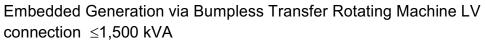




Certification	
CX Ref #: Energex WR#:	
Date: I I	
Embedded Generation via Bumpless Transfer RM ≤ 1,500 kVA – Project Name: Location: NMI:	
I certify that as a Registered Professional Engineer of Queensland and by virtue that the submission documentation complies with the requirements of the late	
 Energex's Technical Study Report provided for the above stated prospection of the STNW1174 - Standard for LV Embedded Generating Connections [No. 100] AS/NZS 3000 - Electrical Installations AS 60034.1 Rotating electrical machines, Part 1: Rating and perform Queensland Electricity Connection Manual [version] 	version]
In addition to the above, the following attachments have been submitted as pa	art of the application:
 Attachment 1 – Engine/Turbine/Alternator Specifications & Checklist Attachment 2 – Compliance Checklist Attachment 3 – Commissioning Test Results Attachment 4 – As Commissioned Drawings 	t
Signature:	
	RPEQ Engineer Name
	-
	Registration Number
	Professional Title
	Company Name
	Company Address

Contact Details





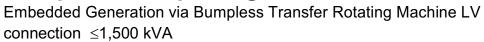
All questions in each applicable section must be answered.

Attachment 1 – Rotating Machine Specifications & Checklist

Installation details	Data
Customer Name	
Customer contact details	
Energex contact	
Installation approved capacity (kVA)	
Installation approved export (kW)	0kW
Installed capacity (kVA) (Must not exceed approved limit)	
Installed export power limit (kW) (Must not exceed approved export)	

As installed - Engine Technical Data

Parameters	Data
Engine type	
Make	
Model	
Rated Power (kWe/kWm)	
Rated Voltage (V)	
Rated Current (A)	
Engine type	

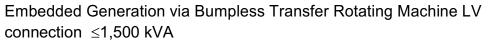




All questions in each applicable section must be answered.

As Installed – Alternator Technical Data

Parameters	Data
Туре	
Make	
Model	
Rated Power (kVA)	
Rated Current (A)	
Rated Voltage (V)	
Manufacturer's specification data sheet/user manual attached	Yes No
As Installed – Generating System	
Description	Tested by:
Complies with AS 60034.1	Yes No No
Comments (please supply additional information for any non-compliances)	
Single Line Diagram (SLD) attached	Yes No No
	Yes No No
	Yes No Data
Existing Onsite Embedded Generating Systems	
Existing Onsite Embedded Generating Systems Existing Installation details*	





All questions in each applicable section must be answered.

Attachment 2 - Compliance Checklist

Compliance with Standard for LV EG Connections

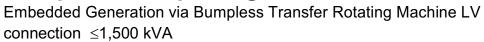
Clause	Description	Complies			
4.5.1	Changeover switch standards compliance (AS/NZS IEC60947.6.1)	Yes No No			
4.7.3	Interlocking	Yes No No	N/A 🗌		
4.7.5	Re-energisation and synchronisation	Yes No No			
4.7.6.1	Standards compliance (AS60034.1)	Yes No No	N/A 🗌		
6	Commissioning	Yes No No			
7	Operation and maintenance	Yes No No			
Comments (please supply additional information for any non-compliances and settings as required)					

Attachment 3 – Compliance Report – Commissioning

Commissioning shall include the following information and test certificates are recommended for further evidence:

Compliance with Standard for LV EG Connections

System Details	Complies	Data, provide details (attach docs if required)
Installed system meets all criteria outlined in the Energex's Technical Study Report issued for project	Yes No	





All questions in each applicable section must be answered.

Rotating Machine				
System Details	Complies		plies	Data, provide details (attach docs if required)
AC Output Voltage from generator on commissioning		Yes 🗌	No 🗌	
Input and Output power from rotating machine on commissioning		Yes 🗌	No 🗌	
Re-energisation and synchronisation as per standard		Yes 🗌	No 🗌	
Rotating machine performed as per approved Operating type (Clause 4.3)		Yes 🗌	No 🗌	Operating Type: Bumpless Transfer
Protection				
System Details		Complies		Data, provide details (attach docs if required)
Tripping and control scheme logic	Tripping and control scheme logic		No 🗌	
Instrument transformer ratios		Yes 🗌	No 🗌	
Comments (please supply additional information for any non-compliances and settings as required)				
Commissioning results attached Yes No Interlocking N/A				
System Details	Complies			Data, provide details (attach docs if required)
Manual (Key based) or	Yes 🗌	No 🗌		
Automated	Yes 🗌	No 🗌		
Prior approved automated design attached			Yes	s No No

Embedded Generation via Bumpless Transfer Rotating Machine LV connection $\,\leq\!1,\!500$ kVA



All questions in each applicable section must be answered.

Attachment 4 – As Commissioned Drawings

Single Line Diagram and AC Schematics should include

RPEQ Signature		
2. NMI, Site name and address		
Transfer switch and/or manual interlocking arrangement		
Single Line Diagram (SLD) attached	Yes 🗌	No 🗌
AC schematics attached	Yes 🗌	No 🗌