MIDDLE GEORGIA ELECTRIC MEMBERSHIP CORPORATION
VIENNA, GEORGIA

BOARD POLICY NO. 89

INTERCONNECTION OF DISTRIBUTED GENERATION RESOURCES

I. OBJECTIVE

This Interconnection of Distributed Generation Resources Policy establishes the terms and conditions for the interconnection of Distributed Generation Facilities ("DG Facilities") as defined in Exhibit A hereto, including both generators and energy storage technologies, up to 10 MVA at the point of common coupling and for providing net energy metering services for those facilities that qualify for net energy metering. This Policy is enacted to meet the requirements for:

1. Qualifying Facilities as set forth in Federal Energy Regulatory Rules promulgated under Sections 201 and 210 of the Public Utility Regulatory Policies Act of 1978 ("PURPA")

2. Interconnection of Distributed Resources set forth in the Code of Federal Regulations under 7CFR Part 1730 Subpart C as required by the Rural Utilities Service (RUS) (7 CFR § 1730.60 through § 1730.66)

3. The Georgia Cogeneration and Distributed Generation Act of 2001 set forth in the Official Code of Georgia under Title 46, Chapter 3, Article 1, Part 3 (O.C.G.A § 46-3-50 through § 46-3-56)

II. CONTENT

A. General

1. This Interconnection of Distributed Generation Resources Policy ("Policy") and the Middle Georgia EMC Distributed Generation Interconnection Procedure For Parallel Generation Equipment ("Exhibit A") shall be readily available to the public. The processing of a member's request for interconnection shall include a standard application, application process, application fees, and agreement.

2. All costs to be recovered from the applicant regarding the application process or the actual interconnection and the process to determine the costs are to be clearly explained to the applicant and authorized by the applicant prior to the Cooperative incurring these costs. The Cooperative will require separate non-refundable application fees sufficient to ensure serious intent by the applicant prior to proceeding either with the application or actual interconnection process.

B. Technical Requirements

1. The Cooperative's technical requirements and application of those requirements shall be consistent with the following standards:

   a. IEEE Standard 1547 - Standard for Interconnecting Distributed Resources with Electric Power Systems

   b. IEEE Standard 1547.1 - Standard Conformance Test Procedures for Equipment Interconnecting Distributed Resources with Electric Power Systems

   c. IEEE Standard 1547.2 - Application Guide for IEEE Std 1547 Standard for Interconnecting Distributed Resources with Electric Power Systems

   d. IEEE Standard 1547.3 - Guide for Monitoring, Information Exchange, and Control of Distributed Resources Interconnected with Electric Power Systems

   e. Other applicable IEEE Series 1547 standards, and subsequent issuances and revisions thereof

   f. IEEE Standard 519 - Recommended Practice on Monitoring Electric Power Quality

   g. IEEE Standard C2 - National Electrical Safety Code ("NESC")

   h. ANSI C84.1 - American National Standard for Electrical Power Systems and Equipment-Voltage Ratings (60 Hertz)

   i. NFPA 70 - National Electrical Code ("NEC"), including, but not limited to NEC Article 705-Interconnected Electric Power Production Sources

2. All DG Facilities interconnected with the Cooperative's distribution system shall include appropriate electric power system disconnect facilities, as determined by the Cooperative, which shall include a lockable disconnect and a visible open, that are readily accessible to and operable by authorized personnel at all times.

3. The Cooperative shall have access to all DG Facilities at all times (including access during normal business hours and for emergency situations).

4. The Cooperative may require additional technical requirements if such requirements are necessary to ensure:

    a. The safety of the public

    b. The safety of Cooperative personnel or their agents

    c. The prevention of negative effects on the service quality and reliability of other members of the Cooperative

    d. The protection of Cooperative facilities from damage, failure, or inefficient operation

    e. Compliance with prudent electric utility practice

C. Member Generator Obligations

1. Any Member Generator who owns and/or operates a DG Facility connected in any manner to the Cooperative's distribution system, either through a direct connection to the Cooperative's facilities or by connection to the Member Generator's own electrical wiring will be considered a "Responsible Party", and may designate others to act on their behalf as a Responsible Party (such designation subject to approval by the Cooperative). The Responsible Party shall be the owner, operator or any other person or entity that is accountable to the Cooperative under this Policy.

2. A Responsible Party must agree to maintain appropriate liability insurance as determined by the Cooperative and outlined in this Policy. Liability insurance requirements shall be consistent with the limitations imposed by state or federal law.

3. A Responsible Party must be responsible for the DG Facilities compliance with all national, state, and local government requirements and electric utility standards for the safety of the public and personnel responsible for operations, maintenance and repair of the Cooperative's distribution system.

4. A Responsible Party must be responsible for the safe and effective operation and maintenance of the DG Facility. The safety of the general public, the Cooperative's employees and equipment shall in no way be reduced or impaired as a result of the interconnection with a DG Facility.

5. A Responsible Party must be responsible for the DG Facility's compliance with all technical requirements as specified by the Cooperative, including compliance with all relevant IEEE and ANSI standards. Compliance shall include the elimination of any manner of negative effects on the safety, power quality or reliability of both the Cooperative's electric system and the electric service to other members of the Cooperative.

6. The DG Facility must not cause significant degradation of the safety, power quality, or reliability of the Cooperative's electric power system or other electric power systems interconnected to the Cooperative's power system.

7. Only Responsible Parties may receive approval from the Cooperative for interconnection and the Responsible Party must demonstrate to the Cooperative's satisfaction, that the DG Facility will be capably developed, constructed, operated, maintained, and repaired.

D. Categories of Distributed Generation

1. DG Facilities shall be categorized in accordance with the requirements of PURPA, RUS, and O.C.G.A.

2. For the purposes of this Policy, DG Facilities shall be assigned to one of the following categories:

   a. Small DG Facilities are distributed generation facilities, as defined in O.C.G.A. § 46-3-52, paragraph 5, that:

      i. have a peak generating capacity of not more than 10 kW for a residential application and 100 kW for a commercial application

      ii. are a solar photo voltaic system, fuel cell, or wind turbine

      iii. are limited to a first-come, first-served basis until the cumulative generating capacity of all renewable energy sources equals 0.2 percent of the Cooperative's annual peak demand in the previous year. Any Small DG Facility that is connected after the cumulative generating capacity of all renewable sources equals 0.2 percent of the Cooperative's annual peak demand in the previous year shall be categorized as an Intermediate DG Facility

b. Intermediate DG Facilities are distributed generation facilities with a peak generating capacity up to 3 MW that are not Small DG Facilities

c. Large DG Facilities are distributed generation facilities with a peak generating capacity greater than 3 MW and up to 10 MVA

DG Facilities that have a peak generating capacity of not more than 10 kW for a residential application and 100 kW for a commercial application, but are not a solar voltaic system, fuel cell, or wind turbine, may be classified as a Small DG Facility only when approved by the Cooperative's Board of Directors.

3. Qualifying Facilities ("QF") are distributed generation facilities that meet the definition of a QF as defined by PURPA. Generally, a QF is defined by PURPA as either a "small power production facility" with less than 80 MW of capacity whose primary energy source is renewable (hydro, wind or solar), biomass, waste, or geothermal resources, or a "cogeneration facility" that sequentially produces electricity and another form of useful thermal energy (such as heat or steam) in a way that is more efficient than the separate production of both forms of energy.

   For the application under this Policy, a QF shall be categorized as a Small, Intermediate, or Large DG Facility, as they are defined above.

E. Metering, Sales and Purchases

1. Metering of Small DG Facilities

   Small DG Facilities shall be net metered

2. Metering of Intermediate DG Facilities

   Intermediate DG Facilities may be net metered at the sole discretion of the Cooperative, and only if net metering does not produce a material under-recovery of the Cooperative's distribution facility investment under the Member Generator's current retail rate. Where such under-recovery may occur, net metering may be utilized subject to implementation of a rate that will recover the Cooperative's distribution facilities investment and wholesale power costs in a manner consistent with other similarly situated members of the Cooperative without DG Facilities.

3. Metering of Large DG Facilities

   Large DG Facilities shall not be net metered.

4. Sales, and Purchases for Net Metering Members

   a. For DG Facilities that are net metered, sales of energy to those DG Facilities shall be in accordance with the Cooperative's applicable approved rates for similar facilities that have no distributed generation.

   b. Purchases by the Cooperative of energy delivered to the Cooperative's system from DG Facilities shall be at the Cooperative's avoided power cost unless otherwise required by regulation, and must be approved by the Cooperative's Board of Directors.

   c. The Cooperative will use either a single-directional or bi-directional meter depending upon how the DG Facility is connected to the Cooperative's distribution system. If the DG Facility is connected to the Cooperative's distribution system on the net-metering Member's side of the retail service meter, the Cooperative will use a bi-directional meter for net metering. If the DG Facility is connected to the Cooperative's distribution system on the Cooperative's side of the retail service meter, the Cooperative will install an additional single directional or bi-directional meter for net metering. The Cooperative shall specify whether single direction or bi-direction metering is required.

      When the electricity generated by the net metering Member's DG Facility and delivered to the Cooperative's distribution system exceeds the electricity supplied by the Cooperative during the billing period, the net metering Member shall receive a credit for the excess net energy pursuant to the applicable net metering schedule. When the electricity supplied by the Cooperative exceeds the electricity delivered by the net-metering Member during the billing period, the net-metering Member shall pay the Cooperative for such energy under the applicable retail rate schedule and the applicable net-metering schedule. The Cooperative will review the net-metering Member's account at least annually and will pay to the net-metering Member any credit balance then existing in that account.

5. Sales and Purchases for other than Net Metering Members

   a. Where the Cooperative does not provide net metering for a distributed generation facility, the Cooperative will use either single-directional or bi-directional meter(s) as appropriate to properly record the amount of energy delivered to as well as the amount of energy received from the Cooperative's distribution system by the Member Generator's distributed generation facility.

   b. Where the distributed generation facility may receive energy from the Cooperative's distribution system in excess of the facility's generation output, the Cooperative will install a bi-directional meter to record the amount of energy received by the Cooperative and the amount of energy delivered to the Member Generator.

   c. When the electricity supplied by the Cooperative exceeds the electricity supplied by the Member Generator, the Member Generator shall pay the Cooperative for such energy at such cost as is agreed to between the Cooperative and Member Generator in an executed written Agreement For Interconnection And Parallel Operation Of Member Generation with the Cooperative. When the electricity supplied by the Member Generator exceeds the electricity supplied by the Cooperative, the Cooperative shall pay the Member Generator for such energy at the Cooperative's avoided energy cost, or such other cost as is agreed to between the Cooperative and Member Generator.

F. Charges for Interconnection and Metering

The Member Generator shall be responsible for all costs of installing, operating and maintaining protective equipment and/or electrical facilities required to interconnect with the Cooperative's distribution system.

The Cooperative shall recover recurring costs after initial installation through the Cooperative's Net Energy Metering Schedule NEM-1 or through other schedules, as appropriate.

G. Standards for Installation, Operation, and Maintenance

The Member requesting to interconnect a DG Facility to the Cooperative's distribution system is responsible for and must follow, in addition to all provisions of this Policy, all other Cooperative Member policies, procedures, service rules and regulations and bylaws.

H. Liability and Insurance Requirements

The Cooperative shall require the Member Generator to obtain adequate liability insurance to minimize financial risk to the Cooperative. The liability insurance requirement shall be consistent with state and federal law. In addition, the Member Generator shall assume full responsibility for electric energy furnished by the Member Generator and shall indemnify the Cooperative against and hold the Cooperative harmless from all claims for both injuries to persons, including death, and damages to property resulting therefrom.

III. RECONSIDERATION AND UPDATES

This Interconnection of Distributed Generation Resources Policy shall be reconsidered and updated every five years or more frequently as circumstances warrant.

IV. RESPONSIBILITY

The General Manager is responsible for seeing that the provisions of this Policy are carried out.

Any policy in conflict herewith is hereby repealed.

_____
Don Wood, President

EFFECTIVE DATE: March 23, 2010

EXHIBIT A
TO
BOARD POLICY #89

MIDDLE GEORGIA EMC DISTRIBUTED GENERATION INTERCONNECTION PROCEDURE FOR PARALLEL GENERATION EQUIPMENT

I. OBJECTIVE

This Distributed Generation Interconnection Procedure for Parallel Generation Equipment (hereinafter referred to as "Corporation DG Procedures") establishes the terms and conditions for the interconnection and metering of distributed generation facilities up to 10 MVA to the distribution system of Middle Georgia EMC (hereinafter referred to as "Cooperative"). All distributed generation facilities above 10 MVA will be handled on a case by case basis.

II. DEFINITIONS

The following words and terms shall have the following meanings unless the context clearly indicates otherwise:

A. "Member" means a natural person, corporation, trust, partnership or any other legal entity which is a Member of the Cooperative as defined by the Cooperative's by-laws.

B. "Bi-directional meter" is a meter capable of measuring (but not necessarily displaying) electricity flow in both directions.

C. "Bi-directional metering" means measuring the amount of electricity supplied by the Cooperative and the amount of electricity fed back to the Cooperative by the Member's distributed generation facility using the same meter.

D. "Billing period" means, as to a particular Member, the time period between the dates on which the Cooperative normally reads the retail service meter for billing purposes.

E. "Distributed Generation (DG) Facility" means a Member owned or leased generation facility operating at a distribution voltage of 25 kV or less, including any generation and associated equipment, wiring, protective devices or switches owned or leased by the Member.

F. "Member Generator" means a Member of the Cooperative who owns and operates (or leases and operates) a DG Facility.

G. "Small DG Facility" is a DG Facility which meets the definition of a “Distributed generation facility” as set forth in O.C.G.A. § 46-3-52, paragraph 5. A Small DG Facility is a DG Facility owned and operated by a Member Generator for the production of electrical energy that:

1. Uses a solar photovoltaic system, fuel cell, or wind turbine;

2. Has a peak generating capacity of not more than 10kw for a residential application and 100kw for a commercial application;

3. Is located on the Member Generator’s premises;

4. Operates in parallel with the Cooperative's distribution facilities at a distribution voltage of 25 kV or less;

5. Is connected to the Cooperative's distribution system on either side of the Cooperative's retail service meter; and

6. Is intended primarily to offset part or all of the Member Generator’s requirements for electricity

H. "Intermediate DG Facility" is a DG Facility that:

1. Is not a Small DG Facility;

2. Has a peak generating capacity of not more than 3 MW;

3. Is located on the Member Generator’s premises;

4. Operates in parallel with the Cooperative's distribution facilities at a distribution voltage of 25 kV or less;

5. Is connected to the Cooperative's distribution system on either side of the Cooperative's retail service meter; and

6. Is intended primarily to offset part or all of the Member Generator’s requirements for electricity

I. "Large DG Facility" is a DG Facility that:

1. Has a peak generating capacity of more than 3 MW and up to 10 MVA;

2. Is located on the Member Generator’s premises;

3. Operates in parallel with the Cooperative's distribution facilities at a distribution voltage of 25 kV or less; and

4. Is connected to the Cooperative's distribution system on either side of the Cooperative's retail service meter.

J. "Excess net energy" is applicable only to DG Facilities connected to Cooperative's distribution system on the Member Generator's side of the Member Generator's retail service meter, and is the amount of energy generated by the Member Generator's DG Facility that exceeds the amount of energy supplied by the Cooperative

K. "Interconnection" means the result of the process of adding a DG Facility to the Cooperative's system.

L. "Net metering" means measuring the difference, over the billing period, between electricity supplied to a Member Generator from the electric grid and the electricity generated and fed into the electric grid by the Member Generator, using a single bi-directional meter or an additional single direction meter.

M. "Point of Interconnection" means the point of connection of the Member Generator's service equipment to the Cooperative's electric system, which is the point where the electric energy first leaves the wires or facilities of the system owned by the Cooperative and enters the wires or facilities of the DG Facility provided by the Member Generator.

N. "Qualifying Facility" (QF) is a generating facility which meets the requirements set forth in Federal Energy Regulatory Rules promulgated under Sections 201 and 210 of the Public Utility Regulatory Policies Act of 1978 (PURPA). In general, a QF must either produce useful thermal energy and electricity through sequential use of energy or have a renewable resource (e.g. biomass, waste, geothermal) as its primary energy source.

O. "Non-Qualifying Facility" (NQF) is a generating facility that is not a QF under the provisions of PURPA.

P. "Agreement For Interconnection And Parallel Operation Of Member Generation" means a contract drafted by the Cooperative that must be fully executed by both the Member Generator and the Cooperative prior to the Member Generator's installation of a DG Facility.

Q. "Standby Generation" is a generator installation that:

1. Is isolated from the Cooperative's distribution system through a double-throw, open-transition manual disconnect switch or open-transition automatic transfer switch;

2. Will never operate in parallel with the Cooperative's distribution system; and

3. Will be used in an isolated mode during loss of utility power (and/or used in an isolated mode for testing and maintenance) to provide electric service to the Member Generator's equipment.

R. "Customer Generation Plan" is a plan detailing the electrical design interconnection requirements, size and operational plans for the DG Facility as described in the "Application" and in the Interconnection Agreement.

III. PROCEDURE

A. It is the intent of the Cooperative to allow Members to install a DG Facility, provided the Member Generator's DG Facility does not adversely affect the Cooperative. The Member must conduct his/her own analysis to determine the economic benefit of the DG Facility.

B. A DG Facility that is not connected to the Cooperative's system in any way is known as "stand-alone" or "isolated" DG Facility. The Member Generator may operate a DG Facility in stand alone or isolated fashion as long as:

1. such DG Facility does not adversely affect the Cooperative's system; and

2. such DG Facility does not utilize closed transition transfer switches.

For purposes of these Corporation DG Procedures, a DG Facility is considered operating in "parallel" anytime it is connected to the Cooperative's system in any way (except for grounding), even if the Member Generator does not intend to export power. All provisions of the Corporation DG Procedures shall apply to parallel operation of DG Facilities as so defined.

C. These Corporation DG Procedures are not a complete description or listing of all laws, ordinances, rules and regulations, nor are the Corporation DG Procedures intended to be an installation or safety manual. The Member requesting to interconnect a DG Facility to the Cooperative's system is responsible for and must follow, in addition to all provisions of the Corporation DG Procedures, the current:

1. IEEE Standard 1547 - Standard for Interconnecting Distributed Resources with Electric Power Systems

2. IEEE Standard 1547.1 - Standard Conformance Test Procedures for Equipment Interconnecting Distributed Resources with Electric Power Systems

3. IEEE Standard 1547.2 - Application Guide for IEEE Std. 1547 Standard for Interconnecting Distributed Resources with Electric Power Systems

4. IEEE Standard 1547.3 - Guide for Monitoring, Information Exchange, and Control of Distributed Resources Interconnected with Electric Power Systems

5. Other applicable IEEE Series 1547 standards, and subsequent issuances and revisions thereof

6. IEEE Standard 519 - Recommended Practice on Monitoring Electric Power Quality

7. IEEE Standard C2 - National Electrical Safety Code (NESC)

8. ANSI C84.1 - American National Standard for Electrical Power Systems and Equipment-Voltage Ratings (60 Hertz)

9. NFPA 70 - National Electrical Code (NEC), including, but not limited to NEC Article 705-Interconnected Electric Power Production Sources

D. The Member Generator is solely responsible for all federal, state and local permits, certifications and qualifications associated with the operation of the DG Facility. It is also the responsibility of the Member Generator to determine if the DG Facilities require an air quality permit or other environmental qualifications from the appropriate governing agency.

E. A Member Generator may serve the 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 Agreement For Interconnection And Parallel Operation Of Member Generation .

F. Safety:

1. All safety and operating procedures for DG Facility equipment shall be in compliance with the Occupational Safety and Health Administration (OSHA) Standard 29, CFR 1910.269, the NEC, and the equipment manufacturer's safety and operating manuals.

2. The safety of the general public, the Cooperative’s employees and the Cooperative’s equipment shall in no way be reduced or impaired as a result of the interconnection. In general, the Member Generator’s DG Facilities will be held to the same standard of care that the Cooperative is required to maintain. The Member Generator is solely responsible for the installation, maintenance and safety of his/her wiring and equipment. The Cooperative shall not in any way be

liable for accidents, or damages, occurring to the Member Generator or to third parties because of contact with, or failure of, any portion of the Member Generator's installation.

G. Quality of Service:

1. The Member Generator's DG Facility will generate power at the nominal voltage of the Cooperative's system at the Member Generator's delivery point as defined by ANSI C84.1 Range A. Range A as defined by ANSI C84.1 is plus or minus 5% of the nominal service voltage.

2. Member Generator's DG Facility will generate power at a frequency within the tolerances as defined by IEEE 1547.

3. Member Generator's DG Facility shall produce power at a minimum power factor of at least 95% or shall use power factor correction capacitors to ensure at least a 95% power factor.

4. The overall quality of the power provided by the Member Generator's DG Facility including, but not limited to, the effects of harmonic distortion, voltage regulation, voltage flicker, switching surges and power factor, will be such that the Cooperative's system is not adversely affected in any manner. The Member Generator's DG Facility must meet power quality requirements as stated in IEEE-1547, IEEE-519, and ANSI C84.1.

5. In the event that adverse effects are caused in whole or in part by the Member Generator's DG Facility, the Member Generator will correct the cause of such effects, reimburse the Cooperative for any required correction, or be subject to immediate disconnection, solely at the Cooperative's discretion, from the Cooperative's system.

H. Isolation Disconnect Switch:

1. The Member Generator must install a UL approved, visible load break Isolation Disconnect Switch, per NEC Article 705 and additional requirements as set by the Cooperative and stated below, at the Member Generator's expense. In all cases the Member Generator shall pay the full cost of the installation of the Isolation Disconnect Switch

2. The Isolation Disconnect Switch will be located so as to be readily accessible to the Cooperative's personnel at all times in a location acceptable to both the Member Generator and the Cooperative.

3. The Isolation Disconnect Switch shall be a type that can be secured in an open position by a lock owned by the Cooperative. If the Cooperative has locked the

isolation disconnect switch open, the Member Generator shall not operate or close the Isolation Disconnect Switch.

4. The Cooperative shall have the right to lock the Isolation Disconnect Switch open when, in the judgment of the Cooperative:

   a. It is necessary to maintain safe electrical operating and/or maintenance conditions.

   b. The Member Generator's DG Facility adversely affects the Cooperative's system.

   c. There is a system emergency or other abnormal operating condition warranting disconnection.

   d. If the Member Generator is in violation of the Corporation DG Procedures.

5. The Cooperative reserves the right to operate the Isolation Disconnect Switch for the protection of the Cooperative's system and employees even if it affects the Member Generator's DG Facility. In the event the Cooperative opens and/or closes the Isolation Disconnect Switch, the Cooperative shall not be responsible for energizing or restoring the parallel operation of the DG Facility.

   In the event the Cooperative does not open the Isolation Disconnect Switch, this event shall not relieve the Member Generator of any liability for injury, death or damage attributable by the DG Facility.

6. The Member Generator will not bypass, nor permit other persons to bypass, the Isolation Disconnect Switch at any time for any reason.

7. Signage shall be placed by the Member Generator at the Isolation Disconnect Switch indicating the purpose of the switch along with contact names and numbers of the Member Generator and the Member Generator's "Operator in Charge."

8. Should the Cooperative lose power serving the Member Generator's DG Facilities for any reason, the Member Generator shall not operate the DG Facility unless visibly disconnected from the Cooperative's system.

9. Any modifications to the Isolation Disconnect Switch may be deemed as tampering, and is prohibited. The Cooperative may disconnect the DG Facility if, in the opinion of the Cooperative, tampering with the Isolation Disconnect Switch is occurring or has occurred.

I. System Protection:

1. The Member Generator will furnish, install, operate and maintain in good order and repair all equipment necessary for the safe operation of the Member Generator's DG Facility operated in parallel with the Cooperative's system.

2. The Member Generator's DG Facility will be designed, installed and maintained to be self-protected from normal and abnormal conditions on the Cooperative's system including, but not limited to, overvoltage, undervoltage, overcurrent, frequency deviation, phase loss, phase reversal and faults. Self-protection will be compatible with all applicable Cooperative protection arrangements and operating policies.

3. The Member Generator's DG Facility must cease to energize the Cooperative's system upon a loss of voltage on the Cooperative's system. The DG Facility shall automatically disconnect the generation from the Cooperative's system per IEEE-1547. In the event the DG Facility fails to disconnect, creating a hazardous condition on the Cooperative's system, the Member Generator shall be liable for resulting damage and injuries. Unless otherwise directed by the Cooperative, reconnection shall be permitted 5 minutes after the utility voltage and frequency return to normal range.

4. The Cooperative normally applies automatic reclosing after fault clearing on all distribution lines. Most faults on a utility circuit are temporary, and the reclosing is intended to restore service as quickly as possible. The duration of outages due to temporary faults varies depending on many factors. The Member Generator must insure that the DG Facility is disconnected from the Cooperative's system prior to automatic reclosing. The existing automatic reclosing schemes assume that the circuit is dead and do not employ any voltage check, phasing, or synchronization schemes. The Cooperative shall assume no responsibility for damage to DG Facility equipment due to out-of-phase (out of sync) reclosing.

5. The Member Generator will be responsible for protecting its DG Facility equipment in such a manner that distribution system outages, short circuits or other disturbances do not damage the Member Generator's DG Facility. The Cooperative shall assume no responsibility for damage to DG Facility equipment due to system disturbances and/or anomalies.

6. The Cooperative reserves the right to observe and/or inspect the testing of the Member Generator's protective equipment but has no responsibility, either actual or implied, to do so. The Cooperative reserves the right to observe or

perform additional inspections or tests, at initial interconnection or at a later date, as deemed necessary by the Cooperative to ensure compliance with the safety, quality of service and system protection requirements outlined in this Procedure.

7. Additional protective devices and or functions may be required by the Cooperative when, in the sole judgment of the Cooperative, the Member Generator's DG Facility installation and/or the Cooperative's system characteristics so warrant.

J. Liability:

1. The Member Generator assumes full responsibility for electric energy furnished by the Member Generator and shall indemnify the Cooperative against and hold the Cooperative harmless from all claims for both injuries to persons, including death, and damages to property resulting therefrom.

2. The Cooperative shall not be liable for either direct, indirect or consequential damages resulting from causes reasonably beyond the control of the Cooperative 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, any order of any commission, tribunal or governmental authority having jurisdiction, or any other event or occurrence beyond the control of the Cooperative.

3. ALL PROVISIONS NOTWITHSTANDING, IN NO EVENT SHALL THE COOPERATIVE BE LIABLE TO THE MEMBER GENERATOR FOR ANY INTEREST, LOSS OF ANTICIPATED REVENUE, EARNINGS, PROFITS, OR INCREASED EXPENSE OF OPERATIONS, LOSS BY REASON OF SHUTDOWN OR NON-OPERATION OF MEMBER GENERATOR'S PREMISES OR FACILITIES FOR ANY INDIRECT, INCIDENTAL, OR CONSEQUENTIAL, PUNITIVE OR EXEMPLARY DAMAGES ARISING OUT OF OR RELATED, IN WHOLE OR PART, TO THE "AGREEMENT FOR INTERCONNECTION AND PARALLEL OPERATION OF MEMBER GENERATION." THE COOPERATIVE SHALL NOT BE LIABLE IN ANY EVENT FOR CONSEQUENTIAL DAMAGES.

4. The Member Generator shall indemnify the Cooperative against and hold the Cooperative harmless from all claims by third parties for both injuries to persons, including death resulting therefrom, and damages to property occurring on or off the premises owned or operated by Member Generator arising directly or indirectly from the Member Generator's DG Facility.

5. The Member Generator shall be responsible for the safe installation, maintenance, repair and condition of Member Generator's lines, wires, switches

or other equipment or property on Member Generator's side of the Point of Interconnection. The Cooperative, while retaining the right to inspect, does not assume any duty of inspecting the Member Generator's lines, wires, switches or other equipment or property and will not be responsible therefor. Member Generator assumes all responsibility for the electric service supplied hereunder and the facilities used in connection therewith at or beyond the Point of Interconnection.

6. The Member Generator is solely responsible for insuring that the Member Generator's Facility complies with all applicable regulations including, but not limited to, laws, regulations, ordinances, Cooperative and Cooperative power supplier and/or transmission supplier tariffs, policies and directives.

K. Liability Insurance:

1. Prior to interconnection, the Member Generator must provide proof of adequate insurance.

   a. For Small DG Facilities, the Member Generator shall maintain liability insurance in such amount and with such limits of coverage as are in existence as of the date Member Generator signs the contract with the Cooperative; provided, however, that in the event that the insurance requirements applicable to Small DG Facilities are increased by federal or state law, then Member Generator agrees that it will comply with such revised requirements as of the effective date of such applicable federal or state statute.

   b. For Intermediate DG Facilities, the Member Generator shall acquire and maintain a policy of general liability insurance providing at least $1,000,000.00 in personal injury liability coverage and $1,000,000.00 in property damage liability coverage and shall cause the Cooperative to be named as an additional insured on the policy. The policy shall provide that the Cooperative will receive not less than 30 days notice in the event the policy is cancelled or non-renewed. The Member Generator shall furnish annually a certificate of insurance to the Cooperative establishing that this coverage is in effect.

   c. For Large DG Facilities, the Member Generator shall acquire and maintain a policy of general liability insurance providing coverage in an amount as deemed appropriate by the Cooperative. The general liability policy shall be in an amount of at least $2,000,000.00 in personal injury liability coverage and $2,000,000.00 in property damage liability coverage and shall cause the Cooperative to be named as an additional insured on the policy. The policy shall provide that the Cooperative will receive not less than 30 days notice in the event the policy is cancelled or non-renewed. The Member Generator

shall furnish annually a certificate of insurance to the Cooperative establishing that this coverage is in effect.

2. The Member Generator shall provide proof of such insurance to the Cooperative upon request.

L. Plan Review Process:

1. To initiate a new interconnection service request, the Member Generator must contact the Cooperative and complete the Member-Owned Generating Facility and Interconnection Application ("Application") included in the Corporation DG Procedures and pay an application fee and the additional engineering fee as indicated below:

Application Fees and Additional Engineering Fees for Inter-Connected Generation

Member Generation Class	Application Fee	Additional Engineering Fee
Small DG Facility	$25	As required
Intermediate DG Facility	$250	As required
Large DG Facility	$500	As required

2. The Cooperative may, at its sole discretion, waive the application fee for Member Generator DG Facilities that will be operated:

   a. In parallel with the Cooperative's system; and

   b. With no intention to export power to the Cooperative; and

   c. That are of standard design and intended entirely as emergency or backup-up power supply for the facility.

   Additional engineering fees, if any, will be assessed to the Member after the Cooperative's initial review of the Member's completed Application.

   As a part of the Application, the Member shall submit a plan detailing the electrical design, interconnection requirements, size and operational plans for the DG Facility (the "Customer Generation Plan"). Either at the time of submission or at any time during the review process, the Cooperative may require additional information or may require the Customer Generation Plan to be prepared by a Professional Engineer registered in the State of Georgia.

3. Standby Generation isolated through a double-throw, open-transition manual disconnect switch or open-transition automatic transfer switch does not require an application fee, however, any such standby generation shall be subject to inspection by the Cooperative or an authorized representative of the Cooperative at any time and from time to time to verify that the installation, at the time of inspection, is not inter-connected, to verify that the installation, at the time of inspection, will not endanger safety or reliability on the Cooperative's electrical distribution system, and to verify that the installation will not adversely affect the Cooperative or its operations.

4. For a Small DG Facility, the Cooperative will review the Application and accompanying documents and will return an interconnection analysis to the Member within 60 days.

5. For Intermediate and Large DG Facilities, the Cooperative will return an interconnection analysis to the Member after the completion of the additional engineering study.

6. If corrections or changes to the plans, specifications and other information for a DG Facility are made by the Member:

    a. For Small DG Facilities, the 60-day period may be reinitialized when such changes or corrections are provided to the Cooperative, and any changes to the site or project requiring new analysis by the Cooperative may require a new Application an additional Application Fee and a new Customer Generation Plan.

    b. For Intermediate and Large DG Facilities any changes to the site or project requiring new analysis by the Cooperative may require a new Application an additional Application Fee, an additional Engineering Fee, and a new Customer Generation Plan.

7. The Member acknowledges and agrees that any review or acceptance of DG Customer Generation Plans, specifications and other information by the Cooperative shall not impose any liability on the Cooperative and does not guarantee the adequacy of the Member's equipment or DG Facility to perform its intended function. The Cooperative 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 distributed generation installations. It is the Member Generator’s sole responsibility to ensure installation, operation and maintenance of the DG Facility consistent with the guidelines provided by the DG Facility’s equipment manufacturer(s).

8. As a part of the interconnection analysis performed by the Cooperative, the Member will be provided with a written estimate of any line extension or other costs to be incurred in providing electric delivery service to the Member's DG Facility. Such cost estimate shall be preliminary and non-binding until the Cooperative delivers a fully executed Agreement For Interconnection And Parallel Operation Of Member Generation.

9. All costs to be incurred by the Cooperative in accommodating the DG interconnection will be paid to the Cooperative.

   The incremental costs of all facilities required to accommodate the DG interconnection will be paid to the Cooperative by the Member Generator, up front, except that for the incremental costs of metering facilities, the cost shall be born by the Member Generator as follows:

   a. For Small DG Facilities, the incremental metering costs shall be recovered according to Net Energy Metering Schedule NEM-1.

   b. For Intermediate and Large DG Facilities, the incremental metering charges shall be paid to the Cooperative by the Member Generator based upon a case by case basis.

10. The costs associated with interconnecting will be determined by the Cooperative and shall be paid by the Member Generator. Notwithstanding the Cooperative's line extension policy, the Member Generator shall pay in advance the full cost of the construction of any transmission, substation, distribution, transformation, metering, protective or other facilities or equipment which, at the sole discretion of the Cooperative and/or its power supplier and/or transmission supplier, is required to serve the Member Generator’s DG Facility. Any changes, improvements or additions made to the Cooperative’s distribution system shall remain the property of the Cooperative.

11. In the event it is necessary at the time of initial interconnection or at some future time for the Cooperative and/or its power supplier and/or transmission supplier to modify electric delivery systems in order to serve the Member Generator’s DG Facility and/or purchase or continue to purchase the output of the Member's DG Facility, or because the quality of the power provided by the Member's DG Facility adversely affects the Cooperative's and/or its power supplier's and/or transmission supplier's delivery system, the Member Generator will:

    a. Be responsible to pay the Cooperative and/or its power supplier and/or transmission supplier in advance for all costs of modifications required for the interconnection of the Member Generator’s DG Facility; or

b. Modify the Member Generator's DG Facility as needed; or

c. Disconnect from the Cooperative's system.

12. In the event the Cooperative, at any time in the future, changes primary voltage of facilities serving the Member Generator's DG Facility such that metering equipment, transformers and/or any other Member Generator-owned equipment must be changed to continue receiving service at the new primary voltage level, the full cost of the change will be borne by the Member Generator.

13. The Cooperative may, at its sole discretion, prevent the interconnection or disconnect the interconnection of DG Facilities due to reasons such as safety concerns, reliability issues, power quality issues, breach of this policy or any other reasonable issue. Any such disconnection may be without prior notice.

14. A prospective Member Generator may not be allowed to interconnect a Small DG Facility if doing so will cause the total rated generating alternating current capacity of all renewable distributed generation facilities connected to the Cooperative's distribution system to exceed 0.2% of the Cooperative's annual system peak demand for the previous year.

15. Technical review will be consistent with guidelines established by the most recent IEEE Standard 1547-Guide for Distributed Generation Interconnection. The Member Generator may be required by the Cooperative to provide proof that their DG Facility has been tested and certified by a professional engineer to meet applicable IEEE guidelines.

M. Agreement For Interconnection And Parallel Operation Of Member Generation

1. Prior to purchasing and installing DG Facility equipment:

a. The Member shall receive an Agreement For Interconnection And Parallel Operation Of Member Generation from the Cooperative that has been prepared by the Cooperative for execution by the Member; and

b. The Member shall sign the Agreement For Interconnection And Parallel Operation Of Member Generation and deliver the same along with payment of all fees and contribution in aid of construction to the Cooperative.

c. After the Agreement For Interconnection And Parallel Operation Of Member Generation has been fully executed by both parties and delivered to the Member, the Member may proceed with purchase and installation of DG Facility equipment.

2. A separate Agreement For Interconnection And Parallel Operation Of Member Generation must be fully executed for each DG Facility.

3. Intermediate DG Facilities and Large DG Facilities may require, at the Cooperative's sole discretion, a form of contract different from the standard Agreement For Interconnection And Parallel Operation Of Member Generation.

N. Ownership of Facilities:

1. The Member Generator shall own and be solely responsible for all expense, installation, maintenance and operation of all facilities on Member Generator's side of the Point of Interconnection.

2. The Cooperative shall maintain ownership of all distribution facilities on the utility source side of the Point of Interconnection.

3. At its sole discretion, the Cooperative may locate Cooperative-owned metering equipment and transformers on the Member Generator's side of the Point of Interconnection. Such metering equipment shall remain the property of the Cooperative. The Cooperative shall be responsible for installation, operation and maintenance of such metering equipment.

O. Access:

1. Persons authorized by the Cooperative will have the right to enter the Member Generator's property for purposes of testing, operating the isolation disconnect switch, reading or testing the metering equipment, maintaining right-of-way and/or the Cooperative's facilities and equipment. Such entry onto the Member Generator's property may be without notice.

2. If the Member Generator erects or maintains locked gates or other barriers, the Member Generator will furnish the Cooperative with convenient means to circumvent the barrier for immediate full access for the above-mentioned reasons.

P. Metering:

1. The Cooperative shall specify, install and own all metering equipment.

2. A Small DG Facility will be net metered by one of the following methods, at the sole discretion of the Cooperative:

   a. If the DG Facility is connected to the distribution system on the Member Generator's side of the retail service meter, the Cooperative will use a bidirectional meter capable of measuring (but not necessarily displaying)

electricity flow in both directions and capable of measuring the amount of electricity supplied by the Cooperative and the amount fed back to the Cooperative by the Member Generator's DG Facility. Refer to Metering Configuration 2 as shown on the Example One-Line Diagrams for Member-Owned Generating Facilities included in the Corporation DG Procedures.

b. If the DG Facility is connected to the distribution system on the Cooperative's side of the retail service meter, the Cooperative will install two meters, each measuring the flow of energy in a single direction, one located to measure the flow of energy provided by the Cooperative and one located to register the flow of energy provided by the Member Generator's DG Facility to the Cooperative. The Cooperative reserves the right to install a bi-directional meter on the service connection to the DG Facility if the DG Facility may require electric energy flow from the Cooperative's system to the DG equipment (which may occur particularly when the DG Facility is not generating power, or where power generation of the DG Facility is not in excess of the load requirements of the DG Facility equipment). Refer to Metering Configuration 3 and Metering Configuration 4 as shown on the Example One-Line Diagrams for Member-Owned Generating Facilities included in the Corporation DG Procedures.

3. An Intermediate DG Facility or a Large DG Facility shall be net metered at the Cooperative's sole discretion. Power transfer at the point of interconnection for an Intermediate DG Facility or a Large DG Facility will be measured by metering equipment as installed and specified at the sole discretion of the Cooperative.

4. For covering the costs of metering and meter installation see Section III, L 9 a.

5. The meter shall be read at a time or times of month determined at the Cooperative's sole discretion for acquiring metering data. The Member Generator shall provide the Cooperative an approved communications link at the Member Generator's cost for this purpose if so requested by the Cooperative. The type of communications link and metering equipment measuring purchase of power by the Cooperative shall be installed and specified at the sole discretion of the Cooperative.

6. Meter testing shall follow the Cooperative's standard policy on metering, testing and accuracy.

Q. Sales to and Purchases from a DG Facility:

1. Sales of electric power and energy to a Member Generator with a DG Facility shall be consistent with the applicable retail rate schedule established by the

Cooperative as if there were no distributed generation facilities.

2. Purchases of electric power and energy from a Small DG Facility shall be made according to the rates, terms and conditions set forth in the Cooperative's Net Energy Metering Schedule NEM-1 provided that the DG Facility meets the definition of a “distributed generation facility” as set forth in that rate.

3. Purchases of electric power and energy from an Intermediate DG Facility or a Large DG Facility:

   a. If the DG Facility is a QF, the Cooperative shall purchase power and energy from the Member Generator at the Cooperative's avoided wholesale power cost as determined by the Cooperative, or such other rate as mutually agreed upon by the Member Generator and the Cooperative and, if requested by the Cooperative, the Cooperative's power supplier.

   b. If the DG Facility is a NQF, the Cooperative may, at its sole discretion (and if appropriate, upon approval of its power supplier) purchase power and energy from the Member Generator. Such purchase shall be under terms and conditions determined by the Cooperative on a case-by-case basis and shall be at a rate mutually agreed upon by the Member Generator and the Cooperative.

4. The Cooperative shall not be required to make any purchases that will cause the Cooperative to no longer be in compliance with any applicable contracts or all-power contract requirements with its power supplier(s).

R. Notice of Change in Installation:

1. The Member Generator will notify the Cooperative in writing sixty (60) days in advance of making any change affecting the characteristics, performance, or protection of the DG Facility.

2. If any modification undertaken by the Member Generator will create or has created conditions which may be unsafe or adversely affect the Cooperative’s system, the Member Generator shall immediately correct such conditions or be subject to immediate disconnection from the Cooperative's system.

3. Any change in the operating characteristics of the DG Facility including, but not limited to, size of generator, total facility capacity, nature of facility, fuel source or type used, site change, or hours of operation may, at the sole discretion of the Cooperative, require a new Application, *SEMCO Form #3081*, an additional Application Fee, an additional Engineering Fee, a new Customer Generation Plan, and additional review by the Cooperative.

S. The Member Generator will have a licensed electrician with an unrestricted license test all aspects of the protection systems up to and including tripping of the generator and interconnection point at start-up and annually thereafter. Such tests will verify all protective set points and relay/breaker trip timing and shall include procedures to functionally test all protective elements of the system and "cease to energize" functionality as specified in IEEE-l547. The Member Generator shall provide documentation in writing for initial start-up testing and annual testing as required by the Cooperative.

T. The Member Generator shall notify the Cooperative prior to the sale or transfer of the DG Facility or the premises upon which the DG Facility is located. The Member Generator shall not assign its rights or obligations under any agreement entered into pursuant to these rules without the prior written consent of the Cooperative. The Cooperative's consent will be at the Cooperative's discretion based on whether or not the Cooperative determines that the Assignee is financially and technically capable to assume ownership and/or operation of the distributed generation unit. The company or individual to which an assignment is granted will be responsible for the proper operation and maintenance of the DG Facility, and will be a party to all provisions of the Agreement For Interconnection And Parallel Operation Of Member Generation.

U. Disconnection of Service

The Cooperative may, at its sole discretion, discontinue the interconnection with the DG Facility due to reasons such as safety concerns, reliability issues, power quality issues, breach of interconnection contract or any other issue which the Cooperative considers to be a reasonable basis for such action.

V. Compliance with Laws, Rules and Tariffs

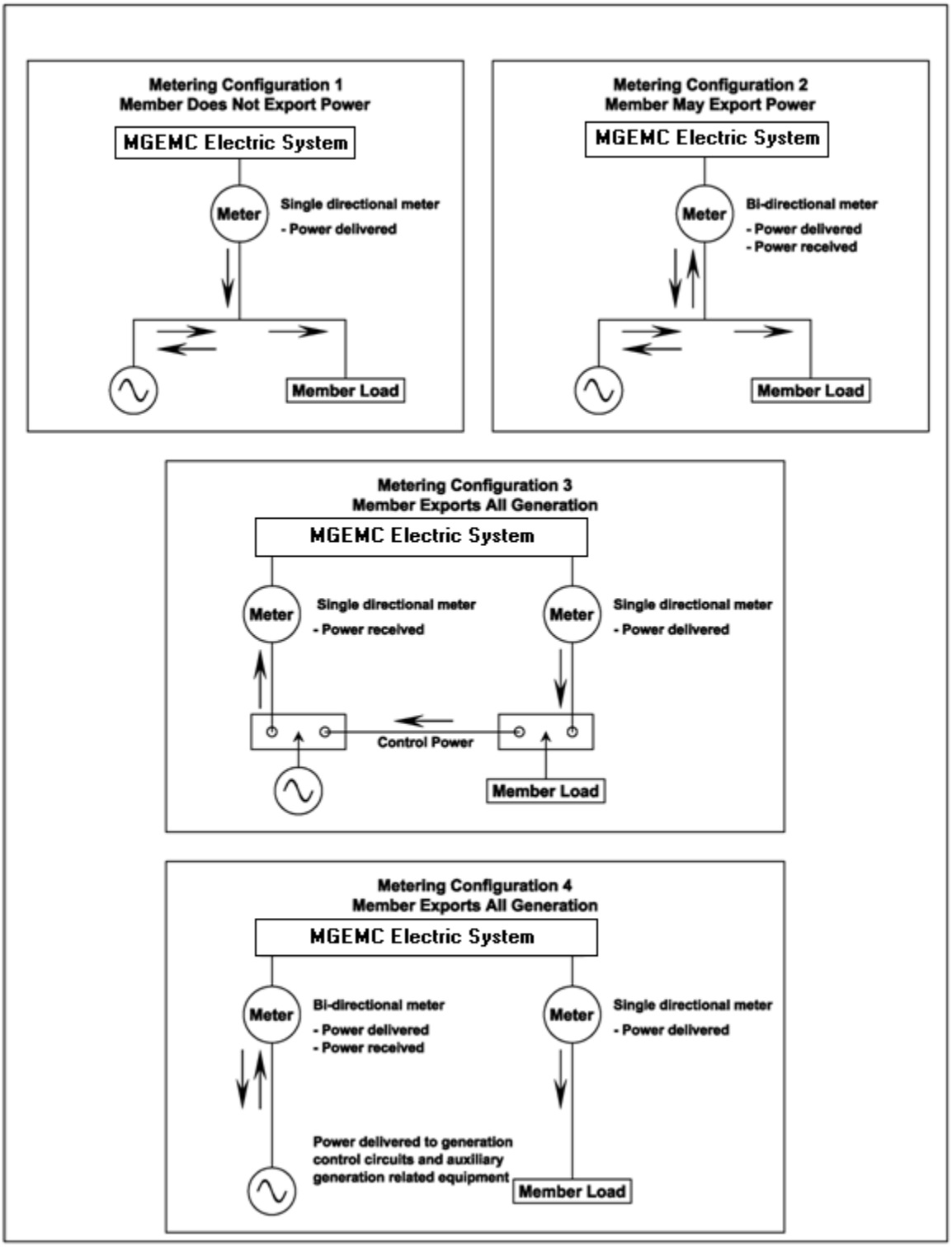
The DG Facility installation owned and installed by the Member Generator shall be installed and operated by Member Generator subject to and in accordance with the terms and conditions set forth in the Cooperative's rules, regulations, bylaws, rates and tariffs, as amended from time to time, and, if applicable, approved by the Cooperative'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 and in accordance with industry standard prudent engineering practices.

_____

Don Wood, President

EFFECTIVE: March 23, 2010

Example One-Line Diagrams for Member-Owned Generating Facilities



Notes:

- Visible break disconnect shall be adequately sized for the installation and of load break type.
- Visible break disconnect shall be readily accessible, and should be located outside within 5 feet of the meter. It shall have a means to be locked in the open position by Cooperative personnel.
- Visible break disconnect shall be equipped for installation of a Cooperative padlock for locking switch in open position.
- Installation shall meet all applicable NESC, NEC and local codes.

Middle Georgia EMC

Member-Owned Generating Facility and Interconnection Application

INFORMATION: *This information is used by the Cooperative to determine the required equipment configuration for the Member Generator interface. Every effort should be made to supply as much information as possible. Member Generators must not operate their generation facilities in parallel with the Cooperative's system until they have received written authorization for parallel operation from the Cooperative. Unauthorized parallel operation of Member's generating facilities could result in injury to persons and/or damage to equipment or property.*

PART 1 (To be completed for all Member-Owned Generating Facilities)

OWNER/APPLICANT INFORMATION

Owner/Member Name: _____

Mailing Address: _____

City:_____County:_____State:_____Zip Code:_____

Phone Number:_____Representative:_____

Email Address:_____ Fax Number:_____

PROJECT DESIGN/ENGINEERING (ARCHITECT) (as applicable)

Company:_____

Mailing Address:_____

City:_____County:_____State:_____Zip Code:_____

Phone Number:_____Representative:_____

Email Address:_____ Fax Number:_____

ELECTRICAL CONTRACTOR (as applicable)

Company:_____

Mailing Address:_____

City:_____County:_____State:_____Zip Code:_____

Phone Number:_____Representative:_____

Email Address:_____ Fax Number:_____

TYPE OF GENERATOR (as applicable)

Photovoltaic _____ Wind _____ Microturbine _____

Diesel Engine _____ Gas Engine _____ Combustion Turbine _____

Other _____

ESTIMATED LOAD, GENERATOR RATING AND MODE OF OPERATION INFORMATION

The following information is necessary to help properly design the Cooperative Member interconnection. This information is not intended as a commitment or contract for billing purposes.

Total Site Load _____ (kW)

Residential _____ Commercial _____ Industrial _____

Generator Rating _____ (kW) Annual Estimated Generation _____ (kWh)

Mode of Operation

Isolated _____ Paralleling _____ Power Export _____

Maximum Fault Current Contribution: For Three Phase Fault _____ for Line to Ground Fault: _____

DESCRIPTION OF PROPOSED INSTALLATION AND OPERATION

Give a general description of the proposed installation, including a detailed description of its planned location, the date you plan to operate the generator, the frequency with which you plan to operate it and whether you plan to operate it during on or off-peak hours.

_____

_____

_____

_____

_____

_____

PART 2 (To be completed for interconnected generation greater than 10 kW and any isolated (stand-by) generation)

(Complete all applicable items. Copy this page as required for additional generators)

SYNCHRONOUS GENERATOR DATA

Unit Number: _____Total number of units with listed specifications on site: _____

Manufacturer: _____

Type: _____Date of manufacture: _____

Serial Number (each):_____

Phases: Single Three R.P.M.: _____ Frequency (Hz): _____

Rated Output (for one unit): _____Kilowatts_____Kilovolt-Amperes

Rated Power Factor (%): _____Rated Voltage (Volts): _____ Rated Amperes: _____

Field Volts: _____ Field Amps: _____ Motoring power (kW): _____

Synchronous Reactance (Xd): _____ % on _____ KVA base

Transient Reactance (X'd): _____ % on _____ KVA base

Subtransient Reactance (X'd); _____% on _____ _____KVA base

Negative Sequence Reactance (Xs): _____ % on _____ KVA base

Zero Sequence Reactance (Xo): _____ % on _____ KVA base

Neutral Grounding Resistor (if applicable):_____

_____

I_2^2t or K (heating time constant): _____

Additional information: _____

INDUCTION GENERATOR DATA

Rotor Resistance (Rr):_____ ohms Stator Resistance (Rs): _____ ohms
Rotor Reactance (Xr):_____ ohms Stator Reactance (Xs): _____ ohms
Magnetizing Reactance (Xm):_____ ohms Short Circuit Reactance (Xd"): _____ ohms
Design letter:_____ Frame Size: _____
Exciting Current:_____ Temp Rise (deg C^o): _____
Reactive Power Required:_____ Vars (no load), _____Vars (full load)
Additional information:_____

PRIME MOVER (Complete all applicable items)

Unit Number: _____ Type: _____
Manufacturer: _____
Serial Number:_____ Date of manufacture: _____
H.P. Rated: _____ H.P. Max.: _____Inertia Constant: _____ lb.-ft.^{2}
Energy Source (hydro, steam, wind, etc.) _____
_____

GENERATOR TRANSFORMER (Complete all applicable items)

TRANSFORMER (between generator and utility system)
Generator unit number: _____ Date of manufacture: _____
Manufacturer: _____
Serial Number: _____
High Voltage: _____ KV, Connection: delta wye, Neutral solidly grounded?_____
Low Voltage: _____ KV, Connection: delta wye, Neutral solidly grounded? _____
Transformer Impedance(Z): _____% on _____ KVA base.
Transformer Resistance (R): _____ % on _____ KVA base.
Transformer Reactance (X): _____ % on _____ KVA base.
Neutral Grounding Resistor (if applicable): _____
_____

INVERTER DATA (if applicable)

Manufacturer: _____ Model: _____
Manufacturer's or Agent's Contact Name: _____ Phone: _____
Rated Power Factor (%): _____Rated Voltage (Volts): _____ Rated Amperes: _____
Note: Attach all available calculations, test reports, and oscillate graphic prints showing inverter output voltage and current waveforms.

POWER CIRCUIT BREAKER (if applicable)

Manufacturer: _____Model: _____
Rated Voltage (*kilovolts):* _____Rated ampacity *(Amperes)*_____
Interrupting rating (Amperes): _____BIL Rating: _____
Interrupting medium / insulating medium (ex. Vacuum, gas, oil) _____ / _____
Control Voltage (Closing): _____ (Volts) AC DC
Control Voltage (Tripping): _____ (Volts) AC DC Battery Charged Capacitor
Close energy: Spring Motor Hydraulic Pneumatic Other: _____
Trip energy: Spring Motor Hydraulic Pneumatic Other: _____
Bushing Current Transformers: _____ (Max. ratio) Relay Accuracy Class: _____
Multi ratio? No Yes: (Available taps) _____

ADDITIONAL INFORMATION

In addition to the items listed above, please attach a detailed one-line diagram of the proposed facility, all applicable elementary diagrams, major equipment, (generators, transformers, inverters, circuit breakers, protective relays, etc.) specifications, test reports, etc., and any other applicable drawings or documents necessary for the proper design of the interconnection. Also describe the project's planned operating mode (e.g., combined heat and power, peak shaving, etc.), and its address or grid coordinates.

END OF PART 2

TO CONTACT THE COOPERATIVE FOR MORE INFORMATION:

Cooperative contact:	Mike McGee	Robert Herman
Title:	Manager of Operations & Engineering	Member Services Supervisor
e-mail:	mikemcgee@mgemc.com	roberth@mgemc.com
Address:	P.O. 190, 600 Tippettville Road	
	Vienna, GA 31092	
Phone:	(229) 268-2671 or (800) 342-0144	
Fax:	(229) 268-7215	

SIGNATURE OF SUBMITTING PARTY

Submitting Party Name: _____

Submitting Party Signature: _____Date: _____

CONTACT INFORMATION FOR SUBMITTING PARTY

(Complete only if different from Owner/Applicant provided in Part 1)

Mailing Address: _____

City:_____County:_____State:_____Zip Code:_____

Phone Number:_____Representative:_____

Email Address:_____ Fax Number:_____

MIDDLE GEORGIA MEMBERSHIP CORPORATION
NET ENERGY METERING
FOR
SMALL DG FACILITIES
SCHEDULE NEM-1

Purpose

The purpose of this Schedule is to establish the methods and procedures for determining credits, payments, and charges applicable to Members of the Cooperative who own and operate a Small Distributed Generation (DG) Facility as defined in the Cooperative's Distributed Generation Interconnection Procedure For Parallel Generation Equipment (Exhibit A to Board Policy #89).

Applicability

This Schedule applies to any Member of the Cooperative owning and operating a Small DG Facility as defined in the Cooperative's Distributed Generation Interconnection Procedure For Parallel Generation Equipment (Exhibit A to Board Policy #89).

Each Member Generator shall be charged for electric service purchases under that rate schedule which would otherwise be applicable if the Member was not a Member Generator. Charges and credits under this Schedule NEM-1 shall be added to (or credited against, as appropriate) such otherwise applicable rate schedule to determine the net amount owed to the Cooperative by the Member Generator (or owed to the Member Generator by the Cooperative, as appropriate).

Definitions

The following words and terms shall have the following meanings unless the context clearly indicates otherwise:

1. "Billing Period" means, as to a particular Member, the time period between the dates on which the Cooperative normally reads the retail service meter for billing purposes.

2. "Bi-directional Meter" is a meter capable of measuring (but not necessarily displaying) electricity flow in both directions and capable of providing Bi-directional Metering.

3. "Bi-directional Metering" means measuring the amount of electricity supplied by the Cooperative and the amount fed back to the Cooperative by the Member's DG Facility using a single meter.

4. "Member Generator" means the owner and operator of a DG Facility.

5. "Excess Net Energy" is the positive difference between the electricity generated by the Member's DG Facility and supplied to the Cooperative during the Billing Period and the electricity consumed by the Member Generator during the same Billing Period.

6. "Net Metering" means measuring the difference, over the Billing Period, between electricity supplied to a Member Generator from the electric grid and the electricity generated and fed into the electric grid by the Member Generator, using a single Bi-directional Meter or an additional single direction meter.

Conditions of Service

1. There must be a written interconnection agreement with the Member Generator. Middle Georgia EMC and the Member Generator must both have fully executed agreement, entitled, *Agreement For Interconnection And Parallel Operation Of Member Generation*.

2. The Member Generator must have met all of the conditions of interconnection contained in the Distributed Generation Interconnection Procedure for Parallel Generation Equipment (Exhibit A to Board Policy #89).

Types of Net Metering

Net Metering will be accomplished using Bi-directional Metering for DG Facilities interconnected on the Member Generator's side of the retail service meter and single directional metering for DG Facilities interconnected with the Cooperative's distribution system on the Cooperative's side of the retail service meter.

Where a DG Facility is interconnected with the Cooperative's distribution system on the Cooperative's side of the retail service meter and, in the opinion of the Cooperative, the electricity consumed by the DG Facility during the Billing Period may be in excess of energy generated by the DG Facility, the Cooperative may install a Bi-directional Meter instead of a single directional meter.

Disposition of Energy

If the electricity supplied by the Cooperative and consumed by the Member Generator during the Billing Period exceeds the electricity generated by the Member's DG Facility and supplied to the Cooperative during the Billing Period, then all electricity generated by the Member Generator and supplied to the Cooperative shall be deemed to have been used by the Member Generator and set off against the electricity supplied by the Cooperative. If the electricity generated by the Member Generator and supplied to the Cooperative during the Billing Period exceeds the electricity supplied by the Cooperative and consumed by the Member Generator, then the Excess Net Energy shall be purchased or credited by the Cooperative at rates as provided under the Purchase Rate section of this Schedule.

Monthly Rate

Member Generator will be billed monthly on the applicable rate for the type of load or facilities served under the current published rates of MGEMC.

Installation Charges

The incremental costs of all facilities required to accommodate the DG interconnection will be paid to the Cooperative by the Member Generator up front.

Purchase Rate

The rates paid or credited to the Member Generator for net energy purchased by the Cooperative shall be based upon the Cooperative's avoided cost of energy. The avoided cost of energy shall be applied monthly at the current rate $_____ per kWh. The rate as quoted herein may be adjusted at any time at the sole discretion of the Cooperative, to reflect the prevailing avoided cost of energy.

Term of Service

The term for which this Schedule applies shall be determined by the *Agreement For Interconnection and Parallel Operation of Member Generation*, as executed by both Member Generator and Middle Georgia EMC.

MIDDLE GEORGIA ELECTRIC MEMBERSHIP CORPORATION
VIENNA, GEORGIA

AGREEMENT FOR INTERCONNECTION AND PARALLEL OPERATION OF MEMBER GENERATION

CONTRACT NO. _____

This AGREEMENT FOR INTERCONNECTION AND PARALLEL OPERATION OF MEMBER GENERATION (Interconnection Agreement), made on or as of the _____ day of _____ , by and between MIDDLE GEORGIA ELECTRIC MEMBERSHIP CORPORATION, a corporation organized under the laws of the State of Georgia, whose principal office is located in Vienna, Georgia (hereinafter called the Corporation), and the following Member Generator:
_____
_____
whose address is _____
_____(hereinafter called "Member Generator") (each hereinafter sometimes referred to individually as "Party" or both referred to collectively as the "Parties"), whose distributed generation facility (hereinafter called “DG Facility”) is located in Land Lot(s) _____, in the _____ Land District in _____ County, Georgia and further described as being located in Map No. _____, Block No. _____, Consumer No. _____ of the electric distribution system maps of the Middle Georgia Electric Membership Corporation.

WITNESSETH:

In consideration of the mutual covenants set forth herein, the Parties agree as follows:

1. **Scope of Agreement** — This Interconnection Agreement is applicable to conditions under which the Corporation and the Member Generator agree that one or more DG Facilities (described in Exhibit 1) owned and/or operated by the Member Generator of _____ kW or less, may be interconnected to the Corporation's electric power distribution system ("System") at an interconnection point (the “Point of Interconnection”). The provisions of the Corporation's DISTRIBUTED GENERATION INTERCONNECTION PROCEDURE FOR PARALLEL GENERATION EQUIPMENT (the “Corporation DG Procedures”), and subsequent revisions thereof, shall be considered to be a part of this Interconnection Agreement.

2. **Establishment of Point of Interconnection** —Corporation and Member

Generator agree to interconnect the DG Facilities at the Point of Interconnection in accordance with:

a. the Corporation's Service Rules and Regulations; and,

b. the DISTRIBUTED GENERATION INTERCONNECTION PROCEDURE FOR PARALLEL GENERATION EQUIPMENT (the "Corporation DG Procedures"); and,

c. the Corporation’s requirements relating to distributed generation as described in the attached Exhibit 1.

All requirements named in this paragraph 2 are together herein referred to as “Rules.”

3. **Continuity of Service** — The Corporation shall use reasonable diligence to provide a constant and uninterrupted supply of electric power and energy, but if such supply shall fail, be interrupted, or become defective through act of God, or the public enemy, or by accident, strikes, or labor trouble, or by action of the elements, or because of inability to secure right-of-way, or other permits needed, or for any cause beyond reasonable control of the Corporation the Corporation shall not be liable therefor.

4. **Responsibilities of Corporation and Member Generator for Installation, Operation and Maintenance of Facilities** — Member Generator, at its own cost and expense shall operate, maintain, repair, and inspect, and shall be fully responsible for, its DG Facilities, unless otherwise specified on Exhibit 1. Member Generator shall conduct operations of its DG Facilities in compliance with all aspects of the Rules, and Corporation shall conduct operations of its electric distribution facilities in compliance with all aspects of the Rules, or as further described and mutually agreed to in the attached Exhibit 1. Maintenance of DG Facilities shall be performed in accordance with the applicable manufacturers' recommended maintenance schedule. The Member Generator agrees to ensure its DG Facilities are constructed, operated and maintained in accordance with specifications equal to or better than those provided by the National Electrical Safety Code and the National Electrical Code, both codes approved by the American National Standards Institute, in effect at the time of construction and future modifications thereof.

The Member Generator covenants and agrees to cause the design, installation, maintenance and operation of its DG Facilities so as to reasonably minimize the likelihood of a malfunction or other disturbance, damaging or otherwise affecting or impairing the System. Member Generator shall comply with all applicable laws, regulations, zoning codes, building codes, safety rules and environmental restrictions applicable to the design, installation and operation of its DG Facilities.

Corporation will notify Member Generator if there is evidence that the DG Facilities' operation causes disruption or deterioration of service to other member(s) served from the System or if the DG Facilities' operation causes damage to the System. Member Generator will notify the Corporation of any emergency or hazardous condition or occurrence with the Member Generator's DG Facility which could affect safe operation of the System.

5. **Operator in Charge** — The Member Generator shall identify an individual (by name and title) who will perform as "Operator in Charge" of the DG Facility. This individual must be familiar with this Interconnection Agreement as well as provisions of other agreements and any regulations that may apply.

6. **Limitation of Liability and Indemnification**

a. As provided in the Corporation DG Procedures

b. Neither Corporation nor Member Generator shall be liable to the other for damages resulting from a Force Majeure event as hereinafter defined.

c. The provisions of this Section 6 shall survive any termination of this Agreement.

7. **Design Reviews and Inspections** — The Member Generator shall provide to the Corporation the following documentation and inspection results:

a. One-Line Diagram. The diagram shall include, at a minimum, all major electrical equipment that is pertinent to understanding the normal and contingency operations of the Member Generator's DG Facilities, including generators, switches, circuit breakers, fuses, protective relays and instrument transformers.

b. Testing Records. Testing of Facilities shall include manufacturer recommended testing, including Corporation-verified operation of all interconnection relays and connect/disconnect devices at the start of commercial operation and periodic manufacturer recommended testing thereafter at least on an annual basis, also to be verified with the Corporation if deemed necessary by the Corporation. Records documenting testing and results shall be kept for two years following the testing and shall be provided to the Corporation upon request. The Corporation assumes no liability in its role of verification.

8. **Right of Access, Equipment Installation, Removal & Inspection** — The Corporation may send an employee, agent or contractor to the premises of the Member Generator at any time whether before, during or after the time the DG Facilities first produce energy to inspect the DG Facilities, and observe the DG Facility's installation, commissioning (including any testing), start-up and operation. At all times Corporation

shall have access to Member Generator's premises for any purpose in connection with the interconnection described in this Interconnection Agreement, the Rules, or to provide service to its members.

9. **Disconnection of Unit** — Member Generator retains the option to disconnect or cease using its DG Facilities from the System, provided that Member Generator notifies the Corporation of its intent to disconnect or cease using the DG Facilities for a period of at least thirty (30) calendar days by giving the Corporation written notice. Such disconnection shall not terminate the Member Generator's financial or other obligations to the Cooperative under this Agreement, and in no event shall such disconnection be a termination of the Interconnection Agreement unless Member Generator exercises rights to terminate under Section 12.

Member Generator shall disconnect its DG Facilities from the System upon the effective date of any termination under Section 12.

Corporation shall have the right to suspend service in cases where continuance of service to Member Generator will, in the Corporation's sole judgment, endanger persons or property.

10. **Metering** — Metering shall be accomplished as described in the Corporation's DG Procedures.

11. **Insurance** — Insurance shall be required as described in the Corporation's DG Procedures.

12. **Effective Term and Termination Rights** — This Agreement becomes effective as of the Effective Date when executed by both Parties and shall continue in effect until terminated. This Agreement may be terminated as follows: (a) Member Generator may terminate this Agreement at any time by giving the Corporation sixty (60) calendar days' written notice; (b) Corporation may terminate upon failure by the Member Generator to generate energy from the DG Facilities in parallel within one hundred eighty (180) calendar days after the Effective Date; (c) either Party may terminate by giving the other Party at least thirty (30) calendar days prior written notice that the other Party is in default of any of the terms and conditions of the Interconnection Agreement or the Rules or any rate schedule, tariff, regulation, contract or policy of the Corporation, so long as the notice specifies the basis for termination and there is opportunity to cure the default; (d) Corporation may terminate by giving Member Generator at least sixty (60) calendar days notice in the event that there is a material change in an applicable law, or any requirement of the Corporation's wholesale electric suppliers or any transmission utility, independent system operator or regional transmission organization having responsibility for the operation of any part of the System.

13. **Dispute Resolution** — Each Party agrees to attempt to resolve any and all disputes arising hereunder promptly, equitably and in good faith. If a dispute arises under this Agreement that cannot be resolved by the Parties within sixty (60) calendar days after written notice of the dispute, the Parties agree to submit the dispute to mediation by a mutually acceptable mediator. The Parties agree to participate in good faith in the mediation for thirty (30) calendar days. If the Parties are unsuccessful in resolving their dispute through mediation, then the Parties shall submit to arbitration pursuant to the Commercial Arbitration Rules of the American Arbitration Association. The venue of such arbitration shall be Sumter County, Georgia.

14. **Compliance with Laws, Rules and Tariffs** — The DG Facility installation owned/operated and installed by the Member Generator shall be installed and operated by Member Generator subject to and in accordance with:

a. the terms and conditions set forth in the Cooperative's Service Rules and Regulations, bylaws, rates and tariffs; and,

b. Corporation DG Procedures, as amended from time to time, and , if applicable, approved by the Cooperative'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 and in accordance with industry standard prudent engineering practices.

The provisions of the Cooperative's Service Rules and Regulations, the Cooperative's Bylaws, rates, tariffs, in the Cooperative's DG Procedures, or in any of the other documents executed by the parties or adopted by the Cooperative in connection with Member's ownership and operation of Member's DG Facilities (all collectively referred to herein as the "other documents") are all incorporated into this Interconnection Agreement as fully and completely as if set out herein. In the event that a conflict exists between any provision or provisions of this Interconnection Agreement and any provision or provisions of the other documents, the provision or provisions of the other documents shall in all events control.

15. **Severability** — If any portion or provision of this Agreement is held or adjudged for any reason to be invalid or illegal or unenforceable by any court of competent jurisdiction such portion shall be deemed separate and independent, and the remainder of this Agreement shall remain in full force and effect.

16. **Amendment** — This Agreement may be amended only upon mutual agreement of the Parties, which amendment will not be effective until reduced to writing and executed by both Parties.

17. **Entirety of Agreement and Prior Agreements Superseded** — This Interconnection Agreement, including the Rules and all attached Exhibits and Facilities Schedules, which are expressly made a part hereof for all purposes, constitutes the entire agreement and understanding between the Parties with regard to the subject matter hereof. The Parties are not bound by or liable for any statement, representation, promise, inducement, understanding or undertaking of any kind or nature (whether written or oral) with regard to the subject matter hereof not set forth or provided for herein. It is expressly acknowledged that the Parties may have other agreements covering other services not expressly provided for herein, which agreements are unaffected by this Interconnection Agreement.

18. **Force Majeure** — For the purposes of this Interconnection Agreement, a Force Majeure event is any event:

a. that is beyond the reasonable control of the affected Party; and

b. that the affected Party is unable to prevent or provide against by exercising reasonable diligence, including the following events or circumstances, but only to the extent that they satisfy the preceding requirements: acts of war, acts of terrorism, public disorder, rebellion or insurrection; floods, hurricanes, earthquakes, lightning, storms or other natural calamities; explosions or fires; strikes, work stoppages or labor disputes; embargoes; and sabotage.

19. **Assignment** — At any time during the term of this Interconnection Agreement, the Member Generator may assign this Interconnection Agreement provided that the Member Generator obtains the written consent of the Corporation in advance of the assignment. The Corporation's consent will be at the Corporation's discretion based on whether or not the Corporation determines that the Assignee is financially and technically capable to assume ownership and/or operation of the Member Generator's DG Facility and whether such Assignee meets all requirements as set forth in Paragraph 14 above. The company or individual to which this Interconnection Agreement is assigned will be responsible for the proper operation and maintenance of the Member Generator's DG Facility, and will be a party to all provisions of this Interconnection Agreement.

20. **Permits, Fees and Approvals** — The Corporation will have responsibility for the review, approval or rejection of the Member-Owned Generating Facility and Interconnection Application. The approval process is intended to ensure that the implementation of the applicant's Member DG Facility will not adversely affect the safe and reliable operation of the Corporation's System. However, any adverse effect shall be the sole responsibility of the Member Generator. The Member Generator agrees to pay the Application Fees and Engineering Fees as set forth in the most current Corporation DG Procedures.

21. **Notices** — Notices given under this Agreement are deemed to have been duly delivered if hand delivered or sent by United States certified mail, return receipt requested, postage prepaid, to:

a. If to Corporation:
General Manager
Middle Georgia Electric Membership Corporation
P.O. Box 190
Vienna, Georgia 31092

b. If to Member:
_____
_____
_____

The above-listed names, titles, and addresses of either Party may be changed by written notification to the other, notwithstanding Section 16.

22. **Invoicing and Payment** — For service rendered hereunder, the Member Generator will pay the Corporation monthly in accordance with the rates and minimum charges and will otherwise comply with the terms and conditions set forth or provided for in Rate Schedule _____, entitled _____ as the same is hereto attached and as it may be amended and changed from time to time hereafter during the entire term of this contract so long as such amendments and changes apply to all members governed by the _____ Rate Schedule.

In addition, for Member DG Facilities that qualify as Small DG Facilities, the Member Generator shall pay (or be credited, as the case may be) according to Schedule NEM-1, Net Energy Metering for Small DG Facilities, as the same is hereto attached and as it may be amended and changed from time to time hereafter during the entire term of this contract so long as such amendments and changes apply to all members governed by the NEM-1 Rate Schedule.

Such payments (or credits as the case may be) will also be as called for in the Corporation's bylaws and service rules and regulations which pertinent parts are made a part of this Interconnection Agreement. The Member Generator further agrees to be bound by any amendments and changes to said bylaws and service rules and regulations so long as said amendments or changes apply to all members of the Corporation or all members in a certain class of the Corporation uniformly.

It is specifically contemplated under this Agreement that the rates for the service rendered hereunder may go up or down and thus the _____, and/or NEM-1

Rate Schedules may go up or down based upon the rate under which the Corporation purchases electric power energy at wholesale and other costs of the Corporation, and Member Generator specifically agrees to be bound by such increases or decreases for the term of this contract as long as uniformly applied to the rate schedule(s) under which Member Generator is purchasing power.

23. **Membership** — The Member Generator, prior to, or on or as of, the effective date of this Agreement, if not already such, will become a member of the Corporation, will pay the membership fee required by the Corporation, and will otherwise be bound by the Corporation's Articles of Incorporation, Bylaws and Service Rules and Regulations as the same now existing, or except as provided in Section 22 hereof, as may from time to time be amended.

24. **Limitations (No Third-Party Beneficiaries, Waiver, etc.)** — This Interconnection Agreement is not intended to, and does not create, rights, remedies or benefits of any character whatsoever in favor of any persons, corporations, associations or entities other than the Parties and/or power supplier and/or transmission supplier, and the obligations herein assumed are solely for the use and benefit of the Parties and/or power supplier and/or transmission supplier. This Interconnection Agreement may not be assigned by the Member Generator without the prior written consent of the Corporation as specified in Section 19. The failure of a Party to this Interconnection Agreement to insist, on any occasion, upon strict performance of any provision of this Interconnection Agreement will not be considered to waive the obligations, rights or duties imposed upon the Parties.

25. **Headings** — The descriptive headings of the various articles and sections of this Agreement have been inserted for convenience of reference only and are to be afforded no significance in the interpretation or construction of this Agreement.

26. **Multiple Counterparts** — This Agreement may be executed in two or more counterparts, each of which is deemed an original but all constitute one and the same instrument.

SIGNATURE PAGE(S) TO FOLLOW

Signed, sealed and delivered
in the presence of:

MIDDLE GEORGIA ELECTRIC MEMBERSHIP CORPORATION

Notary Public

BY: _____
General Manager

_____

(CORPORATE SEAL)

My commission Expires: _____
(Notarial Seal)

_____
Witness

Signed, sealed and delivered
in the presence of:

BY: _____(L.S.)

_____
Notary Public

PRINTED NAME: _____

SSN: _____

My commission Expires: _____
(Notarial Seal)

_____
Witness

Signed, sealed and delivered
in the presence of:

MIDDLE GEORGIA ELECTRIC MEMBERSHIP CORPORATION

Notary Public

BY: _____
General Manager

_____

(CORPORATE SEAL)

My commission Expires: _____
(Notarial Seal)

_____
Witness

Signed, sealed and delivered
in the presence of:

[NAME OF CORPORATION]

BY: _____(L.S.)
(Title)

_____
Notary Public

PRINTED NAME: _____

FEN: _____

My commission Expires: _____
(Notarial Seal)

(CORPORATE SEAL)

_____
Witness

EXHIBIT 1
To
DESCRIPTION OF FACILITIES AND POINT OF INTERCONNECTION

Member will, at the Member's own cost and expense, operate, maintain, repair and inspect, and shall be fully responsible for its DG Facilities, unless otherwise specified on Exhibit A.

[The following information is to be specified for each Point of Interconnection]

- ❒ 1. Name:
- ❒ 2. Facilities location:
- ❒ 3. Delivery voltage:
- ❒ 4. Metering (voltage, location, losses adjustment due to metering location, and other):
- ❒ 5. Normal Operation of Interconnection:
- ❒ 6. One line diagram attached
- ❒ 7. Facilities to be furnished by Corporation:
- ❒ 8. Facilities to be furnished by Member:
- ❒ 9. Cost Responsibility:
- ❒ 10. Control area interchange point
- ❒ 11. Supplemental terms and conditions attached
- ❒ 12. A completed Member-Owned Generating Facility and Interconnection Application.
- ❒ 13. Corporation's special requirements for notice for connection and disconnection
- ❒ 14. Initial testing documentation acceptable to Corporation.

MIDDLE GEORGIA ELECTRIC MEMBERSHIP CORPORATION	**[MEMBER GENERATOR]**
BY: _____	BY: _____
TITLE: _____	TITLE: _____
DATE: _____	DATE: _____