

ISG218/02– METERING DISPENSATION D/495 – KILLINGHOLME PS (MODULE 2)

MEETING NAME ISG 218

Date of meeting 18 June 2019

Paper number 218/02

Owner/author Mike Smith

Purpose of paper Decision

Classification Public

Summary Uniper Technologies has applied for a temporary extension to an existing Metering Dispensation (D/475) against Code of Practice 1. D/475 expired on 1 May 2019 and allowed non-compliant current transformers (CT) to feed the Reactive Energy Meters on Module 2 at Killingholme Power Station. Uniper UK Ltd (the Power Station) has now sourced replacement CTs, and the existing CTs will be replaced with compliant CTs (accuracy class 0.2s) in the June/July 2019 outage. We invite the ISG to approve D/495 on a temporary basis until 1 August 2019.

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 [BSC Procedure \(BSCP\) 32 'Metering Dispensations'](#).

2. Background to Metering Dispensation D/475

2.1 In 2011, E.ON removed the FMJL 400kV current transformers (CTs) on Module 2 at Killingholme Power Station on safety grounds. These were feeding the Reactive Energy Meters only. At the time replacement CTs were not available, therefore post insulators were installed and temporary alternative existing CT windings were utilised for the Reactive Energy Meters. These temporary CTs are to a class 1.0 standard of accuracy, and only one winding was available to feed the main and check Reactive Energy Meters on Module 2.

2.2 CoP1¹ requires:

- two sets of current transformers with a minimum standard of accuracy of class 0.2s; and
- the current transformers supplying the main Meters need to be dedicated for that purpose.

¹ 'Code of Practice for the metering of circuits with a rated capacity exceeding 100MVA for Settlement purposes'

ISG218/02– METERING DISPENSATION D/495 – KILLINGHOLME PS (MODULE 2)

- 2.3 In December 2011 E.ON UK applied for a temporary Metering Dispensation (D/372) against CoP1 for the use of non-complaint CTs on Module 2 at Killingholme Power Station. This was for a period of 18 months. At its meeting on 20 December 2011, the ISG approved D/372 until 20 June 2013 ([ISG131/05](#)).
- 2.4 Appendix 1 represents a summary of the original Metering Dispensation application (D/372) and the subsequent Metering Dispensation applications for the non-compliant CTs that feed the Reactive Energy Meters on Module 2 at Killingholme Power Station.

3. Metering Dispensation application – D/495

- 3.1 In May 2019 Uniper Technologies Ltd applied for a temporary extension (D/495) to the existing Metering Dispensation (D/475) (Attachment A).
- 3.2 D/475 expired on 1 May 2019² and allowed non-compliant CTs to feed the Reactive Energy Meters on Module 2 at Killingholme Power Station. The applicant has also provided a simplified electrical single line diagram of Killingholme Power Station indicating the location of the existing accuracy class 1.0 CTs that feed the Reactive Energy Meters on Module 2 (Attachment B).
- 3.3 Uniper UK Ltd (the Power Station) has now sourced replacement CTs, and the existing accuracy class 1.0 CTs will be replaced with compliant accuracy class 0.2s CTs in the June/July 2019 outage. When Module 2 returns from the outage, the Reactive Power metering will then be fully compliant with CoP1.
- 3.4 Uniper Technologies Ltd therefore requests that the existing Metering Dispensation, D/475, be extended to 1st August 2019.

4. MDRG comments

- 4.1 We circulated Metering Dispensation application (D/495) to the Metering Dispensation Review Group (MDRG) for comment.
- 4.2 Four out of five MDRG members responded.
- One MDRG member declined to comment as the site was previously an E.ON site and they work for E.ON.
 - One MDRG member supports the application on a temporary basis as the Active Energy measurement is unaffected and there are now firm plans in place to replace the tariff CTs for the Reactive Energy.
 - One MDRG member does not have any issues with the application for the extension; and
 - One MDRG member supports this further short extension.

5. NETSO comments

- 5.1 We circulated Metering Dispensation application (D/495) to the National Electricity Transmission System Operator (NETSO) for comment. The NETSO confirmed that given that there is no change in the current arrangements (just a time extension) and when the CTs are replaced they will be compliant, it has no issues with this Metering Dispensation application.

² We reminded the applicant by email that the Metering Dispensation was due to expire six months before the expiry date and three times thereafter but received no responses (or delivery failure notifications). We noticed later that we had inadvertently selected an old email address for the applicant.

ISG218/02– METERING DISPENSATION D/495 – KILLINGHOLME PS (MODULE 2)

6. ELEXON's view

- 6.1 We support this temporary Metering Dispensation application (D/495) to continue using the non-compliant accuracy class 1.0 CTs for the Reactive Energy Meters on Module 2 until 1 August 2019. This is on the basis that:
- there will be no impact on Settlement of Active Energy;
 - there will be no impact on overall accuracy of Reactive Energy measurement; and
 - compliant accuracy class 0.2s CTs will be installed for the Reactive Energy Meters on Module 2 in the June/July 2019 outage.

7. Recommendations

- 7.1 We invite you to:
- a) **APPROVE** Metering Dispensation D/495 on a temporary basis until 1 August 2019.

Appendices

Appendix 1 – Summary of Killingholme Power Station (Module 2) Metering Dispensations

Attachments

Attachment A – Metering Dispensation application (D/495)

Attachment B – Killingholme Power Station simplified electrical single line diagram (SLD)

For more information, please contact:

Mike Smith, Metering Analyst

mike.smith@elexon.co.uk

020 7380 4033

ISG218/02– METERING DISPENSATION D/495 – KILLINGHOLME PS (MODULE 2)

Appendix 1 – Summary of Killingholme Power Station (Module 2) Metering Dispensations

Dispensation Reference No.	Application Date	Reason/Requested Dispensation Term	ISG Meeting	ISG Paper No.	Outcome/Term Agreed	Reason/ Conditions
D/372	Nov 2011	CTs removed due to safety concerns over FMJL CTs. Use class 1.0 CTs for Reactive Energy Meters on Module 2 until class 0.2s replacement CTs can be delivered and installed/18 months.	Dec 2011	131/05	Approved/18 months until 20 June 2013	-/-
D/402	Apr 2013	Due to late delivery of class 0.2s CTs the planned outage period was missed. The running hours for both Modules were minimal during the period of D/372 and since maintenance of the generators is based on running hours, the applicant believed that it would be unlikely that a planned outage on Module 2 would take place within the foreseeable future, estimated 2015/Two years.	June 2013	145/03	Approved/Two years until 20 June 2015.	-/-

ISG218/02– METERING DISPENSATION D/495 – KILLINGHOLME PS (MODULE 2)

D/445	Feb 2015	The planned outage necessary to install the new 0.2s CTs was rescheduled to quarter two/quarter three of 2017. This was due to the low running time of the Killingholme Power Station. Extension request to 31 December 2017 to align with this outage/Two years until 31 December 2017.	April 2015	168/03	Approved/One year until 31 December 2016.	The ISG noted E.ON plans to withdraw Killingholme Power Station from the UK market and recommended that, should the applicant plan on providing services beyond 2016 (e.g. Supplemental Balancing Reserve), they would need to ensure compliance with CoP1 or apply for another Metering Dispensation/-
D/462	Dec 2015	In 2015, E.ON (now Uniper Technologies (Ratcliffe) Ltd)) decided to close Killingholme Power Station and it ceased commercial operation in April 2015. Recently, National Grid awarded Killingholme Power Station a Supplemental Balancing Reserve (SBR) contract for the winter 2016/17 period/Four months	Feb 2016	178/06	Approved/Four months until 1 May 2017.	-/-

ISG218/02– METERING DISPENSATION D/495 – KILLINGHOLME PS (MODULE 2)

D/475	Apr 2017	<p>Killingholme Power Station has now been made commercially available and will operate in the Short Term Operating Reserve (STOR) market and under the Balancing Mechanism (due to changes in electricity market conditions). The site is reluctant to spend £70,000 to install class 0.2s CT as there is no material effect on the metering accuracy. The applicant therefore wishes to extend D/462 to the expected end of life (confidential) of the station/Lifetime.</p>	June 2017	195/03	Approved/Two years until 1 May 2019.	-/-
-------	----------	--	-----------	------------------------	--------------------------------------	-----