

## Metering Dispensation – D/551 Sellindge Bipole 1

### Imbalance Settlement Group (ISG)

Date of meeting	<b>6 September 2022</b>	Paper number	<b>257/04</b>
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**Summary**

**National Grid Interconnectors Limited (NGIL) has applied for a lifetime, site specific Metering Dispensation (D/551) from Code of Practice (CoP) 1. This is for the location of the new alternating current (AC) measurement transformers it proposes to use for the new Bipole 1 Settlement Metering System, for the Anglo French Interconnector (IFA), at Sellindge. They are located 260m from the Defined Metering Point (DMP). The new AC Metering System will replace the existing direct current (DC) Metering Sub-System on Bipole 1, which was destroyed in a fire. Bipole 2 will continue to use the existing DC Metering System (MSID 1026) until it is replaced with an AC Metering System in October 2023. We invite the ISG to approve Metering Dispensation D/551, on a lifetime basis.**

### 1. BSC requirements

- 1.1 Section L<sup>1</sup> 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](#)<sup>2</sup>.

### 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 - D) confidential because they are commercially sensitive.

<sup>1</sup> 'Metering'

<sup>2</sup> 'Metering Dispersations'

### 3. Background to Metering Dispensation D/551

- 3.1 In September 2021, Bipole 1 of the Anglo French Interconnector (IFA) was damaged in a fire which resulted in the complete rebuild of Bipole 1. With the Bipole 1 direct current (DC) Settlement Metering Equipment destroyed in the fire it was agreed the DC Settlement Metering Equipment would be replaced with alternating current (AC) Settlement Metering Equipment in line with [CoP1](#)<sup>3</sup> requirements.
- 3.2 There has been no change or impact to the Bipole 2 DC Settlement Metering System. National Grid Interconnectors Limited (NGIL) are planning to replace the Bipole 2 DC Metering System in October 2023. A separate Metering Dispensation application will be submitted to replace the existing DC Metering Equipment Metering Dispensations, D/165<sup>4</sup>, D/227<sup>5</sup> & D/490<sup>6</sup>, accordingly.

### 4. Metering Dispensation D/551

- 4.1 NGIL has applied for a lifetime, site specific Metering Dispensation from CoP1. This is for the location of the new AC measurement transformers it proposes to use for the new Bipole 1 Settlement Metering System, for the IFA, at Sellindge (Attachment A).
- 4.2 The AC measurement transformers will be installed at the end of the 400kV cable connection in the NGIL 400kV compound and not at the Defined Metering Point (DMP), which is the point of connection to the Transmission System, in the National Grid Electricity Transmission (NGET) 400kV compound. This is due to insufficient space requirements in the NGET 400kV gas insulated substation. The cable length is approximately 260m. NGIL has calculated the losses over this cable and decided that, because they are small, and CoP1 overall accuracy will be maintained, they will not compensate the Bipole 1 AC Settlement Meter for electrical losses from the Actual Metering Point (AMP) to the DMP (Attachments B – D).

### 5. MDRG comments

- 5.1 We circulated the Metering Dispensation application (D/551) and its attachments to the Metering Dispensation Review Group (MDRG) for comments (Attachments A – D).
- 5.2 One out of five MDRG members responded. One MDRG member declined to comment as their company is the Meter Operator Agent for the Bipole 1 (and 2) Metering System for the IFA. No other MDRG members provided any comments.

### 6. NETSO comments

- 6.1 We circulated the Metering Dispensation application (D/551) and its attachments to the National Electricity Transmission System Operator (NETSO) for comments (Attachments A – D).
- 6.2 The NETSO has no concerns as long as the metering remains in CoP standards (given length of cable and lack of compensation).

### 7. Elaxon's view

- 7.1 Elaxon supports this site specific, lifetime Metering Dispensation application as accuracy will be maintained within CoP1 limits at the DMP.

### 8. Recommendation

- 8.1 We invite the ISG to:
- a) **APPROVE** Metering Dispensation D/551, from CoP1, on a lifetime basis, for the location of the alternating current (AC) measurement transformers to be used for the new Bipole 1 Metering System, for the Anglo French Interconnector (IFA), at Sellindge.

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<sup>3</sup> 'Code of Practice for the metering of circuits with a rated capacity exceeding 100MVA for Settlement purposes'

<sup>4</sup> D/165 - A lifetime Metering Dispensation for the use of DC Current Transformer (DCCTs), Voltage Dividers (VDs) and DC Meters located away from the Defined Metering Point – the point of connection to the AC Transmission System.

<sup>5</sup> D/227 - A lifetime Metering Dispensation for the use of new DC Meters.

<sup>6</sup> D/490 - A lifetime Metering Dispensation for the use Fibre Optic Current Transformers (FOCTs) instead of DCCTs. The Imbalance Settlement Group (ISG) approved D/490 (ISG210/05) subject to: an obligation on NGIL to carry out four yearly calibration checks of the Optical CTs (including DC offsets) on all four Poles; and that NGIL monitors the Imports (and Exports) across the interconnector monthly, and reports the number Settlement Periods below 100MW, monthly to the ISG Secretary. If that number exceeds 1%, the ISG Secretary will report this (via a verbal update) to the ISG. Elaxon provided an update (ISG222/04) and a verbal update in March 2020 (ISG228).

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## Attachments

Attachment A – Metering Dispensation application D/551

Attachment B (CONFIDENTIAL) – 400kV Cable Losses for Metering Dispensation (PDD-409193-REP-020\_revB)

Attachment C (CONFIDENTIAL) – Cable parameters

Attachment D (CONFIDENTIAL) – Calculated cable loss compensation factors

For more information, please contact:

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