot underground facilities, with a redundant
41	loop f	eed to ensure reliability. Individual building lots within areas with established overhead

1		facilities and rural subdivision developments may incorporate either overhead or underground	
2		facilities pursuant to the requirements of the Electric Specifications. Underground installations	
3		will utilize pad mounted transformers. Available single phase voltage will be 120/240 volts.	
4		The extension will end at the customer's point of delivery and the responsibility for service	
5		facilities is:	
6			
7		1. Meter Pedestals: The customer will install, own, and maintain the service facilities	
8		from the meter pedestal. These facilities shall be in accordance with the requirements	
9		of the NEC and the Pikes Peak Regional Building Department.	
10			
11		2. Secondary Junction Vaults: Where secondary junction vaults have been installed in	
12		residential subdivisions in lieu of pedestals, the Electric Department will install the	
13		secondary service to the home. The customer will install the meter housing and	
14		associated wiring on the home. Customer installed facilities shall be in accordance	
15		with the requirements of the NEC and the Pikes Peak Regional Building Department	
16		or governing inspection agency.	
17			
18		3. Overhead and the secondary voltage system: Utilities will own, operate and maintain	
19		service wiring to the service mast. The customer will own, install, and maintain the	
20		service facilities including the mast and attachment point for the secondary service	
21		wire drop that is secure and provides proper NESC clearance for associated wiring.	
22		Customer installed facilities will be in accordance with NEC requirements and be	
23		inspected and approved by the Pikes Peak Regional Building Department or governing	
24		agency.	
25			
26	C.	Connections	
27			
28		1. Underground Service: All connections to Utilities-owned facilities must be made by	
29		Electric Department personnel.	
30			
31		2. Overhead Service: Under standard practice, Electric Department personnel will	
32		connect the Utilities-owned service drop to the customer-owned mast wiring.	
33	Б		
34	D.	Procedures. To initiate the design and cost estimating process for residential development, the	
35		builder or developer shall contact the Electric Department for project coordination.	
36 27	Б	Costs. The on-site and off-site cost will be paid by the developer or builder or other	
37 38	с.	responsible party.	
30 39		responsible party.	
40		"On-site" refers to facilities directly associated with service to the development or building	
40 41		and/or facilities physically located on the development or building site.	
77		and of furthers physically foculed on the development of building site.	

1		<b>Off-site</b> " refers to facilities directly associated with service to the development or building	
2		ite that are not located on the development or building site.	
3		The cost will be the total of material, labor, labor overheads, equipment, Utilities	
		ubcontracted work associated with the project, and engineering/administration costs, based	
4		on standard estimating procedures established by the Electric Department. Additionally, a lin	10
5		xtension fee will be charged to the builder or other responsible party for the cost associated	ic
6		with the service line from the residential meter to the source of power together with the	
7 8		nstallation cost. This line extension fee is collected as part of the permit fee issued by the	
o 9		City Clerk. Currently, that fee is \$500.00. Any change to this line extension fee will be	
10		posted in these Regulations. The developer or builder is responsible for paying all costs	
10		equired for street lighting systems within the development, and the appropriate portion of	
12		osts required for street lighting along public roadways adjacent to the development. A System	m
13		Development Charge (SDC) for all new electric services is required. Specific details of the	111
14		SDC are found in the electric rate schedule entitled "System Development Charge" as	
15		pproved by the City Council. Payment will be made as required by Utilities.	
16		pproved by the entry countent. I dynamic will be made as required by ounties.	
17	F	Commercial/ Industrial Service Extensions. Installation and Ownership of Facilities.	
18	1.	Inderground installations will utilize pad mounted transformers. Overhead installations are	
19		imited to a maximum transformer size of 150 kVA.	
20			
21		1. Underground: The customer will own, install, and maintain the service facilities from	
22		the transformer secondary spades to the facility. Customer installed facilities will be in	
23		accordance with NEC requirements and be inspected and approved by the Pikes Peak	
24		Regional Building Department or governing agency.	
25			
26		2. Overhead: Utilities will own service wiring up to the service mast. The customer will	
27		own, install, and maintain the service facilities including the mast, an attachment poin	
28		for the secondary service wire that is secure and provides proper NESC clearance, and	
29		associated wiring. Customer installed facilities will be in accordance with NEC	
30		requirements and be inspected and approved by the Pikes Peak Regional Building	
31		Department or governing agency.	
32			
33		3. Primary Meter Service: Utilities will own, install, and maintain all primary voltage	
34		facilities up to and including the customer's metering point. The customer will own,	
35		install, and maintain all facilities on the load side of the metering point unless	
36		determined otherwise by individual contract. All customer facilities will be in	
37		accordance with NESC and NEC requirements.	
38			
39		4. Connections of Service Facilities: Customer-owned facilities must be inspected and	
40		approved by the Pikes Peak Regional Building Authority or appropriate governing	
41		agency prior to final connection to the Utilities-owned facilities and/or system.	

1		
2		5. Underground Service: All connections to Utilities-owned facilities will be made by
3		Electric Department personnel. Unless specifically approved by the Electric
4		Department, the customer will install cable of sufficient length for termination.
5		
6		6. Overhead Service: Under standard practice, Electric Department personnel will
7		connect the Utilities owned service drop to the customer-owned mast wiring.
8		
9	G.	Procedures: To initiate the design and cost estimating process for Commercial/ Industrial
10		Service Extensions, the builder or developer shall contact the Electric Department for project
11		coordination
12		
13		
14	Н.	Residential Service Modifications. The service modification may include a meter relocation,
15		electric panel upgrade, conversion from overhead to underground, etc., and may include the
16		customer's point of delivery. The responsibility for service facilities is:
17		
18		1. Overhead service to underground service modification. The Electric Department will
19		furnish and install conduit and wire from pole to meter housing. The customer or
20		owner will furnish trench from pole to meter housing and backfill after conduit and
21		wire is installed. Customer is responsible for converting from an overhead mast to an underground service entrance including the mater seeket.
22		underground service entrance including the meter socket.
23		2. 100 amp underground to 200 amp underground service modification. Utilities will
24		furnish and install the conduit and service wire from the transformer or junction box to
25 26		the meter pedestal. Owner may provide a trench in accordance with Utilities trench
27		specifications, or, pay the Electric Department the cost to trench from the transformer
28		to the new meter location.
29		
30		3. 100 amp overhead to 200 amp overhead service modification. Utilities will furnish
31		service wiring up to the service mast. The customer will install 200 amp service
32		facilities including the mast and an attachment point for the secondary service.
33		
34		All service modifications must be approved by Pikes Peak Regional Building Department or
35		appropriate governing agency prior to final connection to Utilities-owned facilities and/or
36		system. All connections to Utilities-owned facilities will be made by Electric Department
37		personnel.
38		
39	I.	Procedures. To initiate the design cost estimating process for residential modification the
40		customer shall contact the Electric Department for project coordination.
41		

J. The costs associated with the service modification is established in the Line Extension and

1

Service Standards and will be paid by the customer or other responsible party. Payment shall 2 be made as required by Utilities. 3 4 Commercial/Industrial Service Modifications 5 6 7 Service Modification 8 The service modification may include meter relocation, electric panel upgrade, etc., and will include 9 the customer's point of delivery. The customer is responsible for all modification and all cost of 10 material, labor, equipment, Utilities subcontracted work associated with the project, and engineering/ 11 administration costs, based on standard estimating procedures established by the Electric Department. 12 These costs may include the relocation or alteration of existing electric facilities necessitated by the 13 project. Payment shall be made as required by Utilities 14 15 **Cogeneration and Small Power Production** 16 17 A. The Federal Energy Regulatory Commission ("FERC") has promulgated regulations with 18 regard to small power production and cogeneration (Part 292 of Title 18 of the Code of 19 Federal Regulations (1984). As required by Federal law, Utilities, as a nonregulated electric 20 utility, will implement the requirements of the FERC regulations through this rule. 21 22 B. This rule applies to all qualifying cogeneration and small power production facilities 23 ("qualifying facilities"), as defined in the FERC regulations, which are willing and able to 24 enter an agreement with Utilities. This rule represents general guidelines, since the nature, 25 size and character of qualifying facilities may vary widely. Utilities' reserves the right to 26 evaluate each qualifying facility on a case-by-case basis. 27 28 C. Utilities shall purchase energy, or, if satisfactory conditions have been met, capacity and 29 energy, from any qualifying facility who offers to sell energy or capacity and energy. The 30 standard rates for purchases from qualifying facilities with a design capacity of 100kw or less 31 are set forth on the appropriate rate schedule of Utilities as approved by the City Council. 32 Rates for purchases from qualifying facilities with a design capacity in excess of 100kw shall 33 be established by contract on a case-by-case basis. 34 35 D. In establishing rates for purchases from qualifying facilities, Utilities shall consider the criteria 36 set forth in the FERC's regulations at 18 C.F.R. §292.304(e). Such rates shall: be just and 37 reasonable, be in the public interest, and not discriminate against qualifying facilities. 38 Whether capacity payments shall be made and the amount of capacity to be credited to a 39 qualifying facility shall be determined based upon the criteria established by Utilities pursuant 40 to 18 C.F.R. §292.304(e). Said criteria include, but are not limited to, reliability, availability, 41

dispatch ability, the avoided cost of the Utilities wholesale suppliers, the type of equipment, 1 degree of coordination with the Utilities power supply sources and the Utilities ability to avoid 2 capacity costs. 3 4 E. In the event of the imposition of any tax or payment in lieu thereof on the Utilities, by any 5 lawful authority, on the production, transmission, sale or purchase of energy or capacity and 6 7 energy that would not occur in the case of a comparable non-generating customer, such tax shall be paid by the qualifying facility. 8 9 F. Upon notification to the qualifying facility, Utilities may discontinue its purchases from the 10 qualifying facility if Utilities determines that purchases from the qualifying facility would 11 result in costs greater than those that the Utilities would incur if it did not make such 12 13 purchases. 14 G. Utilities will determine the appropriate equipment required to meter capacity and/or energy 15 provided by the qualifying facility. This equipment shall be installed, maintained and read at 16 the expense of the qualifying facility. 17 18 H. Utilities will provide electric service to all qualifying facilities located in its service territory 19 pursuant to its standard applicable rate schedules and the Utilities rules and regulations 20 governing electric service. Supplementary, back-up, maintenance and interruptible power may 21 be provided to qualifying facilities, upon request, at a contract rate determined on a case-by-22 case basis. 23 24 I. Utilities must be consulted in advance of any construction or operation by a qualifying facility. 25 The qualifying facility shall provide to Utilities all information requested by the Utilities 26 relevant to the proposed construction and operation of the qualifying facility. Utilities will 27 evaluate each proposal on a case-by-case basis and may prescribe reasonable terms and 28 conditions governing construction, operations and interconnection of the qualifying facility. 29 30 J. Utilities may require the execution of a written agreement prior to interconnection containing 31 such terms and conditions as deemed reasonable by the Utilities governing the relationship 32 between Utilities and the qualifying facility. In all cases where the design capacity of the 33 qualifying facility is in excess of 100kw, a written agreement shall be required. 34 35 K. Any and all costs of interconnection, including those incurred by Utilities, shall be the sole 36 responsibility of the qualifying facility. Utilities will also charge the qualifying facility for 37 administrative costs, consulting and legal fees incurred in processing the qualifying facility's 38 application and negotiating an agreement. 39 40 L. Based on mutual agreement, Utilities, in its discretion, may transmit energy or power and 41

1 2 3		energy, supplied by the qualifying facility, to another utility, pursuant to an appropriate contract, to the extent that transmission capacity is available. Utilities may make an appropriate charge to the qualifying facility for such transmission.
4 5 6 7	M.	Utilities shall provide, upon request, sufficient data to allow a potential qualifying facility to determine the Utilities avoided costs. The data provided will generally conform to the outline provided in 18 C.F.R. §292.302 (1984).
8 9 10 11 12 13 14	N.	The qualifying facility shall comply with all requirements of the National Electrical Safety Code, National Electric Code, American National Standards Institute, Institute of Electrical and Electronic Engineers, American Society of Mechanical Engineers, and any other applicable local, state, or national codes (including any standards prescribed by Utilities) and shall operate its equipment according to prudent utility practice. In case of any conflict in the foregoing codes or standards, Utilities shall decide which shall govern.
15 16 17 18 19 20 21 22	0.	The qualifying facility shall, to the point of interconnection, furnish, install, operate and maintain in good order and repair and without cost to Utilities such relays, locks and seals, breakers, automatic synchronizers, and other control and protective equipment as shall be designated by Utilities as being required as suitable for the operation of the qualifying facility in parallel with the Utilities system. The qualifying facility shall take appropriate steps to ensure that operating in parallel will not degrade in any fashion the quality of service to its customers that is normally maintained on the Utilities system.
23 24 25 26	P.	The qualifying facility, at its own expense, must provide switching equipment capable of isolating the qualifying facility from the Utilities system. This equipment must be designated for the exclusive use of Utilities and shall be accessible to Utilities at all times.
27 28 29 30 31 32 33 34 35 36	Q.	Utilities, in its sole discretion and without notice or liability, may choose to operate the switching equipment described above if, in the opinion of Utilities continued operation of the qualifying facility in connection with the Utilities system may create or contribute to a system emergency or safety hazard. Utilities failure to operate such equipment shall not relieve the qualifying facility of liability for any damage resulting to the Utilities system. Utilities obligation to purchase from the qualifying facility ceases when Utilities operates the switching equipment described above. Utilities shall endeavor to minimize any adverse effects of such operation on the qualifying facility.
36 37 38 39 40 41	R.	The qualifying facility shall indemnify and hold harmless Utilities from any and all liability arising from the operation and interconnection of the qualifying facility. The qualifying facility shall bear full responsibility for the installation and safe operation of the equipment required to generate and deliver energy or capacity and energy to the point of interconnection. All facilities constituting the qualifying facility are subject to the inspection and approval of

1 2		Utilities, as often as deemed necessary by Utilities, at any time after construction has begun. This right to inspection shall continue after the qualifying facility has interconnected with
3		Utilities. Utilities shall also have a right to inspect maintenance schedules and records. Such
4		inspection or approval of facilities shall not be construed to endorse their design, warrant
5		safety, durability or reliability, or waive any of the Utilities rights. The inspection and
6		approval shall be solely for the use of Utilities. The qualifying facility must, at the request of
7		Utilities, modify existing facilities or install additional facilities to comply with the existing or
8		changing requirements of the Utilities system.
9		
10	S.	The qualifying facility shall be required to procure and maintain such insurance as is deemed
11		necessary by Utilities, solely at the expense of the qualifying facility.
12		
13	T.	Utilities may, without cost or liability, discontinue purchases from the qualifying facility;
14		
15		1. To allow Utilities to perform maintenance, tests or repairs on the qualifying
16		interconnection facilities;
17		
18		2. During a system emergency where continuing purchases would contribute to such
19		emergency;
20		
21		3. When the operation of a qualifying facility is jeopardizing the integrity of the Utilities
22		system or interfering with the service to customers or other sources of generation and
23		transmission on the Utilities system; or
24		
25		4. When monitoring or inspection by Utilities of the qualifying facility reveals a
26		condition hazardous, in Utilities opinion, to the Utilities system or a lack of scheduled
27		maintenance or maintenance records for equipment necessary to protect the Utilities
28		system.
29		
30	U.	The qualifying facility shall obtain and supply all easements necessary for operation and
31		maintenance of those interconnection facilities owned by Utilities on the property of the
32		qualifying facility or a third party. This shall include the switching equipment designated
33		above and necessary metering equipment.
34		
35		
36		