

SVG195/02 – METERING DISPENSATION D/474

MEETING NAME	SVG 195
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Date of meeting	2 May 2017
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Owner/author	Bir Virk
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Purpose of paper	Decision
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Classification	Public
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Summary	<p>In February 2016, the Supplier Volume Allocation Group (SVG) approved generic Metering Dispensation D/461 on a lifetime basis with a condition. D/461 covers a specific set of equipment relating to Offshore wind farm sites. Dong Energy Burbo (UK) Ltd has applied to expand the scope of this specified equipment through D/474, which would also be a lifetime generic Metering Dispensation and would supersede D/461. We invite the SVG to approve D/474 with the same condition as D/461.</p>
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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 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 Dispersations'](#).

2. Metering Dispensation D/461

2.1 On 2 February 2016, the SVG approved generic Metering Dispensation D/461 on a lifetime basis after an application from DONG Energy. D/461 relates to [CoP5](#)¹. It allows a specific direct current (DC) metering solution to be used to measure Low Voltage (LV) supplies at Offshore wind farm sites. It applies to any Parties using this specific equipment and not just to DONG Energy sites.

2.2 The arrangements include the use of a Hall effect transducer to measure DC current that is fed to a DC kWh Meter. That DC Meter has a pulse output that provides pulses to an Elster A1700 Meter which is used as a data logger for Settlement purposes. You can find more details on the D/461 technical solution in our previous [SVG paper 180/02](#) and in the original public D/461 application form ([SVG180/02 Attachment A](#)).

2.3 In approving D/461, the SVG noted that the standards for Metering Equipment quoted in CoP5 specifically relate to measuring alternating current (AC), not DC, and that no DC Meters have therefore been compliance-tested under [BSCP601](#)² against the CoP5 requirements. The SVG approved D/461 on the condition that the DC metering solution should not be used for customer billing purposes. It noted that the

¹ 'The Metering of Energy Transfers with Max Demand of up to (and including) 1MW for Settlement Purposes'.

² 'Metering Protocol Approval and Compliance Testing'.

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Meter could not be used for customer billing as it was not approved under the Electricity Act of 1989. DONG Energy also confirmed that it did not intend to use the solution for customer billing purposes.

3. Metering Dispensation D/474

- 3.1 On 31 March 2017, ELEXON received a Metering Dispensation application (Attachment A) from Dong Energy Burbo (UK) Ltd to amend the specifics of D/461.
- 3.2 D/461 makes reference to a DC transducer rated at 100A; however D/474 seeks to include DC transducers of 20A, 50A and 200A as well as 100A. In all other respects D/474 is the same as D/461.
- 3.3 The applicant wishes to include these additional transducers because, following the approval of D/461, the commissioned equipment turned out to be insufficient. Due to the increased technical availability of equipment and the current needs of Offshore wind farm LV DC systems, the same equipment with ratings of 20A, 50A and 200A is required.
- 3.4 The applicant confirms that the change of rating does not impact the accuracy of the Metering Equipment which will remain within the limits of CoP5.
- 3.5 If approved, ELEXON proposes that D/474 will supersede D/461 which will be end-dated. Therefore D/474 will allow the use of 20A, 50A, 100A and 200A transducers.
- 3.6 Like D/461, D/474 will apply to any Parties using the specific equipment.

4. Confidentiality

- 4.1 The applicant has confirmed that the main D/474 application form (Attachment A) is not confidential. However, it has requested that the other D/474 attachments remain confidential. This is because they contain further technical details for the Metering Equipment involved and have been provided by the relevant manufacturers who wish to keep these confidential from competitors.
- 4.2 We have therefore provided Attachments B-F to SVG Members only, and have not published them on the BSC Website.

5. Evidence for accuracy

- 5.1 The applicant has provided Attachments E and F. These contain certificates of conformity and calibration for the 20A (CTH/20A/5/TH/9-36Vdc type 2), 50A (CTH/50A/5/TH/9-36Vdc type 2) and 200A (CTH/200A/5/TH/9-36Vdc type 2) DC Transducers.
- 5.2 All other specifications of the DC metering solution provided as evidence in Attachments B-F remain unchanged from D/461.

6. MDRG comments

- 6.1 We circulated the D/474 application to the Metering Dispensation Review Group (MDRG) for comment. Of the five MDRG members:
 - One could not review the application due to a conflict of interest;
 - One was unavailable to review the application;
 - Two supported the application; and
 - One questioned the decision to submit D/474 as a generic Metering Dispensation application.

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- 6.2 Of the two MDRG members who supported D/474, one did so because the overall accuracy of the metering systems remains within CoP limits and there is no material difference between this and the previous dispensation. The other MDRG member had no objections but commented that this solution is practical for the next few years until a further solution is found.
- 6.3 One MDRG member believed that there is a contradiction in having a generic dispensation which contains confidential information. They argued that a generic dispensation should include all evidence or be worded in a suitably generic form which does not rely on confidential information. The MDRG member questioned why the attachments were confidential as information is publically available.
- 6.4 ELEXON has considered whether keeping Attachments B-F confidential will prevent other Parties from using the generic Metering Dispensation, if approved. We believe that the main public application form would still contain sufficient information for other Parties, and we have advised the applicant of this. We note that this is identical to the approach followed for D/461.

7. Transmission Company comments

- 7.1 We did not consult the Transmission Company for comments as the DC metering solution provided as evidence in Attachments B-F remain unchanged from D/461. The Transmission Company supported D/461 as it has identified no operational impact from the Metering Dispensation.

8. ELEXON's view

- 8.1 ELEXON supports this application on the grounds that there is no material difference from the approved D/461 and the accuracy at the Defined Metering Point will be unchanged.
- 8.2 We recommend that the same condition applies to D/474 as to D/461, for the same reasons.

9. Recommendations

- 9.1 We invite you to:
- a) **APPROVE** the generic Metering Dispensation application (D/474) on a lifetime basis, subject to the condition that:
 - i) The DC metering solution is not used for measuring DC supplies to customers for billing purposes.

Attachments

Attachment A – Metering Dispensation D/474 application form

Attachment B – **Confidential** DC Power Meter Brochure

Attachment C – **Confidential** DC current sensors, DC current transducers and DC current probes

Attachment D – **Confidential** Direct Connected or CT Metering Brochure

Attachment E – **Confidential** Current sensors, Transducers – Certificate of Conformity and Calibration

Attachment F – **Confidential** Current sensors, Transducers – Certificate of Conformity and Calibration

For more information, please contact:

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