

4.3 CP Form

Change Proposal – BSCP40/02	CP No: CP1479 <i>Version No: 1.0</i> <i>(mandatory by BSCCo)</i>
Title (mandatory by originator) Updates to the Defined Metering Points in Codes of Practice 1, 2, 3, 5 and 10	
Description of Problem/Issue (mandatory by originator) <p>On 6 February 2014 ELEXON raised Issue 54 ‘Discrepancies between the points of measurement required in the BSC and the CoPs and the physical points of connection’. This Issue was raised as a result of a paper (ISG151/01) presented to the Imbalance Settlement Group (ISG) in November 2013. ELEXON presented the Issue 54 Report (BSC Panel 225/13) to the BSC Panel on 12 June 2014.</p> <p>The Issue 54 Report highlighted three issues with Defined Metering Points (DMPs) in Codes of Practice (CoPs) 1, 2, 3, 5 and 10:</p> <p>Issue 1 – Registrants applying for more Metering Dispensations in the future because of the large distance between the lower voltage side of the supergrid connected transformer (SGT) and the Licensed Distribution System Operator’s (LDSO) circuit or busbar(s). This means there is a large distance between where the Meter is installed (currently at the DMP) and the point of connection.</p> <p>Issue 2 – In Scotland, Transmission System owners provide the power transformer(s) that connect Generating Plant to their systems. This issue creates uncertainty about whether a Metering Dispensation is required.</p> <p>Issue 3 – The DMP description for External Interconnectors is specific to France and Moyle but does not include any references to any other existing External Interconnectors. It is therefore not clear what the DMP is for any Interconnectors that may be built in future.</p>	
Proposed Solution (mandatory by originator) <p>Issue 1 – ELEXON believes that changing the DMP between a Distribution System of a LDSO (with no other parties connected) and the Transmission System to the point of connection will clarify where measurement the of flows of electricity at these Grid Supply Points (GSPs) should made (or referred to) for Settlements purposes.</p> <p>A form of generic Metering Dispensation will also be required to supplement the change because, in some cases, it is not always possible at GSPs to install measurement transformers at the point of connection for practical reasons. A generic Metering Dispensation will allow measurement transformers to be installed at the most practical location, within a certain distance, on the circuit (i.e. away from the point(s) of connection, if necessary). Where any power transformer sits between the AMP and the new DMP, a site specific Metering Dispensation will still be required.</p> <p>This should help to reduce the number of Metering Dispensation applications we receive by</p>	

allowing measurement transformers to be installed at (or as close as practicable) to the point of connection, or commercial interface.

The Issue 54 Workgroup agreed with the proposed changes detailed above.

ELEXON proposes that we include this generic Metering Dispensation within the CoPs themselves by incorporating it into the DMP definition and the section of the CoPs that deals with compensation for power transformers and cable or line losses.

Issue 2 - The Issue 54 Workgroup agreed with ELEXON's recommendation to change the DMP for where Generating Plant connects to the Transmission System to be the point of connection.

Issue 3 – The Issue 54 Workgroup agreed with ELEXON's recommendation to make the DMP between an External Interconnector and the Transmission System the point of connection, rather than specify all the existing External Interconnectors. ELEXON also recommends that it updates the DMP to include External Interconnectors which could connect to a Distribution System of a LDSO to further future proof CoPs 1, 2, 3, 5 and 10.

Justification for Change (mandatory by originator)

Issue 1 - In the past three years ELEXON has received eight Metering Dispensation applications related to this issue. The GSP Metering Equipment was located at the existing DMP for new SGTs, but the DMP does not coincide with the point of connection/commercial interface. The Registrant (i.e. the LDSO) in each of these cases requested a Metering Dispensation to correct for the line (or cable) losses to the point of connection.

ELEXON is aware of 13 new circuits at GSPs to be registered by 2018. National Grid annually updates the list and so there will be more circuits added to the plan in March 2017.

If left unclarified, any new GSPs and new circuits at existing GSPs could potentially result in many avoidable applications for Metering Dispersations for the Registrant to correct for losses between the DMP and the point of connection.

Applications for Metering Dispersations take time and resource to progress (including the Registrant's, ELEXON's, the Metering Dispensation Review Group (MDRG)'s and that of the BSC Panel Committees). A more efficient registration process can be created for such non-compliant Metering Systems. This can be achieved by changing the DMP between the Distribution System of a LDSO and the Transmission System (with no other parties connected) to the point of connection, and creating a generic Metering Dispensation to account for the Actual Metering Point (AMP) not being at the new DMP (but within a certain distance limit).

Issue 2 - Changing the DMP between Generating Plant and the Transmission System to the point of connection will remove any ambiguity about where Registrants need to install Metering Equipment.

Prospectively, this will also remove the (arguably ambiguous) requirement to install Metering Equipment on the high voltage side of the Transmission System owner's power transformer and avoid the need for the Registrant to apply for a site specific Metering Dispensation. This would be required if the Registrant wanted to account for power transformer losses (and possibly line (or cable) losses) from the high voltage side of the Transmission System owner's

power transformer, to the point of connection/commercial interface on the low voltage side.

Issue 3 – ELEXON anticipates that a number of new External Interconnectors will connect to the Transmission System (and possibly to a Distribution System of a LDSO) as part of the integrated European power network. Therefore it would be prudent to update the CoPs to clearly state that the DMP for all External Interconnectors is the point(s) of connection to future-proof CoPs 1, 2, 3, 5 and 10. Defining the DMP as the point of connection will also make it clear to developers/Meter Operator Agents/Registrants where the DMP should be for new External Interconnectors.

To which section of the Code does the CP relate, and does the CP facilitate the current provisions of the Code? (mandatory by originator)

BSC Section L ‘Metering’.

Estimated Implementation Costs (mandatory by BSCCo)

£240 (one ELEXON working day) of effort to implement the necessary document changes.

Configurable Items Affected by Proposed Solution(s) (mandatory by originator)

CoP1 ‘Code of Practice for the Metering of Circuits with a Rated Capacity Exceeding 100MVA for Settlement Purposes’;

CoP2 ‘Code of Practice for the Metering of Circuits with a Rated Capacity not Exceeding 100MVA for Settlement Purposes’;

CoP3 ‘Code of Practice for the Metering of Circuits with a Rated Capacity not Exceeding 10MVA for Settlement Purposes’;

CoP5 ‘Code of Practice for the Metering of Energy Transfers with a Maximum Demand of up to (and including) 1 MW for Settlement Purposes’; and

CoP10 ‘Code of Practice for the Metering of Energy via Low Voltage Circuits for Settlement Purposes’.

Housekeeping Change

The redlining includes a Housekeeping change to remove the word ‘operator’ when referring to ‘Transmission System Operator’. This applies to Appendix A in CoPs 1, 2, 3, 5 and 10. These Housekeeping changes have been included in response to the ISG discussions on [CP1422 ‘Add a Defined Metering Point for an Offshore Transmission Connection Point to the HH Codes of Practice’](#) at [ISG163](#). The ISG believes references to the transfer of electricity are in relation to a Transmission System not the Transmission System Operator.

ELEXON recommends that the redlining includes a Housekeeping change to amend the wording in any DMPs which reference connections to a ‘Licensed Distribution System Operator’ to a ‘Distribution System operated by a Licensed Distribution System Operator’ for consistency with the ISG’s suggestion. ELEXON also recommends minor Housekeeping changes to ensure consistency of the wording used for the DMPs across each Appendix A of CoPs 1, 2, 3, 5 and 10.

Impact on Core Industry Documents or System Operator-Transmission Owner Code (mandatory by originator) None.
Related Changes and/or Projects (mandatory by BSCCo) N/A
Requested Implementation Date (mandatory by originator) 2 November 2017 as part of the November 2017 BSC Release This is the next available Release that this CP can be included in.
Version History (mandatory by BSCCo) Version 1.0 of CP1479 was issued on 23 November 2016.
<i>Originator's Details:</i> <i>BCA Name:</i> Mike Smith <i>Organisation:</i> ELEXON Ltd <i>Email Address:</i> mike.smith@elexon.co.uk <i>Telephone Number:</i> 0207 380 4033 <i>Date:</i> 23 November 2016
Attachments: N