Change Proposal – BSCP40/02	CP No: CP1302 *Version No: v1.0* *(mandatory by BSCCo)*

Title *(mandatory by originator)* Requirement on Half Hourly Data Collectors to Validate Reactive Power Demand Values

Description of Problem/Issue *(mandatory by originator)*

The SVG established the Absent and Erroneous Reactive Power Data Working Group (SVG97/04). The Group were tasked to investigate the problems that arise when 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 or erroneous 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 there is currently no obligation on Half Hourly Data Collectors to validate Reactive Power data, and hence no mechanism to prevent manifestly erroneous data from being reported to Suppliers and LDSOs.

Proposed Solution *(mandatory by originator)*

In order to reduce the risk of erroneous Reactive Power data being reported to Suppliers and LDSOs, it is proposed that the following existing requirements for validation of Active Power Meter Period Values should be extended to Reactive Power Meter Period Values also:

- The requirement for a Cumulative/Total Consumption Comparison (or 'mini-MAR') in section 4.1.5 of BSCP502; and

- The requirement for a Main/Check Comparison (where check Meters exist) in section 4.1.7 of BSCP502.

These changes are described in more detail in attachment A.

Justification for Change *(mandatory by originator)*

The reporting of erroneous Reactive Power data to LDSOs and Suppliers potentially leads to incorrect DUoS charges and other issues. This Change Proposal extends the scope of existing validation processes (which has a proven track record of reducing error in Active Power data) to Reactive Power data also, where it is appropriate to do so. This will reduce errors in those industry processes that use Reactive Power data (e.g. DUoS charging), and reduce the administrative overhead of data errors on Suppliers, LDSOs and customers.

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". Currently the metered data provided for Reactive Power is not validated, which is a potential inconsistency with the BSC requirement.

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 six recommended to SVG by the Working Group. The six related Change Proposals are:

- CP 1296, 'Mandatory Capability to Record Reactive Power Demand (kvar) Values in Code of Practice 5 (CoP5) Meters'
- CP 1297, 'Mandatory Capability to Record Reactive Power Demand (kvar) Values in Code of Practice 10 (CoP10) Meters'
- CP 1298, 'Requirement on MOAs to Configure Meters to Record Half Hourly Reactive Power Data (for Half Hourly Settled CT-Metered Customers)'
- CP 1299, 'Requirement on Half Hourly Data Collectors to Collect and Report Reactive Power Data (where the Meter is configured to record it)'
- CP 1302, 'Requirement on Half Hourly Data Collectors to Validate Reactive Power Demand Values'
- CP 1303, 'Requirement on Half Hourly Data Collectors to Estimate Reactive Power Demand Values'

Requested Implementation Date *(mandatory by originator)*

February 2010

Reason:

Next available release

Version History ***(mandatory by BSCCo)*** V1.0 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……03 July 2009……..***
Attachments: Y **Attachment A: redline changes to BSCP502 V18.0 (4 Pages)**