

Change Proposal – BSCP40/02

CP No: 1298

*Version No: v1.0
(mandatory by BSCCo)***Title** *(mandatory by originator)* Requirement on MOAs to Configure Meters to Record Half Hourly Reactive Power Data (for Half Hourly Settled CT-Metered Customers)**Description of Problem/Issue** *(mandatory by originator)*

As described in paper [SVG97/04](#), a Working Group on Absent and Erroneous Reactive Power Data was established by the Supplier Volume Allocation Group (SVG). The Group investigated problems that arise when the metered data provided to LDSOs by Half Hourly Data Collectors does not include all of the Reactive Power data required by the LDSO (for purposes of DUoS charging and network management).

When LDSOs do not receive Reactive Power data, they are forced to make their own estimates of the missing data, for the purpose of calculating kVA Demand and Reactive Power charges. This presents difficulties for Suppliers, who potentially find it difficult to pass on to customers charges based on estimated data. The issue is made more difficult – particularly for customer groups with sites spread across the country – by the inconsistent approaches to estimation adopted by different LDSOs.

Missing Reactive Power data also creates issues for LDSOs, who require such data to understand the power flows on their networks, the capacity requirements of their customers, and the efficiency of customers' electrical usage.

The Working Group identified a number of potential root causes for missing and erroneous Reactive Power data. One of these is that Meter Operator Agents (MOAs) may not configure Meters to record Reactive Power data.

Proposed Solution *(mandatory by originator)*

It is proposed to amend BSCP514 to place a specific obligation on MOAs that, when they install or reconfigure Half Hourly Metering Equipment that is supplied via measurement transformers, they should configure the Metering Equipment to record Half Hourly demand values for both Reactive Import and Reactive Export (provided that the Metering Equipment has the capability to do so).

The above obligation would be included as a new bullet point in section 2.3.2 ('Installation, Removal and Re-programming of Meters') of BSCP514. Note that:

- The new obligation would not apply to customers settled in the Non Half Hourly market (as Metering Equipment that is settled on a NHH basis does not constitute Half Hourly Metering Equipment for BSC purposes, even if it is recording Half Hourly data for non-Settlement purposes);
- The obligation would not apply to customers with "whole current" metering;
- This Change Proposal is not intended to oblige Parties or their Agents to replace existing Metering Equipment, and for this reason the obligation only applies when the Metering Equipment is capable of recording Half Hourly Reactive Power data. However, as the Working Group has also recommended changes to Code of Practice 5 (CoP5) and Code of Practice 10 (CoP10) to mandate this capability, the intention is that it would be present for new

and replacement Metering Equipment;

Note also that the terms 'Reactive Import' and 'Reactive Export' are as defined in the Codes of Practice:

Flow of Active Energy	Power Factor	Flow of Reactive Energy
Import	Lagging	Import
Import	Leading	Export
Import	Unity	Zero
Export	Lagging	Export
Export	Leading	Import
Export	Unity	Zero

Justification for Change (*mandatory by originator*)

The Working Group believes that LDSOs already require Half Hourly Reactive Power data for most CT-metered Half Hourly-settled customers, and that this will continue to be the case as the industry moves towards a common methodology for DUoS charging and more active management of distribution networks. This change will therefore assist Suppliers in meeting their existing BSC (and DCUSA) obligations to provide LDSOs with relevant metered data.

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

This CP facilitates:

- The Section L requirement that Registrants install Metering Equipment that measures and records flows of Reactive Energy “where relevant” (see sections L1.1.2 and L2.1.1)
- The S2.3.1(h) requirement that Half Hourly Data Collectors provide validated metered data to Suppliers and LDSOs

Estimated Implementation Costs (*mandatory by BSCCo*)

The estimated ELEXON implementation cost is 2 man days, which equates to £440

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

BSC Procedure BSCP514 ('SVA Meter Operations for Metering Systems Registered in SMRS')

Impact on Core Industry Documents or System Operator-Transmission Owner Code (*mandatory by originator*)

None

Related Changes and/or Projects (*mandatory by BSCCo*)

This Change Proposal is one of a package of four recommended to SVG by the Working Group. The six related Change Proposals are:

- CP1296, 'Mandatory Capability to Record Reactive Power Demand (kvar) Values in Code of Practice 5 (CoP5) Meters'
- CP1297, 'Mandatory Capability to Record Reactive Power Demand (kvar) Values in Code of Practice 10 (CoP10) Meters'
- CP1298, 'Requirement on MOAs to Configure Meters to Record Half Hourly Reactive Power Data (for Half Hourly Settled CT-Metered Customers)'
- CP1299, 'Requirement on Half Hourly Data Collectors to Collect and Report Reactive Power Data (where the Meter is configured to record it)'

Two further changes are currently being developed relating to the validation and estimation of Reactive Power Data. These changes will be progressed as soon as their solution has been developed.

Requested Implementation Date (*mandatory by originator*)

February 2010

Reason:

Next available release

Version History (*mandatory by BSCCo*)

Version 1.0 for Impact Assessment

Originator's Details:

BCA Name.....*Stuart Holmes.*

Organisation.....*ELEXON*

Email Address.....*stuart.holmes@elexon.co.uk*

Telephone Number.....*020 7380 4135*

Date.....*05 June 2009*

Attachments: Y

Attachment A - redline changes to BSCP514 V15.1 (2 Pages)