4.3 CP Form

Change Proposal – BSCP40/02	**CP No:** *Version No:* *(mandatory by BSCCo)*

Title (mandatory by originator)

Specifying the requirements to provide Single Line Diagrams (SLDs) for High Voltage (HV) and Extra High Voltage (EHV) sites

Description of Problem/Issue (mandatory by originator)

Currently there is no requirement in the BSC to produce SLDs despite a number of BSC processes requiring one to be submitted. Without the requirement to produce SLDs being specified, some Parties have not felt incentivised to create them despite there being requirements in the BSC to submit SLDs, e.g. to Elexon and the Technical Assurance Agent (TAA).

Elexon does receive SLDs for Balancing Mechanism (BM) Unit registrations (BSCP15) and Registration of Transmission System Boundary Points, Grid Supply Point (GSP) Groups and Distribution Systems Connection Points (BSCP25). There is also a requirement in BSCP27 'Technical Assurance of Half Hourly Metering Systems for Settlement purposes' to provide an SLD to the TAA as part of the Desktop Audit process (implemented via P391 'Introducing Desktop Audits').

Additionally, under the TAA's Working Instructions the TAA requires an SLD for on-site Inspection Visits in order to determine if a Metering Dispensation is required for the location of the measurement transformers versus the Defined Metering Point (DMP) set out in the relevant CoP. The TAA also requires this SLD for on-site Inspection Visits to identify the DMP and Actual Metering Point/s (AMP/s) (to see if a Metering Dispensation is required) and validate Central Volume Allocation (CVA) Aggregation Rules (BSCP75) to confirm that all circuits are captured correctly in the Aggregation Rule(s).

The TAA has highlighted that Registrants of Metering Systems are not providing SLDs as part of these audits. CP1559 'Complex Sites Process Improvements' and R0018 'Complex Sites Process Improvements' have been raised, and approved (for November 2022 implementation), under the BSC and the Retail Energy Code (REC) to mandate the provision of SLDs for Supplier Volume Allocation (SVA) Complex Sites, yet there is no requirement, in either Code, to actually produce them.

The issue came to light at the Technical Assurance of Metering Expert Group (TAMEG) when discussing non-compliances related to the requirement under Desktop Audits for the Licensed Distribution System Operator (LDSO) to provide SLDs and an LDSO representative highlighted that there is no requirement in the Codes of Practice (CoPs) to provide one. At the seventh Workgroup meeting under Issue 93 'Review of the BSC metering Codes of Practice', the Workgroup agreed to raise a Change Proposal (CP) that addresses the 'Requirements to provide SLDs for HV and EHV sites' aspect of Issue 93.

Proposed Solution (mandatory by originator)

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A requirement will be added to the relevant CoPs that mandates that an SLD must be created, and be auditable, for new HV and EHV Metering Systems, or reconfiguration of EHV and HV sites, e.g. which may introduce additional Boundary Point connections or an embedded Metering System. This change will not be retrospective and will not impact existing EHV and HV sites unless significant works takes place (e.g. replacement of switchgear containing measurement transformers used by the Metering System).

The Issue 93 Workgroup agreed that this should not be a requirement for Low Voltage (LV) Metering Systems as LV SLDs are quite generic so don't add any value to the audit process. Additionally, the risk and materiality associated with a Metering Equipment non-compliance is much lower.

Justification for Change (mandatory by originator)

The provision of SLDs assists Elexon in determining where Settlement Metering Equipment is located so it can carry out validation against CoP requirements for location and Metering Equipment accuracy classes. The lack of a requirement to produce an SLD, within the relevant CoP, is causing an issue where the Metering System ID has been selected for a Desktop Audit or on-site Inspection Visit. This prevents the TAA from being able to confirm the compliance of Metering Systems.

Adding a requirement in the CoP will ensure that there is an obligation on the LDSO, or other BSC Parties, to create this at the installation and commissioning stage, or site reconfiguration stage, of the process. Producing and providing SLDs for new, and reconfigured, HV and EHV sites will allow the TAA and Elexon to check that CVA and SVA Metering Systems comply with the relevant CoP and CVA Aggregation Rules, and SVA Complex Site aggregation rules, correctly aggregate and allocate metered data to the appropriate BSC Party (the Registrant), for Settlement purposes.

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)

<£1k

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

Code of Practice 1: The Metering of Circuits with a Rated Capacity Exceeding 100 MVA for Settlement Purposes

Code of Practice 2: The Metering of Circuits with a Rated Capacity not Exceeding 100 MVA for Settlement Purposes

Code of Practice 3: The Metering of Circuits with a Rated Capacity not Exceeding 10 MVA for Settlement Purposes

Code of Practice 5: The Metering of Energy Transfers with Maximum Demand of up to (and Including) 1MW for Settlement Purposes

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Impact on Core Industry Documents or System Operator-Transmission Owner Code (mandatory by originator) None
Related Changes and/or BSC Releases (mandatory by BSCCo) Issue 93 'Review of the BSC metering Codes of Practice'
Requested Implementation Date (mandatory by originator) 29 June 2023 (June 2023 Standard BSC Release)
Reason: We have targeted the June 2023 BSC Release because it is the earliest available release in order to realise the benefits of the change as early as possible.
Version History (mandatory by BSCCo)
Originator's Details:
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Date: *1 November 2022*
Attachments: **Y** *Draft redline changes to Metering CoPs 1, 2, 3, 5*

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