

PSC No: 20 - Electricity  
Rochester Gas and Electric Corporation  
Initial Effective Date: June 1, 2003  
Issued under the authority of the PSC in Case 03-E-0634, order effective May 23, 2003

Leaf No. 161  
Revision: 1  
Superseding Revision: 0

### GENERAL INFORMATION

## 14. 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

Frame Size: \_\_\_\_\_ Design Letter: \_\_\_\_\_

Temp. Rise: \_\_\_\_\_ OC.

Phases:

( ) Single

( ) 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