



Énergie NB Power

Embedded Generation (Distribution Voltage) Interconnection Application

Applicant Information

Applicant	Customer Name:	Street Address:
	Contact Name:	Unit / Suite:
	Daytime Phone:	City:
	Fax:	Province:
	E-Mail:	Country:
	NB Power Account number:	Postal Code:

Project Information

Project	Developer:	Engineering Consultant:
	Contractor:	Proposed In-Service Date:

Generator Information

Generator	1.	Rated KVA:				
	2.	Nameplate Capacity (kW):				
	3.	Rated Power Factor:				
	4.	Rated Voltage at Generator (V):				
	5.	Generator Connection (Delta, Wye, Grounded Wye):				
	6.	Generator Type (Synchronous, Induction, Other):				
	7.	Synchronizing Method (Automatic or Manual):				
	8.	Impedance Data: (specify % or Ohms)	R1 =	X1 =	Ro =	Xo =
			Xd" =	Xd' =	Xd =	
			Rg =	Xg =		
	9.	Expected Annual Energy Production (kWh per year):				
	10.	Planned Generator Life (Years):				
	11.	Fuel Type:	Consumption:			
	12.	Synchronous Speed (RPM):				
	13.	Manufacturer:				
14.	Model:					
15.	Auxilliary Power Requirements (kW):					
16.	Cogeneration (Yes or No)?:	If Yes, Quality of Steam:				
		If Yes, Pounds of Steam Per Hour:				

Inverter Information (if applicable)

Inverter	1.	Rated Capacity (kW):		
	2.	Manufacturer:		
	3.	Model:		
	4.	Inverter Type (i.e. Grid-Dependent Type or Other; see Additional Information, Item 3):		
	5.	Output Voltage (V):		
	6.	Storage Battery in the System?	Yes	No

Unit Transformer Information					
Transformer	1.	Rated KVA:			
	2.	Primary Volts (Utility Side):			
	3.	Secondary Volts (Generator Side):			
	4.	Primary Winding Configuration (Delta, Wye):			
	5.	Secondary Winding Configuration (Delta, Wye):			
	6.	Impedance Data: (specify % or Ohms)	Z1 =	Zo =	
		Rg =	Xg =		
Primary Circuit Breaker Information (if applicable)					
Breaker	1.	Manufacturer:			
	2.	Operating (Trip) Time (Cycles or Milliseconds):			
	3.	Current Ratings - Continuous (Amps):	Maximum Interrupting (Amps):		
Primary Fuse Information (if applicable)					
	1.	Manufacturer:	Type:	Size: Speed:	
Generator Protection Information					
Generator Protection	Please complete the following information for all applicable protective and synchronizing devices.				
		Device Type	Manufacturer	Model	Proposed Sensing and Time Settings
	1.	25 - Synchronizing			
	2.	27 - Undervoltage			
	3.	32 - Reverse Power			
	4.	46 - Negative Seq.			
	5.	50 - Instantaneous O/C			
	6.	51 - Time O/C			
	7.	59 - Overvoltage			
	8.	81 - Under/Over Freq.			
	9.	40 - Loss of Excitation			
10.	Other -				
Contingency Response					
Contingency	Briefly indicate the operating sequence (breaker trip, unit shutdown, etc.) for the following contingencies.				
	1.	Loss of Utility Supply (1, 2 or 3 phase):			
	2.	A Fault on the Utility System (L-G or L-L):			
Additional Information					
Additional	Please enclose 2 copies of the following items with your application:				
	1.	ONE-LINE DIAGRAM showing protection equipment, breakers/fuses, transformers, generators and load equipment.			
	2.	SITE LOCATION MAP including topographical details and proximity of towers and foundations to NB Power's service connection, overhead and underground conductors and utility easements.			
3.	MANUFACTURER'S TECHNICAL SPECIFICATION for the inverter including confirmation of inverter type.				
Submission Information					
Submission	<p style="text-align: center;"> </p> <p style="text-align: center;"> Applicant Signature Date </p>				
	<p>The customer provides this statement to NB Power knowing that NB Power will rely on this information. All statements are true or believed to be true and are not intentionally misleading. Connection cannot be made until agreement between parties is signed and all terms and conditions of the contract are met.</p>				