

BSCP32/4.1 Application for a Metering Dispensation

Part A – Applicant Details

To: BSCCo		Date Sent: _____
From: Requesting Applicant Details		
Name of Sender: ScottishPower Renewables (UK) Limited _____		
Contact email address: lpaton@scottishpower.com _____		
Contact Tel. No. _____	Contact Fax. No. _____	
Name of Applicant ScottishPower Renewables (UK) Limited Company: _____		
Address: 320 St Vincent Street, Glasgow _____ _____ _____		
Post Code: G2 5AD _____	Our Ref: _____	
Name of Authorised Signatory: Laura Paton _____		
Authorised Signature: _____	Password: _____	

Confidentiality:

Does any part of this application form contain confidential information?

Request for Confidentiality ~~YES~~/NO***Delete as applicable*

If 'YES', please state the parts of the application form that are considered confidential, including justification below. Information that is considered confidential:

Reasons for requesting confidentiality:

.....
number, site name, expiry date (if any) and BSC Panel determinations will routinely be made available in the public domain unless the applicant informs BSCCo otherwise at the time of application

BSCP32/4.1 Application for a Metering Dispensation (Cont.)**Part B - Affected Party Details**

Number of Affected parties_____¹

Contact Name at Affected party:	
Contact email address:	
Contact Tel. No.	Contact Tel. No.
Company Name of Affected party: ScottishPower Renewables (UK) Limited	
Address:	
Post Code:	

Contact Name at Affected party:	
Contact email address:	
Contact Tel. No:	Contact Tel. No.
Company Name of Affected party:	
Address:	
Post Code:	

¹ For more than one Affected party, Part B should be completed for each, using additional copies of Part B as required.

Contact Name at Affected party:	
Contact email address:	
Contact Tel. No.	Contact Tel. No.
Company Name of Affected party:	
Address:	
Post Code:	

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Part C – Reason for Application

If the application is an extension or update for an existing Metering Dispensation, enter existing ref: D/.....

Site Specific / ~~Generic~~* *Delete as applicable.

The switchgear at the Point of Connection to the grid does not have any space or spare panels for connecting the new power park module, therefore we propose to have the new metering equipment installed in the downstream switchgear. The existing meter will record the generation for both the existing wind farm and the new solar PV power plant, whilst the new meter will record the generation for the new solar PV power plant only with the 2 being differenced and settled separately.

The metering CT's installed in the new switchgear for the new solar PV power plant are 0.5S class rather than 0.2S class. The 0.5S class was assessed as being satisfactory for the PV generation due to the rating being below 10MVA.

Period of Metering Dispensation required

Lifetime / ~~Temporary~~* *Delete as applicable.

If temporary, indicate for how long the Metering Dispensation is required.	
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Provide justified reasoning for the period of Metering Dispensation requested in the box below:

Rationale for duration of Metering Dispensation:

The existing DNO and windfarm incomer will remain with the new switchgear installed for the purposes of connecting the solar PV. Given the internal network topology, we could not identify any other practical solution to avoid the Metering Dispensation for the entire lifetime of the power plants.

The metering CT's installed in the new switchgear are 0.5S class which was assumed to be satisfactory for the PV generation as the capacity of the new additional generation and hence associated PV circuit is below 10MVA. The installation is permanent and therefore would be required for the lifetime of the power plants.

Part D1 - Loss Adjustments for Power Transformer and/or Cable/Line Losses

Where loss adjustments are proposed and applied (or are to be applied) to the Metering System for power transformer and/or cable/line losses, provide the following information:

Describe how do you propose to correct the Metering System to account for the losses of this power transformer?

N/A

In order to validate the loss adjustments applied (or to be applied) to the Metering System please provide the following information together with supporting data (e.g. power transformer test certificates):

N/A

What are the iron losses for this power transformer?

N/A

What are the copper losses for this power transformer?

N/A

Are there any other losses that have been taken into account? ~~Yes~~/No*. If Yes what are they?

Demonstrate how these elements of loss have been used in the corrections to the Metering System.

N/A

*Delete as applicable.

Describe how do you propose to correct the Metering System to account for the losses of the power cable/line?

Both the windfarm and solar PV are owned and operated by SPR and it is considered that due to the short length of cable to connect the solar PV scheme to the defined metering point, the losses are negligible and will not impact the overall accuracy of the metering systems

In order to validate the loss adjustments applied (or to be applied) to the Metering System please provide the following information together with supporting data (e.g. cable/line manufacturer's data sheet):

What is the type of power cable/line?

BS 7870-4.10 Al XLPE 240 mm² (three single-core cables bundled in trefoil)

What is the length of this power cable/line?

30 meters

What is the DC resistance of this power cable/line?

0.00625 Ω

What is the impedance of this power cable/line?

0.00995 Ω

What is the capacitance of this power cable/line?

0.0116 μF

Are there any other losses that have been taken into account? ~~Yes~~/No*. If Yes what are they?

Demonstrate how these elements of loss have been used in the corrections to the Metering System.

Both the windfarm and solar PV are owned and operated by SPR and it is considered that due to the short length of cable to connect the solar PV scheme to the defined metering point, the losses are negligible and will not impact the overall accuracy of the metering systems

*Delete as applicable.

Materiality

Please complete the following:

What is the cost of providing compliant Metering Equipment?	What does this cost entail?
In excess of £1.5M, if even possible to facilitate due to local constraints in DNO network	A new connection including DNO and User connection apparatus would be required with tee connection into the existing 33kV network
What is the cost of the proposed solution?	What does this cost entail?
Less than £20k	Installation, commissioning and testing of a CoP2 Meters.
What is the impact to Settlement of your proposed solution?	Why?
No impact	Due to the proposed location there would be no notable losses in the system. Carland Cross Solar metered data will be deducted from the Carland Cross windfarm metered data (via a complex mapping form) to ensure that accuracy will be maintained for the Carland Cross windfarm metered data
What is the impact to other Registrants of your proposed solution?	Why?
No impact	No other Registrants are affected as there is only one Registrant for the Metering System and accuracy is maintained for both Carland Cross Solar and Carland Cross Windfarm Metering Systems.

Site Details (for Site Specific Metering Dispensation)

Site Name:	Carland Cross Solar
Site Address:	Carland Cross Solar South East of Newquay Cornwall, Truro TR8 5JB
MSID(s):	N/A Import MPAN: 2200040848888 Export MPAN: 2200031664357

Registered in: CMRS / SMRS*: *Delete as applicable.	SMRS
For SMRS, please advise of SMRA in space provided.	Western Power Distribution (MOP – Dataserve)

Manufacturer Details (for Generic Metering Dispensation)

Manufacturer Name:	
Metering Equipment Details:	

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Part D - Technical Details

Code of Practice details

Metering Dispensation against Code of Practice*	<i>BSC CoP2</i>
Issue of Code of Practice*:	<i>Issue 5</i>
Capacity of Metering Circuits/Site Maximum Demand (MW/MVA):	<i>20 MVA</i>
(Proposed) Commissioning Date of Metering:	<i>30th July 2021</i>
Accuracy at Defined Metering Point:	<i>CoP2 (0.5VT, 0.2S CT, 0.5S Meter)</i>
Accuracy of Proposed Solution (including loss adjustments):	<i>CoP2 (existing at Defined Metering Point) New solar PV circuits – sub 10MVA with 0.5S class CT – all other Metering Equipment compliant to CoP2</i>
Outstanding non-compliances on Metering Systems:	<i>N/A</i>
Deviations from the Code of Practice (reference to appropriate clause):	<i>Appendix A, paragraph 6 5.1.1 Current Transformers</i>

* insert Code of Practice number and issue

Any Other Technical Information

Reference SLD: *Carland Cross Solar - metering diagram.pdf*

Declaration

We declare that other than as set out above we are in all other respects, in compliance with the requirements of the relevant Code of Practice and the BSC. A schematic is attached to this application for clarification of the metering points involved.

Signature: *Date:*

Password:

Duly authorised for and on behalf of Applicant Company

Confirmation of Receipt and Reference

BSCCo acknowledges receipt of this document and has assigned the reference number as indicated on the first page.

Signature: C Day *Date:* 21 July 2021

Duly authorised for and on behalf of BSCCo