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NEW YORK STATE ELECTRIC & GAS CORPORATION
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GENERAL INFORMATION

9. Distributed Generation Interconnection Requirements (Cont'd.)
- F. II. Interconnection Requirements for New Distributed Generators 300 kVA or Less, or Farm Waste Generators of 400 kW or Less, Connected to Radial Distribution Lines

A. Design Requirements

These requirements also apply, as appropriate, to Residential Solar Electric Power Producing Facilities of 10 kW or less.

1. Common

The generator-owner (see Section IV: Glossary of Terms for definition) shall provide appropriate protection and control equipment, including an automatic disconnect device (see Section IV: Glossary of Terms for definition), that will automatically disconnect (see Section IV: Glossary of Terms for definition) the generation in the event that the portion of the NYSEG system that serves the generator is de-energized for any reason or for a fault in the generator-owner's system. The generator-owner's protection and control equipment shall be capable of automatically disconnecting the generation upon detection of an islanding (see Section IV: Glossary of Terms for definition) condition and upon detection of a NYSEG system fault.

The generator's protection and control scheme shall be designed to ensure that the generation remains in operation when the frequency and voltage of the NYSEG system is within the limits specified by the required operating ranges (see Section IV: Glossary of Terms for definition). Upon request from NYSEG, the generator-owner shall provide documentation detailing compliance with the requirements set forth in this document.

The specific design of the protection, control and grounding schemes will depend on the size and characteristics of the generator-owner's generation, as well the generator-owner's load level, in addition to the characteristics of the particular portion of NYSEG's system where the generator-owner is interconnecting.

The generator-owner shall have, as a minimum, an automatic disconnect device(s) sized to meet all applicable local, state and federal codes and operated by over and under voltage and over and under frequency protection. For three-phase installations, the over and under voltage function should be included for each phase and the over and under frequency protection on at least one phase. All phases of a generator or inverter interface shall disconnect for voltage or frequency trip conditions sensed by the protective devices. It is recommended that voltage protection be wired phase to ground.

The settings below are listed for single-phase and three-phase applications using wye grounded-wye grounded service transformers or wye grounded-wye grounded isolation transformers. For applications using other transformer connections, a site-specific review will be conducted by NYSEG and the revised settings identified in Step 6 of the Application Process.

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