Short Form General Application Tips

The customer name and service address entered in the application form must exactly match the customer name and service address associated with the AEP Ohio account (refer to AEP Ohio bill for this information). Additionally, the AEP Ohio account must be in the customer's correct legal name. If the customer name on the account needs to be revised, please call the AEP Ohio Customer Solutions Center at 800-672-2231 prior to submitting an application.

All generator equipment information entered in the application form (generator/inverter model numbers, quantity, electrical properties, etc.) must exactly match what is shown on the submitted specification sheets, electrical one-line diagram, site diagram, etc. Additionally, equipment information must be properly entered using the units indicated on the application form.

Site Diagram

It must clearly display the house/building(s) and location of the generator, AEP Ohio meter and generator AC disconnect switch. It must also include the customer name and service address, installer name, and date as well as a north arrow and geographic references such as streets, driveways, AEP Ohio poles or transformers, etc. If there are any existing generators, include the same items and information for them.

Electrical One-line Diagram

It must be a legible schematic diagram of the entire generating equipment system. A title block with the customer name, service address, installer name and date must be included. It should contain all of the electrical equipment from the AEP Ohio meter to the generator including switches, fuses, breakers, panels, transformers, inverters, energy source, wire size, equipment ratings and transformer connections. If there are any existing generators, include the same items and information for them. Besides the Generlink and DirectPower devices all other meter collar devices used to connect a behind-the-meter (BTM) distributed energy resource (DER) are not approved for use in the AEP Ohio service territory.

Technical Specifications and Documents

Submit the technical specifications literature of each component of the generating equipment system (i.e. inverters, photovoltaic modules, wind turbines, other generators, battery systems or other interface devices) which must be for the specific equipment that will be installed. A critical item for inverters is the UL 1741 approved or IEEE 1547 compliance documentation.

The technical specifications and requirements of IEEE 1547 are needed for the interconnection of all generating equipment systems and meeting them will be sufficient for most installations. Additional technical requirements may be necessary for some limited situations. For example, when a transformer configuration within the generating equipment system, elsewhere in the customer-generator's electrical system or at the AEP Ohio transformer consist of any three-phase delta connected windings.

Please refer to the "AEP Ohio Technical Requirements for Interconnection Service of Distributed Generation < 25 kW" for an explanation and guidance on the information needed in order for AEP Ohio to assess IEEE 1547 compliance of the generating equipment system.

Proof of Insurance

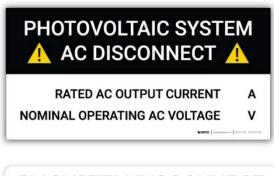
Customers must maintain sufficient amounts of insurance coverage to meet its construction, operating and liability responsibilities. A copy of the customer-generator's "Certificate of Liability Insurance" or for residential customers, a current copy of the Home Owner's Declaration Page that lists Property and Liability coverage is acceptable proof. The submitted proof of insurance must indicate the current policy period, customer's service address, and the named insured must match the customer name associated with the AEP Ohio account. If the customer is an entity that is self-insured, then written notification from an authorized representative of the entity attesting to have sufficient insurance coverage may be acceptable proof of insurance.

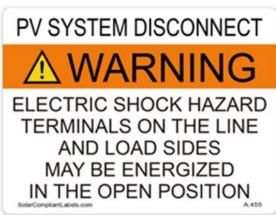
Generating Equipment System Disconnect Switch

As permitted by IEEE Std 1547™-2003 Clause 4.1.7, a readily accessible, lockable, visible-break isolation device shall be located between the Area Electric Power System and the DER.

AEP will only allow a single isolation device between the Area EPS and all DER connecting to the Area EPS at a customer's premise. This single isolation device is required to allow the company to isolate all DER at the premise with a single operation. The company may require this isolation device to be properly fused for the size (ampacity) of the wires in a "line side tap" connection configuration.

This isolation device should be immediately adjacent to the AEP meter (within 6 feet and between 4 to 6 feet above grade) and be clearly marked with labeling that easily identify the DER Disconnect Switch which will isolate energized equipment from the utility grid, such as the examples for solar shown in the inset below.





If the isolation device cannot be located as required, a permanent plaque must be placed next to the existing meter clearly stating the location of the isolation device at the premise.

Operation of the disconnect device must be restricted to AEP Ohio personnel and properly trained operators designated by the interconnection customer. The disconnecting device must comply with the applicable current ANSI Standard from the C37 series of standards that specifies the requirements for circuit breakers, reclosers and interrupting switches.

The disconnect switch itself must be readily accessible, lockable, visible-break isolation device such that AEP Ohio can lock the position of the switch in place using a padlock (a lockable cover on the switch does not meet this requirement), and plainly indicate whether it is in the open (off) or closed (on) position.

Supply-side Connections

A direct connection of the generating equipment system to the service conductors outside the main service equipment panel between the point of service and the service disconnecting means is not permitted. A supply-side connection of the generating equipment system can only take place on the supply-side of the main disconnect means or the service conductors within the main service equipment panel when suitable for that purpose. If connected on the service conductors a self-piercing connector is not recommended; instead, an insulated clamp style connector is preferred.

AEP Ohio will allow supply-side connections outside of the main service equipment panel provided the Authority Having Jurisdiction (AHJ) (i.e. State, City or County Building/Electrical Inspector) has provided documentation authorizing the connection. This in turn places full liability and responsibility on the AHJ and customer-generator. (The generator installer or certified electrician is NOT the AHJ with regard to supply-side connections). If there is no AHJ with the proper documents, as is often the case for many residential and some non-residential projects, then a supply-side connection will not be approved. AEP Ohio does not authorize nor accept the responsibility and liability of a supply-side connection outside the main service equipment panel.

A direct connection of the generating equipment system inside a meter enclosure or meter base for AEP Ohio metering is not permitted unless it is a UL Approved (SOLAR Ready type) meter• load center combination enclosure. At present other such meter bases are not available.

Inspections

The customer is responsible for ensuring the generating equipment system is inspected by the local authority that has jurisdiction for generator installations in their area and that all appropriate permits are acquired. AEP Ohio is not responsible for inspections but does make a field verification to confirm the generating equipment system installed matches what was submitted on the application.

Application Fee

The application fee for inverter-based systems with a nameplate capacity rating less than 25 kW is \$50. Upon submission of the application, an invoice for the application fee will be generated and sent by PowerClerk to the party indicated in the application form as being responsible for the application fee. Instructions for payment are included on the invoice. No application fee payments should be submitted without the associated invoice number the payment is to be applied to. Pre-payments will cause a delay.

Meter Change Fee

To accommodate participation of Schedules NEMS or COGEN/SPP a dual register meter that measures the energy delivered and received is installed at actual cost, borne by the customer. With most meters currently in use this cost is typically \$319 for residential and \$195 for nonresidential customers. In some cases the meter may already be capable of measuring the flow of electricity in both directions, but for various reasons AEP Ohio may change the meter at no cost to the customer. If there is a cost borne by the customer, the responsible party for the meter change fee will be notified prior to AEP Ohio making a meter change. Payment of the meter change fee invoice must be made in order to advance the project to the meter installation process.

Construction Cost

The customer must pay the full actual cost for all construction on the AEP Ohio system required to accommodate the safe operation of the generator. The customer will be notified of the estimated cost. A construction agreement will be secured and payment must be received by AEP Ohio before any construction is performed. In many cases there is no construction required when the generator capacity is not greater than the AEP Ohio facilities providing electric service.

Changes to Generating Equipment Systems

AEP Ohio must be notified immediately of any generating equipment system changes at any time to ensure the safety and electric service reliability are not impacted. If there is an expansion to the generator or the addition of another type of generator, then a new application identifying the new and existing generators must be submitted. If removal of the generator occurs after the initial installation is completed, the customer must notify AEP Ohio.

Interconnection Service Agreement

The Interconnection Service Agreement will be prepared by AEP Ohio.

The generator must not be placed in service until AEP Ohio provides a Permission to Operate notification.