

BSCP32/4.1 Application for a Metering Dispensation**Part A – Applicant Details**

To: BSCCo		Date Sent: 19/11/2020
From: Requesting Applicant Details		
Name of Sender: _____		
Contact email address: _____		
Contact Tel. No. _____	Contact Fax. No. _____	
Name of Applicant Company: EDF Energy (LENCO)		
Address:		
9o Whitfield Street, Fitzrovia		
London		
Post Code: W1T 4EZ	Our Ref: _____	
Name of Authorised Signatory:		
Authorised Signature: _____	Password: _____	

Confidentiality:

Does any part of this application form contain confidential information?

Request for Confidentiality YES *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:

Attached single line diagram.

Reasons for requesting confidentiality: Commercial

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__2__¹

Contact Name at Affected party:	
Contact email address:	
Contact Tel. No.	Contact Tel. No.
Company Name of Affected party: National Grid	
Address: National Grid Faraday House	
Warwick Technology Park	
Gallows Hill	
Warwick	
Post Code: CV34 6DA	

Contact Name at Affected party:	
Contact email address:	
Contact Tel. No.	Contact Tel. No.
Company Name of Affected party: Cloud HQ	
Suite 306, Slone Avenue	
London	
Post Code: SW3 3DD	

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

BSCP32/4.1 Application for a Metering Dispensation (Cont.)

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.

Describe why you require a Metering Dispensation. Include any steps you propose to limit the impact on Settlement and other Registrants:

A Metering Dispensation is required due to the Actual Metering Points (AMPs) being a few metres from the Defined Metering Points (DMPs) (i.e. the points of connection (Boundary Points) to the Transmission System)).

A new Data Centre is being built and it has four distribution systems feeding off two SGTs (400kV/33kV). The design of the system to retain the dual redundancy of power supply to the site (see drawing P1151-CHQ-DWG-1000).

For each SGT (SGTs 3 and 4), the AMP for the Settlement Metering System is located just above the connections to the 33kV busbars between the two feeders. The DMPs are at the connections of the two feeders to the Milton 33kV Substation. The distance is minimal between the AMP and the DMPs.

There should be four BM Units allocated for this site, one for each set of Plant and Apparatus connected to the four Transmission System Boundary Points but, due to the location of the metering, the Lead Party (who will also be the Registrant of the Metering System for the Data Centre) has applied for two Non-Standard BMUs, one per SGT connection (BSCP15).

The Registrant for the Data Centre is therefore requesting a lifetime Metering Dispensation from Code of Practice (CoP) 2 to use two sets of CoP1 Metering Equipment at the AMPs rather than four sets of CoP2 Metering Equipment at the DMPs. The Registrant does not propose to compensate the Metering System for the electrical losses between the AMPs and the DMPs as the losses are deemed not material to the accuracy of the Metering System.

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 distance from the AMP to the DMP will not change over the lifetime of the asset therefore the Metering Dispensation should be for the lifetime of the asset.

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. There is no power transformer between the AMPs and the DMPs.

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?

The loss between the AMPs and DMPs is negligible therefore compensation will not be required. The link is a busbar connection provided by National Grid Electricity Transmission (NGET).

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):

N/A

What is the type of power cable/line?

Transmission System busbars

What is the length of this power cable/line? Approx. 10 metres

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

What is the impedance of this power cable/line? N/A

What is the capacitance of this power cable/line? 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.

Materiality

Please complete the following:

What is the cost of providing compliant Metering Equipment?	What does this cost entail?
Approx.. £250k	Supplying four sets of CoP2 CT/VTs and main and check Meters, for each of the four feeders, at the DMPs.
What is the cost of the proposed solution?	What does this cost entail?
£110k	Supplying two sets of CoP1 CT/VTs and main and check Meters for each of the two circuits from the SGTs. £55k per circuit.
What is the impact to Settlement of your proposed solution?	None.
None.	Accuracy at the DMPs will be maintained within CoP2 overall accuracy limits (without any compensation for losses from the AMPs to the DMPs).
What is the impact to other Registrants of your proposed solution?	None
None	As accuracy at the DMPs will be maintained within CoP2 overall accuracy limits there will be no impact on other Registrants.

Site Details (for Site Specific Metering Dispensation)

Site Name:	Data Centre at Didcot
Site Address:	Land adjacent to Didcot B Power Station, Didcot OX11 7YS
MSID(s):	7423
Registered in: CMRS / SMRS*: *Delete as applicable.	CMRS
For SMRS, please advise of SMRA in space provided.	N/A

Manufacturer Details (for Generic Metering Dispensation)

Manufacturer Name:	N/A
Metering Equipment Details:	N/A

BSCP32/4.1 Application for a Metering Dispensation (Cont.)**Part D - Technical Details****Code of Practice details**

Metering Dispensation against Code of Practice*	Two
Issue of Code of Practice*:	Issue 4 (Version 14)
Capacity of Metering Circuits/Site Maximum Demand (MW/MVA):	75MVA nominal per SGT, Total 150MVA Max on major maintenance or failure of SGT
(Proposed) Commissioning Date of Metering:	2 nd May 2021 for SGT3 & 25 th June 2021 for SGT4. Dates to align and be co-ordinated to NG energisation dates and JSM (contractors carrying the work) programme of works
Accuracy at Defined Metering Point:	CoP2
Accuracy of Proposed Solution (including loss adjustments):	CoP1
Outstanding non-compliances on Metering Systems:	N/A
Deviations from the Code of Practice (reference to appropriate clause):	<p>Appendix A Bullet 8 of CoP2:</p> <p>“For transfers between the Transmission System and a Customer, the DMP shall be at the point(s) of connection to the Transmission System.”</p> <p>4.3.3 Compensation for Power Transformer and Line Losses</p> <p>“Subject to Appendix A paragraph 1 and paragraph 5(ii), where the Actual Metering Point and the Defined Metering Point do not coincide a Metering Dispensation shall be applied for and, where necessary, accuracy compensation for power transformer and/or line losses shall be provided to meet the overall accuracy at the Defined Metering Point.”</p>

* insert Code of Practice number and issue

Any Other Technical Information

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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:* 02/09/2021

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: *Date:* 3 December 2020

Duly authorised for and on behalf of BSCCo