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GENERAL INFORMATION

- 9. Distributed Generation Interconnection Requirements (Cont'd.)
 - 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.)
 - b. Three-Phase Inverters and Relays (Cont'd.)

The voltage magnitudes listed below are given in percent of rms voltage rating of the inverter, followed in parentheses by the rms voltage magnitude for 120 V rated inverters:

Waveform 1: A three-phase sinusoidal operating at 60 Hz and 100% of rated voltage (120 V rms) interrupted by phase A voltage depressed to 49% of rated voltage (59 V rms) for six (6) cycles beginning and ending at a zero crossing while B and C phases continue at 100% of rated voltage (120 V rms). Repeat the same test with B phase depressed, with C phase depressed, with A and B phases depressed, with B and C phases depressed, and finally with all phases depressed to 49% of rated voltage (59 V rms) for six cycles.

Waveform 2: A three-phase sinusoidal operating at 60 Hz and 100% of rated voltage (120 V rms) interrupted by phase A voltage depressed to 49% of rated voltage (59 V rms) for six (6) cycles beginning and ending at a zero crossing while B and C phases are increased 125% of rated voltage (150 V rms) beginning and ending at the same point of discontinuity. Repeat the same test with B phase depressed and A and C phases increased and with C phase depressed and A and B phases increased.

Waveform 3: A three-phase sinusoidal operating at 60 Hz and 100% of rated voltage (120 V rms) interrupted by phase A voltage depressed to 88% of rated (105 V rms) for two seconds (120 cycles) beginning and ending at a zero crossing while B and C phases continue at 100% of rated voltage (120 V rms). Repeat the same test with B and C phases depressed to the same level and for the same duration holding the other two phases at 100%.

Waveform 4: A three-phase sinusoidal operating at 60 Hz and 100% of rated voltage (120 V rms) interrupted by phase A voltage increased to 111% of rated (133 V rms) for two seconds (120 cycles) beginning and ending at a zero crossing while B and C phases continue at 100% of rated voltage (120 V rms). Repeat the same test with B and C phases increased to the same level and for the same duration.

Waveform 5: A three-phase sinusoidal operating at 60 Hz and 100% of rated voltage (120 V rms) interrupted by phase A voltage increased to 138% of rated (166 V rms) for two cycles beginning and ending at a zero crossing while B and C phases continue 100% of rated voltage (120 V rms). Repeat the same test with B and C phases increased to the same level and for the same duration.

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