

# ISG181/01 – METERING DISPENSATION D/465 – FERRYBRIDGE B

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**MEETING NAME** ISG 181

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**Purpose of paper** Decision

**Classification** Public

**Summary** Northern Powergrid (Yorkshire) plc has applied for a temporary Metering Dispensation (D/465) from Code of Practice (CoP) 1, for five Metering Systems, for a period of two years. The application is for the location of the existing Metering Equipment comprised in four Metering Systems at the Bramham, Whinmoor, Featherstone and Kirkhaw Lane substations. The applicant also requires a Metering Dispensation for the location of the Metering Equipment associated with a new CVA Metering System it plans to install at its new Fryston Lane substation. This new CVA Metering System is necessary to enable an interim solution to Trading Dispute DA759 which identified a Settlement Error that is currently adversely impacting the Metered Volumes for the \_F (Northeast) and \_M (Yorkshire) Grid Supply Point (GSP) Groups. We invite the ISG to approve D/465 on a temporary two year basis until 24 May 2018 while Northern Powergrid (Yorkshire) plc and Northern Powergrid (Northeast) Ltd implement an enduring solution.

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## 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 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, the 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 Dispersations'.

## 2. Background to Metering Dispensation D/465

- 2.1 **Ferrybridge B** – Ferrybridge B is a 275/132kV Transmission System connected substation at which is located a GSP for the \_F (Northeast) GSP Group (GSP\_FERRB1) and a Distribution Systems Connection Point (DSCP) for the \_M (Yorkshire) GSP Group (II\_FERRB9). The Metering Equipment associated with the GSP Metering System is located on the low voltage (LV) side of the five 275/132kV supergrid transformers (SGTs) at Ferrybridge B. The Metering Equipment associated with the existing four DSCP Metering Systems is located on the LV side of the 132/33kV substations at four Northern Powergrid (Yorkshire) plc substations: Whinmoor; Bramham; Kirkhaw Lane; and Featherstone.

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- 2.2 Recently Northern Powergrid (Yorkshire) plc built a new 132/33kV substation at Fryston Lane on the two circuits between the Ferrybridge B substation and the Featherstone substation. A new generator (Ferrybridge Multifuels Export Ltd (FME)) was connected into the Fryston Lane substation and its Import and Export Metering Systems were registered in Settlement as SVA Metering Systems. As a result, the Metered Volumes from the FME site are not being accounted for by any of the existing DSCP Metering Systems. This is causing errors in Settlement for the \_F and \_M GSP Groups.
- 2.3 As an interim solution Northern Powergrid (Yorkshire) plc proposes to install a new Outstation at the FME site and, using the existing FME Meters and measurement transformers, register a new CVA Metering System to account for the DSCP Metering Volumes resulting from the FME site.
- 2.4 A temporary Metering Dispensation (D/465) is required to account for the location of this new DSCP Metering System and the other four existing DSCP Metering Systems. Diagrams illustrating the existing situation and the situation once the interim solution is installed at the FME site can be found in Attachment B, Annex 1 and 2. Northern Powergrid (Yorkshire) plc and Northern Powergrid (Northeast) Ltd have also proposed an enduring solution and this is provided in Attachment B, Annex 3. The enduring solution will require a permanent Metering Dispensation.
- 2.5 **Metering Dispensation D/93** - In August 1992, Yorkshire Electricity plc (Yorkshire Electricity), now Northern Powergrid (Yorkshire) plc, applied for a temporary two year Metering Dispensation (D/93) to use the existing Metering Systems at four Yorkshire Electricity substations: Whinmoor; Bramham; Kirkhaw Lane; and Featherstone, as Distribution Systems Connection Point (DSCP) Metering Systems to measure the flows between the \_F (Northeast) GSP Group and the \_M (Yorkshire) GSP Group. The DSCP Metering Equipment should have been located at the point of connection of the DSCP circuits to the 132kV busbar in the Ferrybridge B substation.
- 2.6 Northern Electricity's, now Northern Powergrid (Northeast) Ltd, GSP Metered Volumes from the Ferrybridge B substation to its Osbaldwick 132/33kV substation is determined by the difference between the aggregated SGT Meter readings at the Ferrybridge B GSP and the aggregated Meter readings of the DSCP Metering Systems at the four Yorkshire Electricity substations. The differencing arrangement takes place at the GSP Group Take level via the GSP Group Take Aggregation Rules for the \_F (Northeast) GSP Group and \_M (Yorkshire) GSP Group.
- 2.7 The application was on a temporary basis because in November 1994 the new Knaresborough substation was to be commissioned as a new GSP for the Northern Electricity GSP Group, therefore the Ferrybridge B to Osbaldwick feeder was to be disconnected, completing the severance between Ferrybridge B and Northern Electricity's distribution network. On completion of these disconnections, D/93 was to be withdrawn and Northern Electricity's Metered Volumes were to be determined via the SGT Meters at Knaresborough GSP and Osbaldwick. Yorkshire Electricity's Metered Volumes would then be determined using the SGT Meters already installed at Ferrybridge B.
- 2.8 On the 26 November 1992 the Metering Sub-Committee (MSC) (i.e. the sub-committee responsible for Metering Dispensations at the time) approved D/93 with an expiry date of 1 November 1994.
- 2.9 **Metering Dispensation D/241** - In August 1999 Yorkshire Electricity Distribution Limited (YEDL), now Northern Powergrid (Yorkshire) plc, applied for a temporary Metering Dispensation (D/241) as an update to Metering Dispensation D/93 that expired on 1 November 1994. It is not clear to ELEXON why Yorkshire Electricity or YEDL allowed D/93 to lapse and the Metering Systems to remain non-compliant for a five year period.
- 2.10 The Metering Dispensation application was to allow the continued use of the existing DSCP metering (previously covered by D/93) at the four YEDL substations: Whinmoor; Bramham; Kirklaw Lane; and

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Featherstone. This was necessary while Northern Electricity Distribution Ltd (NEDL), now Northern Powergrid (Northeast) Ltd, and National Grid sought a solution over building and commissioning the new GSP at Knaresborough, which was subject to delays.

- 2.11 The relevant committee<sup>1</sup> at the time approved a temporary three year Metering Dispensation until 31 August 2002.
- 2.12 In May 2003, YEDL requested an extension to Metering Dispensation D/241 due to further delays in building and commissioning the new Knaresborough GSP.
- 2.13 In July 2003, the ISG (ISG30/337) approved the requested extension to D/241 until 30 June 2006 subject to:
- all the Meters and Outstations at the four YEDL substations being upgraded to CoP2<sup>2</sup> standards; and
  - the ISG receiving regular updates on the progress of building and commissioning the new Knaresborough GSP.
- 2.14 ELEXON provided updates to the ISG on the following dates on the progress of building and commissioning the new Knaresborough GSP, and the upgrade of the Meters and Outstations at the four YEDL substations to CoP2 standards:
- 27 January 2004 (ISG/36/407 – Confidential);
  - 25 May 2004 (ISG/40/010);
  - 24 August 2004 (ISG/43/004); and
  - 22 February 2005 (ISG/49/2024).
- 2.15 D/241 expired in June 2006. However, YEDL did not implement an enduring solution beforehand and so the Metering Systems have been non-compliant since. It is not clear to ELEXON why YEDL (or its successor(s)) allowed D/241 to lapse and the Metering Systems to remain non-compliant for the last ten years.
- 2.16 **ELEXON Actions regarding temporary/expired Metering Dispensations** - Since December 2013 ELEXON has operated a process whereby it notifies Registrants when any related temporary Metering Dispensations are due to expire. ELEXON does this six months before the expiry date and requests that Registrants either:
- confirm Metering Equipment now fully complies and withdraw the approved Metering Dispensation; or
  - apply for an extension to the Metering Dispensation at least 14 weeks before it is due to expire detailing why the Registrant has not been able to fully comply within the period of the temporary Metering Dispensation.
- 2.17 In light of the issues raised by this application, and to check whether there are similar Metering Systems requiring attention, ELEXON will investigate all Metering Dispensations which have expired where ELEXON has not received a formal withdrawal notification from the Registrant and the Registrant has not applied for another Metering Dispensation for the same Metering Equipment.
- 2.18 **Progress on the Knaresborough substation** - The Knaresborough substation was built and commissioned in 2015 and the Knaresborough GSP (GSP\_KNAR) became effective in Settlement on 31 August 2015.

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<sup>1</sup> Trading Stage 1 (TS1)

<sup>2</sup> 'Code of Practice for the metering of circuits with a rated capacity not exceeding 100MVA for Settlement purposes'

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2.19 ELEXON has confirmed with Northern Powergrid (Northeast) Ltd that contrary to the proposal under D/93 to sever the link between Ferrybridge B substation and the \_F GSP Group at the Osbaldwick substation, once the Knaresborough GSP is in use, it is still required for operational reasons (i.e. for outages and potential faults).

## 3. Metering Dispensation D/465

3.1 In April 2016 Northern Powergrid (Yorkshire) plc, the Licensed Distribution Systems Operator (LDSO) for the \_M (Yorkshire) GSP Group, applied for a temporary Metering Dispensation (D/465) against CoP1<sup>3</sup>, for five Metering Systems, for a period of two years (Attachment A).

3.2 The Metering Dispensation application is for the location of the existing Metering Equipment associated with the DSCP Metering Systems at the Bramham (MSID 0429), Whinmoor (MSID 0430), Featherstone (MSID 0431) and Kirkhaw Lane (MSID 0432) substations. The Metering Equipment for the DSCP should be located at the point of connection (the Defined Metering Point) of the DSCP circuits to the 132kV busbar in the Ferrybridge B substation.

3.3 The applicant also requires a Metering Dispensation for the location of the Metering Equipment associated with a new CVA Metering System (MSID 7322) it plans to install<sup>4</sup> at the new Fryston Lane substation (Annex 2 of Attachment B). This is due to the connection of a generator, FME, into the new Fryston Lane substation, which connects into the Featherstone circuits above the existing DSCP Metering Equipment for the Featherstone circuits (Attachment B, Annex 1). The Metering Equipment for the new CVA Metering System should be located at the point of connection of the DSCP circuits to the 132kV busbar in the Ferrybridge B substation (however this Metering System would not be required if the Metering Equipment for the Featherstone circuits was located at the point of connection of the Featherstone circuits to the 132kV busbar in the Ferrybridge B substation).

3.4 Northern Powergrid (Yorkshire) plc requires the new CVA Metering System as an interim solution to correctly account for the DSCP flows between the \_F (Northeast) and the \_M (Yorkshire) GSP Groups. The applicant proposes to continue using existing SVA Metering Equipment (Meters and measurement transformers) for the FME site and add a new Outstation for the new CVA Metering System for the DSCP.

3.5 The application is for a temporary Metering Dispensation for two years because Northern Powergrid (Yorkshire) plc can implement the interim solution relatively quickly to account for the impact of the FME site on Settlements. The proposed enduring solution will take approximately 18 months to complete, including the construction of the assets and establishment of the contractual and commercial/trading arrangements.

3.6 The enduring solution (Attachment B, Annex 3) will involve:

- Northern Powergrid (Northeast) Ltd installing and registering new Metering Equipment in the Ferrybridge B substation for the Ferrybridge B to Osbaldwick feeder – thereby independently measuring the Metered Volumes to and from the \_F GSP Group;
- Northern Powergrid (Yorkshire) plc de-registering the DSCP Metering Systems (including the proposed temporary new CVA Metering System); and
- Northern Powergrid (Yorkshire) plc taking over registration of the existing Ferrybridge SGT Meters and establishing a difference metering arrangement with the Ferrybridge B to Osbaldwick Metering System to

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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> Within the next three weeks.

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determine its GSP Metered Volumes. N.B. Northern Powergrid will need to apply for a lifetime Metering Dispensation to enable this differencing arrangement to be established as part of the enduring solution.

- 3.7 **Trading Dispute DA759** – On 12 August 2015 ELEXON raised Trading Dispute DA759 (Attachment C) to correct the historic Settlement Error caused by the FME site connecting into the new substation at Fryston Lane. The Trading Disputes Committee (TDC) will be able to make a determination on DA759 to resolve it once Northern Powergrid (Yorkshire) plc registers the new CVA Metering System in Settlement.

## 4. MDRG comments

- 4.1 Four MDRG members support the Metering Dispensation on the basis that the proposed new CVA Metering System will resolve the ongoing issue caused by the location of the FME site (and its SVA Metering Systems) and the new Metering Dispensation will reinstate the lapsed previous Metering Dispensation.
- 4.2 One MDRG member declared an interest and declined to comment as they are the Meter Operator Agent for the existing DSCP Metering Equipment.

## 5. Transmission Company comments

- 5.1 The Transmission Company supports the Metering Dispensation application as it has identified no operational issues with the Metering Dispensation application.

## 6. ELEXON's view

- 6.1 ELEXON supports the Metering Dispensation application as it is necessary to enable an interim solution that will ensure Settlement remains as accurate as possible until Northern Powergrid (Yorkshire) plc and Northern Powergrid (Northeast) Ltd implement the enduring solution. In particular the Metering Dispensation will address the fact that the existing DSCP Metering Systems and the proposed new CVA Metering System are not located at the Defined Metering Points.
- 6.2 We believe the interim solution represents the most practical, cost and time effective solution to resolve the current issue and its use will have little adverse impact on Settlement. Northern Powergrid (Yorkshire) plc should, as per BSCP128 'Production, Submission, Audit and Approval of Line Loss Factors', reassess the applicable LLFs for the new CVA Metering System and/or Featherstone Metering System to ensure losses are appropriately accounted for now that the additional generator Metered Volumes could affect the actual losses on Northern Powergrid (Yorkshire) plc's network between the Featherstone substation (and the Fryston Lane substation) and the Ferrybridge B substation.
- 6.3 If the ISG rejects the Metering Dispensation application this will prevent Northern Powergrid (Yorkshire) plc registering the new (non-compliant) CVA Metering System. Without a solution in place:
- the TDC will not be able to make a determination on resolving the associated Trading Dispute (DA759) which ELEXON raised to rectify historical Settlement Errors; and
  - it may not be possible to prevent the on-going Settlement Errors caused by the location of the FME site relative to the existing DSCP Metering Systems.
- 6.4 In addition, if the ISG rejects the application Northern Powergrid (Yorkshire) plc and Northern Powergrid (Northeast) Ltd will remain in breach of the BSC by failing to measure Systems Connection Point (GSP and DSCP) flows with Metering Equipment in accordance with Section L of the BSC. Attachment C provides further details of the steps ELEXON and the affected BSC Parties have taken, and continue to take, regarding their breach of the BSC.

## 7. Recommendations

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7.1 We invite you to:

- a) **APPROVE** D/465 on a temporary two year basis until 24 May 2018.

## Attachments

Attachment A – Metering Dispensation application (D/465)

Attachment B – Ferrybridge B/DSCP diagrams

Attachment C (CONFIDENTIAL) – Summary of Trading Dispute DA759

## For more information, please contact:

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