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Rochester Gas and Electric Corporation
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GENERAL INFORMATION

10. DISTRIBUTED GENERATION INTERCONNECTION REQUIREMENTS (Cont'd)

Radial Feeder: A distribution line that branches out from a substation and is normally not connected to another substation or another circuit sharing the common supply.

Required Operating Range: The range of magnitudes of the utility system voltage or frequency where the generator-owner's equipment, if operating, is required to remain in operation for the purposes of compliance with the type testing procedure contained in this document. Excursions outside these ranges must result in the automatic disconnection of the generation within the prescribed time limits

Type Test: A test performed or witnessed once by a qualified independent testing laboratory for a specific protection package or device to determine whether the requirements of this document are met. The type test will typically be sponsored by equipment manufacturers.

Utility Grade Relay: A relay that is constructed to comply with, as a minimum, the most current version of the following standards for non-nuclear facilities:

<u>Standard</u>	<u>Conditions Covered</u>
<u>ANSI/IEEE C37.90</u>	Usual Service Conditions Ratings –
⇒	Current and Voltage
⇒	Maximum design for all relays
⇒	Ac and dc auxiliary relays
⇒	Make and carry ratings for tripping contacts
⇒	Tripping contacts duty cycle
⇒	Dielectric tests by manufacturer
⇒	Dielectric tests by user
<u>ANSI/IEEE C37.90.1</u>	Surge Withstand Capability (SWC) Fast Transient Test
<u>IEEE C37.90.2</u>	Radio Frequency Interference
<u>IEEE C37.98</u>	Seismic Testing (fragility) of Protective and Auxiliary Relays
<u>ANSI C37.2</u>	Electric Power System Device Function Numbers
<u>IEC 255-21-1</u>	Vibration
<u>IEC 255-22-2</u>	Electrostatic Discharge
<u>IEC 255-5</u>	Insulation (Impulse Voltage Withstand)

Verification Test: A test performed upon initial installation and repeated periodically to determine that there is continued acceptable performance.

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