

Change Proposal – BSCP40/02

CP No: 1299

*Version No: v1.0
(mandatory by BSCCo)*

Title *(mandatory by originator)* Requirement on Half Hourly Data Collectors to Collect and Report Reactive Power Data (where the Meter is configured to record it)

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 (HHDCs) 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 HHDCs are not currently obliged to collect Reactive Power period values, even if the Meter Operator Agent (MOA) has configured the Meter to record them.

Proposed Solution *(mandatory by originator)*

It is proposed that the current requirement in BSCP502 relating to collection of Reactive Power data should be strengthened to oblige the HHDC to collect and report Reactive Power data, where the MOA has so configured the Meter. The wording in paragraph 1.2 of the BSCP will be amended as follows:

The HHDC shall have the capability to collect and record all Meter Period Value data for Reactive Power (with associated alarms), cumulative readings and maximum demand readings by Meter register that are required for the LDSO, **and shall use this capability to collect (and report to the Supplier and LDSO) Meter Period Value data for Reactive Power for all those SVA MS for which it is responsible and for which the Meter Technical Details indicate that the Meter is configured to record such data.**

The Working Group believes that this change will have limited impact on most HHDCs, who will in most cases already collect and report data for all the metering channels defined in the Meter Technical Details.

Justification for Change *(mandatory by originator)*

This Change Proposal is largely formalising existing practice, which is for HHDCs to collect and report data for all of the Meter channels defined in the Meter Technical Details. This is preferable to the HHDC making their own decision on which channels to report data for, as it ensures all available data is provided to Suppliers and LDSOs for purposes of charging and network management, and provides clarity to Suppliers and LDSOs on what data they will be receiving.

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 requirement in Section S2.3.1(h) of the BSC that Half Hourly Data Collectors provide “validated metered data and SVA Metering System reports to the relevant Supplier and the relevant Distribution System Operator”.

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 BSCP502 (‘Half Hourly Data Collection for SVA 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 four 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 BSCP502 V18.0 (2 Pages)