

ISG206/03 - METERING DISPENSATION D/486 – USKMOUTH BIOFUEL

MEETING NAME ISG 206

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Purpose of paper Decision

Classification Public

Summary Simec Power has applied for a lifetime Metering Dispensation (D/486) against Code of Practice 2 for the location of the Metering Equipment associated with a new Biofuel Park (Uskmouth Biofuel) located on the site of the decommissioned Uskmouth Power Station. We invite the ISG to approve D/486 on a lifetime basis.

1. BSC requirements

1.1 Section L 'Metering' 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; or
- be the subject of, and comply with, a Metering Dispensation.

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 'Metering Dispersions'.

2. Background to Metering Dispensation D/486

2.1 Simec Power has built an 18MW Biofuel Park (Uskmouth Biofuel) on the site of the decommissioned Uskmouth Power Station. The Biofuel Park will provide balancing, ancillary and other commercial services.

2.2 The scheme consists of 14 biofuel containers connected together and designed to function as a single Balancing Mechanism Unit (Attachment B).

2.3 The Biofuel Park will connect to the Transmission System via the existing 132kV banking compound busbar for the Uskmouth Power Station (Attachment C¹).

2.4 The Uskmouth Power Station banking compound busbar connects to the Transmission System via a 225m length of cable. The Transmission System connection is at the site of the Uskmouth Grid Supply Point (GSP) (Attachment D)².

2.5 The Defined Metering Point (DMP) for the Biofuel Park is the point of connection to the Transmission System however, the Actual Metering Point (AMP) for the Biofuel Park is 10m from the banking compound busbar.

¹ The Pellet Plant is a potential future connection below the Biofuel Park Settlement Meter.

² Uskmouth GSP is a 'complex registration' GSP. The metering for the 'E_' BM Unit for the Uskmouth Power Station station transformers is differenced off the Uskmouth GSP metering at a GSP Group Take level whereas the metering for the other 'T_' BM Units for Uskmouth Power Station are differenced off the GSP metering itself via the Uskmouth GSP Aggregation Rule.

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The distance from the Biofuel Park connection at the banking compound busbar to the tee off for the cable to the Transmission System, is approximately 25m. The cable to the Transmission System Boundary Point is approximately 225m in length. This gives a total distance from the AMP to the DMP of 260m.

3. Metering Dispensation application (D/486)

- 3.1 Simec Power has applied for a lifetime Metering Dispensation against CoP2³ for the location⁴ of the Metering Equipment associated with the Uskmouth Biofuel Park (Attachment A). The Metering Equipment associated with the Biofuel Park is fully compliant with CoP2, aside from its location away from the DMP.
- 3.2 The reason for the application is that the applicant estimates the cost of providing compliant Metering Equipment at the DMP, which will require a new connection point, would be in excess of £5M. The proposed solution will cost £20k-£30k.
- 3.3 The applicant has applied for a lifetime Metering Dispensation on the basis that the arrangement is intended to be enduring and is not expected to change.
- 3.4 The applicant considers the losses from the AMP (and across the banking compound busbar) to the cable to the Transmission System to be minimal and does not propose to compensate for these losses. The applicant proposes to compensate for the losses in the 225m cable from the banking compound busbar to the Transmission System Boundary Point (the DMP) but notes that indications are that they will not be significant and below the measurable tolerance of the Metering System.
- 3.5 As overall accuracy at the DMP will be maintained within the CoP2 limits the applicant does not consider the proposed solution poses a risk to Settlement.

4. Metering Dispensation Review Group (MDRG) comments

- 4.1 Four out of five MDRG members responded to ELEXON's request for comments on the Metering Dispensation application. All four MDRG members support the Metering Dispensation application.
- 4.2 Two MDRG members support the Metering Dispensation application as:
 - the Metering Equipment is on the high voltage side of the Biofuel Park transformer⁵;
 - the losses between the AMP and the DMP have also been assessed; and
 - accuracy will be maintained within CoP2 limits at the DMP.
- 4.3 Two MDRG members support the Metering Dispensation application as:
 - the risk to accuracy is minimal.

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

⁴ Specifically from paragraph 8 of Appendix A 'Define Metering Points'.

⁵ Therefore no losses in the Biofuel Park transformer need to be considered.

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5. Transmission Company and LDSO comments

- 5.1 The Transmission Company confirmed it had no issues or objections to the application.
- 5.2 As the metering for the Uskmouth Biofuel Park will need to be differenced from the GSP metering its self; via the Uskmouth GSP Aggregation Rule; we contacted the LDSO (Western Power Distribution) to ensure this is undertaken at the same time the Uskmouth Biofuel Park is registered (expected to be 26 June 2018) they confirmed it had no specific technical information regarding the new connection to Uskmouth Biofuels as they are not its customer but supports the conclusion that accuracy will be maintained within CoP2 limits at the DMP.

6. Electrical Loss Validation Agent (ELVA) comments

- 6.1 We submitted the Metering Dispensation application to the ELVA for validation of the proposed compensation. The ELVA has confirmed the proposed compensation is suitable to account for the losses in the 225m of cable from the banking compound busbar to the Transmission System Boundary Point (the DMP).

7. ELEXON's view

- 7.1 ELEXON supports this application on the grounds that the losses between the AMP and DMP will be minimal and therefore overall accuracy of the Metering System will be maintained within CoP2 limits.

8. Recommendations

- 8.1 We invite you to:
- a) **APPROVE** Metering Dispensation application D/486 on a lifetime basis.

Attachments

Attachment A – Metering Dispensation application D/486

Attachment B – Single Line Diagram for Uskmouth Biofuel Park

Attachment C – Single Line Diagram for Uskmouth Biofuel Park connection to Uskmouth Power Station

Attachment D – Single Line Diagram for meter locations at Uskmouth Biofuel Park, Uskmouth Power Station and Uskmouth Grid Supply Point

For more information, please contact:

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