ELEXON

Metering Dispensation D/558 – Cambridge Arms DSCP

Imbalance Settlement Group

Date of meeting	**2 May 2023**	Paper number	**265/05**
Owner/author	**Mike Smith**	Purpose of paper	**Decision**
Classification	**Public**	Document version	**V1.0**

Summary **National Grid Electricity Distribution (West Midlands) plc has applied for a temporary, three year, Metering Dispensation from Code of Practice (CoP) 1 and CoP2 for the Metering Equipment related to its Cambridge Arms Distribution Systems Connection Point. We invite the ISG to approve D/558, on a temporary basis, for three years.**

1. BSC requirements

1.1 Section L[1] of the Balancing and Settlement Code (BSC) requires all Metering Equipment to either:

- comply with the requirements set out in the relevant Code of Practice (CoP) at the time the Metering System is first registered for Settlement under the BSC (L3.2.2)[2]; or
- be the subject of, and comply with, a Metering Dispensation (L3.4).

1.2 Section L allows the Registrant of a Metering System to apply for a Metering Dispensation if, for financial or practical reasons, Metering Equipment will not or does not comply with some or all the requirements of a CoP.

1.3 The process for applying for a Metering Dispensation is set out in BSCP32[3].

2. Confidentiality

2.1 BSCP32 allows the Metering Dispensation applicant to request confidentiality via the application form (BSCP32/4.1).

2.2 In this case, the applicant has noted on the application form that the application itself is not confidential. However, the applicant has requested that we keep Attachment B confidential until the newest Customer connecting to its Distribution System has confirmed if it should remain so or not.

3. Background to Metering Dispensation D/558

3.1 Four 275/132kV Supergrid Transformers (SGTs) feed the Iron Acton 132kV substation. National Grid Electricity Transmission (NGET) owns the SGTs and the 132kV busbars they feed. These assets are considered part of the Transmission System. Off the 132kV busbars there are:

- four feeder circuits for National Grid Electricity Distribution (NGED) (South West) – registered as GSP_IROA1;
- two feeder circuits for NGED (West Midlands) – registered as II_IROA_E; and
- two feeder circuits for NGED (West Midlands) – registered as II_CAMBR_ARM.

[1] 'Metering'
[2] Metering Equipment comprised in a Metering System registered under the Pooling and Settlement Agreement (P&SA), before the Go-Live Date, needed to comply with the version of the "Code of Practice" (as defined in and for the purposes of the P&SA) with which such Metering Equipment was, immediately before the Go-live Date, required to comply with, by virtue of the provisions of the P&SA (L3.2.3 (a)).
[3] 'Metering Dispensations'

3.2 More recently, a BM Unit was also connected to the NGET 132kV busbars - registered as T_LARKS-1.

3.3 The Defined Metering Point (DMP) for transfers between the Transmission System and more than one Distribution System, operated by a Licensed Distribution System Operator, connected to the same busbar, is at the circuit connections of each Distribution System operated by a Licensed Distribution System Operator to such busbar.

3.4 For transfers between the Transmission System and Generating Plant, the DMP is at the point(s) of connection of the Generating Plant to the Transmission System.

3.5 GSP_IROA1 is metered (under Metering Dispensation D/36) at the low voltage side of the SGTs so the NGED (West Midlands) circuits, off the 132kV busbars, are treated as Distribution Systems Connection Points (DSCPs) and differenced off the GSP IROA1 Aggregation Rule at the Grid Supply Point Group Take (GSPGT) level.

3.6 The BM Unit (T_LARKS-1), connected to the 132kV busbars, is treated as directly connected to the Transmission System and differenced off the GSP_IROA1 Aggregation Rule directly.

3.7 NGET also own parts of the two circuits out to Cambridge Arms (II_CAMBR_ARM), up to the point where the circuits used to tee-off to the Oldbury Power Station, which has now been decommissioned and deregistered in Settlement. The Cambridge Arms circuits are metered remotely at Cambridge Arms, to Code of Practice 1, and Line Loss Factors (LLFs) are applied to correct the readings back to the old tee-off and the NGET/NGED (West Midlands) boundary. There is no existing Metering Dispensation for the non-compliant location of the Cambridge Arms CoP1 Metering Equipment, away from the point of connection (the DMP) to the NGET parts of these two circuits.

4. Metering Dispensation D/558 – Cambridge Arms DSCP

4.1 NGED (West Midlands) has applied for a temporary, three year, Metering Dispensation from CoP1[4] and CoP2[5] for the Metering Equipment related to its Cambridge Arms DSCP (Attachment A).

4.2 The request for a Metering Dispensation from CoP1 is to cover off the location of the Cambridge Arms Metering Equipment, which is not located at the DMP.

4.3 NGED (West Midlands) also needs to add a new Customer (Berkley BESS[6]) to one of the two Cambridge Arms circuits and this will impact on the II_CAMBR_ARM aggregation, in the short term, because the connection is 'above' the existing Cambridge Arms metering. However, it is planned that, longer term (estimated at three years), the metering at Cambridge Arms will be moved to Iron Acton, which will make the arrangements much simpler. NGED (West Midlands) needs time to arrange the ownership transfer of the NGET parts of the two circuits to itself and install new Metering Equipment at Iron Acton at the point of connection to NGET's 132kV busbars (the new DMP). The existing CoP1 Metering Equipment at Cambridge Arms will then be de-registered.

4.4 As a temporary measure, it is proposed that NGED (West Midlands) adds the new Berkley BESS site's metered data to the Cambridge Arms Aggregation Rule. See Attachment B for a Single Line Diagram showing the relevant connections and Metering Equipment locations for this Metering Dispensation application.

4.5 As a new 132kV Distribution System Boundary Point connection, without any load history, generic LLFs for the voltage would be applied to the Berkley BESS Metered Volumes, as per BSCP128[7]. The same LLFs will be used for the Settlement of the new BMU and the addition to the Cambridge Arms Aggregation Rule. For details of the existing and proposed Aggregation Rule for Cambridge Arms, see the 'Any Other Technical Information' section (page 12 of 13) in Attachment A.

5. MDRG comments

5.1 We circulated the Metering Dispensation application and its attachment to the Metering Dispensation Review Group (MDRG) for comments (Attachments A and B).

5.2 One out of four MDRG members responded. This MDRG member supports the application, and approach, since the losses will be applied in accordance with BSCP128, by the Central Data Collection Agent, and then updated once the applicant has sufficient data for the new Berkley BESS site to analyze.

[4] 'Code of Practice for the metering of circuits with a rated capacity exceeding 100MVA for Settlement purposes'
[5] 'Code of Practice for the metering of circuits with a rated capacity not exceeding 100MVA for Settlement purposes'
[6] Barkley BESS will have its Metering Equipment registered in Central Volume Allocation (CVA) and will be treated as an Embedded BM Unit.
[7] 'Production, Submission, Audit and Approval of Line Loss Factors'

6. NETSO comments

6.1 We circulated the Metering Dispensation application and its attachment to the National Electricity Transmission System Operator (NETSO) for comments (Attachments A and B).

6.2 At the time of writing the NETSO has not confirmed if it has any objection to the Metering Dispensation application.

7. Elexon's view

7.1 Elexon supports this temporary, site specific Metering Dispensation application, for the location of the existing Metering Equipment (under MSID 7294) at Cambridge Arms, as BSCP128 approved LLFs will be used to correct the readings to the existing DMP (the point at which NGET feeder circuits from Iron Acton tee off to the deregistered Oldbury Power Station).

7.2 As an interim measure, rather than installing new DSCP Metering Equipment (or using a duplicate set of Outstations connected to the 'to be registered' CVA BESS Metering System), it makes practical and financial sense to use the Berkley BESS's metered data instead, with a generic LLF for the site, until new Metering Equipment for the DSCP can be installed at Iron Acton in three years' time. There will be some materiality associated with using generic LLFs for a year, until site specific ones are determined for the BESS, but this is no different to any other site where generic LLFs must be used until site specific ones can be determined and used instead.

8. Recommendation

8.1 We invite the ISG to:

a) **APPROVE** Metering Dispensation D/558 from Codes of Practice 1 and 2, for the Cambridge Arms Distribution Systems Connection Point Metering System, on a temporary, three year basis.

Attachments

Attachment A – Metering Dispensation application (D/558)

Attachment B (CONFIDENTIAL) – Single Line Diagram

For more information, please contact:

Mike Smith, Metering Analyst

mike.smith@elexon.co.uk

020 7380 4033