

Metering Dispensation – D/554 Wishaw BESS

Imbalance Settlement Group (ISG)

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Summary **Zenobe Wishaw Energy (Zenobe) has applied for a lifetime, site specific Metering Dispensation from Code of Practice (CoP) 2. The application is for the location of, and standards for, the Metering Equipment associated with the Wishaw Battery Energy Storage System (BESS). Zenobe wishes to set up a Balancing Mechanism (BM) Unit for the BESS itself and a separate BM Unit for the auxiliary supplies for the BESS. This requires CoP2 and CoP3 Metering Equipment, respectively, to be located 20m below the Defined Metering Point. We invite the ISG to approve Metering Dispensation D/554, on a lifetime basis.**

1. BSC requirements

- 1.1 Section L¹ 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); 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](#)².

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 (via email) that we keep certain related documents (Attachments B and C) confidential because they are commercially sensitive.

3. Background to Metering Dispensation D/554

- 3.1 The Wishaw Energy Storage Scheme comprises a 50MW Battery Energy Storage System (BESS) and its auxiliary supplies (1.5MVA). The scheme connects into the Netherton Energy 33kV substation which is to be owned and operated by Scottish Power Transmission (SPT). This is where the point of connection to the Transmission System is and is the location of the Defined Metering Point (DMP). Although there is [CoP2](#)³ compliant metering at the DMP (shown in the SLD, Attachment B), this will not be used.

¹ 'Metering'

² 'Metering Dispositions'

³ 'Code of Practice for the metering of circuits with a rated capacity not exceeding 100MVA for Settlement purposes'

- 3.2 The SPT substation goes on to connect into a tee off on the 33kV side of Supergrid Transformer 2 (SGT2) at the Wishaw 275/33kV substation.
- 3.3 The applicant proposes to create two separate Balancing Mechanism (BM) Units at the Wishaw BESS site. One for the BESS and a second one for its auxiliary supplies. The BESS feeder will be metered to CoP2 standards and the auxiliary supplies feeder to [CoP3](#)⁴ standards. There is a spare feeder (with CoP2 compliant measurement transformers provided) which could be used in the future to support the existing capacity of the BESS, as the batteries degrade over time. Space has been provided for CoP2 Meters for this spare feeder.

4. Metering Dispensation D/554 – Wishaw BESS

- 4.1 Zenobe Wishaw Energy has applied for a lifetime Metering Dispensation (D/554) from CoP2 for the location of the Metering Equipment associated with the Wishaw BESS at Wishaw (Attachment A).
- 4.2 A Metering Dispensation is required because the Actual Metering Points (AMPs) for each of the two proposed Wishaw BESS BM Units are 20m from the shared DMP. This is due to the configuration of the connection of two BM Units at the site, to the single point of connection at the Wishaw 33kV substation (Attachment B).
- 4.3 The applicant has calculated the losses from the AMPs to the DMP, over 20m of cable, and the Active Energy losses are 0.0025% of nominal load and the Reactive Energy losses are 0.0057% of nominal load (Attachment C). The applicant has determined that these losses are negligible and does not propose to compensate the CoP2 or CoP3 Meters for them. Overall accuracy of the relevant CoPs (2 or 3) will be maintained at the DMP.

5. MDRG comments

- 5.1 We circulated the Metering Dispensation application (D/554) and its attachments to the Metering Dispensation Review Group (MDRG) for comments (Attachments A – C).
- 5.2 Three out of four MDRG members responded. All three MDRG members support the application on the following bases:
- the calculated losses are sufficiently small that they can be considered as negligible; and
 - the relevant CoP limits of overall accuracy are complied with.

6. NETSO comments

- 6.1 We circulated the Metering Dispensation applications (D/554) and its attachments to the National Electricity Transmission System Operator (NETSO) for comments (Attachments A – C).
- 6.2 The NETSO has no objection to this Metering Dispensation, considering the short length of cable (20 m) between AMPs and DMP, and CoP2 overall accuracy limits for the BESS metering, and CoP3 overall accuracy limits for the BESS auxiliary supplies metering, will be maintained at the DMP without loss compensation.

7. Elexon's view

- 7.1 Elexon supports this application as CoP2 overall accuracy limits for the BESS metering, and CoP3 overall accuracy limits for the BESS auxiliary supplies metering, will be maintained at the DMP without the need to compensate for the 20m of cable losses from the AMPs to the DMP.

8. Recommendation

- 8.1 We invite the ISG to:
- a) **APPROVE** Metering Dispensation D/554, from CoP2, on a lifetime basis, for the location of, and standards for, the Metering Equipment associated with the Wishaw BESS.

Attachments

Attachment A – Metering Dispensation application D/554 (Wishaw BESS)

Attachment B (CONFIDENTIAL) – Single line diagram - Wishaw BESS

⁴ 'Code of Practice for the metering of circuits with a rated capacity not exceeding 10 MVA for Settlement purposes'

For more information, please contact:

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