

PSC No: 19 - Electricity  
Rochester Gas and Electric Corporation  
Initial Effective Date: June 1, 2003

Leaf No. 158  
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Superseding Revision:

**GENERAL INFORMATION****10. DISTRIBUTED GENERATION INTERCONNECTION REQUIREMENTS (Cont'd)****For Synchronous Machines:**

Submit copies of the Saturation Curve and the Vee Curve  
( ) Salient ( ) Non-Salient  
Torque: \_\_\_\_\_ lb-ft Rated RPM: \_\_\_\_\_  
Field Amperes: \_\_\_\_\_ at rated generator voltage and current  
and \_\_\_\_\_ % PF over-excited  
Type of Exciter: \_\_\_\_\_  
Output Power of Exciter: \_\_\_\_\_  
Type of Voltage Regulator: \_\_\_\_\_  
Direct-axis Synchronous Reactance ( $X_d$ ) \_\_\_\_\_ ohms  
Direct-axis Transient Reactance ( $X'_d$ ) \_\_\_\_\_ ohms  
Direct-axis Sub-transient Reactance ( $X''_d$ ) \_\_\_\_\_ ohms

**For Induction Machines:**

Rotor Resistance ( $R_r$ ) \_\_\_\_\_ ohms Exciting Current \_\_\_\_\_ Amps  
Rotor Reactance ( $X_r$ ) \_\_\_\_\_ ohms Reactive Power Required:  
Magnetizing Reactance ( $X_m$ ) \_\_\_\_\_ ohms \_\_\_\_\_ VARs (No Load)  
Stator Resistance ( $R_s$ ) \_\_\_\_\_ ohms \_\_\_\_\_ VARs (Full Load)  
Stator Reactance ( $X_s$ ) \_\_\_\_\_ ohms  
Short Circuit Reactance ( $X''_d$ ) \_\_\_\_\_ ohms Phases:  
Frame Size: \_\_\_\_\_ Design Letter: \_\_\_\_\_ ( ) Single  
Temp. Rise: \_\_\_\_\_ OC. ( ) Three-Phase

**For Inverters:**

Manufacturer: \_\_\_\_\_ Model: \_\_\_\_\_  
Type: ( ) Forced Commutated ( ) Line Commutated  
Rated Output: \_\_\_\_\_ Amps \_\_\_\_\_ Volts  
Efficiency: \_\_\_\_\_ %

**Signature:**\_\_\_\_\_  
CUSTOMER SIGNATURE\_\_\_\_\_  
TITLE\_\_\_\_\_  
DATE

ISSUED BY: James A. Lahtinen, Vice President Rates and Regulatory Economics, Rochester, New York