

This form should be completed by the Installer on the customer's behalf where installation of an embedded generator (EG) connected in parallel with Jersey Electricity's distribution system is required – in accordance with Engineering Recommendation G59/2.

EMBEDDED GENERATOR INSTALLATION FORM (ABOVE 16A)

Site Details	
Tel No	Property Address
Premise No	
Customer No	
	Post code

Contact details	
EG Owner	Contact Person
Contact Tel No	

Installer details	
Installer	Address
Accreditation/ Qualification	
Contact Person	
Tel No	
Fax No	Email
	Post code

EG general details	
Manufacturer and Model Type	Serial Number of EG
Serial Number / Version Number of Software (if appropriate)	EG Rating (A) and Power Factor (under normal running conditions)
Maximum Peak Short Circuit Current (A)	Location of EG within the installation

Generator information (P.U. on rating)					
Rating (kVA)	kVA		Potier Reactance	Xp	
Inertia - H Constant kW secs/kVA <small>* 'H' is total inertia constant of ALL rotating masses, e.g. Generator, Turbine, Gearbox.</small>	H*		Saturation Factor	Sf	
Stator Resistance (@20°C)	Ra		Armature (@75°C)	Resistance	Ra
				Reactance	Xa
Direct Axis Reactance	Synchronous	Xd	Field	Or Ro/Xo	
	Transient	X'd		Resistance	Rf
	Sub-transient	X''d		Reactance	Xf
Quadrature Axis Reactances	Synchronous	Xq	Generator Transformer (If applicable)	Or R2/X2	
	Transient	X'q		Rating	kVA
	Sub-transient	X''q		Resistance	R
Time Constants (O.C.) Direct Axis	Transient	T'do	Reactance	X	
	Sub-transient	T''do	%	%	
Quadrature Axis	Transient	T'qo			
	Sub-transient	T''qo			

Speed governor and prime mover data governor details

Block Diagram for Speed Control	
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Prime mover data

Speed droop %		Second Amplifier block lag (T.C.)	secs
Sensor or amplifier gain		Engine Lead (T.C.)	secs
Sensor time constant	secs	Engine Lag (T.C.)	secs
First Amplifier block lag (T.C.)	secs	Rate of increase of output	
Second Amplifier block lead (T.C.)	secs	Rate of decrease of output	

Manufacturer's test characteristics - Information to be enclosed

Circuit diagrams and other specification drawings	
Manufacturer's test characteristics for Prime Mover / AVR	
Computer print out (where possible) or other schedule of protection settings to be provided	

Automatic voltage regulator - AVR IEEE type

Block Diagram	
IEEE Standard Type	

Exciter

Gain Kc		Feedback gain KF	
Time Constant Tc		Forward time constant TA	
Maximum output E max		Feedback time constant TF1	
Minimum output E min		Second Feedback time constant TF2	
Saturation Constant SE @ 75% E max		Input Filter constant TR	
Saturation Constant SE @ 100% E max		Amplifier output P.U.	
Generator Terminal Voltage VT			Max VR max
Main Generator Field EFD			Min VR min
Forward gain KA			

Comments - (continued on a separate sheet if necessary)

Name
Signature
Date

If you have an enquiries about this application, please call Jersey Electricity Planning Department on 505315.

PLEASE COMPLETE AND RETURN TO:
Customer Care Centre, The Powerhouse,
PO Box 45, Queens Road St Helier JE4 8NY