

# **CAPE HATTERAS ELECTRIC COOPERATIVE**

## **SERVICE RULES AND REGULATIONS**

### **1. Applications for Membership**

Any person, firm, association, corporation or public body shall sign a written application for membership and pay any service security deposit that may be required by the Cooperative. In this application, the applicant shall agree to purchase from the Cooperative all electric energy used on the premises of the applicant, with the exception of Cooperative approved and properly connected consumer owned distributed generation (See Section 10), and to be bound by the regulations and rate schedules established pursuant thereto. The applicant shall further agree to pay the minimum monthly bill stated in the application or, the minimum set forth in the written contract for service. Upon termination of membership, any deposits will be refunded or applied against any unpaid balance owed the Cooperative.

### **2. Service Security Deposits**

A security deposit shall be required for receiving electric service. The security deposit will be applied to the electric service account after 12 consecutive months without a late payment or applied to the last electric bill if the service is terminated in good standing before the end of one year. Consumers who sign up for the Bank Draft or Credit Card Draft (for at least one year) can have the security deposit reduced as listed on the Schedule of Charges. However, if credit is satisfactorily established, the service security deposit may be waived (See Section 3). The security deposit is listed on the Schedule of Charges at the end of this document.

### **3. Establishing Credit**

A new applicant for membership or a former member applying for reinstatement may establish satisfactory credit for a service connection by any of the following methods.

- a. The applicant provides a cash security deposit; or
- b. The applicant has established satisfactory credit, by record of his payment to another electric utility supplier;
  - (1) Residential Service – Residential Letter Of Credit
  - (2) Commercial Service – Commercial Letter Of Credit
- c. The applicant is a former member of the Cooperative with satisfactory credit history within the last twelve months.
- d. The applicant obtains a guarantor satisfactory to the Cooperative.
- e. The applicant receives a score of 15 or lower on the Cooperative's credit scoring system.

#### **4. Billing**

Consumers will be billed for the electricity used in their previous billing cycle. Payment is due on the date the bill is received. In the event the current monthly bill is not paid within twenty (20) days from the date of the bill, the bill is delinquent and a late penalty will be applied to the outstanding balance as listed on the Schedule of Charges.

Members having delinquent accounts will receive a written notice on their subsequent bill advising of possible disconnection of service unless the past due amount is paid within the time period stipulated in the notice.

#### **5. Service Fees**

A list of Service Fees associated with electric service, security lights, member requested meter tests, and other business related issues are listed on the Schedule of Charges.

#### **6. Line Extensions – Overhead and Underground**

The following procedures shall apply to requests for overhead and underground line extensions, facility relocations, and overhead to underground conversions under typical construction conditions. Every effort has been made to cover the vast majority of requests that may be received by the Cooperative relating to these issues. However, on occasion, situations arise that are outside the realm of these policies where construction design and equipment installation are considered non-typical as determined by the Cooperative. In these cases, the Cooperative will consider such requests and if in the opinion of the Cooperative the request is in the best interest of the membership, it shall be granted after satisfactory arrangements have been made for payment of any contribution in aid of construction deemed necessary by the Cooperative.

Generally, contribution in aid of construction charges for requests that are outside the realm of these policies will be calculated based on an engineering estimate. The Cooperative, at its discretion, may collect in advance a deposit to pay for the costs of performing engineering estimates for proposed construction or facility relocation. In those cases that a deposit is required to perform an engineering estimate, the deposit will be applied toward the contribution in aid of construction charges if the requested construction or facility relocation proceeds. Otherwise, the engineering estimate deposit will be forfeited by the requesting party in order to offset the expenses of calculating the estimate by the Cooperative.

The contribution in aid of construction charges will be calculated to the highest possible degree of accuracy using all known facts to compute the estimate. Once the estimate is complete and satisfactory arrangements have been made to pay the contribution in aid of construction charges, the Cooperative will proceed with the requested construction.

During the construction of a project for which an estimated advance payment was paid, the Cooperative will accumulate actual costs and upon completion of construction the Cooperative will bill or refund the applicant, as appropriate, for the difference between the estimated and actual costs.

Prior to the installation of the Cooperative's electric facilities, the owner, member, or developer

will furnish, without cost to the Cooperative, necessary easements and rights-of-way. Lot lines must be established and staked, the right-of-way cleared of vegetation and other obstructions, and the project to final grade before construction begins. The owner, member, or developer is responsible for identifying, locating, and exposing all privately owned below ground facilities and obstructions prior to the installation of the electric facilities. The Cooperative will not be responsible for damage to any privately owned underground facilities that are not identified, located, and exposed prior to the construction of the electric facilities.

The type of construction and location of said facilities will be at the option of the Cooperative. Should the requesting party desire changes in either location or type of construction, and if the Cooperative agrees to the requested changes, such installations will be made only upon the owner, member, or developer making satisfactory arrangements to pay the Cooperative any additional cost incurred thereby. These charges are in addition to any other charges required by the Service Rules and Regulations.

The Cooperative will construct its facilities to meet or exceed the then existing minimum standards of the latest edition of the National Electrical Safety Code, the Rural Utility Service's Construction Specification Manuals, and any other then existing applicable codes or standards. The facilities will be designed by using sound engineering principles and practices as the same exist at time of construction. Facilities will also be operated in accordance with sound engineering principles and practices.

The point of demarcation between the Cooperative's and the member's electric facilities will be at the weather head for overhead services; the meter base for underground services; an approved meter cabinet or within the pad mount transformer for underground commercial services. Meter bases shall not be placed on Cooperative owned poles.

Facilities will be extended after the Cooperative is in possession of any required rights-of-way easements and satisfactory arrangements have been made for payment of any applicable contribution in aid of construction charges. Line extension cost quotations will be valid for no longer than ninety (90) days. All agreements for these services shall be reduced to writing and will be provided under the following additional terms and conditions:

**A. Overhead Extension Policy**

Upon application for electric service, the Cooperative will furnish and install overhead primary and secondary service within its service area, or where allowed by law, to new developments, to permanent residential dwellings, and to commercial, industrial, or public buildings.

**I. New Overhead Developments**

- a. Installation of the electric distribution facilities will be installed in accordance with the Schedule of Charges contained within the Service Rules and Regulations.
- b. Undeveloped Areas: When the owner or developer requests a permanent primary distribution system to a parcel subdivided into lots which necessitates the installation of overhead primary conductors through, by, or across areas that have not been subdivided into lots and offered for sale, the Cooperative may charge, in advance, the additional costs incurred to reach the subdivided area. This charge is in addition to any other charges required by the Service Rules and Regulations.
- c. Conduit Installation: Where the owner or developer of a subdivision with overhead primary facilities elects to have underground services under a road and the underground line

extensions will be installed subsequent to paving, the Cooperative may provide the conduit and the owner or developer, shall at his or her own expense, install the conduit to meet the specifications provided by the Cooperative. The Cooperative will provide a layout showing where the conduit must be installed. In all cases, the owner or developer will be responsible for tamping the trench to adequate compaction prior to paving. In the event that conduit is not installed prior to paving, the owner, member, or developer will be required to pay all costs incurred in boring under or cutting through and replacing pavement within the development or project. These charges are in addition to any other charges required by the Service Rules and Regulations.

## **II. Permanent Residential, Commercial, and Industrial Buildings**

- a. Primary Extensions: When necessary, the Cooperative will furnish and install single phase or multiphase overhead primary distribution facilities to provide service where the distance is too great for secondary service. The owner, member, or developer shall pay a contribution in aid of construction charge for the overhead primary distribution line extension at the per foot charge listed on the Schedule of Charges.
- b. Secondary Extensions: The Cooperative will furnish and install a single phase or multiphase overhead secondary service to the normal point of delivery after satisfactory arrangements have been made to pay the contribution in aid of construction charges listed on the Schedule of Charges. The normal point of delivery for overhead service will be on the outside wall of the end of the building nearest to the source of the Cooperative's facilities entering the member's premises or at a location designated by the Cooperative.

The Cooperative will provide secondary service to a location other than the normal point of delivery if the requesting party makes satisfactory arrangements to pay the additional cost. The cost for each additional pole is included on the Schedule of Charges. These charges are in addition to any other charges required by the Service Rules and Regulations.

The member is responsible for providing a meter pole, service mast, or service entrance connection point of adequate strength, clearance, and height requirements to meet or exceed the National Electric Code, the National Electric Safety Code, Rural Utility Service Specifications, and other applicable state, and local codes.

## **III. Other Than Planned Developments or Permanent Buildings**

Requests for extensions to small or intermittent loads such as garages, well pumps, electric fences, and the like will be constructed after any contribution in aid of service, deemed necessary by the Cooperative to make the extension economically feasible, has been paid.

## **IV. Overhead Temporary Service**

Upon application for electric service, the Cooperative will extend temporary overhead distribution facilities. A temporary service is a service to provide electric service for less than a twenty-four (24) month continuous period where the facilities installed for this service will not be needed to serve other accounts in the near future. Temporary services will be furnished and installed under the following terms and conditions:

- a. Temporary Secondary Service Extensions – Up to 75 Feet in Length: The Cooperative will extend up to seventy-five (75) feet of temporary overhead 120/240 volt triplex service for

construction of buildings, homes, or other structures which upon completion will receive permanent electric service from the Cooperative. The temporary service will be provided under standard applicable rates and connect fees. The member is responsible for ensuring that their temporary service pole is sufficiently braced and of sufficient height to meet the clearance requirements of the National Electric Safety Code, Rural Utility Service, and other applicable state, and local codes. The party requesting the temporary service extension is responsible for clearing the right-of-way of vegetation and other obstacles.

Where the Cooperative must install an additional pole or poles in order to provide a temporary service that is equal to or less than 75 feet in length, the owner, member, or developer must pay a contribution in aid of service charge based on the total estimated cost of setting the pole/s added to the estimated cost of retiring the pole/s less any salvageable materials. These charges are in addition to any other charges required by the Service Rules and Regulations.

- b. Temporary Primary and/or Secondary Service Extensions – Greater than 75 Feet in Length: The Cooperative will extend and furnish temporary overhead primary and secondary electric lines in excess of seventy-five (75) feet to buildings, construction projects, asphalt plants, carnivals, fairs, temporary facilities, or other non-permanent installations on the basis of its standard applicable rates and service connect fees as soon as satisfactory arrangements have been made for any facilities extension deposit and payment of any contribution in aid of construction. The contribution in aid of service charge will be based on the total estimated line extension cost added to the estimated cost of retiring the facilities less any salvageable materials.

## **V. Overhead Facility Relocation**

The Cooperative, upon the request of a property owner, member, or developer will consider relocating existing overhead facilities. Any relocation of facilities will be analyzed with a view to better the Cooperative's system and benefit all members of the Cooperative. Betterment of the electric system occurs when, in the sole opinion of the Cooperative, the proposed change or project results in needed repair or improvement in the location of a facility so as to afford easier maintenance, repairs, replacement, or reconstruction of the facility and, in the sole opinion of the Cooperative, the economic return of the project justifies the investment in the facility relocation. The owner, member, or developer making the request for relocation will be responsible for all costs incurred which do not result in betterment of the electric system, for obtaining all necessary rights-of-way, and for all costs associated with cutting and clearing the rights-of-way of vegetation or other obstructions. If the Cooperative agrees to the relocation as requested, the party requesting the relocation will make arrangements for payment of the total estimated non-betterment costs before the relocation begins.

The owner, member, or builder will be responsible for all costs associated with facility relocation due to encroachment of the Cooperative's electric lines by the erection of buildings, decks, signs, flag poles, or other projects that violate established clearance codes and safety requirements. This includes both permanent and temporary relocations in order to provide a safe work site for the public, the member, and building contractor personnel.

## **VI. Structures and Equipment Moving**

The Cooperative upon request will raise or lower lines to afford safe passage for structures or

equipment being moved where practicable and without causing electric service disruptions to other members. Those making such requests will be required to pay the total cost of the work performed and a deposit will be required, in advance of construction, equal to the total estimated costs. The Cooperative, at its discretion, may also collect in advance a deposit to pay for the costs of performing engineering estimates for proposed construction or facility relocation. In those cases that a deposit is required to perform an engineering estimate, the deposit will be applied toward the contribution in aid of construction charges if the requested construction or facility relocation proceeds. Otherwise, the engineering estimate deposit will be forfeited by the requesting party in order to offset the expenses of calculating the estimate by the Cooperative. Upon completion of the work, the Cooperative will perform a final accounting of the costs, and either bill or refund the difference between the actual and estimated costs.

## **B. Underground Extension Policy**

Upon application for electric service, the Cooperative will furnish and install underground primary and secondary service within its service area, or where allowed by law, to new developments, permanent residential dwellings, and to commercial, industrial, or public buildings. All underground electric cable shall be installed in conduit. The property owner, member, or developer is responsible to have the right-of-way clear of vegetation and to final grade before construction begins.

Where, due to conditions in the soil, as much as 5 percent of the trenching work cannot be accomplished by the use of standard trenching machines and techniques, excess costs occasioned by such conditions may be charged by the Cooperative. Where there are other unusual conditions, such as high water or unusual local wiring or electrical code requirements which require installation procedures and materials not normally used, the excess cost of such procedure may be charged by the Cooperative. These charges are in addition to any other charges required by the Service Rules and Regulations.

Additional charges may be made by the Cooperative to defray the expense of constructing temporary overhead facilities installed at the request of and to accommodate the owner or developer through, by, or into areas that will ultimately be served by underground facilities. The contribution in aid of service charge will be based on the total estimated line extension cost added to the estimated cost of retiring the facilities less any salvageable materials. These charges are in addition to any other charges required by the Service Rules and Regulations.

Where the owner, member, or developer wishes to pave the roads, driveways, or other areas prior to the installation of the underground distribution facilities, the Cooperative may provide conduit. The Cooperative will also provide a layout showing where the conduit must be installed. The owner or developer, at his or her own expense, will be required to install the conduit under roads or other paved areas to meet the specifications provided by the Cooperative. In all cases, the owner or developer will be responsible for tamping the trench to adequate compaction prior to paving. In the event that conduit is not installed prior to paving, the owner, member, or developer will be required to pay all costs incurred in boring under or cutting through and replacing pavement within the development or project. These charges are in addition to any other charges required by the Service Rules and Regulations.

Protection of shrubs, trees, and grass sod during the installation of the underground facilities will be the responsibility of the owner or developer, and the owner or developer will hold the Cooperative and/or its subcontractors harmless from all costs and claims for damages. It will be the responsibility of the owner or developer to re-seed and/or maintain the trench cover.

All agreements for these services shall be reduced to writing and will be provided under the following additional terms and conditions:

### **I. New Underground Developments**

- a. 200 Amp Backbone System: - Where single phase or multiphase 200 amp underground backbone distribution extensions are requested through planned subdivisions, the owner or developer shall pay a contribution in aid of construction cost per trench foot as listed on the Schedule of Charges. Satisfactory arrangements must be made for the payment of these charges before construction begins. This charge is in addition to any other charges required by the Service Rules and Regulations.
- b. 600 Amp Backbone System: – Where single phase or multiphase underground backbone distribution extensions are requested through planned subdivisions, which at the sole judgment of the Cooperative, will require both 200 amp and 600 amp underground primary facilities to serve the future load, the owner or developer will be required to pay a contribution in aid of service for the 200 amp facilities as listed above. In addition, a contribution in aid of service will be required for all of the 600 amp materials. This material cost will include all 600 amp cable, terminations, conduit, and switchgear associated with the construction project. Labor cost to install the 600 amp materials shall be provided by Cooperative. This is in addition to any other charges required by the Service Rules and Regulations.
- c. Undeveloped Areas: When the owner or developer requests an underground primary distribution system which service necessitates the installation of underground cables through, by, or across areas that have not been subdivided into lots and offered for sale, the Cooperative may charge the additional cost incurred. This is in addition to any other charges required by the Service Rules and Regulations.

### **II. Permanent Residential, Commercial, and Industrial Buildings**

- a. Primary Extensions: When necessary, the Cooperative will extend underground primary distribution facilities to provide service to a meter where the distance is too great for secondary service. A contribution in aid of construction charge is required for underground primary extensions. The underground primary extension charge per foot is listed on the Schedule of Charges. This is in addition to any other charges required by the Service Rules and Regulations.
- b. Secondary Extensions: The Cooperative will furnish and install a single phase or multiphase underground secondary service after satisfactory arrangements have been made to pay the contribution in aid of construction charges listed on the Schedule of Charges. This is in addition to any other charges required by the Service Rules and Regulations.

### **III. Other Than Planned Developments or Permanent Buildings**

Requests for line extensions to small or intermittent loads such as, garages, well pumps, electric fences, and the like will be constructed after any contribution in aid of service, deemed necessary by the Cooperative to make the extension economically feasible, has been paid.

#### **IV. Underground Temporary Secondary Service**

Temporary underground service will be provide only when the source of power for the temporary service will originate from previously installed underground electric distribution facilities. A temporary service is a service to provide electric service for less than a twenty-four (24) month continuous period where the facilities installed for this service will not be needed to serve other permanent accounts in the near future. Upon application for electric service, the Cooperative will extend up to five (5) feet of temporary underground 120/240 volt service. The owner, member, or developer is responsible for ensuring that a temporary service pole is within five feet of an existing pad-mounted transformer or secondary hand hole suitable for providing such service and that all existing underground electric facilities in the area have been properly located and identified prior to digging. The temporary service will be provided under standard applicable rates and connect fees.

In the event the owner, member, or developer requests an underground temporary service extension greater than five feet in length, the requesting party shall pay a contribution in aid of construction charge equal to the total estimated cost, including labor and material, of the underground extension. This is in addition to any other charges required by the Service Rules and Regulations.

#### **V. Overhead to Underground Conversion**

- a. OH to UG Secondary Services: When the owner, member, or developer requests that an overhead secondary service previously installed to serve a permanent residence be removed and a new secondary underground service installed, the owner will pay a contribution in aid equal to the estimated cost to retire the overhead, plus the cost of installing the new secondary service as shown on the Schedule of Charges. This is in addition to any other charges required by the Service Rules and Regulations and the installation of the underground secondary service will be governed by the provisions of the appropriate sections of the Underground Extension Policy.
- b. OH to UG Primary Distribution Lines: When the owner, member, or developer requests that an existing overhead primary line be replaced with primary cable, and the Cooperative agrees that the requested changes are in the best interest of the membership, the requesting party will make satisfactory arrangements to pay the total estimated costs of removing the existing facilities, plus the cost of installing the new underground primary as shown on the Schedule of Charges. The value of salvaged materials will be credited to the costs, and the final billing will be adjusted as necessary upon completion of the work. This is in addition to any other charges required by the Service Rules and Regulations. The installation of the underground cable will be governed by the provisions of the Underground Extension Policy.

#### **VI. Underground Relocation**

- a. UG Secondary Service: Upon request, the Cooperative may agree to relocate an underground service. Any expenses incurred in relocating an underground electric service due to the owner's, member's, or developer's alteration in their service entrance facilities and/or meter base, or to accommodate any other request for the underground secondary service drop being relocated, shall be borne by the requesting party. This is in addition to any other charges required by the Service Rules and Regulations.
- b. UG Primary: Upon request, the Cooperative may agree to relocate an existing underground primary line. Any expenses incurred in relocating or extending an underground electric



primary line due to the owner's alteration in their service entrance facilities and/or meter base, or to accommodate any other request for the underground primary line being relocated, shall be borne by the requesting party. Relocation will begin once satisfactory arrangements have been made by the owner, member, or developer to pay the total estimated cost of the relocation including labor and materials. This contribution in aid of construction charge is in addition to any other charges required by the Service Rules and Regulations.

## **7. Standard Supply Voltages**

The Cooperative maintains one system of alternating current throughout its service area at a standard frequency of 60 cycles per second, which is supplied according to prudent utility practices. The Cooperative will determine the voltage, number of phases, and type of metering that will be supplied, depending upon the Cooperative's facilities available and the character, size and location of the load to be served. The Member will consult the Cooperative before proceeding with the purchase or installation or wiring of equipment. To avoid misunderstanding, this information should be in writing from both the Member and the Cooperative.

The service voltages described below are nominal and are subject to +/- (5%) variations.

Single Phase	3 Wire	120/240 Volts
Three Phase	4 Wire	120/208 Volts
Three Phase*	4 Wire	120/240 Volts
Three Phase	4 Wire	277/480 Volts

\* Available from an Overhead Transformer Bank Only

The service voltages described below are nominal and are subject to +/- (7-1/2%) variations.

Single Phase	2 Wire	7200 Volts
Three Phase	4 Wire	7200/12470 Volts

It will not be considered a violation of this voltage standard when voltages outside of the prescribed limits are caused by any of the following:

- A. Action of the elements/weather;
- B. Service interruptions;
- C. Temporary separation of parts of the system from the main system;
- D. Infrequent fluctuations of short duration;
- E. Voltage control for load management purposes;
- F. Addition by the Member of equipment without notification to the Cooperative;
- G. Emergency operations;
- H. The operation of the Member's equipment; or
- I. Transmission power supply issues or other causes beyond the Cooperative's control.

## **8. Service Interruptions**

The Cooperative does not guarantee continuous and uninterrupted electric service and will not be liable for loss or damage to any member's equipment caused by failure to supply electricity or by any interruption or reversal of the supply of electricity if due to any cause beyond the reasonable control of the Cooperative. The member shall notify the Cooperative promptly of any defect in

service or of any trouble or irregularity to the electric supply. Whenever service is to be interrupted for work on lines or equipment, the work will be planned to be done at a time, as far as practical, which will cause the least in-convenience to the member. The member to be affected by such interruptions shall, if practical, be notified in advance.

## **9. Power Factor**

The member will at all times maintain a power factor at a point of delivery as close to one hundred (100%) as practicable. Where the overall power factor of the Member's load is less than 95 percent (95%) lagging, the Cooperative may require the Member to install at the Member's expense equipment to correct the power factor, and may adjust the Member's billing demand as specified by the applicable rate schedule. The Cooperative reserves the right to measure the power factor at any time.

## **10. Integration of Distributed Energy Resources**

These rules shall be applied to all new Distributed Energy Resource (DER) interconnections less than 25kW connected at the member level to the distribution system. These rules are established to enable the Cooperative to monitor and manage the flow of electric energy from DER interconnections to their distribution system. A DER is a small-scale unit of power generation that operates locally and is connected to the grid at the distribution level. DERs include inverter-based alternative energy sources and systems, such as solar panels, wind mills and storage resources (batteries).

The member will not use the Cooperative's electric service in parallel with other electric service, nor will other electrical service be introduced on the premises of the member for use in conjunction with or as a supplement to the Cooperative's electric service, without the prior written consent of the Cooperative. Before standby and/or supplemental on-site generation is connected to the Cooperative's electric system, the member shall complete and follow the Cooperative's Interconnecting Standards and Agreements. The member will install all protective devices specified in these documents as well as meeting the requirements listed in the latest edition of the National Electric Code and the National Electric Safety Code, as applicable. A copy of the Cooperative's interconnection standards, agreement and application is available upon request and can be obtained from the cooperative's website at [chec.coop](http://chec.coop) or during regular business hours.

### **Application**

1. These rules for DER shall apply to all interconnections to the distribution system on or after July 22, 2021.
2. Rate Schedule QF shall apply to all interconnections governed by these rules.

### ***Information Requirements***

1. If the Member intends to interconnect Distributed Energy Resources with the Cooperative distribution system the Member will complete and submit the Interconnection Request Application Form provided by the Cooperative and additionally found in Small Generator Interconnection Procedures adopted by the Cooperative Board of Directors, together with the non-refundable processing fee specified in the Interconnection Request Application Form.
2. The Member will provide the legal name(s) of the owner(s) of the Distributed Energy Resource. The Member must provide its contact information. If another entity is responsible for interfacing

with the Cooperative, that contact information must also be provided on the Interconnection Request Application Form.

3. In addition to the Interconnection Request Application Form, the Member shall provide to the Cooperative construction details such as Nameplate AC/DC capacity, Load/Capacity factor, Fixed Racking (azimuth and altitude angle), Inverter (manufacturer's production report, model and serial number, inverter set points), Tracker Racking (type, make, model), Modules (# of panels, manufacturer, model, and interconnection voltage).

### ***Device Requirements***

1. Smart Inverters – All inverters connected to the distribution system must be capable of utilizing smart functions for grid support, and must have communication capabilities for monitoring and managing the DER in accordance with the latest approved editions of IEEE Standard 1547-2018 and UL Standard 1741 as amended and supplemented, once it has been updated to incorporate IEEE Standard 1547-2018).
2. DER Management Device – All DER resources, whether Member-Owned or Third Party-Owned that are applying to interconnect with the Cooperative's distribution system must install smart inverters as defined in Requirement 1. Additionally, a DER Management Device will be directed by the Cooperative and must be installed and connected to the data port of the smart inverter. Unless otherwise approved by Cooperative, the communication medias with the DER Management device may use either: (1) Meter Network radios connected wirelessly to the Cooperative RF mesh network if available or (2) Cellular Modem. Cellular modems will be permitted only in instances when a mesh network radio is not feasible, as determined at the sole discretion of Cooperative. These devices shall be installed and maintained to enable connection to the Cooperative operations and control platform
3. DER Monitoring and Management – By installation of an approved DER system in accordance with Device Requirements 1 and 2, Member and owner agree to allow the Cooperative and/or its Wholesale Power Provider to monitor and manage the DER system.
4. All DER shall be installed in accordance with codes, standards, and certification requirements listed in Attachment 1 and/or deemed applicable by the Cooperative. In addition, any installation on the member's side of the service point shall conform with the applicable sections of the National Electric Code (NEC), especially Articles 690, 705, and 706 to accommodate an interconnected electric power production source. The Cooperative will review the design of the proposed DER and determine if it is safe to operate.
5. The Interconnection Customer must install a manual load- break disconnect switch or safety switch as a clear visible indication of switch position between the Cooperative System and the Interconnection Customer. The switch must have padlock provisions for locking in the open position. The switch must be near the Cooperative's meter and visible to, and accessible to, Cooperative personnel. The switch must be in close proximity to, and on the Interconnection Customer's side of the point of electrical interconnection with the Cooperative's system. The switch must be labeled "Generator Disconnect Switch." The switch must either isolate the Interconnection Customer and its associated load from Cooperative's System or disconnect only the Generator from Cooperative's System and will be accessible to the Cooperative at all times. The Cooperative, in its sole discretion, may waive this requirement if circumstances warrant.
6. Interconnection Customer will install a permanent warning label in a conspicuous place in close proximity to the electric meter(s) or on the meter base(s) to notify Cooperative personnel that there is a generator installed on the load side of the meter. The warning label shall not be placed in a location that would interfere with the ability of Cooperative personnel to read the electric meter(s). Interconnection Customer shall also place a warning label on the Isolation Device. The warning labels must be in place before the Generator can be interconnected with Cooperative's System.

### ***Certificate of Completion***

1. After installation of the Generating Facility, the Interconnection Customer will submit the Certificate of Completion form provided by the Cooperative to the Cooperative. Prior to parallel operation, the Cooperative may inspect the Generating Facility for compliance with standards including a witness test and the scheduling of an appropriate metering replacement, if necessary.
2. If a witness test is required but the outcome is not satisfactory, the Cooperative has the right to disconnect the Generating Facility. The Member has no right to operate in parallel with the Cooperative until being notified by the Cooperative that it is so authorized.
3. Interconnection and parallel operation of the DER is subject to the Terms and Conditions stated in the cooperative's interconnection standard and agreement for small generation 25kW or less. .

### ***Interconnection Metering, Curtailment, Control, and Data Acquisition***

Any metering necessitated by the use of the DER will be installed at the Member's expense in accordance with all applicable regulatory requirements or the Cooperative's specifications. This includes metering, telemetry, control, and curtailment requirements of the Cooperative's wholesale power provider.

#### **Insurance:**

1. Member shall obtain and retain, for as long as its Generator is interconnected with the Cooperative's system, liability insurance with protects Member from claims for bodily injury and/or property damage. The minimum coverage shall be comprehensive general liability insurance with coverage at least \$100,000 per occurrence. Prior to interconnection of the Generator with Cooperative's system, Member shall furnish a properly executed certificate of insurance to Cooperative clearly evidencing the required coverage and any exclusion applicable to such coverage. The certificate shall provide that the insurance coverage shall not be canceled or modified unless and until Cooperative receives at least thirty (30) days prior written notice. Member shall further replace such certificates for policies expiring during the period its Generator is interconnected with Cooperative's system. Cooperative has the right to refuse to establish or continue the interconnection of Member's generation facility to Cooperative's system if such insurance is not in effect.

## **11. Reasons for Disconnects and Reconnects**

- a. Service may be disconnected immediately and without notice for the following reasons:
  - i. Discovery of meter tampering; or
  - ii. Diversion of electric current; or
  - iii. Discovery of a condition determined by the Cooperative to be hazardous; for violation of and/or non-compliance with any applicable state or local laws, regulations and codes pertaining to electric service; and for non-compliance with bylaws, rules and regulations of the Cooperative; or
  - iv. By order of public authority; or
  - v. For repairs, emergency operations, unavoidable shortages, or interruptions in the Cooperative's supply source; or

- vi. Unauthorized distributed generation connected to the electric grid or for members with approved distributed generation, in order to guarantee the member owned generation does not endanger line and service personnel.
- b. Electric service will be reconnected in the above cases under the following conditions:
  - i. Correction of the infraction; and
  - ii. Payment for any estimated unmetered or diverted current; and
  - iii. Payment of the applicable reconnection fee; and
  - iv. The member agrees to comply with reasonable requirements to protect the Cooperative against further infractions.
  - v. Repairs have been completed and/or the system has returned to normal conditions.

## **12. Information for Members**

The Cooperative's Service Rules and Regulations and Bylaws are posted on the Cooperative's web site, or copies are available upon request during regular business hours.

## **13. Responsibility of Member for Service**

Each member is solely responsible for all electricity used until service is disconnected.

## SCHEDULE OF CHARGES

### Late Fees

Late Fee.....Greater of 2.0% of past due balance or \$5.00

### Service Fees

Security Deposit.....greater of \$100.00 or (2) months electric bills  
With (1) Year Bank or Credit Card Draft .....greater of \$100.00 or (1) month electric bill

Connect New Service (overhead or underground)  
0-200 Amp ..... \$200.00  
201- 400 Amp ..... \$400.00  
Over 400 Amp..... \$1.00 per Amp

Reconnect / Transfer Existing Service (regular business hours) ..... \$50.00  
Reconnect / Transfer (after business hours)..... \$100.00

Note: The monthly facility charge will be collected for each month the service was disconnected, up to 24 months, for reconnections by the same member at the same location.

Disconnect Trip..... \$15.00

Returned Check / E-check / Draft ..... \$30.00

Security Light Reconnect..... \$15.00

Small Claims Court Fee ..... Actual Cost

Monthly External Surge Arrestor Fee ..... \$3.00 or \$6.99

Meter Test<sup>1</sup> (Self Contained) ..... \$45.00

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1 - If the meter test results in a variance of +/- 5%, the electric bill will be adjusted for the prior three months and the meter test charge will be refunded.  
2 - This charge is in addition to the estimated or actual usage.

Meter Tampering <sup>2</sup> .....	\$200.00
Interconnection Application Fee .....	\$250.00

### **Overhead Line Extensions**

Overhead Secondary Service Additional Pole .....	\$235.00
Overhead Primary 1, 2, or 3 Phase (700 Ft. or Less) per foot .....	\$0.00
(> 700 Ft.), 1 Phase .....	\$4.50/ft.
(> 700 Ft.), Multiphase .....	\$6.00/ft.
<b>Overhead Development</b>	
1 Phase .....	\$2.10/ft.
Multi Phase .....	\$3.70/ft.

### **Underground Line Extensions**

<b>200 Amp Underground Secondary Service (Single or Multi Phase)</b>	
From O/H Pole .....	\$220.00 plus \$6.00/trench ft.
From UG Source .....	\$80.00 plus \$6.00/trench ft.
<b>400 Amp Underground Secondary Service (Single or Multi Phase)</b>	
From O/H Pole .....	\$335.00 plus \$8.75/trench ft.
From UG Source .....	\$80.00 plus \$8.75/trench ft.
<b>600 Amp Underground Secondary Service (Single or Multi Phase)</b>	
From O/H Pole .....	\$385.00 plus \$10.75/trench ft.
From UG Source .....	\$80.00 plus \$10.75/trench ft.
<b>Underground Primary Facilities</b>	
Single Phase .....	\$8.00/trench ft.
Multi Phase .....	\$9.00/trench ft.
<b>New UG Development</b>	
200 Amp Primary or Secondary Cable/trench foot.....	\$14.00
600 Amp Primary.....	600 Amp Material Cost

Non Standard Trenching ..... Actual Cost

Road/Driveway/Paved Areas/Wetland Bores ..... Actual Cost

**The Cooperative will review the Service Rules and Regulations as needed to keep abreast of current economic and market conditions. The policies, practices, and contribution in aid of construction charges contained herein are subject to change without notice but the latest updates are available on the Cooperative web site or upon request during regular business hours.**

Board Approved: Effective:

### **Attachment 1 Certification Codes and Standards**

ANSI C84.1-1995 (R2020) Electric Power Systems and Equipment – Voltage Ratings (60 Hertz)

IEEE 1547-2018, Standard for Interconnecting Distributed Resources with Electric Power Systems

IEEE Std 100-2000, IEEE Standard Dictionary of Electrical and Electronic Terms

IEEE Std 519-1992 (R2014), IEEE Recommended Practices and Requirements for Harmonic Control in Electrical Power Systems

IEEE Std C37.108-1989 (R2002), IEEE Guide for the Protection of Network Transformers

IEEE Std C37.90.1-1989 (R2012), IEEE Standard Surge Withstand Capability (SWC) Tests for Protective Relays and Relay Systems

IEEE Std C37.90.2-1995 (R2004), IEEE Standard Withstand Capability of Relay Systems to Radiated Electromagnetic Interference from Transceivers

IEEE Std C57.12.44-2014, IEEE Standard Requirements for Secondary Network Protectors

IEEE Std C62.41.2-2002, IEEE Recommended Practice on Characterization of Surges in Low Voltage (1000V and Less) AC Power Circuits

IEEE Std C62.45-1992 (R2002), IEEE Recommended Practice on Surge Testing for Equipment Connected to Low-Voltage (1000V and Less) AC Power Circuits

NEMA MG 1-1998 (R2016), Motors and Small Resources



NEMA MG 1-2003 (R2017), Motors and Generators

NFPA 70 (2020), National Electrical Code

OSHA 1910.269 (d), Hazardous energy control (lockout/tagout) procedures

OSHA 1910.269 (m), Deenergizing lines and equipment for employee protection

UL 1741, Inverters, Converters, Controllers and Interconnection System Equipment  
for Use With Distributed Energy Resources

These references include and incorporate by reference any updates or additions to the listed standards and these standards (or “families” of standards) shall apply to any future applications.