

PSC NO: 119 ELECTRICITY
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 (Cont'd.)

A. Design Requirements (Cont'd.)

1. Common (Cont'd.)

Voltage Magnitude

The required operating range for the generators shall be from 106 volts rms to 132 volts rms phase-to-ground (on a 120 volt rms base) at the PCC. That is, 88% to 110% of nominal voltage magnitude.

The protective device shall automatically initiate a disconnect sequence from the NYSEG system if the rms voltage at the PCC rises above 132 volts or falls below 106 volts on any phase to which the generator-owner's equipment is connected and remains outside the required operating range for two seconds. The two-second time limit is measured from the time the range is initially exceeded until the generator-owner's equipment ceases to energize (see Section IV: Glossary of Terms for definition) the PCC and includes detection and intentional time delay.

The protective device shall automatically initiate a disconnect sequence from the NYSEG system if the rms voltage at the PCC falls below 60 volts (50% of nominal voltage magnitude) on any phase to which the generator-owner's equipment is connected and remains below this level for six cycles. The six-cycle time limit is measured from the time the voltage reaches this level until the generator-owner's equipment ceases to energize the PCC and includes detection and intentional time delay.

The protective device shall automatically initiate a disconnect sequence from the NYSEG system if the rms voltage rises above 165 volts (137% of nominal voltage magnitude) or above on any phase to which the generator-owner's equipment is connected and remains above this level for two cycles. The two-cycle time limit is measured from the time the voltage reaches this level until the generator-owner's equipment ceases to energize the PCC and includes detection and intentional time delay.

Frequency

The required operating range for the generators shall be from 59.3 Hz to 60.5 Hz.

The protective device shall automatically initiate a disconnect sequence from the NYSEG system if the frequency rises above 60.5 Hz (+0.1/-0.0 Hz) or falls below 59.3 Hz (+0.0/-0.1 Hz) and remains outside these limits for six cycles. The six-cycle time limit is measured from the time the frequency reaches these levels until the generator-owner's equipment ceases to energize the PCC and includes detection and intentional time delay.

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