



Decatur  
County REMC

A Touchstone Energy® Cooperative



**Distributed Generation Procedures  
and  
Guidelines Manual for Members**

As adopted by the Board of Directors of  
Decatur County REMC  
July 2011

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MEMBER GUIDELINES FOR ELECTRIC POWER GENERATOR INSTALLATION AND INTERCONNECTION

APPLICATION FOR INTERCONNECTION AND PARALLEL OPERATION OF DISTRIBUTED GENERATION

AGREEMENT FOR INTERCONNECTION AND PARALLEL OPERATION OF DISTRIBUTED GENERATION – SHORT FORM

AGREEMENT FOR INTERCONNECTION AND PARALLEL OPERATION OF DISTRIBUTED GENERATION – LONG FORM

## **GENERAL**

In order to receive service from the REMC, a customer must join or become a “Member” of the REMC. Throughout this manual, customers will be referred to as “Members.” For more information about the REMC membership application process, including any applicable membership fees or deposits, see the REMC to request new member information.

It is the intent of the REMC to allow Members to install qualifying Distributed Generation (DG), provided the Member’s DG facility does not adversely affect the REMC, is less than 700 kW in size, and is rated to produce an amount of electricity less than or equal to the amount of electricity the Member for whom the DG is installed is reasonably expected to consume. The Member must conduct his/her own analysis to determine the economic benefit of DG operation.

A DG facility that is not connected to the REMC’s system in any way is known as “stand-alone” or “isolated” DG. The Member may operate a DG facility in stand-alone or isolated fashion as long as the DG facility does not adversely affect the REMC’s system. A DG facility connected in any way to the REMC’s system shall be considered as in “parallel.” For purposes of this Manual, a DG facility is considered operating in “parallel” anytime it is connected to the REMC’s system in any way, even if the Member does not intend to export power. All provisions of this Manual shall apply to parallel operation of DG facilities as so defined.

This Manual is not a complete description or listing of all laws, ordinances, rules and regulations, nor is this Manual intended to be an installation or safety manual. The Member requesting to interconnect a DG facility to the REMC’s system is responsible for and must follow, in addition to all provisions of this Manual, the REMC’s Rules and Regulations and Tariffs for Electric Service, the REMC’s Line Extension Policy, the Policies and Procedures of the REMC’s power supplier where applicable, the Policies and Procedures of the REMC’s transmission service provider where applicable, the current IEEE 1547 Standard Guide for Distributed Generation Interconnection (a copy is on file at the REMC for inspection along with information so the Member may obtain his/her own copy), other applicable IEEE standards, applicable ANSI standards, including ANSI C84.1 Range A and any other applicable governmental and regulatory laws, rules, ordinances or requirements. All legal, technical, financial, etc. requirements in the following sections of this Manual must be met prior to interconnection of the DG facility to the REMC’s system.

A Member may serve all load behind the meter at the location serving the DG facility but will not be allowed to serve multiple meters, multiple consuming facilities or multiple Members with a single DG facility or under a single DG application without prior approval by the REMC.

DG facilities larger than 700 kW and facilities rated to produce an amount of electricity greater than the amount of electricity the Member for whom the DG is installed is reasonably expected to consume are not covered by this Manual and will be considered by the REMC on a non-discriminatory case-by-case basis.

## **I. DETERMINE THE CATEGORY OF DISTRIBUTED GENERATION FACILITY**

### 1) Connection Level Category

- a) Connected to the REMC's system  
The Member requests and/or the Member's DG facility requires connection to the REMC's system. All provisions of this manual cover this category.
- b) Connected to the REMC's Power Supplier's system  
The Member requests and/or the Member's DG facility requires connection to the REMC's Power Supplier's system. This manual does NOT cover this category. The Member should contact the REMC's Power Supplier directly.

### 2) Contact Persons

- a) The REMC's contact person for all matters related to DG interconnection shall be:
  - Name: Chris Gallaway
  - Address: 1430 W Main  
Greensburg, IN 47240
  - Phone: (812) 663-3391
  - Email: [DG@dcremc.com](mailto:DG@dcremc.com)

### 3) Ownership of facilities

The Member shall either own and be solely responsible for all expense, installation, maintenance and operation of all facilities, including all power generating facilities at and beyond the point of delivery as defined in the REMC's tariffs, or contract with another person to finance, install, or maintain facilities on the Member's side of the

meter, regardless of whether the Member takes ownership of the installed distributed generation.

#### 4) Power Export Category

a) Parallel – no power export

The Member operates a DG facility connected in any way to the REMC system but with no intention to export power.

b) Parallel – primarily intended to be less than or equal to consumption.

The Member operates a DG facility connected in any way to the REMC's system rated to produce an amount of electricity less than or equal to the amount of electricity the Member for whom the DG is installed is reasonably expected to consume with the intention to export excess power.

c) Parallel – other

The Member operates a DG facility where either the power generated is intended for export only or where the DG facility is rated to produce an amount of electricity greater than the amount of electricity the Member for whom the DG is installed is reasonably expected to consume: This manual does not cover this category. The REMC will consider applications for service under this category on a case-by-case basis.

#### 5) Qualifying or Non-Qualifying Category

a) Qualifying Facilities (QF) are defined by the Public Utility Regulatory Policies Act of 1978 (PURPA). Refer to CFR Title 26, Volume 4, Sec. 292.204.

b) The distinction between QF and Non-Qualifying Facilities (NQF) mainly deals with fuel use.

(1) A QF is defined as electric generation with a capacity of not more than 2 MW provided by renewable energy technology, as defined by PURPA, installed on a retail electric customer's (Member's) side of the meter. In general, this means that the DG must have as its primary energy source biomass, waste, renewable resources, geothermal resources or any combination. See PURPA for a full description.

(2) Solar electric equipment installed on the Member's side of the meter at a building or other facility owned or operated by an independent school district, irrespective of the level of generation capacity shall be considered as a QF, but is not covered by the provisions of the manual if greater than 700 kw.

(3) DG facilities not designated as QF under the provisions of PURPA will be considered NQF by the REMC.

- c) The REMC will provide interconnection for a DG facility to Members, subject to the provisions of this Manual and all other applicable rules and regulations.
- d) The REMC will purchase power from a Member with a DG facility that is a QF, subject to the provisions of this policy and other applicable rules and regulations.
- e) The REMC may choose to provide interconnection and may choose to purchase power from a Member with a DG facility that is an NQF at the sole discretion of the REMC as determined on a non-discriminatory case-by-case basis.

## **II. MEMBER'S INITIAL REQUIREMENTS**

### 1) Notification

- a) The Member must meet the requirements of all REMC tariffs, conditions of service, membership and other service rules and regulations in addition to the requirements in the Manual.
- b) The rated capacity of the Member's DG must not exceed the REMC's service capacity.
- c) Anyone owning or operating a DG facility in parallel with the REMC's system as defined in this manual must notify the REMC of the existence, location and category of the DG facility, whether the Member intends to export power to the REMC or not.

### 2) Service Request

- a) In order to interconnect a DG facility to the REMC system, a Member must first submit to the REMC the "REMC Application for Interconnection and Parallel Operation of Distributed Generation," using the form included in this manual.
- b) A separate form must be submitted for each facility.

### 3) Application Fees

The REMC and its Power Supplier, if requested by the REMC, may conduct a service study, coordination study and/or utility system impact study prior to interconnection of a DG facility. See the section on Pre-Interconnection Studies that follows.

- a) DG facilities for which no pre-interconnection study fee may be charged  
The REMC will not charge a Member a fee to conduct a pre-interconnection study for pre-certified DG units up to 500 kW that export not more than 15% of the total load on a single radial feeder and contribute not more than 25% of the maximum



potential short circuit current on a single radial feeder. All other DG facilities may be charged a fee to offset the costs incurred in a pre-interconnection study.

- b) DG facilities for which pre-interconnection study fees may be charged  
Prior to the interconnection of a DG facility for which a pre-interconnection study fee may be charged, the REMC may charge a Member a fee to offset its costs incurred in a pre-interconnection study.
  - i) In the case of DG facilities (1) to be operated in parallel with the REMC's system, (2) with no intention to export power to the REMC and (3) that are of standard design and intended entirely as emergency or back-up power supply for the facility, the REMC may waive the application fee.
  - ii) The Member shall receive an estimate of the study cost before the REMC initiates the study.

### **III. REMC AND POWER SUPPLIER REVIEW PROCESS**

#### Pre-Interconnection Studies for Interconnection of DG

##### 1) General

The REMC and/or its Power Supplier, if requested by the REMC, may conduct a service study, coordination study and/or utility system impact study prior to interconnection of a DG facility. In instances where the studies are deemed necessary, the scope of such studies shall be based on the characteristics of the particular DG facility to be interconnected and the REMC's system at the specific proposed location. By agreement between the REMC and the Member, studies related to interconnection of a DG facility on the Member's premises may be conducted by a qualified third party.

##### 2) Time to complete

The conduct of the pre-interconnection studies shall take no more than four weeks.

##### 3) Reporting

The REMC shall prepare written reports of the study findings and make them available to the Member.

##### 4) Costs and Benefits

The study shall consider both the costs incurred and the benefits realized as a result of the interconnection of the distributed generation to the REMC's system.

##### 5) Network service

Network service is defined as two or more REMC primary distribution feeder sources electrically tied together on the secondary or low voltage side to form one power source for one or more customers. The service is designed to maintain

service to the customers even after the loss of one of these primary distribution feeder sources. In the event that a DG facility requests interconnection to a secondary network system, additional requirements may apply.

6) Communications

The REMC and the Member agree to treat knowledge gained as a result of the application and/or interconnection studies about the other party as confidential.

7) Liability

The Member acknowledges and agrees that any review or acceptance of such plans, specifications and other information by the REMC and/or its Power Supplier shall not impose any liability on the REMC and/or its Power Supplier and does not guarantee the adequacy of the Member's equipment or DG facility to perform its intended function. The REMC and its Power Supplier disclaim any expertise or special knowledge relating to the design or performance of generating installations and does not warrant the efficiency, cost-effectiveness, safety, durability, or reliability of such DG installations.

8) Non-discrimination

All applications for interconnection and parallel operation shall be processed by the REMC in a non-discriminatory manner. Applications will be processed in the order that they are received. It is recognized that certain applications may require minor modifications while they are being reviewed by the REMC. Such minor modifications to a pending application shall not require that it be considered incomplete and treated as a new or separate application.

#### **IV. SALES TO AND PURCHASES FROM A DG FACILITY**

For QF less than 700 kw and rated to produce an amount of electricity less than or equal to the amount of electricity the Member for whom the DG is installed is reasonably expected to consume and where the Member desires to export power:

- a) The REMC shall bill the Member for the energy supplied by the REMC during each billing period according to the REMC's applicable retail rate schedule.
- b) Energy supplied by the Member to the REMC's system exceeding on site consumption shall be purchased by the REMC at the REMC's avoided cost of generation.
- c) The Member shall sign an approved contract for interconnection service with the REMC.
- d) In addition to all other charges, the REMC may bill the Member for any additional facilities charges as determined by the REMC and appended to the Interconnection Agreement.

- e) The REMC may, at its sole discretion, as determined on a case-by-case non-discriminatory basis, purchase power from an NQF.
- f) The type of metering to be used shall provide data so the REMC can determine the energy supplied to the Member by the REMC in excess of on-site consumption and the energy supplied to the REMC by the Member.
- g) The REMC shall not be required to make any purchases that will cause the REMC to no longer be in compliance with any applicable contracts or all-power contract requirements with its power supplier(s) unless required by law or state regulation.
- h) Any renewable energy credits (RECs) resulting from the operation of the DG is the property of the DG Member unless sold or otherwise transferred by the Member.

## **V. MEMBER'S RESPONSIBILITY PRIOR TO OPERATION**

### 1) Line Extension and Modifications to REMC Facilities

- a) If interconnection of a particular DG facility will require substantial capital upgrades to the REMC system, the REMC shall provide the Member with an estimate of the schedule and Member's cost for the upgrade. If the Member desires to proceed with the upgrade, the Member and the REMC will enter into a contract for the completion of the upgrade.
- b) If the REMC concludes that an application for interconnection describes facilities that may require additional devices and operating schemes beyond those described in this manual, the REMC shall make those additional requirements known to the Member at the time the interconnection studies are completed.
- c) As a part of the interconnection analysis performed by the REMC, the Member will be provided with an estimate of any line extension or other cost to be incurred in providing electric delivery service to the Member's DG facility.
- d) Notwithstanding the REMC's line extension policy, the Member shall pay the full cost of construction of any transmission, substation, distribution, transformation, metering, protective, or other facilities or equipment which is required to serve the Member's DG facility.
- e) In the event it is necessary at the time of initial interconnection or at some future time for the REMC and/or its Power Supplier to modify electric delivery systems because the Member's DG and/or the quality of power provided by the Member's DG adversely affects the REMC and/or its Power Supplier's delivery system, the

Member will reimburse the REMC and/or its Power Supplier for all costs of modifications required for the interconnection of the Member's DG facilities.

## 2) Applicable Regulations

The DG facility shall be installed and operated subject to and in accordance with the terms and conditions set forth in the REMC's rules, regulations, bylaws, rates and tariffs, as amended from time to time, and, if applicable, approved by the REMC's board of directors, which are incorporated herein by reference, and in compliance with all applicable federal, state and local laws, regulations, zoning codes, building codes, safety rules, environmental restrictions, ordinances and regulations, including without limitation, the most recent IEEE Standard 1547 Guide for Distributed Generation Interconnection, applicable ANSI standards, including ANSI C84.1 Range A, Midwest Independent System Operator (MISO) directives and MISO guidelines, and in accordance with industry standard prudent engineering practices.

## 3) Liability Insurance

A Member meeting the standards of this manual shall not be required to purchase any amount, type or classification of liability insurance the Member would not have in the absence of the DG. The REMC recommends, however, the Member obtain liability insurance including contractual liability insurance covering indemnity agreements which insures the Member against all claims for property damage and for personal injury or death arising out of, resulting from or in any manner connected with the installation, operation and maintenance of the Member's generating equipment.

## 4) Warranty

The Member must provide credible tangible proof that the DG to be interconnected has or had an original manufacturer's warranty against breakdown or undue degradation for at least five years.

## 5) Contracts

The Member will sign and deliver an Agreement for Interconnection to the REMC substantially in the form as shown in the DECATUR COUNTY REMC AGREEMENT FOR INTERCONNECTION AND PARALLEL OPERATION OF DISTRIBUTED GENERATION included in this Manual.

## 6) Initial Interconnection

The Member shall provide the REMC with a completed application for interconnection and parallel operation with the REMC system using the form contained in the manual. The interconnection of the DG to the REMC system shall take place on the following schedule:

- a) For a facility qualifying under the provisions of pre-certified equipment, as certified under the provisions of the Indiana Utility Regulatory Commission, interconnection shall take place within four weeks of the REMC's receipt of a completed interconnection agreement.

- b) For other facilities, interconnection shall take place within six weeks of the REMC's receipt of a completed application, except as described in this manual.
- c) If interconnection of a particular DG facility will require substantial capital upgrades to the REMC system, the REMC shall provide the Member with an estimated of the schedule and Member's cost for the upgrade. If the Member desires to proceed with the upgrade, the Member and the REMC will enter into a contract for the completion of the upgrade. The interconnection shall take place no later than two weeks following the completion of such upgrades. The REMC shall employ reasonable efforts to complete such system upgrades in the shortest time reasonable practical.
- d) The REMC shall use reasonable efforts to interconnect facilities within the time frames described in this manual. If in a particular instance the REMC determines that it cannot interconnect a DG facility within the time frames stated in this manual, it will notify the DG Member in writing of that fact. The notification will identify the reason or reasons interconnection could not be performed in accordance with the schedule and provide an estimated date for interconnection.
- e) The REMC's review process and any inspections are intended as a means to safeguard the REMC's facilities and personnel. The Member acknowledges and agrees that any review or acceptance of such plans, specifications and other information by the REMC and/or its Power Supplier shall not impose any liability on the REMC and/or its Power Supplier and does not guarantee the adequacy of the Member's equipment or DG facility to perform its intended function. The REMC and its Power Supplier disclaims any expertise or special knowledge relating to the design or performance of generating installations and does not warrant the efficiency, cost-effectiveness, safety, durability, or reliability of such DG installations.

#### 7) Inspection and start-up

The Member shall provide the REMC with notice at least two weeks before the initial energizing and start-up testing of the Member's DG equipment and the REMC may witness the testing of any equipment and protective systems associated with the interconnection. The Member shall revise and re-submit the application with information reflecting any proposed modification that may affect the safe and reliable operation of the REMC system.

## **VI. OPERATION OF PARALLEL FACILITY**

### 1) General

The purpose of this section is to describe the requirements and procedures for safe and effective connection and operation of DG.

- a) The Member may operate a 60 Hertz (Hz) three-phase or single-phase DG facility, in parallel with the REMC system pursuant to an interconnection agreement, provided that the equipment meets or exceeds the requirements of this manual.
- b) This manual describes typical interconnection requirements. Certain specific interconnection locations and conditions may require the installation and use of more sophisticated protective devices and operating schemes, especially when the facility is exporting power to the REMC system.

## 2) Pre-certified equipment

Equipment pre-certified under the provisions of the Indiana Utility Regulatory Commission may be installed on the REMC's system in accordance with an approved interconnection control and protection scheme without further review of their design by the REMC, though the protective settings and operations shall be those specified by the REMC.

## 3) General interconnection and protection requirements

- a) The DG shall be equipped with protective hardware and software designed to prevent the DG from being connected to a de-energized circuit owned by the REMC.
- b) The DG shall be equipped with the necessary protective hardware and software designed to prevent connection or parallel operation of the DG with the REMC system unless the REMC system voltage and frequency are of normal magnitude.
- c) The Member will be responsible for protecting his or her DG in such a manner that REMC system outages, short circuits, or other disturbances including zero sequence currents and Ferro resonant over-voltages do not damage the Member's DG. The Member's protective equipment shall also prevent unnecessary tripping of the REMC system breakers that would affect the REMC system's capability of providing reliable service to other members.
- d) Circuit breakers or other interrupting devices at the point of common coupling must be capable of interrupting maximum available fault current.

## 4) Manual disconnect

The Member will furnish and install a manual disconnect device that has a visual break that is appropriate to the voltage level (a disconnect switch, a draw-out breaker, or fuse block), and is accessible to the REMC personnel, and capable of being locked in the open position. The Member shall follow the REMC's switching, clearance, tagging, and locking procedures, which the REMC shall provide for the Member.

## 5) Prevention of interference

a) Voltage

The Member will operate its DG in such a manner that the voltage levels on the REMC system are in the same range as if the DG were not connected to the REMC system. The Member shall provide an automatic method of disconnecting the DG from the REMC system if a sustained voltage deviation in excess of +5% or -10% from normal voltage persists for more than 30 seconds, or a deviation in excess of +10% or -30% from normal voltage persists for more than 10 cycles. The Member may reconnect when the REMC system voltage and frequency return to normal range and the system is stabilized.

b) Flicker

The Member's equipment shall not cause excessive voltage flicker on the REMC's system. This flicker shall not exceed 3% voltage dip, in accordance with the IEEE Standard 519 as measured at the point of common coupling.

c) Frequency

The operating frequency of the Member's DG shall not deviate more than +0.5 Hz or -0.7 Hz from a 60 Hz base. The Member shall automatically disconnect the DG from the REMC system within 15 cycles if this frequency tolerance cannot be maintained. The Member may reconnect when the REMC system voltage and frequency return to normal range and the system is stabilized.

d) Harmonics

In accordance with IEEE Standard 519 the total harmonic distortion (THD) voltage shall not exceed 5% of the fundamental 60 Hz frequency nor 3% of the fundamental frequency for any individual harmonic when measuring at the point of common coupling with the utility system.

e) Fault and line clearing

The Member shall automatically disconnect from the REMC system within 10 cycles if the voltage on one or more phases falls below -30% of nominal voltage on the REMC system serving the Member premises. This disconnect timing also ensures that the DG is disconnected from the REMC system prior to automatic re-close of breakers. The member may reconnect when the REMC system voltage and frequency return to normal range and the system is stabilized. To enhance reliability and safety and with the REMC's approval, the member may employ a modified relay scheme with delayed tripping or blocking using communications equipment between the Member and the REMC.

f) Control, protection and safety protection requirements specific to single phase generators of 50 kW or less connected to the REMC's system Exporting to the REMC's system may require additional operational or protection devices and will require coordination of operations with the REMC. The necessary control, protection and safety equipment specific to single-phase DG of 50 kW or less connected to secondary or primary systems include an interconnect disconnect

device, a generator disconnect device, an over-voltage trip, and under-voltage trip, an over/under frequency trip, and a synchronization check for synchronous and other types of DG with stand-alone capability.

g) Control, protection and safety equipment requirements specific to three-phase synchronous generators, induction generators, and inverter systems

i) Three phase synchronous generators

The Member's DG circuit breakers shall be three-phase devices with electronic or electromechanical control. The Member is solely responsible for properly synchronizing its generator with the REMC. The excitation system response ratio shall not be less than 0.5. The generator's excitation system(s) shall conform, as near as reasonably achievable, to the field voltage versus time criteria specified in the ANSI Standard C50.13-1989 in order to permit adequate field forcing during transient conditions.

ii) Three phase induction generators and inverter systems

Induction generation may be connected and brought up to synchronous speed (as an induction motor) if it can be demonstrated that the initial voltage drop measured on the utility system at the point of common coupling is within the visible flicker stated in this manual. Otherwise, the Member may be required to install hardware or employ other techniques to bring voltage fluctuations to acceptable levels. Line-commutated inverters do not require synchronizing equipment. Self-commutated inverters whether of the utility-interactive type or stand-alone type shall be used in parallel with the utility system only with synchronizing equipment. Direct-current generation shall not be operative in parallel with the utility system.

h) Protective function requirements

i) Facilities rated ten kW or less

Must have an interconnect disconnect device, a generator disconnect device, an over-voltage trip, an under-voltage trip, an over/under frequency trip, and a manual or automatic synchronizing check (for facilities with stand alone capability).

ii) Facilities rated in excess of ten kW but not more than 500 kW

Must have an interconnect disconnect device, a generator disconnect device, an over-voltage trip, and under-voltage trip, and over/under frequency trip, a manual or automatic synchronizing check (for facilities with stand alone capability), either a ground over-voltage trip or a ground over-current trip depending on the ground system if required by the REMC, an reverse power sensing if the facility is not exporting (unless the generator is less than the minimum load of the Member).

iii) Facilities rated more than 500 kW



Must have an interconnect disconnect device, a generator disconnect device, an over-voltage trip, and under-voltage trip, and over/under frequency trip, either a ground over-voltage trip or a ground over-current trip depending on the ground system if required by the REMC, an automatic synchronizing check (for facilities with stand alone capability) and reverse power sensing if the facility is not exporting (unless the facility is less than the minimum load of the customer). If the facility is exporting power, the power direction protective function may be used to block or delay the under frequency trip with the agreement of the REMC.

i) Facilities not identified

In the event the standards for a specific unit or facility are not set out in this manual, the REMC and the Member may interconnect a facility using mutually agreed upon technical standards.

j) Requirements specific to a facility paralleling for 60 cycles or less (closed transition switching)

The protective devices required for facilities 10 MW or less which parallel with the REMC system for 60 cycles or less are an interconnect disconnect device, a generator disconnect device, an automatic synchronizing check for generators with stand alone capability, an over-voltage trip, an under voltage trip, an over/under frequency trip, and either a ground over-voltage trip or a ground over-current trip depending on the grounding system, if required by the REMC.

k) Inspection and start-up

The Member shall provide the REMC with notice at least two weeks before the initial energizing and start-up testing of the Member's DG equipment and the REMC may witness the testing of any equipment and protective systems associated with the interconnection. The Member shall revise and re-submit the application with information reflecting any proposed modification that may affect the safe and reliable operation of the REMC system.

l) Site testing and commissioning

Testing of protection systems shall include procedures to functionally test the protective elements of the system up to and including tripping of the generator and interconnection point. Testing will verify all protective set points and relay/breaker trip timing. The REMC may witness the testing of installed switchgear, protection and generator. The Member is responsible for routine maintenance of the generator and control and protective equipment. The Member will maintain records of such maintenance activities, which the REMC may review at reasonable times. For DG systems greater than 500 kW, a log of generator operations shall be kept. At a minimum, the log shall include the date, generator time on, generator time off, and megawatt and megavar output. The REMC may review such logs at reasonable times.

## 6) Access

- a) Persons authorized by the REMC will have the right to enter the Member's property for purposes of testing, operating the disconnect switch, reading or testing the metering equipment, maintaining right-of-way or other DG facility equipment and/or REMC service requirement. Such entry onto the Member's property may be without notice.
- b) If the Member erects or maintains locked gates or other barriers, the Member will furnish the REMC with convenient means to circumvent the barrier for full access for the above-mentioned reasons.

#### 7) Liability for Injury and Damages

- (a) The Member assumes full responsibility for electric energy furnished at and past the point of delivery and shall indemnify the REMC and/or its Power Supplier against and hold the REMC and/or its Power Supplier harmless from all claims for both injuries to persons, including death resulting therefrom, and damages to property occurring upon the premises owned or operated by Member arising from electric power and energy delivered by the REMC or in any way arising directly or indirectly from the Member's DG facility.
- (b) The REMC and/or its Power Supplier shall not be liable for either direct or consequential damages resulting from failures, interruptions, or voltage and waveform fluctuations occasioned by causes reasonably beyond the control of the REMC and/or its Power Supplier including, but not limited to, acts of God or public enemy, sabotage and/or vandalism, accidents, fire, explosion, labor troubles, strikes, order of any court or judge granted in any bona fide adverse legal proceeding or action, or any order of any commission, tribunal or governmental authority having jurisdiction. ALL PROVISIONS NOTWITHSTANDING, IN NO EVENT SHALL THE REMC BE LIABLE TO THE MEMBER FOR ANY INTEREST, LOSS OF ANTICIPATED REVENUE, EARNINGS, PROFITS, OR INCREASED EXPENSE OF OPERATIONS, LOSS BY REASON OF SHUTDOWN OR NON-OPERATION OF MEMBER'S PREMISES OR FACILITIES FOR ANY INDIRECT, INCIDENTAL, OR CONSEQUENTIAL, PUNITIVE OR EXEMPLARY DAMAGES ARISING OUT OF OR RELATED, IN WHOLE OR PART, TO THIS AGREEMENT. The REMC shall not be liable in any event for consequential damages.
- c) The Member is solely responsible for insuring his/her facility complies with all applicable regulations including, but not limited to, laws, regulations, ordinances, REMC and REMC Power Supplier tariffs, policies and directives, and MISO rules, policies and directives.

#### 8) Metering/Monitoring

- a) The REMC may supply, own and maintain all necessary meters and associated equipment to record energy purchases by the Member and energy exports to the REMC system.
- b) The Member shall supply at no cost to the REMC a suitable location on his or her premises for the installation of the REMC's meters and other equipment.
- c) The facility will be metered by one of the following methods, at the discretion of the REMC. The two metered values shall be separately accounted for by the REMC.
  - (1) Installing a single meter with two registers capable of measuring in-flow and out-flow at the point of common coupling or
  - (2) Installing separate meters, that measure the in-flow and the out-flow at the point of common coupling.
- d) The meter shall be read at a time or times of month determined by the REMC's for acquiring metering data.
- e) The REMC may, at its sole discretion, require the Member to pay the REMC any significant differential cost of the metering and monitoring equipment and installation expense beyond that that a standard Member in the same rate class would require.
- f) Meter testing shall follow the REMC's standard policy on metering testing and accuracy.
- g) At its sole discretion, the REMC may meter the facility at primary or secondary level.

#### 9) Notice of Change in Installation

- a) The Member will notify the REMC in writing thirty (30) days in advance of making any change affecting the characteristics, performance, or protection of the DG facility.
- b) If any modification undertaken by the Member will create or has created conditions which may be unsafe or adversely affect the REMC system, the Member shall immediately correct such conditions or be subject to immediate disconnection from the REMC system.

#### 10) Testing and Record Keeping

- a) The REMC shall maintain records concerning applications received for interconnection and parallel operation of DG facilities. Such records will include

the date each application is received, documents generated in the course of processing each application, correspondence regarding each application, and the final disposition of each application.

- b) The Member will test all aspects of the protection systems up to and including tripping of the generator and interconnection point at start-up and thereafter as required. Testing will verify all protective set points and relay/breaker trip timing and shall include procedures to functionally test all protective elements of the system. The REMC may witness the testing.
- c) The Member will maintain records of all maintenance activities, which the REMC may review at reasonable times.

#### 11) Disconnection and Reconnection of Service

The REMC may disconnect a DG facility under the following conditions:

- a) Expiration or termination of the interconnection agreement  
Upon expiration or termination of the interconnection agreement with a Member, in accordance with the terms of the agreement, the REMC may disconnect the DG facilities.
- b) Non-compliance with technical requirements  
The REMC may disconnect a DG facility if the facility is not in compliance with the technical requirements specified in this manual. Within two business days from the time the Member notifies the REMC that the DG facility has been restored to compliance with the technical requirements of this manual, the REMC shall verify such compliance. Upon verification, the Member in coordination with the REMC may reconnect the DG facility.
- c) System emergency  
The REMC may temporarily disconnect a Member and/or a DG facility without prior written notice in cases where continued interconnection will endanger persons or property. During the forced outage of the REMC system, the REMC shall have the right to temporarily disconnect a Member and/or a DG facility to make immediate repairs on the REMC system. When possible, the REMC shall provide the Member with reasonable notice and reconnect the Member as quickly as reasonable practical.
- d) Routine maintenance, repairs and modifications  
The REMC may disconnect a Member and/or a DG facility with seven business days prior written notice of service interruption for routine maintenance, repairs and REMC system modifications. The REMC shall reconnect the Member as quickly as reasonably possible following such service interruption.
- e) Lack of approved application and interconnection agreement

The REMC may refuse to connect or may disconnect a DG facility if the application has not been received and approved.

#### 12) Compliance with Laws, Rules and Tariffs

The DG installation owned and installed by the Member shall be installed and operated subject to and in accordance with the terms and conditions set forth in the REMC's rules, regulations, bylaws, rates and tariffs, as amended from time to time, and, if applicable, approved by the REMC's board of directors, which are incorporated herein by reference, and in compliance with all applicable federal, state and local laws, regulations, zoning codes, building codes, safety rules, environmental restrictions, ordinances and regulations, including without limitation, Indiana Utility Regulatory Commission, ReliabilityFirst Council (RFC), Midwest Independent System Operator (MISO) directives and guidelines, and in accordance with industry standard prudent engineering practices.