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Rocky Mountain Power Developer Guide

Project process flow

Step	Who	Activity/Process
1	Developer	Developer submits conceptual development to city/county.
2	City/county	City/county engineer or planner discusses with developer land use requirements, zoning and infrastructure needs. City/county engineer or planner refers developer to utilities to obtain service letter.
3	RMP	Rocky Mountain Power estimator confirms that power can be provided to the location and mails service letter. Note: if load in excess of 1 MW then a System Impact Study (SIS) may be required.
4	Developer	Developer initiates request for electricity service by calling Rocky Mountain Power's Builder's Hotline at 1-800-469-3981 to get a work request number. Service must be requested in the name of the entity that Rocky Mountain Power will be working with throughout the project.
5	RMP	Rocky Mountain Power service coordinator will contact the developer within two business days of the request to set an appointment with a Rocky Mountain Power estimator.
6	Developer/RMP	Developer provides Rocky Mountain Power estimator with load size, site plans and other information about the development project (a completed customer information sheet). Estimator provides developer with electric service requirements manual.
7	Developer/RMP	Developer obtains necessary signatures on plat. RMP signs/stamps plat acknowledging existence of utility easements. Note - See example of "stamp" on next page.
8	City/county	City/county reviews preliminary plat design and approves for planning and zoning commission agendas.
9	Developer	Developer takes signed plat and preliminary plat design to city/county for planning commission meeting and approval.
10	City/county	Planning and zoning commission issues ruling with any conditions required.
11	RMP	RMP estimator creates final electric infrastructure design and final cost estimate for plan as approved.
12	RMP	RMP issues contract to developer.
13	Developer	Developer signs and returns the contract to Rocky Mountain Power with required fees.
14	Developer	Developer provides RMP with recorded plat or blanket easement.
15	RMP	RMP orders material. Lead time for some material may be as long as 12 weeks.
16	Developer	Developer installs trenching, conduit and road crossings based on RMP standards and design.
17	RMP	RMP inspects trenching and conduit.
18	Developer	Developer makes corrections based on inspection.
19	RMP	RMP schedules and performs work.
20	RMP	RMP does final inspection.
21	Developer	Developer records plat.

Note from Step 7:

1. Pursuant to Utah Code Ann. § 54-3-27 this plat conveys to the owner(s) or operators of utility facilities a public utility easement along with all the rights and duties described therein.
2. Pursuant to Utah Code Ann § 17-27a-603(4)(c)(ii) Rocky Mountain Power accepts delivery of the PUE as described in this plat and approves this plat solely for the purpose of confirming that the plat contains public utility easements and approximates the location of the public utility easements, but does not warrant their precise location. Rocky Mountain Power may require other easements in order to serve this development. This approval does not affect any right that Rocky Mountain Power has under:
 - (1) a recorded easement or right-of-way
 - (2) the law applicable to prescriptive rights
 - (3) Title 54, Chapter 8a, Damage to Underground Utility Facilities or
 - (4) any other provision of law

Rocky Mountain Power

Developer checklist

- Initiate a request by calling Rocky Mountain Power's Builder's Hotline at **1-800-469-3981**. All activities associated with your project will be tracked with the work request number provided. It will be helpful to have a copy of the Electric Service Requirements guidelines. They are available at www.rockymountainpower.net/esr.
- After you have obtained your work request number, you will be contacted within two business days by a Rocky Mountain Power service coordinator. The coordinator will set an appointment with you to meet with the assigned estimator and discuss your project.
- When you meet with estimator, please have the following items; or be prepared to review the process and timing for ensuring delivery of these items to the estimator:
 - Completed customer information sheet (form attached) if a commercial development. **Note:** loads in excess of 1 MW diversified may require a system impact study.
 - Completed street lighting installation/change request form signed by city or county representative (form attached). This form is required if the city/county will be responsible for monthly street light billings.
 - Copy of **approved** plat. (Once approved plat is presented, estimator will "stamp" the plat. The stamp shall indicate the plat contains public utility easements, but does not warrant their precise location).
- Email a copy of the AutoCAD file of your plat map to your assigned estimator. Once your e-mail is forwarded to our mapping department, it will be posted on our mapping system within 10 business days.
- Once the necessary information is received, the estimator will begin the development design process. When your design is completed, you will receive a contract for your signature and for payment of fees. You must submit a signed contract and any required fees within 90 days of the date on the contract or your project may be closed. If it becomes necessary to update, change or redesign your project, you will be responsible for all associated fees.
- Materials are ordered upon receipt of signed contracts and any required payment. Lead times for some materials may be as long as 12 weeks.
- Once material is received you will be contacted by a Rocky Mountain Power representative who will inspect your job site for readiness. The representative will work with you to determine when Rocky Mountain Power crews will commence work. Plat must be recorded with the approved Public Utility Easement (PUE), or a blanket easement recorded for the development prior to scheduling work on your construction site.
- Rocky Mountain Power will begin work on your construction site when it is 100% ready for full construction as designed.

If you have any questions, please contact the estimator assigned to your project.



Let's turn the answers on.

Key points to remember

- City or County may (or may not) require developer to obtain a “will-serve” letter from Rocky Mountain Power. If required, the letter will be provided by the assigned estimator upon developer’s request.
- City or County may (or may not) require “high-level” electric infrastructure conceptual design prior to approving the development plat. In other words, they may not be satisfied that the plat merely identifies a public utility easement space. If “high-level” conceptual design is required prior to city/county plat approval, please work with the assigned estimator to incorporate design into the development plat. **Note: this preliminary conceptual design process is not normal Rocky Mountain Power procedure, and preliminary design costs will be included in the final project costs. A conceptual design on a plat will be stamped:**

Conceptual Design Only

This conceptual design is intended only to communicate preliminary routes for conductor and preliminary physical locations of facilities and equipment for customer review. Design comments or conceptual approval of this design must be returned before final design work will proceed. Construction, including any excavation and/or placement of conduit(s) and vault(s) may not proceed until an agreement has been signed and any advances due have been paid. Further, Construction may not proceed until after meeting with a Rocky Mountain Power inspector. If conduit(s) and vault(s) are placed prior to the above requirements being met, they may not be accepted and, if not accepted, will require reinstallation at customer expense. If no change or comments are needed for this design, please sign below and return to the Rocky Mountain Power estimator; otherwise, please contact the estimator.

Design is only valid for 90 days.

Date Issued: _____

Customer’s Conceptual Approval: _____

Title: _____

Customer Approval Date: _____

- Ensure transformer pads and meter locations meet Electric Service Requirements guidelines.
- Install trenches and road crossings that match job design and are at proper depths.
- Ensure conduit is not plugged or broken and does not have too many bends.
- Install schedule 40, gray conduit with pull rope capable of 500-pound test.
- Clearly mark property lines.
- Ensure that conduit sweeps for surface-mounted equipment are at the required distance from back of the curb.
- Install correct elbows on conduit sweeps (see Electric Service Requirements page 33).
- Establish final grade with curb and gutter so that surface-mounted equipment is installed at proper heights and trenches at proper depths.



12840 Pony Express Road
Draper, Utah 84020

June 29, 2016

To Whom It May Concern:

This is to advise you of our ability to provide electrical service to the name of responsible party or project located at approximate address of the location with the Electric Service Regulations on file. Subject to the rules and tariffs on file with the Utah Public Service Commission and upon completion of necessary contracts and agreements.

Sincerely,

Rocky Mountain Power

Please complete this form and return to the Estimator assigned to your job

Business Information

Business of Customer Name: _____
 Request Number: _____
 Address: _____
 Person responsible for advance and contract billing (if different than monthly billing customer):
 Name: _____ Address: _____ Phone No.: _____
 E-mail Address: _____ Fax No: _____
 Building Square Footage: _____ *Note: breakdown into use (i.e.: office, warehouse)*
 Hours of Operation (include days & hours): _____

Service Description

Desired Secondary Voltage: 3 Phase 120/208v 3 Phase 277/480v
Note: Not all voltages may be available 1 Phase 120/240v 1 Phase 120v Only Other _____
 Panel Size (in Amps): _____ Total number of meters: _____
 Nearest Pole or Equipment number: _____ Type of Service Desired: Overhead Underground
 Electrical Contractor: _____ Phone No.: _____

Load List (attach additional sheets if necessary)

Description	Phase and Voltage	New Load to be added	Load to be removed	Total Connected Load after changes	Unit
HVAC (name plate rating)					Tons*
Refrigeration Equipment					Tons*
Total (do not convert to kW) :					Tons
Exhaust Fans					HP
Gas/Fuel/Sump Pump					HP
Small Motors					HP
Air Compressor					HP
Swimming Pool					HP
Largest Motor (not included above)					HP
Total (do not convert to kW) :					HP
Electric Heat					kW
Water Heating					kW
Lighting					kW
Outlets					kW
Office Equipment					kW
Kitchen Equipment					kW
Computers, Magnetic Power Supplies					kW
Machinery					kW
Thermoplastic Injection Equipment					kW
Elevators					kW
Boiler					kW
Snow Melting					kW
Signs					kW
X-Ray Equipment					kW
Washer/Dryer					kW
Miscellaneous					kW
Heat Exchanger					kW
Humidifier					kW
Future					kW
Total:					kW

It is important to provide the most accurate information available, as it is used by the Estimator to design PacifiCorp's facilities and determine the customer's costs. Please sign and date this form before giving it to your estimator.

Customer Signature

Date

Note:

- *You may wish to consult a trained professional (electrician, engineer, etc.) prior to providing the information to your estimator.*
- *Commercial metering can have many restrictions that should be discussed with the estimator prior to the purchase and installation of your metering equipment. There are also restrictions regarding master metering. If your plans call for master metering, please discuss this with your estimator.*
- *Motors larger than 35hp three phase or 5hp single phase will require approval by our engineering department prior to installation in order to determine the acceptable starting current.*

Note:

- *You may wish to consult a trained professional (electrician, engineer, etc.) prior to providing the information to your estimator.*
- *Commercial metering can have many restrictions that should be discussed with the estimator prior to the purchase and installation of your metering equipment. There are also restrictions regarding master metering. If your plans call for master metering, please discuss this with your estimator.*
- *Motors larger than 35hp three phase or 5hp single phase will require approval by our engineering department prior to installation in order to determine the acceptable starting current.*

(UT Apr2016)

Account #:
Service ID #:

Estimator's name
C/C:
Request #:
Contract #:

SUBDIVISION DISTRIBUTION SYSTEM CONTRACT
between
ROCKY MOUNTAIN POWER
and
//CUSTOMER'S NAME//

This **Subdivision Distribution System Contract** ("Contract"), dated _____ is between Rocky Mountain Power, an unincorporated division of PacifiCorp ("Company"), and **//Customer's Name//** ("Customer"), for an electrical **Distribution System** for Customer's development to be known as _____ (the "Development"); located at or near _____, Utah, for _____ lots within the Development.

Company's filed tariffs (the "Electric Service Schedules") and the rules (the "Electric Service Regulations") of the Utah Public Service Commission ("Commission"), as they may be amended from time to time, regulate this Contract and are incorporated into this contract. In the event of any conflict between this Contract and the Electric Service Schedules or the Electric Service Regulations, such schedules and rules shall control. They are available for review at Customer's request.

1. **Delivery of Power.** Company will provide 120/240 volt, single-phase electric service, within the Development, to the said lots at the lot lines.
2. **Extension Costs.** Company agrees to invest \$ _____ (the "Extension Allowance") in improvements (the "Improvements") related to the Distribution System, and Customer agrees to pay Company the estimated construction costs in excess of the Extension Allowance ("Customer Advance"). Customer has paid for engineering, design, or other advance payment for Company's facilities in the amount of \$0.00, which amount is reflected in the balance due in the Customer selected option below. (**Customer must initial** selected option on the blank space at the beginning of the option and pay the balance due given in that option.)

_____ **Refund Option.** The total Customer Advance for this work is \$0.00, the **balance due is \$0.00**. This Advance has both refundable and non-refundable elements. Customer's advance includes \$0.00 for improvements that may be utilized by customers or developers outside the Development (Refundable Advance). If additional customers connect to the Improvements within ten (10) years of the date Company is ready to supply service, Company will refund 20% of the refundable Customer Advance allocable to the **shared** Improvements for four additional applicants. Company will try to inform Customer when a refund is due. However, in the event Company is unable to locate Customer or has not identified that a refund is due, **Customer is responsible for requesting a refund** within twenty-four (24) months of the additional applicant connecting to the Improvements.

_____ **Contract Administration Credit Option.** Customer chooses to receive a Contract Administration Credit of **\$250 and waives their right to refunds should additional**

applicants connect to the Improvements outside the Development. Accordingly, **the balance due is \$0.00.**

3. Customer Obligations. Customer agrees to:

- a) Provide legal rights-of-way to Company, at no cost to Company, using Company's standard forms. This includes rights-of-way on Customer's property and/or adjoining property and any permits, fees, etc. required to cross public lands;
- b) Prepare the route to Company's specifications;
- c) Comply, and pay for any costs necessary to comply, with all of Company's tariffs, procedures, specifications and requirements; and,
- d) Repair, or pay for the repair of, any damage to Company's facilities except damage caused by the negligence of Company.

4. Underground Facilities. If service is provided by an underground line extension, Customer will provide, or Company will provide at Customer's expense, all necessary trenching and backfilling, and will furnish and install all distribution transformer pads and other equipment foundations, conduit and duct required by Company. Company may abandon in place any underground cables installed under this Contract that are no longer useful to Company.

Customer also agrees to:

- a) Establish final grade for routing of circuits, placement of transformer pads, vaults, junction boxes and other underground facilities as required by Company;
- b) Install and maintain property lines and survey stakes;
- c) Install all Customer provided trench, conduit, equipment foundations, or excavations for equipment foundations within the legal rights-of-ways; and,
- d) Make no permanent surface improvements, except curb and gutters, before Company completes installation of its facilities.

Customer warrants that all Customer provided trench and excavations for equipment foundations, and Customer installed conduit and equipment foundations are installed within legal rights-of-way, and conform to the specifications in Company's Electric Service Requirements Manual, and other specifications as otherwise provided by Company. In the event Customer fails to comply with the foregoing, Customer shall be liable for the cost to Company for relocating the facilities within a legal right-of-way, acquiring right-of-way for Company facilities, repair or replacement of improperly installed conduit or foundations, and paying costs for damages that may arise to any third party as a result of Company facilities being located outside of a legal right-of-way.

If any change in grade, property lines, or any surface improvements require Company to change its facilities, or causes additional cost to Company, Customer agrees to reimburse Company for such change or cost. The provisions of this paragraph 4 shall survive the termination of this Contract.

5. Effective. This Contract will expire unless Customer:

- a) Signs and return an original of this Contract along with any required payment to Company within ninety (90) days of the Contract date shown on page 1 of the Contract; and

- b) Is ready to receive service within one-hundred fifty (150) days of the Customer signature date at the end for this Contract.

6. Special Provisions:

- 7. Design, Construction, Ownership and Operation.** Company shall design, construct, install, and operate the Improvements in accordance with Company's standards. Company will own the Improvements, together with Company's existing electric utility facilities that serve or will serve Customer. Construction of the Improvements shall not begin until (1) both Company and Customer have executed (signed) this Contract, and (2) all other requirements prior to construction have been fulfilled, such as permits, payments received, inspection, etc. Any delays by the Customer concerning site preparation and right-of-way acquisition or trenching, inspection, permits, etc. may correspondingly delay completion of the Improvements.

Company warrants that its work in constructing and maintaining the Improvements shall be consistent with prudent utility practices. **COMPANY DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTY OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE, AND SIMILAR WARRANTIES.** Company's liability for breach of warranty, defects in the Improvements, or installation of the Improvements shall be limited to repair or replacement of any non-operating or defective portion of the Improvements or Company's other electric utility facilities. Under no circumstances shall Company be liable for other economic losses, including but not limited to consequential damages. Company shall not be subject to any liability or damages for inability to provide service to the extent that such failure shall be due to causes beyond the reasonable control of Company.

No other party, including Customer, shall have the right to operate or maintain Company's electric utility facilities or the Improvements. Customer shall not have physical access to Company's electric utility facilities or the Improvements and shall engage in no activities on or related to Company's electric utility facilities or the Improvements.

- 8. Governing Law; Venue.** All provisions of this Contract and the rights and obligations of the parties hereto shall in all cases be governed by and construed in accordance with the laws of the State of Utah applicable to contracts executed in and to be wholly performed in Utah by persons domiciled in the State of Utah. Each party hereto agrees that any suit, action or proceeding in connection with this Contract may only be brought before the Commission, the Federal courts located within the State of Utah, or state courts of the State of Utah, and each party hereby consents to the exclusive jurisdiction of such forums (and of the appellate courts therefrom) in any such suit, action or proceeding.
- 9. Remedies; Waiver.** Either party may exercise any or all of its rights and remedies under this Contract, the applicable Electric Service Regulations, the applicable Electric Service Schedule and under any applicable laws, rules and regulations. No provision of this Contract, the Electric Service Regulations, or the applicable Electric Service Schedule shall be deemed to have been waived unless such waiver is expressly stated in writing and signed by the waiving party.
- 10. Assignment.** Company may at any time assign its rights and delegate its obligations under this Contract to any: affiliate; successor in interest; corporation; or any other business entity in conjunction with a merger, consolidation or other business reorganization to which

Company is a party.

11. **Attorneys' Fees.** If any suit or action arising out of or related to this Contract is brought by any party, the prevailing party or parties shall be entitled to recover the costs and fees (including, without limitation, reasonable attorneys' fees, the fees and costs of experts and consultants, copying, courier and telecommunication costs, and deposition costs and all other costs of discovery) incurred by such party or parties in such suit or action, including, without limitation, any post-trial or appellate proceeding, or in the collection or enforcement of any judgment or award entered or made in such suit or action.
12. **Waiver of Jury Trial.** TO THE FULLEST EXTENT PERMITTED BY LAW, EACH OF THE PARTIES HERETO WAIVES ANY RIGHT IT MAY HAVE TO A TRIAL BY JURY IN RESPECT OF LITIGATION DIRECTLY OR INDIRECTLY ARISING OUT OF, UNDER OR IN CONNECTION WITH THIS CONTRACT. EACH PARTY FURTHER WAIVES ANY RIGHT TO CONSOLIDATE ANY ACTION IN WHICH A JURY TRIAL HAS BEEN WAIVED WITH ANY OTHER ACTION IN WHICH A JURY TRIAL CANNOT BE OR HAS NOT BEEN WAIVED.
13. **Entire Agreement.** This Contract contains the entire agreement of the parties with respect to the subject matter, and replaces and supersedes in their entirety all prior agreements between the parties related to the same subject matter. **This Contract may be modified only by a subsequent written amendment or agreement executed by both parties.**

//CUSTOMER'S NAME//

ROCKY MOUNTAIN POWER

By _____
signature

By _____
signature

NAME (type or print legibly) TITLE

NAME (type or print legibly) TITLE

DATE

DATE

Customer's Mailing Address for Executed Contract

Rocky Mountain Power's Mailing Address for Executed Contract

ATTENTION OF

ADDRESS

ADDRESS

CITY, STATE, ZIP

CITY, STATE, ZIP

Return to:
Rocky Mountain Power
Lisa Louder/_____
1407 West North Temple Ste. 110
Salt Lake City, UT 84116

BLANKET EASEMENT

For good and valuable consideration, //name of developer//, (“Grantor”), hereby grants to Rocky Mountain Power, an unincorporated division of PacifiCorp, its successors and assigns, (“Grantee”), a blanket easement for the construction, reconstruction, operation, maintenance, repair, replacement, enlargement, and removal of electric power transmission, distribution and communication lines and all necessary or desirable accessories and appurtenances thereto, including without limitation: supporting towers, poles, props, guys and anchors, including guys and anchors; wires, fibers, cables and other conductors and conduits therefore; and pads, transformers, switches, vaults and cabinets, on, over, or under the surface of the real property of Grantor in //County// County, State of Utah more particularly described as follows and as more particularly described and/or shown on Exhibit A attached hereto and by this reference made a part hereof:

Legal Description:

Prior to recording the subdivision plat and extinguishing this Blanket Easement, Grantee shall verify to its sole satisfaction and at the sole cost to Grantor, that the legal description of the public utility easement or easements as shown on the subdivision plat attached on Exhibit A, match the actual location of all facilities installed pursuant to this blanket easement. In the event the actual location of the installed facilities differs from the legal description of the public utility easement(s) on the subdivision plat, Grantor shall: (1) pay all costs to relocate such facilities to areas entirely within the public utility easements as described on the subdivision plat; or (2) modify the public utility easements on the subdivision plat to reflect the actual location of all installed facilities, at sole cost to Grantor; or (3) provide an easement to Grantee at Grantor’s sole cost and expense, for the specific location of the installed facilities. If Rocky Mountain Power is satisfied, in its sole discretion, that all facilities installed pursuant to this Blanket Easement are located entirely within the designated utility easements on the subdivision plat, this easement shall be extinguished, at sole cost to Grantor, upon the recording of the subdivision plat map attached hereto as Exhibit A.

Together with the right of access to the right of way from adjacent lands of Grantor for all activities in connection with the purposes for which this easement has been granted; and together with the present and (without payment therefor) the future right to keep the right of way clear of all brush, trees, timber, structures, buildings and other hazards which might endanger Grantee’s facilities or impede Grantee’s activities.

The rights and obligations of the parties hereto shall be binding upon and shall benefit their respective heirs, successors and assigns.

To the fullest extent permitted by law, each of the parties hereto waives any right it may have to a trial by jury in respect of litigation directly or indirectly arising out of, under or in connection with this agreement. Each party further waives any right to consolidate any action in which a jury trial has been waived with any other action in which a jury trial cannot be or has not been waived.

Dated this _____ day of //month//, 20 .

//NAME OF DEVELOPER//, GRANTOR

(Insert 2nd Grantor Name. If none hit space bar), GRANTOR

**** (CHOOSE APPROPRIATE ACKNOWLEDGEMENT AND DELETE THE OTHERS) ******

(to delete have to unprotect by going to Review tab, and selecting the Restrict Editing icon in the Protect box. In the dialogue box that opens, click on Stop Protection. When unwanted acknowledgements are deleted as well as this text, if you want to save the form so you can tab to the fields click on Yes, Start Enforcing Protection, and click on OK in the pop up box – no need to enter a password.)

Acknowledgement by an Individual Acting on His Own Behalf:

STATE OF _____)
) ss.
County of _____)

On this ____ day of _____, 20____, before me, the undersigned Notary Public in and for said State, personally appeared _____ (name), known or identified to me to be the person whose name is subscribed to the within instrument, and acknowledged to me that (he/she/they) executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.

(notary signature)

NOTARY PUBLIC FOR _____ (state)
Residing at: _____ (city, state)
My Commission Expires: _____ (d/m/y)

Acknowledgment by a Corporation, LLC, or Partnership:

STATE OF _____)
) ss.
County of _____)

On this ___ day of _____, 20____, before me, the undersigned Notary Public in and for said State, personally appeared _____(name), known or identified to me to be the (president / vice-president / secretary / assistant secretary) of the corporation, or the (manager / member) of the limited liability company, or a partner of the partnership that executed the instrument or the person who executed the instrument on behalf of said entity, and acknowledged to me that said entity executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.

(notary signature)

NOTARY PUBLIC FOR _____ (state)
Residing at: _____ (city, state)

ROCKY MOUNTAIN POWER
ELECTRIC SERVICE REGULATION NO. 12

STATE OF UTAH

Line Extensions

1. CONDITIONS AND DEFINITIONS

- (a) **Contracts** -- Before building an Extension, the Company may require the Applicant to sign a contract. Where a tenant occupies the service location, the Company may require the property owner to sign the contract.
- (b) **Contract Minimum Billing** -- The Contract Minimum Billing is the greater of: (1) the Customer's monthly bill; or (2) 80% of the Customer's monthly bill plus the Facilities Charges. Customers on a seasonal rate receive an annual Contract Minimum Billing of the greater of (1) the Customer's annual bill; or (2) 80% of the Customer's annual bill plus the Annual Facilities Charge. The Annual Facilities Charge is twelve (12) times the Facilities Charges. Contract Minimum Billings begin on the date service is first made available by the Company, unless a later date is mutually agreed upon. The Applicant or subsequent Customer(s) shall pay the contract minimum billing as specified by this rule.
- (c) **Engineering Costs** -- The Company includes designing, engineering and estimating in its Extension Costs. The Company may require the Applicant to advance the Company's estimated Engineering Costs, but not less than \$200. The Company will apply this advance payment to its Extension Costs. If the Extension Allowance exceeds the Extension Costs, the Company will refund the excess up to the amount of the Applicant's or Customer's advance.

(continued)

ELECTRIC SERVICE REGULATION NO. 12 - Continued

1. CONDITIONS AND DEFINITIONS (continued)

(c) Engineering Costs (continued)

If the Applicant requests changes that require additional estimates, the Applicant must advance the Company's estimated Engineering Costs, but not less than \$200 for each additional estimate. The Company will not refund or credit these payments.

(d) Extension or Line Extension – A branch from, or a continuation of, a Company owned transmission or distribution line. An extension may be single-phase, three-phase, a conversion of single-phase line to a three-phase line or the provision of additional capacity in existing lines or facilities. The Company will own, operate and maintain all extensions made under Regulation 12.

(e) Extension Allowance -- The Extension Allowance is the portion of the Extension that the Company may provide, or allow, without cost to the Applicant. The portion will vary with the class of service that the Applicant requests and shall not exceed the Extension Cost. The Extension Allowance does not apply to additional costs resulting from: additional voltages; duplicate facilities; additional points of delivery; or any other Applicant requested facilities that add to, or substitute for, the Company's standard construction methods or preferred route. The Extension Allowance is not available to Customers receiving electric service under special pricing contracts.

(f) Extension Costs -- Extension Costs are the Company's total costs for constructing an Extension using the Company's standard construction methods, including services, transformers and meters, labor, materials and overhead charges.

(g) Extension Limits -- The provisions of this Regulation apply to Extensions that require standard construction and will produce sufficient revenues to cover the ongoing costs associated with them. The Company will construct Extensions with special requirements or limited revenues under the terms of special contracts.

Examples of special requirements include, but are not limited to, unusual costs incurred for overtime wages, use of special equipment and facilities, accelerated work schedules to meet the Applicant's request, or non-standard construction requirements.

(continued)

ELECTRIC SERVICE REGULATION NO. 12 - Continued

1. CONDITIONS AND DEFINITIONS (continued)

- (h) Facilities Charges** -- The Facilities Charges are those costs associated with the ownership, operation and maintenance of facilities built to provide service and are in addition to rate schedule billings. Schedule 300 specifies the Facilities Charges.
- (i) Recreational Residential Service** -- Geographical areas where, in the Company's judgment, the majority of the dwellings are or will be recreational dwellings shall be designated Recreational Residential Service areas. Recreational dwellings are single unit residential dwellings which are or will be used primarily for recreational or vacation purposes, are not the primary residence of the occupants, and are not generally occupied on a continuous basis.
- (j) Refunds** -- An Applicant who paid a refundable advance on an Extension is eligible for up to four refunds during the first ten years. Within that ten-year period the Applicant may waive any refund that is less than 20% of the Applicant's total refundable advance in order to accept four (4) refunds offering greater value. An Applicant may also waive refunds from future Extension applications from themselves.

For non-waived refunds the additional Applicants must pay the Company, prior to connection, as provided in the section for the original Applicant. The Company will refund such payments to the Applicant(s) who paid the refundable advance. The Company will not collect from additional Applicants any portion of a waived refund.

An Applicant to whom a refund is due, but who the Company has failed to identify or has been unable to locate, has 24 months from the connection of the additional Applicant to request their refund.

- (k) Restrictions** -- An Extension of the Company's facilities is subject to these regulations and other rules and restrictions. These may include but are not limited to: laws of the United States; State law; executive and administrative proclamations; Commission orders or regulations; or, any lawful requirement of a governmental body.

(continued)

ELECTRIC SERVICE REGULATION NO. 12 - Continued

1. CONDITIONS AND DEFINITIONS (continued)

- (l) Routes, Easements and Rights-of-Way** -- The Company will select the route of an Extension in cooperation with the Applicant. The Applicant will acquire and pay all costs of obtaining complete unencumbered rights-of-way, easements, or licenses to use land, and will pay all costs for any preparation or clearing of land the Company may require. Any required easements will be prepared on Company-provided forms. If requested by the Applicant, the Company will assist in obtaining rights-of-way, easements or licenses as described above at the Applicant's expense.
- (m) Regulations Previously in Effect** -- Regulation changes do not modify existing Extension contracts. If a Customer advanced funds for an Extension under a regulation or a contract previously in effect, the Company will make refunds for additional Customers as specified in the previous regulation or contract.
- (n) Service Conductors** -- The secondary-voltage conductors extending from the pole line, the underground secondary-voltage main, a secondary-voltage transformer, or a secondary-voltage switch cabinet to the Point of Delivery.

2. RESIDENTIAL EXTENSIONS

- (a) Extension Allowances**
The Extension Allowance for permanent single residential applications is \$1100. The Extension Allowance for a residential application in a planned development where secondary voltage service is available at the lot line is \$350. The Applicant must advance the costs exceeding the Extension Allowance prior to the start of construction.
- (b) Additional Customers, Advances and Refunds**
A Customer that pays for a portion of the construction of an Extension may receive refunds if additional Customers connect to the Extension. The Customer is eligible for refunds during the first ten years following construction of an Extension for up to four additional Applicants as given in section 1(j) Refunds. Each of these four Applicants utilizing a portion of the initial Extension, for which a refund was not waived, must pay the Company, prior to connection, 20% of the cost of the shared facilities. The Company will refund such payments to the initial Customer.

(continued)

ELECTRIC SERVICE REGULATION NO. 12 - Continued

2. RESIDENTIAL EXTENSIONS (continued)

(c) Remote, Seasonal and Recreational Residential Service

The Company will make Extensions for Remote, Seasonal and Recreational Residential Service according to a written contract. The Applicant shall pay a Contract Minimum Billing for as long as service is taken, but in no case more than 15 years nor less than five years.

Additional Applicants must also contract to pay a Contract Minimum Billing for as long as service is taken, but not to exceed 15 years, and share the Facilities Charges of the existing Customers.

(d) Three Phase Residential Service

Where three-phase residential service is requested, the Applicant shall pay the difference in cost between single-phase and three-phase service.

(e) Transformation Facilities

When an existing residential Customer adds load, or a new residential Customer builds in a subdivision where secondary service is available at the lot line either by means of a transformer or a secondary junction box and the existing transformation facilities or service conductors are unable to serve the increased residential load:

- 1) the facilities upgrade shall be treated as a standard line extension if Customer's demand exceeds the capacity of the existing facilities;
- 2) the facilities upgrade shall be treated as a system improvement and not be charged to the Customer if the Customer's demand does not exceed the capacity of the existing facilities.

(f) Underground Extensions

The Company will construct Extensions underground when requested by the Applicant or if required by local ordinance or conditions. The Applicant shall provide all trenching and backfilling, imported backfill material, conduits, and equipment foundations that the Company requires for the Extension.

If the Applicant requests, the Company will provide and install these items at the Applicant's expense. The Applicant must also pay for the conversion of any existing overhead facilities to underground, under the terms of Section 6 of this Regulation.

(continued)

ELECTRIC SERVICE REGULATION NO. 12 - Continued

3. NONRESIDENTIAL EXTENSIONS

(a) Extension Allowances - Delivery at 46,000 Volts and above

The Company will grant Customers taking service at 46,000 Volts or above an Extension Allowance of the metering necessary to measure the Customer's usage.

Other than the Extension Allowance, the Customer is subject to the same Extension provisions as a Customer who takes service at less than 46,000 Volts.

(b) Extension Allowances - Delivery at less than 46,000 Volts

(1) 1,000 kW or less

The Company will grant Nonresidential Applicants requiring 1,000 kW or less an Extension Allowance of up to sixteen times the estimated monthly revenue the Applicant will pay the Company. The Applicant must advance the costs exceeding the Extension Allowance prior to the start of construction.

The Company may require the Customer to pay a Contract Minimum Billing for five years. Remote Service Customers must pay a Contract Minimum Billing for as long as service is taken, but in no case more than 15 years.

(2) Over 1,000 kW

The Company will grant Nonresidential Applicants requiring more than 1,000 kW an Extension Allowance of up to sixteen times the estimated monthly revenue the Applicant will pay the Company.

For extensions to customers taking delivery at less than 46,000 Volts but which include facilities at 46,000 Volts or higher as part of the extension, some or all of the estimated revenue may be allocated to the higher voltage facilities. The Company will grant an Extension Allowance of up to 20 times the estimated monthly revenue allocated to the higher voltage facilities.

The Applicant must advance the costs exceeding the Extension Allowance. Fifty percent of the advance is due when the contract is executed with the remaining balance due upon completion of the Extension.

(Continued)

ELECTRIC SERVICE REGULATION NO. 12 - Continued

3. NONRESIDENTIAL EXTENSIONS (continued)

(2) Over 1,000 kW (continued)

The Customer must pay a Contract Minimum Billing for as long as service is taken, but in no case more than 15 years.

If service is terminated within the first 10 years, the Customer must pay a termination charge equal to the Extension Allowance less 1/10th of the allowance for each year service was taken.

(c) Additional Customers, Advances and Refunds – All Voltages

(1) Initial Customer - 1,000 kW or less

A Customer that pays for a portion of the construction of an Extension may receive refunds if additional Applicants connect to the Extension. The Customer is eligible for refunds during the first ten years following construction of an Extension for up to four additional Applicants as given in section 1(j) Refunds. Each of these Applicants utilizing a portion of the initial Extension, for which a refund was not waived, must pay the Company, prior to connection, 20% of the cost of the shared facilities. The Company will refund such payments to the initial Customer.

(2) Initial Customer - over 1,000 kW

A Customer that pays for a portion of the construction of an Extension may receive refunds if additional Applicants connect to the Extension. The Customer is eligible for refunds during the first ten years following construction of an Extension for up to four additional Applicants. Each of these Applicants utilizing a portion of the initial Extension, for which a refund was not waived, must pay the Company, prior to connection, a proportionate share of the cost of the shared facilities. The Company will refund such payments to the initial Customer.

Proportionate Share = $(A + B) \times C$

Where:

A = [Shared footage of line] x [Average cost per foot of the line]

B = Cost of the other shared distribution equipment, if applicable

C = [New additional connected load]/[Total connected load]

(continued)

ELECTRIC SERVICE REGULATION NO. 12 - Continued

3. NONRESIDENTIAL EXTENSIONS (continued)

(c) Additional Customers, Advances and Refunds – All Voltages (continued)

(3) Adjustment of Contract Minimum Billing

Additional Customers also must share the Facilities Charges of the existing Customers. The Company will allocate the Facilities Charges in the same manner used for allocating the original advance.

(d) Underground Extensions

The Company will construct Extensions underground when requested by the Applicant or if required by local ordinance or conditions. The Applicant must pay for the conversion of any existing overhead facilities to underground, under the terms of Section 6 of this Regulation. The Applicant must provide all trenching and backfilling, imported backfill material, conduits, and equipment foundations that the Company requires for the Extension. If the Applicant requests, the Company will provide these items at the Applicant's expense. When the Extension is to property that is not part of an improved development, the Company may require the Applicant to pay for facilities on Applicant's property to provide for additional service reliability or for future development.

(e) Wheeling Charges

When, in lieu of building a transmission line extension at Customer's expense, Company contracts with another transmission provider to wheel (transmit) power across transmission provider's lines necessary to serve the Customer, Customer will pay transmission provider's wheeling charges in addition to their electric bill and any other applicable charges.

(f) Street Lighting

The Extension Allowance to streetlights taking service under Rate Schedules 11 or 12 is equal to five times the annual revenue from the lights to be added. The Applicant must provide a non-refundable advance for costs exceeding the Extension Allowance prior to the lights being added. Facilities charges and Contract Minimum Billings do not apply to energized streetlights.

4. EXTENSIONS TO PLANNED DEVELOPMENTS

(a) General

Planned developments, including subdivisions and mobile home parks, are areas where groups of buildings or dwellings may be constructed at or about the same time. The Company will install facilities in developments before there are actual Applicants for service under the terms of a written contract.

(Continued)

ELECTRIC SERVICE REGULATION NO. 12 - Continued

4. EXTENSIONS TO PLANNED DEVELOPMENTS (continued)

(b) Allowances and Advances (continued)

For nonresidential developments the Developer must pay a non-refundable advance equal to the Company's estimated installed costs to make primary service available to each lot.

For residential developments the Company will provide the Developer a maximum Extension Allowance of \$750 for each lot. The Developer must pay a non-refundable advance for all other costs to make secondary voltage service available to each lot. The Developer may be required to pay a refundable advance equal to the Extension Allowance.

For both nonresidential and residential developments the Company may require the Developer to pay for facilities to provide additional service reliability or for future development.

(c) Refunds

The Company will make no refunds for facilities installed within a development. However, a Developer may receive refunds on an advance paid for a new Extension to, or backboned through, the development, if additional Applicants connect to that Extension outside the development. The Developer is eligible for these refunds during the first ten years following construction of the Extension for up to four additional Applicants as given in section 1(j) Refunds. Each of these Applicants, for which a refund was not waived, must pay the Company, prior to connection, 20% of the cost of the shared facilities. The Company will refund such payments to the Developer.

(d) Underground Extensions

The Company will construct Extensions underground when requested by the Developer or required by local ordinances or conditions. The Developer must pay for the conversion of any existing overhead facilities to underground, under the terms of Section 6 of this Regulation. The Developer must provide all trenching and backfilling, imported backfill material, conduits, and equipment foundations that the Company requires. If the Developer requests, the Company will provide these items at the Developer's expense.

(Continued)

ELECTRIC SERVICE REGULATION NO. 12 - Continued

5. EXTENSION EXCEPTIONS

(a) Applicant Built Line Extensions

(1) General

An Applicant may contract with someone other than the Company to build an Extension. The following circumstances, however, are not an option for Applicant Built Line Extensions: relocations, conversions from overhead to underground, going from single-phase to three-phase, or increasing the capacity of facilities. The Applicant must contract with the Company before starting construction of an Applicant Built Line Extension. When the Applicant has completed construction of the Extension and the Company approves it, the Company will connect it to the Company's facilities and assume ownership.

(2) Liability and Insurance

The Applicant assumes all risks for the Construction of an Applicant Built Line Extension. Before starting construction, the Applicant must furnish a certificate naming the Company as an additional insured for a minimum of \$1,000,000. The Applicant may cancel the policy after the Company accepts ownership of the Extension.

(3) Advance for Design, Specifications, Material Standards and Inspections

The Applicant must advance the Company's estimated costs for design, specifications, material standards and inspections. When the Applicant has completed construction, the Company will determine the actual costs for inspections and may adjust that portion of the Applicant's advance. If the actual costs exceed the Applicant's advance, the Applicant must pay the difference before the Company will accept and energize the Extension. If the actual costs are less than the Applicant's advance, the Company will refund the difference.

The Company will estimate the frequency of inspections and convey this to the Applicant prior to the signing of the contract. For underground Extensions, the Company may require that an inspector be present whenever installation work is done.

(4) Construction Standards

The Applicant must construct the Extension in accordance with the Company's design, specifications, and material standards and along the Company's selected route. Otherwise, the Company will not accept or energize the Extension.

(continued)

ELECTRIC SERVICE REGULATION NO. 12 - Continued

5. EXTENSION EXCEPTIONS (continued)

(a) Applicant Built Line Extensions (continued)

(5) Transfer of Ownership

Upon approval of the construction, the Company will assume ownership of the Extension. The Applicant must provide the Company unencumbered title to the Extension.

(6) Rights-of-Way

The Applicant must provide to the Company all required rights-of-way, easements and permits in accordance with paragraph 1.(l). in this Regulation.

(7) Contract Minimum Billing

The Company may require the Applicant to pay a Contract Minimum Billing as defined in paragraph 1.(b) in this Regulation.

(8) Deficiencies in Construction

If, within 24 months of the time the Company energized the Extension, it determines that the Applicant provided deficient material or workmanship, the Applicant must pay the cost to correct the deficiency.

(9) Line Extension Value

The Company will calculate the value of an Extension using its standard estimating methods. The Company will use the Extension Value to calculate Contract Minimum Billings, reimbursements, and refunds.

(10) Line Extension Allowance

After assuming ownership, the Company will calculate the appropriate Extension Allowance. The Company will then reimburse the Applicant for the construction costs covered by the Extension Allowance, less the cost of any Company provided equipment or services, but in no case more than the Line Extension Value.

(continued)

ELECTRIC SERVICE REGULATION NO. 12 - Continued

5. EXTENSION EXCEPTIONS (continued)

(b) Duplicate Service Facilities

The Company will furnish Duplicate Service Facilities if the Customer advances the estimated costs for facilities in excess of those which the Company would otherwise provide. The Customer also must pay Facilities Charges for the Duplicate Facilities for as long as service is taken, but in no case more than 15 years nor less than five years.

(c) Emergency Service

The Company will grant Applicants requesting Emergency Service an Extension Allowance equal to the estimated increase in annual revenue the Applicant will pay the Company. The Applicant must advance the costs exceeding the Extension Allowance prior to the start of construction. The Applicant must also pay a Contract Minimum Billing for as long as service is taken, but in no case more than 15 years, nor less than five years.

(d) Highly Fluctuating Loads

The Company will furnish facilities for Highly Fluctuating Loads as defined in Regulation 2 of this Tariff, provided that the Applicant agrees to advance to the Company the estimated installed cost of such facilities over the cost of facilities which the Company, in its sole discretion, would otherwise provide. The Applicant shall also pay a Contract Minimum Billing as long as service is taken but in no case more than 15 years nor less than five years. If load fluctuations become a detriment to other Customers, the Company may modify the facilities and adjust the advance and the Contract Minimum Billing.

(e) Temporary Service

(1) For Temporary Service requests requiring only a service loop connection and where there are 120/240 volt facilities of adequate capacity available, the Customer shall pay the connect and disconnect charge specified in Schedule 300.

(continued)

ELECTRIC SERVICE REGULATION NO. 12 - Continued

5. EXTENSION EXCEPTIONS (continued)

(e) Temporary Service (continued)

- (2)** For all other Temporary Service requests the Customer shall pay
 - a.** the estimated installation cost, plus
 - b.** the estimated removal cost, plus
 - c.** the estimated cost for rearranging any existing facilities, less
 - d.** the estimated salvage value of the facilities required to provide Temporary Service.
- (3)** The Customer is also responsible for electric service supplied under the appropriate rate schedule; any advances required for sharing previous Extensions; and, depending on the customer class, Contract Minimum Billings.
- (4)** If a Customer takes Temporary Service continuously for 60 consecutive months, the Company will classify the Extension as permanent and refund any payment the Customer made over that required of a permanent Customer. The Company will not refund the Facilities Charges.

6. RELOCATIONS AND CONVERSIONS OF FACILITIES

If requested by an Applicant or Customer, and performance of the request is feasible, the Company will: relocate distribution voltage facilities on to, or adjacent to, the Customer's premises; and/or, replace existing overhead distribution facilities with comparable underground (overhead to underground conversion). If existing easements are insufficient for the new facilities, the Applicant or Customer is responsible for obtaining new easements. Substation facilities and transmission voltage facilities will be relocated at the discretion of the Company.

Advances for relocations and conversions are not refundable. The Company is not responsible for allocating costs and responsibilities among multiple Applicants.

(continued)

ELECTRIC SERVICE REGULATION NO. 12 - Continued

6. RELOCATIONS AND CONVERSIONS OF FACILITIES (continued)

(a) Relocations

For relocations the Applicant or Customer must advance the following:

- (1) The estimated installed cost of the new facilities plus the estimated removal expense of the existing facilities, less
- (2) The estimated salvage value of the removed facilities.

(b) Overhead to Underground Conversions

For overhead to underground conversions, the new underground system must not impair the use of the remaining overhead system. The Applicant or Customer must elect either: to provide all trenching and backfilling, imported backfill material, conduits, and equipment foundations that the Company requires for the relocation; or, to pay the Company to provide these items.

In addition, the Applicant or Customer must advance the following:

- (1) The estimated installed cost of the new facilities plus the estimated removal expense of the existing facilities, less
- (2) The estimated salvage value of the removed facilities and depreciation on the original facilities.

(c) Overhead to Underground Conversions for Local Governments

When required by a governmental entity and when such conversion is practical, the Company will replace existing overhead with underground distribution facilities provided the entity pays the Company in accordance with paragraph (b) above, and provided the entity will adopt an ordinance creating an underground district requiring:

- (1) All existing overhead communication and electric distribution facilities in said district be removed: and,
- (2) Each property owner to make the changes necessary to receive service from the underground facilities as soon as the Company makes them available; and

(continued)

ELECTRIC SERVICE REGULATION NO. 12 - Continued

6. RELOCATIONS AND CONVERSIONS OF FACILITIES (continued)

**(c) Overhead to Underground Conversions for Local Governments
(continued)**

- (3)** Authorizes the Company to discontinue overhead service when it has completed construction of the underground facilities.

7. CONTRACT ADMINISTRATION CREDIT

Customers may waive their right to receive refunds on a refundable Extension advance in excess of the Extension Allowance. Customers who waive this right will receive a Contract Administration Credit of up to \$250 not to exceed their refundable Extension advance. The Customer's choice to receive the Contract Administration Credit must be made at the time the Extension advance is paid.

My Commission Expires: _____ (d/m/y)

Acknowledgment by Trustee, or Other Official or Representative Capacity:

STATE OF _____)
) ss.
County of _____)

On this ____ day of _____, 20____, before me, the undersigned Notary Public in and for said State, personally appeared _____ (representative's name), known or identified to me to be the person whose name is subscribed as _____(title/capacity in which instrument is executed) of _____ and acknowledged to me that (he/she/they) executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.

(notary signature)

NOTARY PUBLIC FOR _____ (state)

Residing at: _____ (city, state)

My Commission Expires: _____ (d/m/y)

Applicant-Built Line Extensions

ABOUT THE PROCESS



Developers are asking themselves if there is an option that keeps them in control of their construction cycle. The Applicant-Built option may be part of the solution.

State electric utility regulations allow applicants (developers) to arrange for the installation of the line extension infrastructure for their site. Applicants must first contract with Rocky Mountain Power, use an approved design and abide by approved construction and material standards. The applicant controls the work schedule, site rules and installation cost.

Applicant provides:

- Rights of way, easements, permits – same requirement as Rocky Mountain Power-built
- Certificate of liability insurance naming Rocky Mountain Power as additional insured
- Material – must comply with Rocky Mountain Power specifications and may be purchased from the company, if desired
- Installation labor – must comply with Rocky Mountain Power's construction standards
- Job site security
- 24-month warranty on material and workmanship

Rocky Mountain Power provides:

- Construction design – drawings showing required equipment and placement for poles, vaults, conduit, road crossings, etc.
- Required materials list, including material specifications
- Construction standards – how facilities must be built
- Inspector – presence required for critical construction steps
- Connection to the network – the final work necessary to energize your installation

Applicant is financially responsible to Rocky Mountain Power for:

- Construction design costs – estimated up front
- Inspection costs – actual costs
- Connection costs – estimated up front

When the total of the up-front estimates for the above costs exceeds the amount of the extension allowance, the applicant must advance the difference to Rocky Mountain Power before construction begins.

At project end:

- Applicant delivers signed bill of sale, transferring title for the line extension to Rocky Mountain Power
- Rocky Mountain Power connects the line extension to the power system and costs are settled per the contract, most often resulting in a reimbursement to the applicant of the extension allowance less the applicant's costs outlined above

Rocky Mountain Power has observed that, to date, the quality of applicant-built installations has been excellent.

“We consistently use the applicant-built option for larger projects so we can best manage the entire construction cycle. We also believe there are economic benefits.”

— Gary Langston, PE,
Director Land Development, Kennecott Utah Copper

Inspections:

A Rocky Mountain Power inspector will ensure proper procedures, skills and materials are employed in the installation process. Inspectors assigned by Rocky Mountain Power work to minimize the time required on-site. Their presence during critical stages reduces overall cost and maximizes quality to ensure a long-term, reliable power supply.

Critical construction stages include pole, conduit, road crossing and vault placement, shading (covering) of conduit, cable pulling, equipment setting and cable terminations.

About materials:

Applicants may procure materials from any supplier; however, all installed materials must comply with Rocky Mountain Power's specifications. A list of materials, approved specifications and manufacturer item numbers may be obtained from the local office.

Although Rocky Mountain Power is not in the materials distribution business, it is willing to sell to the applicant any of the materials required for the installation at cost plus administrative fees. Applicants may discuss pricing and material availability with local office personnel.

Ensuring quality on your project:

When selecting a contractor, an applicant will want to choose one with the knowledge and skills required to install electric infrastructure. Quality installations ensure the power stays on both now and into the future. Contact the Rocky Mountain Power Applicant-Built program manager for a list of contractors who are actively involved in applicant-built installation.

A Rocky Mountain Power inspector's job is to ensure the quality of the final installation. By insisting on quality work from the contractor, applicants can keep their inspection and re-work costs to a minimum.

Upon completion of the project, a 24-month warranty on material and workmanship is required from applicants.

Eligible projects:

For safety and accessibility reasons, applicants may install only new, non-energized line extensions. These line extensions may be either underground or overhead construction. Applicants are not allowed to work on energized facilities.

Work not eligible for applicant-built:

- Overhead to underground conversions
- Upgrades to existing facilities
- Relocations
- Replacement of existing facilities



To learn more:

For project-specific questions, call toll free at **1-888-221-7070** and tell the agent you have questions about an applicant-built project. A local Rocky Mountain Power representative will be assigned to work with you during the process and will contact you following your inquiry.

For overall program questions, contact the **Applicant-Built Program Manager** at **801-220-2424**.



Let's turn the answers on.



Customer Generation

Contents

Solar Installer Checklist

Requirements to Interconnect Distributed Energy Resources

Frequently Asked Questions - Effective Grounding for Distributed Energy Resources



Solar Installer Checklist

1. Ensure that installer is able to conform to Rocky Mountain Power Policy 138, IEEE 1547 and UL 1741.
2. Ensure that customer of installer or installer has completed a Net Metering Application/Agreement, which is available at **rockymountainpower.net/netmetering**.

If you have any questions, call us toll free at 1-888-221-7070.

3. Have the customer of installer or installer submit an application and application fee, if required for your state. Rocky Mountain Power will review it and let the installer and/or the customer know if there are issues needing further study. The review period typically takes 30 business days.
4. After submitting and receiving a Confirmation of Receipt from Rocky Mountain Power, the installer submits for and obtains the necessary permits from local city, county or municipal jurisdiction where the solar system will be installed.
5. The customer and/or installer will receive approval from Rocky Mountain Power via email.
6. Install the project and have it inspected by the local authorities (city or county electrical inspector or other authority for your area).
7. The installer or customer of the installer submits an approved electrical inspection form from the local authority to Rocky Mountain Power.
8. Rocky Mountain Power will install a net meter within 10 days of receipt of the approved inspection.
9. Start generating electricity!



October 6, 2015

Subject: Requirements to Interconnect Distributed Energy Resources

Thank you for your interest in interconnecting a distributed energy resource (DER) to Rocky Mountain Power's distribution system. As consumer interest continues to grow and in an effort to ensure customer satisfaction, we are writing to remind you of the technical requirements for interconnecting to our system.

If you wish to interconnect a DER system to a Rocky Mountain Power distribution network, you must ensure your project does not compromise the safety, reliability and operability of the electric grid and does not place other customers' equipment at risk. This may increase project costs beyond your original scope and expectations, but these are important steps to ensure your usage of the interconnected electric system doesn't negatively impact other customers served.

A few of the technical requirements for interconnection of DER to the electric grid are:

- Your generation system must be effectively grounded. Most utility distribution systems in North America, including most of our utility distribution lines, are multi-grounded systems. This means there is a separation of your grounding system and our grounding system in the event of faults on either utility or customer generation equipment. Effectively grounded generation sources are required on multi-grounded systems in order to prevent dangerous over voltages during short circuit events, which serves to protect both customer and utility equipment.
- You will be required to provide an "anti-islanding" scheme. Islanding is a condition in which a portion of Rocky Mountain Power's system can stay energized and operate by itself even when our sources are de-energized. If warranted, you will be required to pay for protection against islanding.
- Your DER facility must include a UL listed AC disconnect switch that provides a visible break, is lockable in the open position, and is located between the production meter and the sub-panel or other connection to the generating facility. Your disconnect switch must be accessible to Rocky Mountain Power personnel at any time of the day. Specific requirements may vary by state and system size.
- The protection system at your generation site must meet the latest IEEE 1547 standard. For non-net-metered generation, it must also meet PacifiCorp's Policy 138, found at **rockymountainpower.net/policy138**. If your protection system does not meet the necessary standards, you will be responsible for purchasing and installing additional protection equipment.

A full scope of the interconnection requirements for your installation will be sent to you after your interconnection request is received. Please provide your application to Rocky Mountain Power prior to any installation activity to ensure inclusion of the full scope of requirements in your detailed designs.

Thank you for your attention to these technical requirements necessary to maintain the safety and reliability of the distribution system. For more information, please visit **rockymountainpower.net/netmetering**.

Sincerely,

A handwritten signature in black ink, appearing to read "Erik Anderson", with a long, sweeping underline.

Erik Anderson
Net Metering Manager

Frequently Asked Questions:

Effective Grounding for Distributed Energy Resources

What is effective grounding?

Effective grounding is defined by the National Electrical Safety Code (NESC) as “Bonded to an effectively grounded neutral conductor or to a grounding system designed to minimize hazard to personnel and having resistances to ground low enough to permit prompt operation of circuit protective devices.”

This method of grounding ensures the safe, reliable and effective operation of Rocky Mountain Power’s electric system.

Why does Rocky Mountain Power require effective grounding from distributed energy resources (DER) customers?

Rocky Mountain Power is committed to operating its electric grid in a safe and reliable manner. Ungrounded systems are susceptible to elevated voltage levels, especially during phase-to-ground short circuit events, which can lead to equipment failure and prevent the safe and reliable operation of the system.

Rocky Mountain Power’s distribution system is effectively grounded, as is the majority of the systems across North America. During fault conditions, an effectively grounded system in addition to neutral overcurrent protection helps prevent overvoltage issues by maintaining voltage levels within acceptable levels as published by the American National Standards Institute (ANSI). This method ensures that generators, consumers and company equipment are protected from impacts caused due to short circuit events. Other methods can also ensure coordination between the system’s protective equipment and the generator’s equipment however they are generally more expensive alternatives for the customer. As a result, Rocky Mountain Power suggests effective grounding measures as the lower cost option to ensure proper system coordination.

Does Rocky Mountain Power have a policy that defines the “effective grounding” requirements?

Rocky Mountain Power requires interconnection customers to follow the effective grounding requirements described in the Protection & Control section of its [Distributed Energy Resources Interconnection Policy 138](#). For net-metering customers, the company requires customers to follow requirements outlined in the brochure [“Connecting to Rocky Mountain Power’s electrical system”](#).

What standards are used by Rocky Mountain Power to impose effective grounding requirements?

In addition to company-specific requirements, Rocky Mountain Power follows IEEE 1547, UL 1741, and ANSI C84.1 as well as other national, state and local jurisdiction rules.



Let's turn the answers on.

Frequently Asked Questions:

Effective Grounding for Distributed Energy Resources

Are there any exceptions for Rocky Mountain Power's effective grounding requirement?

With approval from Rocky Mountain Power, effective grounding may not be required when particular criteria are met, which would preclude the possibility of temporary overvoltages. Based on IEEE 1547 guidelines in addition to Rocky Mountain Power's policy, some criteria include:

- The DER is connected on a single-phase distribution transformer, and is connected line-to-neutral,
- The DER is connected using a three-phase, three-wire configuration,
- When the DER peak power on the primary distribution system aggregates to less than 10% of the local system's minimum load (for solar interconnections, minimum *daytime* load), then the load will likely be sufficiently large to limit temporary overvoltages,
- Installation or existence of certain transformer configurations might be exempted based on interconnection study results as determined by Rocky Mountain Power's Protection & Control group.

What amount of generation requires effective grounding?

Although more common on larger generation interconnections, effective grounding can be required even on DER systems less than 25 kilowatts. Individual circuits behind a protective device on a distribution line can have very low minimum loads, thus necessitating effective grounding regardless of the size of the interconnected DER.

Can you give a simple example of how this works when an application is processed?

A simple example is a distribution circuit that has a peak load of 8,000 kVA and a daytime light load of 1,500 kVA. In this case, the limit of distributed solar generation that can be installed without effective grounding is 150 kVA (10% of light load). If 140 kVA of solar generation already exists and a customer applies for 10 kVA of solar generation, that applicant will need to have effectively grounded generation.

How can an applicant or developer possibly know whether or not the light load threshold is going to be exceeded when submitting an application?

The applicant will not be able to determine whether the light load threshold is already exceeded or will be exceeded with a given application. Applications are addressed in a queue (first in, first out). It is conceivable that a 20 kVA application could be approved without effective grounding immediately before a 10 kVA application is reviewed and found to require effective grounding (or other improvements). Rocky Mountain Power uses the queue to ensure fair treatment of all applications.

Will smart inverters eliminate the effective grounding requirement?

Currently UL 1741 and IEEE 1547 are in the process of developing safety and testing procedures for inverters with advanced functionalities (also called "smart inverters") wherein the generators can limit the interactions between the generator and any system short circuit events. As the technology advances, changes to requirements are likely to occur. However, due to the standards (as well as the technology) being in a developmental stage, Rocky Mountain Power is not in a position to comment on effective grounding requirements for smart inverters.

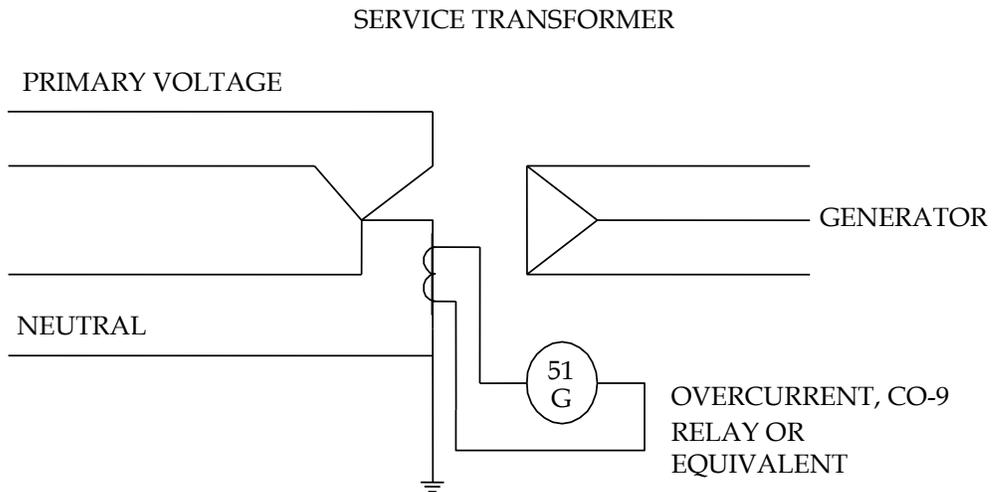


Let's turn the answers on.

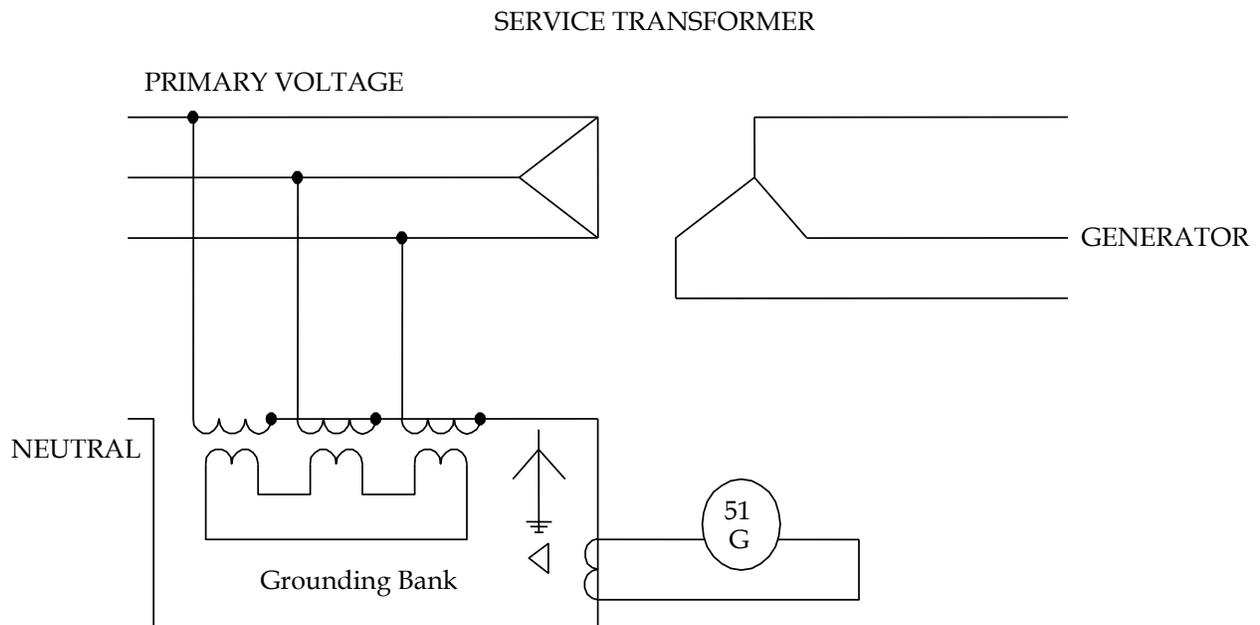
Frequently Asked Questions: Effective Grounding for Distributed Energy Resources

Examples of effectively grounded systems

The system directly below illustrates a distribution system with the service transformer connected wye on the primary voltage side.



The system below illustrates a distribution system with the service transformer connected delta on the primary voltage side.



Let's turn the answers on.